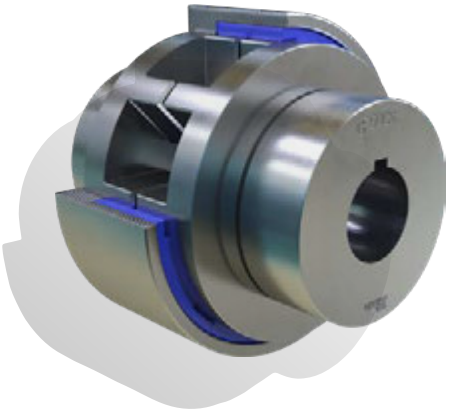

# POWER TRANSMISSION CATALOG

SPECIALITY PRODUCTS
BUSHINGS | COUPLINGS | GEARS
BELT DRIVES | SYNCHRONOUS DRIVES
ROLLER CHAIN SPROCKETS | ENGINEERED CLASS SPROCKETS
ENGINEERING INFORMATION

# Terms & Conditions of Sale

These **Terms and Conditions of Sale**, along with Seller's **Standard Limited Warranty**, the contents of Seller's written acknowledgement, if any, to a purchase order or any other writing submitted by Purchaser to Seller; Seller's written proposal, if any, submitted by Seller to Purchaser; and the contents of any invoice submitted by Seller to Purchaser shall establish the commercial terms of the contract (the "Order") under which Martin Sprocket & Gear, Inc. ("Seller") agrees to sell parts and equipment ("Products") to the purchaser (the "Purchaser") and Purchaser agrees to purchase Products from Seller.

1. **AGREEMENT:** Notwithstanding any additional, differing, or conflicting terms in a purchase order or any other writing submitted by Purchaser to Seller, the terms of the Order shall constitute the entire agreement between Seller and Purchaser. Writings transmitted from Purchaser to Seller, such as a purchaser order, that contain additional, conflicting, or differing terms from the Order shall not apply or in any way modify or alter the terms and conditions of the Order. Furthermore, writings with terms and/or conditions different from, or in addition to, the terms and conditions appearing in the Order, including any additional or differing terms and conditions contained in any purchase order submitted by the Purchaser, are expressly rejected. Purchaser's submission to Seller of an offer to purchaser Products or Purchaser's acceptance of Seller's offer to sell Products, by whatever means, constitutes Purchaser 's agreement that the Order contains the entire agreement between Purchaser and Seller. Purchaser's acceptance of the Order is expressly limited to the terms and conditions of the Order. Purchaser understands and acknowledges that the price Seller quoted for the Products is based upon Purchaser's acceptance of the terms and conditions of the Order and that the price for the Products would be different if other terms and conditions of sale were to apply.

2. **ACCEPTANCE:** If Seller is making an offer to sell Products, Purchaser may accept Seller's offer only on the terms and conditions set forth in the Order. If the Purchaser is making an offer to purchase Products from Seller, Seller's acceptance of Purchaser's offer is expressly conditioned on Purchaser's assent to the terms and conditions of the Order, and any commencement of performance by Purchaser shall be deemed to constitute such assent. Any additional and/or different terms and conditions proposed by Purchaser and/or any attempt by Purchaser to vary any of the terms and conditions of the Order shall be deemed a material alteration and is hereby objected to and rejected. Seller's shipment of any Products in response to a writing that attempts to vary any of the terms and conditions of the Order or Seller's acceptance of any payment by Purchaser shall not be deemed to constitute such assent to any additional and/or different terms and conditions proposed by Purchaser.

3. **RISK OF LOSS:** Unless a specific term of the Order provides otherwise, all shipments shall be shipped F.O.B. Seller's facility and risk of loss as to such Products shall pass and remain with Purchaser once Products depart Seller's facility.

4. **SPECIFICATIONS:** Seller shall furnish all stock Products as specified in the Order. Made-to-order Products shall be furnished in accordance with the specifications, details, requirements and/or drawings supplied by Purchaser, or prepared by Seller at Purchaser's direction. Any drawings, specifications, and calculations submitted by Seller to Purchaser shall be reviewed and approved by Purchaser. Seller warrants that all Products covered by the Order will conform to the specifications, drawings, samples or other descriptions furnished to Seller or adopted by the Purchaser. If it is determined that the Products delivered under the Order fail to meet the specifications, then Purchaser will contact Seller and Seller shall make corrections in accordance with Seller's Limited Warranty.

5. **LIMITED WARRANTY:** Seller's Standard Limited Warranty is attached hereto and incorporated herein for all purposes.

6. **PRICING, PACKAGING, DELIVERY AND PAYMENT:** All Products shall be sold on the terms, conditions and at the price quoted in the Order. All terms of pricing, packaging, shipment, delivery and payment are included in the Order.

7. **INSPECTION:** Purchaser shall have reasonable time after delivery to inspect the Products covered by the Order. Purchaser shall accept or reject the Products promptly after inspection. Payment by Purchaser prior to its inspection will not constitute acceptance of items covered by the Order.

8. **INDEMNIFICATION:**

   **8.1** Seller agrees to indemnify and hold harmless the Purchaser, its successors and assigns against any and all liabilities, loss and expense (including attorney's fees) arising out of a third party product liability claim that results in a judicially determined, final, and non-appealable order finding that the Products were defective provided that no indemnification shall be provided for any loss (or any portion of any loss) determined to have resulted from the acts or omissions of the party seeking indemnification. Seller agrees to carry adequate product liability insurance to support this obligation and agrees to provide certificate(s) of insurance showing such coverage, as requested by Purchaser.

   **8.2** Notwithstanding any of the other provisions in this Section 8., Seller's obligation to indemnify the Purchaser is limited to the extent of Seller's product liability insurance and the coverages and exclusions provided for thereunder. In the event Seller's product liability insurance will not cover any of the claims described in Section 8.1., then Seller shall have no obligation to indemnify Purchaser. Seller's obligation to pay any judgment, award, or settlement is likewise limited by the product liability insurance coverage amounts and policy limits provided for under Seller's liability insurance policies. Seller's obligation to indemnify Purchaser shall not apply to any Product which Purchaser (or Purchaser's employees, contractors, customers, or assigns) have altered, tampered with, misused or neglected, or for which Seller's operating instructions and warnings have been ignored or removed or to the extent of the negligence or legal fault of any party other than Seller. Indemnification provided herein is conditioned upon Purchaser providing Seller prompt notice of any claim and allowing Seller, or its insurance company, control over the defense and/or settlement of any such claim.

   **8.3** Seller shall defend any suit or proceeding brought against Purchaser to the extent such suit or proceeding is based on a claim that any Product or part thereof (not developed, proposed or specifically mandated by Purchaser), constitutes an infringement of any patent. In the event that the sale or use of such Product, or any part thereof, is enjoined, Seller shall, at its own expense and its option, either: (a) procure for Purchaser, the right to continue using said Product; (b) replace same with a non-infringing Product; or (c) modify same so that it becomes non-infringing.

   **8.4** The obligations of Seller with respect to indemnification for third party product liability claims and patent infringement are solely and exclusively as stated herein. **THE INDEMNITY OBLIGATIONS RECITED ABOVE ARE IN LIEU OF ALL OTHER INDEMNITIES WHATSOEVER, WHETHER ORAL, WRITTEN, EXPRESS, OR IMPLIED.**

9. **TERMINATION:**

   **9.1 Termination for Convenience:** Purchaser, by written notice, shall have the right to terminate the Order, in whole or in part, at any time for its convenience. Upon receipt of written notice, Seller and any subcontractors and suppliers shall immediately cease all work with respect to the Products. Within thirty (30) days of Seller's receipt of any termination notice, Seller shall submit its claim for its costs of performance to the date of termination. The termination charges shall consist of a percentage of the contract price of the Products reflecting the percentage of the work performed prior to the date of termination, plus any additional direct costs reasonably incurred as a result of the termination. Percentage of work performed and other charges must be verifiable by Purchaser. Upon payment of the termination charges, title to all Products for which Seller has been paid shall be vested in Purchaser.

   **9.2 Termination for Default:** The Purchaser may terminate the whole or any part of the Seller's performance under the Order in any one of the following circumstances: (1) if the Seller fails to make delivery of the Products or to perform within the time specified herein or any extension thereof;(2) if the Seller delivers Products which do not conform to the specifications; or (3) if the Seller fails to perform any of the other provisions of the Order in accordance with its terms or so fails to make progress as to endanger performance hereunder. In the event of any such failure, Purchaser will provide Seller with written notice of the nature of the failure and Purchaser's intention to terminate for default. Such notice shall provide Seller a commercially reasonable opportunity to cure such failure. In the event Seller does not cure such failure within a commercially reasonable time of such notice, Purchaser may provide Seller with a written Notice of Termination for Default. In the event the Purchaser terminates the Order for default, as provided in this clause, the Purchaser's exclusive remedy for such default is to (i) receive a refund of the price actually paid to Seller upon the return of the Products to Seller's facility from which the Products were originally shipped or (ii) accept the Product as delivered with a mutually agreed to adjustment to the price.

10. **CONFIDENTIAL INFORMATION:**

   **10.1** In the performance of its obligations under the Order, Seller may have access to trade secrets and other confidential information, including but not limited to, drawings, data, costs, operating procedures, customers and methods of doing business, which may be owned or controlled by Purchaser and its affiliates ("Confidential Information'). If Seller does in fact have access to any of the Purchaser's Confidential Information in connection with the Order, Seller agrees that any such Confidential Information shall at all times remain the exclusive property of Purchaser and shall be used by Seller and its authorized employees, agents or subcontractors solely for the purpose of performing its obligations hereunder. Seller agrees to keep such Confidential Information in confidence and not to copy or permit others to copy the Confidential Information or disclose the same to unauthorized persons for a period of three (3) years, or for any trade secret for the period of time during which such item is considered a trade secret under applicable law.

   **10.2** If Seller is required to disclose the Confidential Information pursuant to any legal proceeding, Seller shall notify Purchaser in writing and allow Purchaser to seek appropriate judicial relief.

   **10.3** Notwithstanding the foregoing, nothing herein shall limit the Seller's right to disclose any information which: (1) was in or enters the public domain without fault of the Seller; (2) is received by Seller from a third party without restriction or breach of any duty of confidentiality; (3) was known to Seller prior to receipt and such prior knowledge is demonstrated by competent evidence; or (4) is required to be disclosed pursuant to government process, law, order, rule or regulation.

11. **FORCE MAJEURE:** Neither Purchaser nor Seller shall be deemed to have breached the Order as a result of delays in performance where such delays result from acts of God, fires, strikes, pandemic, or occurrences, beyond the control, and without the fault, of the party seeking excuse. Any party seeking excuse under Section 11 shall promptly notify the other party inwriting and take all reasonable steps to mitigate the effect of such delay on the other party. The time for performance by Seller shall be extended by a period equal to the length of any such excused delay. If any event of delay as identified in Section 11 is encountered by Seller and continues for more than ninety (90) days, the Purchaser shall have the right, but not the obligation, to terminate the Agreement for its Convenience in accordance with Section 9.1. entitled, "Termination For Convenience."

12. **COMPLIANCE WITH LAWS:** Seller certifies that its operations are in compliance with all applicable laws, executive orders, rules and regulations relating to Equal Employment Opportunity.

13. **INSURANCE:** Seller shall not insure the Product's for Purchaser's account, unless otherwise indicated in the Order.

14. **ASSIGNMENT:** The Order may not be assigned by either party without the written consent of the other party.

15. **GOVERNING LAW:** All disputes relating to the execution, interpretation, construction, performance, or enforcement of the Order and the rights and obligations of the parties shall be governed by the laws of,and resolved inthe State or Federal courts in, the State of Texas. Purchaser hereby consents to and waives any objection to venue and jurisdiction in such courts.

16. **CUMULATIVE REMEDIES: SELLER SHALL IN NO EVENT BE LIABLE TO PURCHASER, ANY PERSON WHO SHALL PURCHASE FROM PURCHASER, OR ANY PERSON THAT USES ANY PRODUCTS SOLO PURSUANT TO THE ORDER FOR DAMAGES OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES OR LOSS OF PRODUCTION OR LOSS OF PROFITS RESULTING FROM ANY CAUSE WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, ANY DELAY, ACT, ERROR, OR OMISSION OF SELLER, OR ANY DEFECT, FAILURE, OR MALFUNCTION OF THE PRODUCTS, AND SELLER 'S SOLE LIABILITY SHALL BE TO REPAIR OR REPLACE ANY PRODUCTS COVERED BY THE ORDER F.O.B. SELLER'S FACILITY, WHETHER THE CLAIM FOR SUCH DAMAGES IS BASED UPON WARRANTY, CONTRACT, NEGLIGENCE, OR OTHERWISE.**

17. **SEVERABILITY:** The terms and conditions of the Order are subject to all applicable laws and regulations. The unenforceability or invalidity of any provision of any of the writings that collectively constitute the Order shall not affect the validity or enforceability of the remaining provisions thereof, but such remaining provisions shall be construed and interpreted in such a manner as to carry out fully the intent of the parties.

18. **DISPUTE RESOLUTION:** The parties agree to attempt to resolve disputes prior to submitting such disputes to determination by litigation by good-faith negotiations between knowledgeable, responsible representatives of each party who are fully authorized to settle any such dispute.

19. **WAIVER:** Seller's failure to insist on performance of any term, condition, or instruction, or failure to exercise any right or privilege, or its waiver of any breach, shall not thereafter waive any such term, condition, instruction, right, or privilege.

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# Made-To-Order Specialty Products

SPLIT S820 SPROCKET

TAPER BUSHED ADJUSTABLE HUB

SPECIAL BEARING HOUSING

Martin semi-steel 800 series conveyor sprockets are available for all your flat top chain needs.

The most complete line of idler sprockets.

Casting

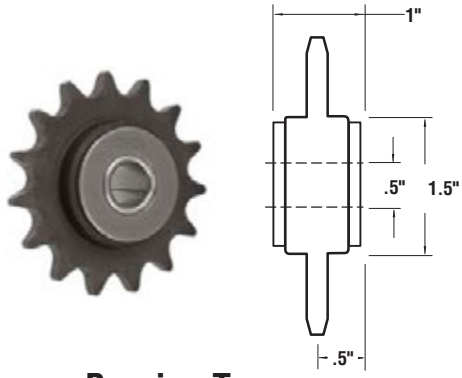
Milled and Injection Mold Plastics

Sintered Metal

Forging

# Idler Sprockets

## Bronze Bushed Type

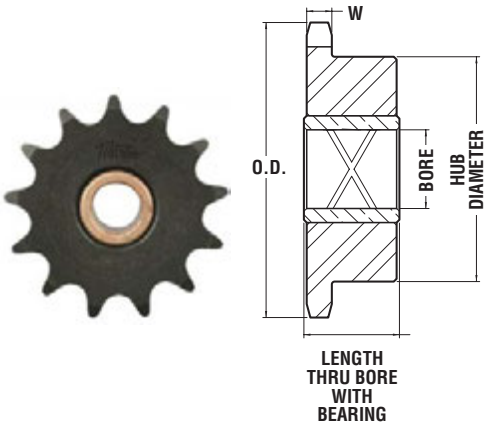



## Bronze Bushed Idler Sprocket

| No. Teeth | Catalog Number | Chain Size | O.D | Stock Bore | LTB without Bearing | Wt. Lbs. |
|---|---|---|---|---|---|---|
| 20 | 31E20 | 35 | 2.6 | .5 | .75 | .46 |
| 15 | 41E15 | 41-40 | 2.65 | .5 | .75 | .5 |
| 15 | 51E15 | 50 | 3.32 | .5 | .75 | .7 |
| 14 | 61E14 | 60-60H | 3.74 | .5 | .75 | .92 |

Above idlers have oil impregnated sintered bronze bearings and are mounted on steel journals. Idler RPM to 2500. Radial load rating to 50 pounds.

## Bronze Bearing Type




## Bronze Bearing Idler Sprocket

| No. Teeth | Catalog Number | Bearing Type | Chain Size | O.D | Stock Bore | LTB without Bearing | LTB with Bearing | W | Hub Dia. | Wt. Lbs. |
|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 35BR15 1/2 | Bronze | 35 | 1.99 | .5 | .75 | .94 | .168 | 1.35 | .30 |
| 21 | 35BR21 7/8 | Bronze | 35 | 2.71 | .875 | .88 | 1.06 | .168 | 2 | .75 |
| 13 | 41BR13 1/2 | Bronze | 41 | 2.33 | .5 | .88 | .94 | .227 | 1.56 | .50 |
| 19 | 41BR19 7/8 | Bronze | 41 | 3.29 | .875 | 1 | 1.06 | .227 | 2.5 | 1 |
| 13 | 40BR13 1/2 | Bronze | 40 | 2.33 | .5 | .88 | .94 | .284 | 1.56 | .50 |
| 19 | 40BR19 7/8 | Bronze | 40 | 3.29 | .875 | 1 | 1.06 | .284 | 2.5 | 1.25 |
| 13 | 50BR13 1/2 | Bronze | 50 | 2.91 | .5 | .88 | .94 | .343 | 1.87 | .90 |
| 17 | 50BR17 7/8 | Bronze | 50 | 3.72 | .875 | 1 | 1.06 | .343 | 2.62 | 1.50 |
| 15 | 60BR15 7/8 | Bronze | 60 | 3.98 | .875 | 1 | 1.06 | .459 | 2.62 | 1.75 |
| 17 | 60BR17 1 1/8 | Bronze | 60 | 4.46 | 1.125 | 1.25 | 1.56 | .459 | 3.25 | 2.75 |
| 15 | 80BR15 1 1/8 | Bronze | 80 | 5.3 | 1.125 | 1.50 | 1.56 | .575 | 3.5 | 4.25 |

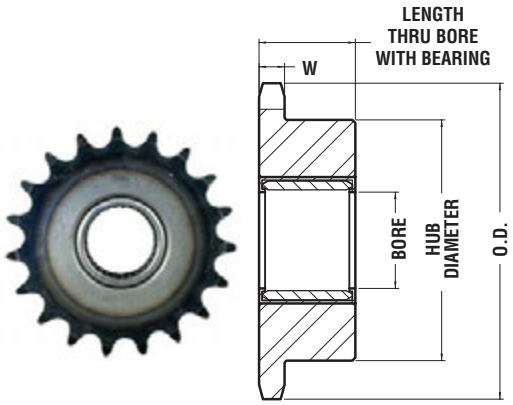
.875" & 1.125" bore have double loop grease groove.

## Radial Load Capacity in Pounds at Various Speeds Needle Bearings

| Idler Size | RPM | | | | | |
|---|---|---|---|---|---|---|
| | 100 | 500 | 1000 | 1500 | 2000 | 2500 |
| .5 Bore | 1021 | 630 | 512 | 453 | 416 | 389 |
| 1 Bore | 2751 | 1698 | 1379 | 1221 | 1120 | 1048 |
| 1.5 Bore | 6306 | 3891 | 3160 | 2798 | 2567 | – |

Ratings shown above are based on an average bearing life of 2500 hours.

## Needle Bearing Type




## Needle Bearing Idler Sprocket

| No. Teeth | Catalog Number | Bearing Type | Chain Size | O.D | Stock Bore | LTB without Bearing | LTB with Bearing | W | Hub Dia. | Wt. Lbs. |
|---|---|---|---|---|---|---|---|---|---|---|
| 19 | 25NB19H 1/2 | Needle | 25 | 1.65 | .5 | .75 | .75 | .11 | 1.22 | .1 |
| 13 | 35NB13H 1/2 | Needle | 35 | 1.75 | .5 | .75 | .75 | .168 | 1.18 | .2 |
| 19 | 35NB19H 1 | Needle | 35 | 2.47 | 1 | 1 | 1 | .168 | 1.84 | .5 |
| 19 | 41NB19H 1 | Needle | 41 | 3.29 | 1 | 1 | 1 | .227 | 2.5 | 1 |
| 19 | 40NB19H 1 | Needle | 40 | 3.29 | 1 | 1 | 1 | .284 | 2.5 | 1.1 |
| 17 | 50NB17H 1 | Needle | 50 | 3.72 | 1 | 1 | 1 | .343 | 2.25 | 1.3 |
| 17 | 60NB17H 1 | Needle | 60 | 4.46 | 1 | 1 | 1 | .459 | 3 | 2.6 |
| 13 | 80NB13H 1 | Needle | 80 | 4.66 | 1 | 1.25 | 1.25 | .575 | 2.63 | 2.9 |
| 11 | 100NB11H 1 1/2 | Needle | 100 | 5.01 | 1.5 | 1.88 | 1.88 | .692 | 3.56 | 3.6 |
| 11 | 120NB11H 1 1/2 | Needle | 120 | 6.01 | 1.5 | 2.13 | 2.13 | .924 | 3.56 | 7 |
| 11 | 140NB11H 1 1/2 | Needle | 140 | 7.01 | 1.5 | 2.25 | 2.25 | .924 | 4.25 | 1.9 |
| 9 | 160NB9H 1 1/2 | Needle | 160 | 6.7 | 1.5 | 2.25 | 2.25 | 1.156 | 3.63 | 9.6 |

# Idler Sprockets

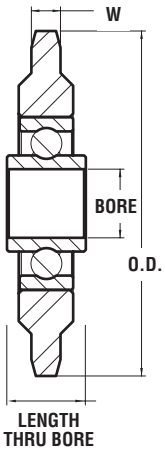
## Ball Bearing Idler Sprocket – Hardened Teeth

| No. Teeth | Discontinued Part Number | Catalog Number | Bearing Type | Chain Size | O.D | Stock Bore | LTB Without Bearing | LTB With Bearing | W | Wt. Lbs. |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | | 25BB20 3/8 * | Ball | 25 | 1.73 | .394 | .11 | .35 | .11 | .1 |
| 19 | | 35BB19H 3/8 | Ball | 35 | 2.47 | .394 | .38 | .38 | .168 | .35 |
| 19 | | 35BB19H 1/2 | Ball | 35 | 2.47 | .51 | .48 | .72 | .168 | .35 |
| 20 | 35BB20H | 35BB20H 5/8 | Ball | 35 | 2.59 | .638 | .48 | .72 | .168 | .38 |
| 18 | | 41BB18H 1/2 | Ball | 41 | 3.14 | .51 | .48 | .72 | .227 | .51 |
| 18 | | 41BB18H 5/8 | Ball | 41 | 3.14 | .638 | .48 | .72 | .227 | .51 |
| 17 | 40BB17H | 40BB17H 5/8 | Ball | 40 | 2.97 | .638 | .48 | .72 | .284 | .52 |
| 18 | | 40BB18H 1/2 | Ball | 40 | 3.14 | .51 | .48 | .72 | .284 | .53 |
| 18 | 40BB18H | 40BB18H 5/8 | Ball | 40 | 3.14 | .638 | .48 | .72 | .284 | .53 |
| 25 | | 40BB25H 5/8 | Ball | 40 | 4.26 | .638 | .48 | .72 | .284 | .9 |
| 35 | | 40BB35H 5/8 | Ball | 40 | 5.86 | .638 | .48 | .72 | .284 | 1.77 |
| 48 | | 40BB48H 5/8 | Ball | 40 | 7.93 | .638 | .22 | .72 | .284 | 3.37 |
| 15 | 50BB15H | 50BB15H 5/8 | Ball | 50 | 3.32 | .638 | .48 | .72 | .343 | .75 |
| 17 | | 50BB17H 1/2 | Ball | 50 | 3.72 | .51 | .48 | .72 | .343 | .78 |
| 17 | 50BB17H | 50BB17H 5/8 | Ball | 50 | 3.72 | .638 | .48 | .72 | .343 | .78 |
| 25 | | 50BB25H 3/4 | Ball | 50 | 5.32 | .75 | .59 | .61 | .343 | 1.66 |
| 39 | | 50BB39H 3/4 | Ball | 50 | 8.12 | .75 | .32 | .61 | .343 | 4.09 |
| 12 | | 60BB12H 5/8 | Ball | 60 | 3.25 | .638 | .48 | .72 | .459 | .72 |
| 13 | 60BB13H | 60BB13H 5/8 | Ball | 60 | 3.49 | .638 | .48 | .72 | .459 | .76 |
| 15 | | 60BB15H 1/2 | Ball | 60 | 3.98 | .51 | .48 | .72 | .459 | 1.06 |
| 15 | 60BB15H | 60BB15H 5/8 | Ball | 60 | 3.98 | .638 | .48 | .72 | .459 | 1.06 |
| 17 | | 60BB17H 5/8 | Ball | 60 | 4.46 | .638 | .48 | .72 | .459 | 1.1 |
| 12 | 80BB12H | 80BB12H 3/4 | Ball | 80 | 4.33 | .75 | .59 | .61 | .575 | 1.5 |

Note: .394 Stock Bore is +.000 .0003; .510 Stock Bore is +.005 .000; .638 Stock Bore is +.005 .000; .750 Stock Bore is +.005 .000. Discontinued Part Numbers will be replaced with Catalog Number when existing inventory is exhausted.

* Unhardened Teeth

## Ball Bearing Type

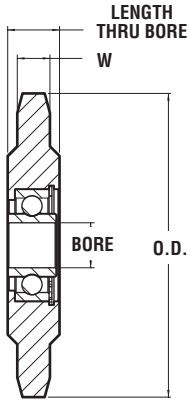



## Ball Bearing Idler Sprockets – Non Metallic Teeth

| No. Teeth | Catalog Number | Bearing Type | Chain Size | O.D | Stock Bore | LTB Without Bearing | LTB With Bearing | W | Wt. Lbs. |
|---|---|---|---|---|---|---|---|---|---|
| 17 | 40BB17NM 1/2 | Ball | 40 | 2.97 | .510 | 0.72 | .72 | .284 | .24 |
| 18 | 40BB18NM 5/8 | Ball | 40 | 3.14 | .638 | 0.72 | .72 | .284 | .23 |
| 17 | 50BB17NM 1/2 | Ball | 50 | 3.72 | .510 | 0.72 | .72 | .343 | .29 |
| 18 | 50BB18NM 5/8 | Ball | 50 | 3.92 | .638 | 0.72 | .72 | .343 | .29 |
| 15 | 60BB15NM 1/2 | Ball | 60 | 3.98 | .510 | 0.72 | .72 | .459 | .32 |
| 16 | 60BB16NM 5/8 | Ball | 60 | 4.22 | .638 | 0.72 | .72 | .459 | .33 |
| 12 | 80BB12NM 3/4 | Ball | 80 | 4.33 | .750 | 0.96 | .61 | .575 | .44 |

Note: .510 Stock Bore is +.005 .000; .638 Stock Bore Is +.005 .000;
.750 Stock Bore Is +.005 .000

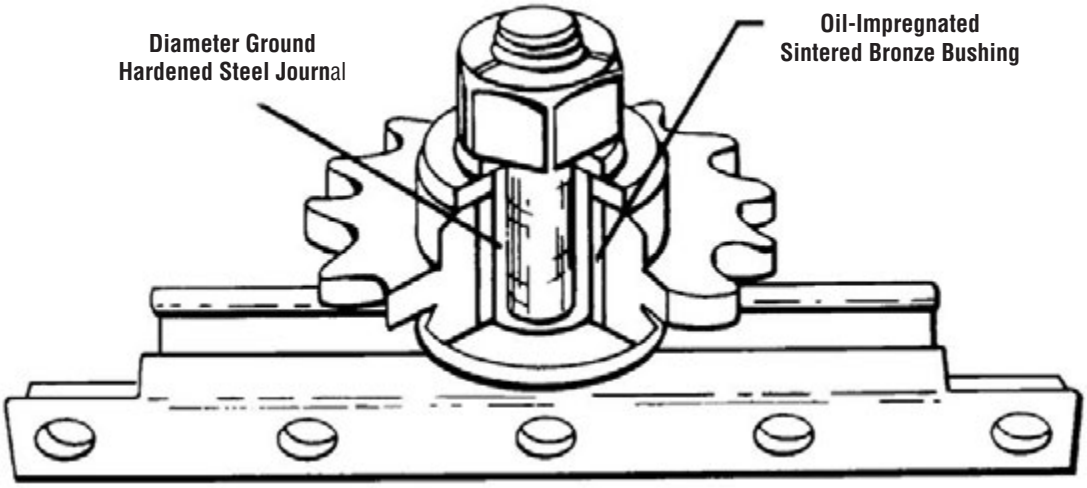
## Non-Metallic Teeth Ball Bearing Type




## Radial Load Capacity in Pounds at Various Speeds Ball Bearings

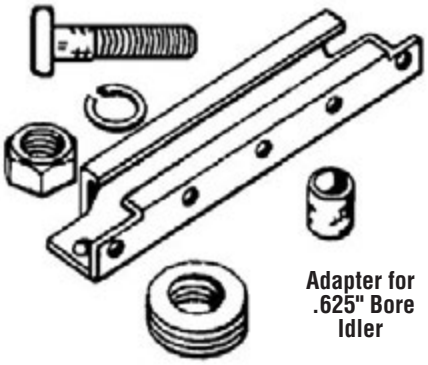
| Idler Size | RPM | | | | | |
|---|---|---|---|---|---|---|
| | 100 | 500 | 1000 | 1500 | 2000 | 2500 |
| .375" Bore | 620 | 363 | 288 | 252 | 229 | 212 |
| .5" & .625" Bore | 800 | 460 | 360 | 320 | 290 | 270 |
| .75" Bore | 1290 | 755 | 600 | 523 | 478 | 440 |

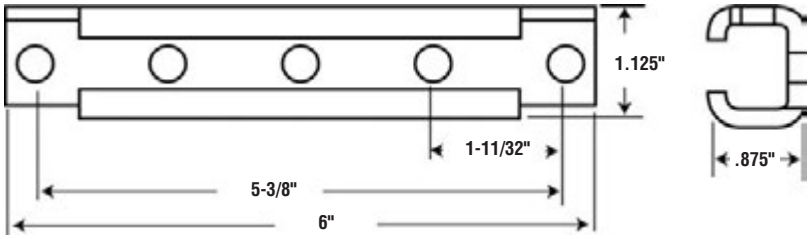
Ratings shown above are based on an average bearing life of 2500 hours.




**Chain Tightener**
**(Less Idler Sprocket)**

**No. E-5006**




Attachment Bolts Not Furnished

Attachments Holes for 5/16" Bolts

Martin Chain Tighteners are economical to use, provide everything needed for a quick, easy installation, save time and money, there is no need to design, procure or custom make and assemble separate parts, accommodate mounting in several different positions, can be parallel or at 90° to the mounting surface, can be used as cantilever or attached each end.

## Features of Martin Idlers

Smooth-running, oil-impregnated, sintered bronze, extra-duty bearing press-fitted in sprocket. Steel journal case hardened, for maximum resistance to wear, diameter ground surface for free running under load.

Steel sprockets used in Martin Idlers, are accurately machined (not stamped) the same as sprockets normally supplied for power transmission use.

# Martin Series 800 Conveyor Sprockets Manufactured From High Quality Semi-Steel

**815 Solid Face With Guide Ring Holes For Straight Running Chains**

**820 Grooved Face For Straight Running Chain**

**QRS® SPLIT**

PAT. # 4,964,842

**Split 81.62520 Solid And Grooved Face With Guide Ring Holes Steel And Thermoplastic**

**821 Heavy Duty For Wide Hinged Chain Straight Running**

**880 And 882 Single Duty For Side Flex Chains**

**881 For Side Flex Chain**

815, 820, and 881 sprockets are all double duty. Sprockets with an odd number of teeth are recommended to reduce wear since a given tooth engages the chain every other revolution. Sprockets with 19, 21, 23, and 25 teeth are preferred. Sprockets with even number of teeth should be advanced one tooth periodically to attain even wear.

# Martin QRS® Split Sprocket

## Series 81.62520 Split Sprockets For Flat Top Conveyor Chains

Split sprockets manufactured from steel and thermoplastic material stocked in 21, 23, 25, and 27 tooth sizes

Martin's **Q**uick **R**eplacement **S**plit sprocket eliminates the time-consuming and costly dismounting of shafts and pillow blocks to remove worn sprockets — all that's required is a wrench

"QRS" split thermoplastic sprocket advantages:

Lightweight

Service temperature to 300°F

Toughness - Excellent resistance to oils, grease, soaps, and detergents, outstanding abrasion and impact resistance

Available with solid and grooved face and furnished with rust resistant plated steel bolts and nuts

Split (plated carbon steel and stainless) guide rings available, if necessary, for easy assembly

**Proudly made in U.S.A.**

**PAT. # 4,964,842**

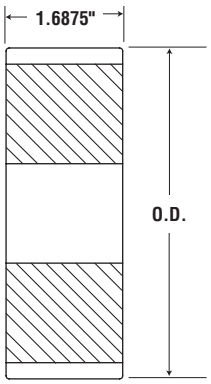
Call your Martin Distributor

# Split Steel and Thermoplastic Stock Bore

## Series 815 Sprockets — Split Steel

| Catalog Number | No. Teeth | | Pitch Diameter † | Outside Diameter † | Bore † | | Weight †† |
|---|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Maximum | |
| QRS815A21 | 21 | 10.5 | 5.089 (129.26) | 5.12 (130.0) | .75 (19.1) | 1.5 (38.1) | 5.0 (2.27) |
| QRS815A23 | 23 | 11.5 | 5.560 (141.22) | 5.59 (142.0) | .75 (19.1) | 1.5 (38.1) | 5.6 (2.54) |
| QRS815A25 | 25 | 12.5 | 6.032 (153.21) | 6.07 (154.2) | .75 (19.1) | 1.5 (38.1) | 6.6 (3.0) |
| QRS815A27 | 27 | 13.5 | 6.504 (165.20) | 6.56 (166.6) | .75 (19.1) | 1.5 (38.1) | 7.8 (3.54) |

Supplied with 5/16 -18 standard setscrew @ 90° to split.
† Inches (mm)
†† Lbs (kg)




Solid Face

## Series 815 Sprockets — Split Thermoplastic

| Catalog Number | No. Teeth | | Pitch Diameter † | Outside Diameter † | Bore † | | Weight †† |
|---|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Maximum | |
| QRS815A21P | 21 | 10.5 | 5.089 (129.26) | 5.12 (130.0) | .75 (19.1) | 1.5 (38.1) | .94 (.43) |
| QRS815A23P | 23 | 11.5 | 5.560 (141.22) | 5.59 (142.0) | .75 (19.1) | 1.5 (38.1) | 1.00 (.45) |
| QRS815A25P | 25 | 12.5 | 6.032 (153.21) | 6.07 (154.2) | .75 (19.1) | 1.5 (38.1) | 1.10 (.50) |
| QRS815A27P | 27 | 13.5 | 6.504 (165.20) | 6.56 (166.6) | .75 (19.1) | 1.5 (38.1) | 1.25 (.57) |

Thermoplastic temperature operating range –20°F to +300°F

Supplied with 5/16 -18 standard setscrew @ 90° to split.
† Inches (mm)
†† Lbs (kg)

## Series 820 Sprockets — Split Steel

| Catalog Number | No. Teeth | | Pitch Diameter † | Outside Diameter † | Bore † | | Weight †† |
|---|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Maximum | |
| QRS820A21 | 21 | 10.5 | 5.089 (129.26) | 5.12 (130.0) | .75 (19.1) | 1.5 (38.1) | 5.0 (2.27) |
| QRS820A23 | 23 | 11.5 | 5.560 (141.22) | 5.59 (142.0) | .75 (19.1) | 1.5 (38.1) | 5.6 (2.54) |
| QRS820A25 | 25 | 12.5 | 6.032 (153.21) | 6.07 (154.2) | .75 (19.1) | 1.5 (38.1) | 6.6 (3.0) |
| QRS820A27 | 27 | 13.5 | 6.504 (165.20) | 6.56 (166.6) | .75 (19.1) | 1.5 (38.1) | 7.8 (3.54) |

Supplied with 5/16-18 standard setscrew @ 90° to split.
† Inches (mm)
†† Lbs (kg)

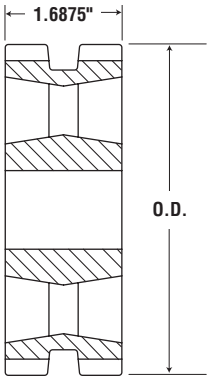
PAT. # 4,964,842

## Series 820 Sprockets — Split Thermoplastic

| Catalog Number | No. Teeth | | Pitch Diameter † | Outside Diameter † | Bore † | | Weight †† |
|---|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Maximum | |
| QRS820A21P | 21 | 10.5 | 5.089 (129.26) | 5.12 (130.0) | .75 (19.1) | 1.5 (38.1) | .94 (.43) |
| QRS820A23P | 23 | 11.5 | 5.560 (141.22) | 5.59 (142.0) | .75 (19.1) | 1.5 (38.1) | 1.00 (.45) |
| QRS820A25P | 25 | 12.5 | 6.032 (153.21) | 6.07 (154.2) | .75 (19.1) | 1.5 (38.1) | 1.10 (.50) |
| QRS820A27P | 27 | 13.5 | 6.504 (165.20) | 6.56 (166.6) | .75 (19.1) | 1.5 (38.1) | 1.25 (.57) |

Thermoplastic temperature operating range –20°F to +300°F

Supplied with 5/16 -18 standard setscrew @ 90° to split.
† Inches (mm)
†† Lbs (kg)



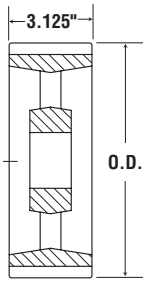

Grooved Face

For Guide Ring Specifications See page A-12.

## Series 821 Sprockets — Semi-Steel — Stock Bore

| Catalog Number | No. Teeth | | Pitch Diameter † | Outside Diameter † | Bore † | | Weight †† |
|---|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Maximum | |
| 821A21 | 21 | 10.5 | 5.089 (129.26) | 5.12 (130.0) | 1 (25.4) | 1.75 (44.5) | 6.7 (3.0) |
| 821A23 | 23 | 11.5 | 5.560 (141.22) | 5.59 (142.0) | 1 (25.4) | 1.75 (44.5) | 7 (3.2) |
| 821A25 | 25 | 12.5 | 6.032 (153.21) | 6.07 (154.2) | 1 (25.4) | 1.75 (44.5) | 7.3 (3.3) |
| 821A27 | 27 | 13.5 | 6.504 (165.20) | 6.56 (166.6) | 1 (25.4) | 1.75 (44.5) | 7.6 (3.4) |
| 821A29 | 29 | 14.5 | 6.978 (177.24) | 7.05 (179.1) | 1 (25.4) | 1.75 (44.5) | 8.0 (3.6) |

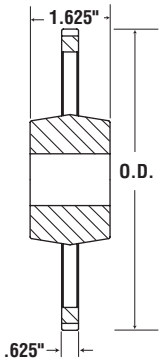
† Inches (mm)
†† Lbs (kg)
821 Series also runs with 815 H chain.




## Series 880 Sprockets — Semi-Steel — Stock Bore

| Catalog Number | No. Teeth | | Pitch Diameter † | Outside Diameter † | Bore † | | Weight †† |
|---|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Maximum | |
| 880C9 • | 9 | 9 | 4.386 (111.40) | 4.33 (110.0) | .75 (19.1) | 1.75 (44.5) | 2.8 (1.3) |
| 880C10 | 10 | 10 | 4.854 (123.29) | 4.82 (122.4) | .75 (19.1) | 1.75 (44.5) | 3.2 (1.4) |
| 880C11 | 11 | 11 | 5.324 (135.22) | 5.31 (134.9) | .75 (19.1) | 1.75 (44.5) | 3.4 (1.5) |
| 880C12 | 12 | 12 | 5.796 (147.22) | 5.80 (147.3) | .75 (19.1) | 1.75 (44.5) | 3.6 (1.6) |
| 880C15 | 15 | 15 | 7.215 (182.26) | 7.26 (184.4) | .75 (19.1) | 1.75 (44.5) | 4.2 (1.9) |

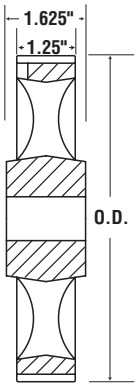
• Block Body – Other sizes are arm body.
† Inches (mm)
†† Lbs (kg)




## Series 881 Sprockets — Semi-Steel — Stock Bore

| Catalog Number | No. Teeth | | Pitch Diameter † | Outside Diameter † | Bore † | | Weight †† |
|---|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Maximum | |
| 881C21 | 21 | 10.5 | 5.089 (129.26) | 5.120 (130.05) | .75 (19.1) | 1.75 (44.5) | 4.2 (1.9) |
| 881C23 | 23 | 11.5 | 5.560 (141.22) | 5.590 (141.99) | .75 (19.1) | 1.75 (44.5) | 4.6 (2.1) |
| 881C25 | 25 | 12.5 | 6.032 (153.21) | 6.070 (154.18) | .75 (19.1) | 1.75 (44.5) | 5.0 (2.3) |

† Inches (mm)
†† Lbs (kg)

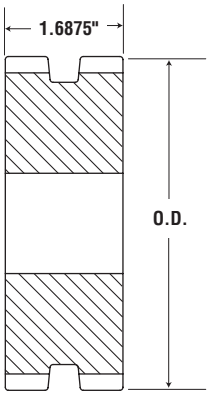


# 800 Series
# Conveyor Sprockets

## Series 820 Sprockets — Semi-Steel — Stock Bore

| Catalog Number | No. Teeth | | Pitch Diameter † | Outside Diameter † | Bore † | | Weight †† |
|---|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Maximum | |
| 820A13B • | 13 | 6.5 | 3.228 (81.99) | 3.11 (79.0) | .75 (19.1) | 1.25 (31.8) | 2.4 (1.1) |
| 820A15B • | 15 | 7.5 | 3.688 (93.68) | 3.63 (92.2) | .75 (19.1) | 1.25 (31.8) | 3.6 (1.6) |
| 820A17B • | 17 | 8.5 | 4.153 (105.49) | 4.12 (104.7) | .75 (19.1) | 1.6875 (42.9) | 4.7 (2.1) |
| 820A19 | 19 | 9.5 | 4.620 (117.35) | 4.61 (117.1) | .75 (19.1) | 1.25 (31.8) | 3.1 (1.5) |
| 820A20 | 20 | 10 | 4.854 (123.29) | 4.86 (123.4) | .75 (19.1) | 1.25 (31.8) | 3.8 (1.7) |
| 820A21 | 21 | 10.5 | 5.089 (129.26) | 5.12 (130.0) | .75 (19.1) | 1.75 (44.5) | 4.6 (2.1) |
| 820A21B • | 21 | 10.5 | 5.089 (129.26) | 5.12 (130.0) | .75 (19.1) | 2.5 (63.5) | 7.1 (3.3) |
| 820A22 | 22 | 11 | 5.324 (135.23) | 5.35 (135.9) | .75 (19.1) | 1.75 (44.5) | 4.2 (1.9) |
| 820A23 | 23 | 11.5 | 5.560 (141.22) | 5.59 (142.0) | .75 (19.1) | 1.75 (44.5) | 5.3 (2.4) |
| 820A24 | 24 | 12 | 5.796 (147.22) | 5.83 (148.1) | .75 (19.1) | 1.75 (44.5) | 4.4 (2.0) |
| 820A25 | 25 | 12.5 | 6.032 (153.21) | 6.07 (154.2) | .75 (19.1) | 2 (50.8) | 5.6 (2.4) |
| 820A25B • | 25 | 12.5 | 6.032 (153.21) | 6.07 (154.2) | .75 (19.1) | 3-3/16 (81.0) | 9.6 (4.4) |
| 820A27 | 27 | 13.5 | 6.504 (165.20) | 6.56 (166.6) | .75 (19.1) | 2 (50.8) | 6.5 (2.8) |
| 820A29 | 29 | 14.5 | 6.978 (177.24) | 7.05 (179.1) | .75 (19.1) | 2 (50.8) | 6.8 (3.1) |
| 820A31 | 31 | 15.5 | 7.452 (189.28) | 7.53 (191.3) | .75 (19.1) | 2 (50.8) | 6.9 (3.1) |
| 820A41 | 41 | 20.5 | 9.826 (249.58) | 9.93 (252.2) | .75 (19.1) | 2.5 (64) | 16.00 (7.1) |

• Block Body — Other sizes are arm body.
† Inches (mm)
†† Lbs (kg)
Max. bore shown is with Standard Keyway and Setscrew.
820 Series stocked grooved. (Guide ring holes in 21, 23, 25, and 27 tooth sizes can be provided upon request).

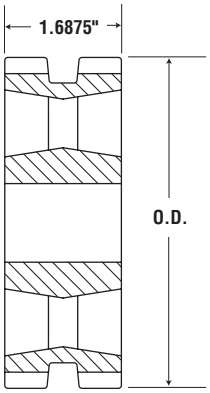



**Steel**

## Series 820 Sprockets — Semi-Steel — Bored-to-Size

| Catalog Number | Inch/Metric Stock Finished Bores With Standard Keyway and Setscrew | | | | |
|---|---|---|---|---|---|
| 820BS19 | | 1" (25.4) | | | |
| 820BS21 | | 1" (25.4) | | | |
| 820BS23 | .875" (22.2) | 1" (25.4) | 1.125" (28.6) | 1.187" (30.2) | 1.25" (31.8) |
| 820BS25 | | 1" (25.4) | | 1.187" (30.2) | 1.25" (31.8) |
| 820BS27 | | 1" (25.4) | | | |

Stock grooved without guide ring holes. All arm body.



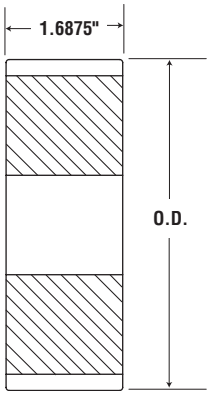

**Cast**

# 800 Series Conveyor Sprockets

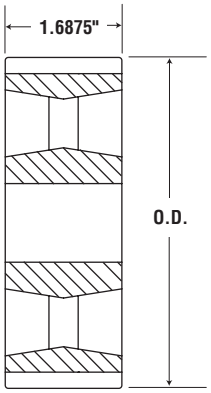
## Series 815 Sprockets — Semi-Steel — Stock Bore

| Catalog Number | No. Teeth | | Pitch Diameter † | Outside Diameter † | Bore † | | Weight †† |
|---|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Maximum | |
| 815A13B • | 13 | 6.5 | 3.228 (81.99) | 3.11 (79.0) | .75 (19.1) | 1.25 (31.8) | 2.4 (1.1) |
| 815A15B • | 15 | 7.5 | 3.688 (93.68) | 3.63 (92.2) | .75 (19.1) | 1.25 (31.8) | 3.6 (1.6) |
| 815A17B • | 17 | 8.5 | 4.153 (105.49) | 4.12 (104.7) | .75 (19.1) | 111/16 (42.9) | 4.7 (2.1) |
| 815A19 | 19 | 9.5 | 4.620 (117.35) | 4.61 (117.1) | .75 (19.1) | 1.25 (31.8) | 3.1 (1.5) |
| 815A20 | 20 | 10 | 4.854 (123.29) | 4.86 (123.4) | .75 (19.1) | 1.25 (31.8) | 3.8 (1.7) |
| 815A21 | 21 | 10.5 | 5.089 (129.26) | 5.12 (130.0) | .75 (19.1) | 1.75 (44.5) | 4.6 (2.1) |
| 815A21B • | 21 | 10.5 | 5.089 (129.26) | 5.12 (130.0) | .75 (19.1) | 2.5 (63.5) | 7.1 (3.3) |
| 815A22 | 22 | 11 | 5.324 (135.23) | 5.35 (135.9) | .75 (19.1) | 1.75 (44.5) | 4.2 (1.9) |
| 815A23 | 23 | 11.5 | 5.560 (141.22) | 5.59 (142.0) | .75 (19.1) | 1.75 (44.5) | 5.3 (2.4) |
| 815A24 | 24 | 12 | 5.796 (147.22) | 5.83 (148.1) | .75 (19.1) | 1.75 (44.5) | 4.4 (2.0) |
| 815A25 | 25 | 12.5 | 6.032 (153.21) | 6.07 (154.2) | .75 (19.1) | 2 (50.8) | 5.6 (2.4) |
| 815A25B • | 25 | 12.5 | 6.032 (153.21) | 6.07 (154.2) | .75 (19.1) | 3-3/16 (81.0) | 9.6 (4.4) |
| 815A27 | 27 | 13.5 | 6.504 (165.20) | 6.56 (166.6) | .75 (19.1) | 2 (50.8) | 6.5 (2.8) |
| 815A29 | 29 | 14.5 | 6.978 (177.24) | 7.05 (179.1) | .75 (19.1) | 2 (50.8) | 6.8 (3.1) |
| 815A31 | 31 | 15.5 | 7.452 (189.28) | 7.53 (191.3) | .75 (19.1) | 2 (50.8) | 6.9 (3.1) |
| 815A41 | 41 | 20.5 | 9.826 (249.58) | 9.93 (252.2) | .75 (19.1) | 2.5 (64) | 16.00 (7.1) |

• Block Body — Other sizes are arm body.
† Inches (mm)
†† Lbs (kg)
Max. bore shown is with Standard Keyway and Setscrew.
815 Series stocked not grooved, with guide ring holes.




Steel




Cast

## Series 815 Sprockets — Semi-Steel — Bored-to-Size

| Catalog Number | Inch/Metric Stock Finished Bores With Standard Keyway and Setscrew | | | | |
|---|---|---|---|---|---|
| 815BS19 | | 1" (25.4) | | | |
| 815BS21 | | 1" (25.4) | | | |
| 815BS23 | .875" (22.2) | 1" (25.4) | 1.125" (28.6) | 1.187" (30.2) | 1.25" (31.8) |
| 815BS25 | | 1" (25.4) | | 1.187" (30.2) | 1.25" (31.8) |
| 815BS27 | | 1" (25.4) | | | |

Stock grooved without guide ring holes. All arm body.

# Series 800
# Conveyor Sprockets

## Series 822 Sprockets — Stock Bore

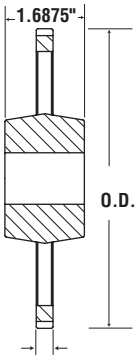
| Catalog Number | No. Teeth | | Pitch Diameter † | Outside Diameter † | Bore † | | Weight †† |
|---|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Maximum | |
| 882C9 | 9 | 9 | 4.386 (111.40) | 4.430 (112.5) | .75 (19.1) | 1.75 (44.5) | 3.8 (1.8) |
| 882C10 | 10 | 10 | 4.854 (123.29) | 4.920 (125.0) | .75 (19.1) | 1.75 (44.5) | 4.2 (1.9) |
| 882C11 | 11 | 11 | 5.325 (135.25) | 5.410 (137.40) | .75 (19.1) | 1.75 (44.5) | 4.4 (2.1) |
| 882C12 • | 12 | 12 | 5.796 (147.21) | 5.90 (149.90) | .75 (19.1) | 1.75 (44.5) | 4.6 (2.2) |

• Arm Body — Other sizes are block body.
† Inches (mm)
†† Lbs (kg)

## 815 Guide Rings — Steel and Stainless Steel

| Catalog Number ★ | O.D.† | Thick † | Weight †† Per Set |
|---|---|---|---|
| GR15-16 | 3.62 | 1/16 | .23 |
| GR15-16SS | (91.9) | (1.6) | (.10) |
| GR17-18 | 4.11 | 1/16 | .26 |
| GR17-18SS | (104.4) | (1.6) | (.120) |
| GR19-20 | 4.58 | 1/8 | .37 |
| GR19-20SS | (116.3) | (3.2) | (.17) |
| GR21-22 | 5.09 | 1/8 | .44 |
| GR21-22SS | (129.3) | (3.2) | (.20) |
| GR23-24 | 5.56 | 1/8 | .46 |
| GR23-24SS | (141.2) | (3.2) | (.21) |
| GR25-26 | 6.04 | 1/8 | .47 |
| GR25-26SS | (153.4) | (3.2) | (.21) |
| GR27-28 | 6.53 | 1/8 | .53 |
| GR27-28SS | (165.9) | (3.2) | (.24) |
| GR29-30 | 7.02 | 1/8 | .56 |
| GR29-30SS | (178.3) | (3.2) | (.25) |
| GR31-32 | 7.50 | 1/8 | .67 |
| GR31-32SS | (190.5) | (3.2) | (.30) |
| GR41-42 | 9.89 | 1/8 | .92 |
| GR41-42SS | (251.2) | (3.2) | (.42) |

★ Carbon Steel
Stainless Steel
† Inches (mm)
†† Lbs (kg)



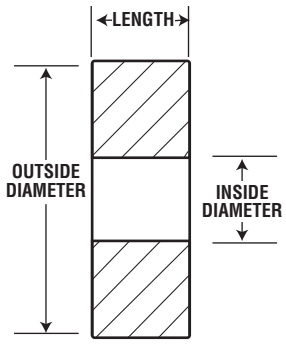
# Semi-Finished Weld-On Hubs

## Stock Semi-Finished Weld-On Hubs

| Catalog Number | Dimensions | | | Approx. Wt. Lbs. |
|---|---|---|---|---|
| | Outside Diameter | Length | Inside Diameter | |
| 225-28-19 | 2.25 | .875 | .594 | .9 |
| 225-28-23 | 2.25 | .875 | .719 | .9 |
| 225-32-00 | 2.25 | 1 | — | 1.1 |
| 250-30-00 | 2.5 | .938 | — | 1.3 |
| 250-40-00 | 2.5 | 1.25 | — | 1.7 |
| 300-25-19 | 3 | .719 | .594 | 1.2 |
| 300-30-23 | 3 | .938 | .719 | 1.6 |
| 300-30-30 | 3 | .938 | .938 | 1.6 |
| 300-32-00 | 3 | 1 | — | 2.0 |
| 300-38-00 | 3 | 1.187 | — | 2.4 |
| 300-40-30 | 3 | 1.25 | .938 | 2.3 |
| 325-25-19 | 3.25 | .719 | .594 | 1.8 |
| 325-30-23 | 3.25 | .938 | .719 | 2.1 |
| 350-30-00 | 3.5 | .938 | — | 2.6 |
| 350-34-00 | 3.5 | 1.063 | — | 2.9 |
| 350-38-00 | 3.5 | 1.187 | — | 3.2 |
| 356-28-23 | 3.563 | .875 | .719 | 2.4 |
| 356-28-30 | 3.563 | .875 | .938 | 2.3 |
| 356-31-23 | 3.563 | .969 | .719 | 2.6 |
| 375-30-00 | 3.75 | .938 | — | 2.9 |
| 375-30-30 | 3.75 | .938 | .938 | 2.8 |
| 375-45-30 | 3.75 | 1.406 | .938 | 4.1 |
| 400-26-00 | 4 | .813 | — | 2.9 |
| 400-26-23 | 4 | .813 | .719 | 2.8 |
| 400-26-30 | 4 | .813 | .938 | 2.7 |
| 400-31-30 | 4 | .989 | .938 | 3.3 |
| 400-32-23 | 4 | 1 | .719 | 3.5 |
| 400-36-00 | 4 | 1.125 | — | 3.5 |
| 400-48-30 | 4 | 1.5 | .938 | 5.1 |
| 425-26-00 | 4.25 | .813 | — | 3.3 |
| 425-26-30 | 4.25 | .813 | .938 | 3.1 |
| 425-30-30 | 4.25 | .938 | .938 | 3.6 |
| 425-38-30 | 4.25 | 1.187 | .938 | 4.5 |
| 425-42-40 | 4.25 | 1.313 | 1.25 | 4.8 |
| 425-45-30 | 4.25 | 1.406 | .938 | 5.4 |
| 425-50-40 | 4.25 | 1.563 | 1.25 | 5.7 |
| 450-34-00 | 4.5 | 1.063 | — | 4.8 |
| 450-36-40 | 4.5 | 1.125 | 1.25 | 4.7 |
| 450-44-40 | 4.5 | 1.375 | 1.25 | 5.7 |
| 450-44-48 | 4.5 | 1.375 | 1.5 | 5.7 |
| 450-48-48 | 4.5 | 1.5 | 1.5 | 6.0 |
| 475-12-40 | 4.75 | .375 | 1.25 | 1.8 |
| 475-22-30 | 4.75 | .688 | .938 | 3.3 |
| 475-22-40 | 4.75 | .688 | 1.25 | 3.3 |
| 475-26-40 | 4.75 | .813 | 1.25 | 4.0 |
| 475-30-30 | 4.75 | .938 | .938 | 4.5 |
| 475-36-00 | 4.75 | 1.125 | — | 5.7 |
| 475-36-30 | 4.75 | 1.125 | .938 | 5.5 |
| 475-44-48 | 4.75 | 1.375 | 1.5 | 6.2 |
| 475-48-38 | 4.75 | 1.5 | 1.187 | 7.0 |
| 475-48-40 | 4.75 | 1.5 | 1.25 | 7.0 |
| 475-50-00 | 4.75 | 1.563 | — | 7.8 |
| 475-50-40 | 4.75 | 1.563 | 1.25 | 7.8 |
| 475-54-00 | 4.75 | 1.688 | — | 8.5 |
| 500-42-40 | 5 | 1.313 | 1.25 | 6.8 |
| 500-50-00 | 5 | 1.563 | — | 8.7 |
| 500-50-40 | 5 | 1.563 | 1.25 | 8.7 |
| 500-58-40 | 5 | 1.813 | 1.25 | 9.5 |
| 500-58-48 | 5 | 1.813 | 1.5 | 9.4 |
| 525-24-32 | 5.25 | .75 | 1 | 4.4 |
| 525-34-00 | 5.25 | 1.063 | — | 6.5 |
| 525-36-40 | 5.25 | 1.125 | 1.25 | 6.5 |
| 525-42-00 | 5.25 | 1.313 | — | 8.1 |
| 525-48-40 | 5.25 | 1.5 | 1.25 | 8.7 |
| 525-48-48 | 5.25 | 1.5 | 1.5 | 8.7 |
| 525-62-32 | 5.25 | 1.938 | 1 | 11.5 |
| 525-72-32 | 5.25 | 2.25 | 1 | 13.3 |
| 550-34-00 | 5.5 | 1.063 | — | 7.2 |
| 550-44-40 | 5.5 | 1.375 | 1.25 | 8.6 |
| 550-44-48 | 5.5 | 1.375 | 1.5 | 8.6 |

| Catalog Number | Dimensions | | | Approx. Wt. Lbs. |
|---|---|---|---|---|
| | Outside Diameter | Length | Inside Diameter | |
| 550-48-40 | 5.5 | 1.5 | 1.25 | 9.3 |
| 550-48-48 | 5.5 | 1.5 | 1.5 | 9.3 |
| 550-58-40 | 5.5 | 1.813 | 1.25 | 11.6 |
| 550-58-48 | 5.5 | 1.813 | 1.5 | 11.6 |
| 550-64-48 | 5.5 | 2 | 1.5 | 12.5 |
| 575-24-32 | 5.75 | .75 | 1 | 5.4 |
| 575-32-00 | 5.75 | 1 | — | 7.4 |
| 575-42-00 | 5.75 | 1.313 | — | 9.7 |
| 575-42-48 | 5.75 | 1.313 | 1.5 | 9.7 |
| 575-44-36 | 5.75 | 1.375 | 1.125 | 10.9 |
| 575-52-00 | 5.75 | 1.625 | — | 12.0 |
| 575-52-48 | 5.75 | 1.625 | 1.5 | 12.0 |
| 575-72-32 | 5.75 | 2.25 | 1 | 16.1 |
| 600-41-48 | 6 | 1.281 | 1.5 | 9.6 |
| 600-46-48 | 6 | 1.438 | 1.5 | 10.8 |
| 600-52-48 | 6 | 1.625 | 1.5 | 12.2 |
| 600-58-48 | 6 | 1.813 | 1.5 | 13.6 |
| 600-62-00 | 6 | 1.938 | — | 15.5 |
| 600-62-40 | 6 | 1.938 | 1.25 | 15.5 |
| 600-62-48 | 6 | 1.938 | 1.5 | 15.5 |
| 600-68-48 | 6 | 2.125 | 1.5 | 16.0 |
| 600-80-48 | 6 | 2.5 | 1.5 | 18.8 |
| 625-16-40 | 6.25 | .5 | 1.25 | 4.4 |
| 625-16-48 | 6.25 | .5 | 1.5 | 4.4 |
| 625-24-32 | 6.25 | .75 | 1 | 6.4 |
| 625-24-40 | 6.25 | .75 | 1.25 | 6.4 |
| 625-24-48 | 6.25 | .75 | 1.5 | 6.4 |
| 625-28-48 | 6.25 | .875 | 1.5 | 7.2 |
| 625-30-48 | 6.25 | .938 | 1.5 | 8.1 |
| 625-32-40 | 6.25 | 1 | 1.25 | 8.3 |
| 625-34-48 | 6.25 | 1.063 | 1.5 | 9.3 |
| 625-38-40 | 6.25 | 1.187 | 1.25 | 10.0 |
| 625-38-48 | 6.25 | 1.187 | 1.5 | 9.7 |
| 625-48-48 | 6.25 | 1.5 | 1.5 | 12.3 |
| 625-52-48 | 6.25 | 1.625 | 1.5 | 13.3 |
| 625-68-48 | 6.25 | 2.125 | 1.5 | 17.4 |
| 625-80-32 | 6.25 | 2.5 | 1 | 21.1 |
| 650-44-00 | 6.5 | 1.375 | — | 12.9 |
| 650-44-48 | 6.5 | 1.375 | 1.5 | 12.9 |
| 650-52-48 | 6.5 | 1.625 | 1.5 | 14.5 |
| 650-72-48 | 6.5 | 2.25 | 1.5 | 20.0 |
| 650-96-48 | 6.5 | 3 | 1.5 | 26.7 |
| 675-36-40 | 6.75 | 1.125 | 1.25 | 11.0 |
| 675-38-48 | 6.75 | 1.187 | 1.5 | 11.4 |
| 675-44-48 | 6.75 | 1.375 | 1.5 | 13.3 |
| 675-61-48 | 6.75 | 1.906 | 1.5 | 19.4 |
| 675-72-48 | 6.75 | 2.25 | 1.5 | 21.7 |
| 675-94-40 | 6.75 | 2.938 | 1.25 | 28.3 |
| 700-24-48 | 7 | .75 | 1.5 | 8.2 |
| 700-26-48 | 7 | .813 | 1.5 | 8.9 |
| 700-28-48 | 7 | .875 | 1.5 | 8.9 |
| 700-30-48 | 7 | .938 | 1.5 | 9.2 |
| 700-32-48 | 7 | 1 | 1.5 | 9.8 |
| 700-36-48 | 7 | 1.125 | 1.5 | 12.3 |
| 700-38-48 | 7 | 1.187 | 1.5 | 13.0 |
| 700-44-48 | 7 | 1.375 | 1.5 | 14.3 |
| 700-52-48 | 7 | 1.625 | 1.5 | 16.9 |
| 700-58-48 | 7 | 1.813 | 1.5 | 18.9 |
| 700-61-48 | 7 | 1.906 | 1.5 | 19.8 |
| 700-62-48 | 7 | 1.938 | 1.5 | 21.1 |
| 700-68-48 | 7 | 2.125 | 1.5 | 22.1 |
| 700-112-48 | 7 | 3.5 | 1.5 | 36.4 |
| 725-36-40 | 7.25 | 1.125 | 1.25 | 12.8 |
| 725-94-40 | 7.25 | 2.938 | 1.25 | 33.3 |
| 750-24-48 | 7.5 | .75 | 1.5 | 9.0 |
| 750-44-48 | 7.5 | 1.375 | 1.5 | 16.5 |
| 750-50-48 | 7.5 | 1.563 | 1.5 | 18.8 |
| 750-58-48 | 7.5 | 1.813 | 1.5 | 21.8 |
| 750-66-48 | 7.5 | 2.063 | 1.5 | 24.8 |
| 750-68-48 | 7.5 | 2.125 | 1.5 | 25.5 |

| Catalog Number | Dimensions | | | Approx. Wt. Lbs. |
|---|---|---|---|---|
| | Outside Diameter | Length | Inside Diameter | |
| 750-70-48 | 7.5 | 2.188 | 1.5 | 26.3 |
| 750-72-48 | 7.5 | 2.25 | 1.5 | 27.0 |
| 750-74-48 | 7.5 | 2.313 | 1.5 | 28.0 |
| 750-84-48 | 7.5 | 2.625 | 1.5 | 31.5 |
| 750-94-48 | 7.5 | 2.938 | 1.5 | 35.0 |
| 775-36-48 | 7.75 | 1.125 | 1.5 | 23.0 |
| 775-58-48 | 7.75 | 1.813 | 1.5 | 25.0 |
| 775-66-48 | 7.75 | 2.063 | 1.5 | 26.0 |
| 775-74-48 | 7.75 | 2.313 | 1.5 | 31.0 |
| 775-94-48 | 7.75 | 2.938 | 1.5 | 36.0 |
| 800-54-48 | 8 | 1.688 | 1.5 | 23.2 |
| 800-62-48 | 8 | 1.938 | 1.5 | 26.6 |
| 800-72-48 | 8 | 2.25 | 1.5 | 30.9 |
| 800-78-48 | 8 | 2.438 | 1.5 | 33.5 |
| 800-112-48 | 8 | 3.5 | 1.5 | 48.1 |
| 850-50-48 | 8.5 | 1.563 | 1.5 | 24.3 |
| 850-52-48 | 8.5 | 1.625 | 1.5 | 24.3 |
| 850-72-48 | 8.5 | 2.25 | 1.5 | 35.0 |
| 850-84-48 | 8.5 | 2.625 | 1.5 | 40.8 |
| 850-124-48 | 8.5 | 3.875 | 1.5 | 50.0 |
| 900-58-48 | 9 | 1.813 | 1.5 | 32.0 |
| 900-60-48 | 9 | 1.875 | 1.5 | 32.9 |
| 900-72-48 | 9 | 2.25 | 1.5 | 39.4 |
| 900-112-48 | 9 | 3.5 | 1.5 | 61.3 |
| 950-52-188 | 9.5 | 1.625 | 5.875 | 20.2 |
| 950-54-48 | 9.5 | 1.688 | 1.5 | 33.1 |
| 950-60-188 | 9.5 | 1.875 | 5.875 | 23.3 |
| 950-60-48 | 9.5 | 1.875 | 1.5 | 36.8 |
| 950-66-48 | 9.5 | 2.063 | 1.5 | 40.4 |
| 950-70-188 | 9.5 | 2.219 | 5.875 | 27.5 |
| 950-70-48 | 9.5 | 2.188 | 1.5 | 44.0 |
| 950-74-188 | 9.5 | 2.313 | 5.875 | 28.7 |
| 950-74-48 | 9.5 | 2.313 | 1.5 | 45.3 |
| 950-78-188 | 9.5 | 2.438 | 5.875 | 30.3 |
| 950-78-48 | 9.5 | 2.438 | 1.5 | 49.0 |
| 950-80-48 | 9.5 | 2.5 | 1.5 | 49.0 |
| 950-82-188 | 9.5 | 2.563 | 5.875 | 31.8 |
| 950-82-48 | 9.5 | 2.563 | 1.5 | 50.2 |
| 950-86-188 | 9.5 | 2.689 | 5.875 | 33.4 |
| 950-86-48 | 9.5 | 2.689 | 1.5 | 54.0 |
| 950-88-48 | 9.5 | 2.75 | 1.5 | 53.9 |
| 950-96-48 | 9.5 | 3 | 1.5 | 58.7 |
| 100-80-48 | 10 | 2.5 | 1.5 | 54.4 |
| 100-100-48 | 10 | 3.125 | 1.5 | 68.0 |
| 100-116-48 | 10 | 3.625 | 1.5 | 78.8 |
| 100-124-48 | 10 | 3.875 | 1.5 | 84.3 |
| 105-56-200 | 10.5 | 1.75 | 6.25 | 27.8 |
| 105-58-200 | 10.5 | 1.813 | 6.25 | 28.7 |
| 105-100-200 | 10.5 | 3.125 | 6.25 | 49.6 |
| 105-106-200 | 10.5 | 3.313 | 6.25 | 52.5 |
| 110-128-48 | 11 | 4 | 1.5 | 105.7 |



# Custom Capabilities
# Forgings

Martin Tool and Forge, located in Fort Worth, Texas, has been a leading supplier of quality American forged products since 1917. Martin forgings are well regarded for quality, innovation, reliability & cost savings.

Know how garnered over many decades provides unsurpassed benefit for the industrial user of custom forgings. This includes all phases in the forging process - die design and engineering, forging, coining, heat treating, and polishing.

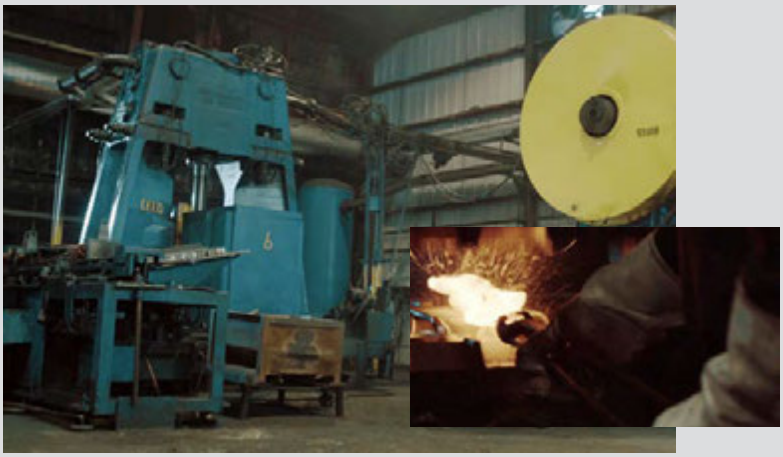
Hammers ranging in size from 1,000 to 5,000 pounds and presses ranging from 1,600 ton to2,500 ton produce finished parts from a few ounces to 50 pounds. Various alloys, considerable capacity, and secondary machining capability enable Martin to deliver near 100% density requirements in a cost effective manner.

## Manufacturing Capabilities

Martin utilizes **closed impression die forging** where two dies containing the impression of the shape are brought together deforming the metal. Martin provides two types of closed impression die forgings: **Hammer Forgings** and **Press Forgings.**

### Hammer Forging

Forging on a hammer is carried out in a succession of die impressions using repeated blows. Hammer forging can work to nearer net shape with smaller forging allowance, therefore on high cost or difficult to machine alloys there can be significant advantages in the Hammer Forging process. Hammer forgings can usually produce larger and heavier parts than press forgings.



### Press Forging

The stock is usually hit only once in each die impression. Increased deformation and control achieved through press forging will give the material better consistency of properties.

# Custom Capabilities
# Forgings

## Material Capabilities

### Hammers

**Up to 20" length**

| | |
|---|---|
| Carbon Steel | .25 to 45 lb |
| Alloy Steel | .25 to 45 lb |
| Stainless Steel | .15 to 25 lb |

### Presses

**Up to**
**12" diameter or 14" length**

| | |
|---|---|
| Carbon Steel | 1.5 to 40 lb |
| Alloy Steel | 1.5 to 40 lb |
| Stainless Steel | 1.5 to 20 lb |

## Secondary Operations

Other metalworking and inspection processes complement the forging of carbon, alloy and stainless steel components and parts.

- Heat Treatment
- CNC Machining, Broaching
- Magnetic Particle Inspection
- Liquid Penetrant Inspection
- Grinding, Polishing
- Cleaning
- Plating or Coating
- Coining

## Benefits

- **High impact strength and structural integrity**
- Extremely **high consistency** of material and dimensions of parts
- **Higher strength to weight ratios** reduce both weight and size when close fit or weight issues are a factor
- Forging can produce **complex shapes** that otherwise may require multiple manufacturing processes
- Forged parts are **compatible with most secondary operations** such as heat treating, machining and fabrication
- In many cases **one forged part can be created where multiple parts were originally used**, reducing labor cost
- Martin's dedication to quality and service, is second to none

**Watch the Forge & Foundry Video**
**Scan QR code or visit: http://bit.ly/Forge-Foundry**

## Case Study:

**Application:** Counter weight on unit handling equipment

**Problem:** Parts were being milled in-house from purchased burned plate. Process was expensive, but low volumes had prevented consideration of alternate methods of manufacture.

**Solution:** Instead of utilizing their expensive CNC milling equipment on relatively low-tech parts, Martin designed a simple die for a forged part, which worked well for medium quantity production runs. When compared to sourcing costs, production time, and scrap, the forged part was less expensive than the milled part. The real savings has resulted from the enhanced utilization of the CNC milling equipment for other, more profitable work

# Sintered Metal

Sintered metal is an excellent choice for a wide variety of products especially those with irregular shapes that would be difficult to manufacture using conventional methods.

Commonly associated with large quantity runs of fairly simple products, the sintered metal process also effectively addresses small quantities for many complex and multi-level parts where intricate machining or milling was required. Smooth surface finishes, self-lubrication, and tolerance repeatability are just a few of the attributes resulting from this technology. Using a wide range of alloys, Martin produces custom sintered parts for many industries and applications.

## Advantages

- Superior resistance and performance
- Uniform tolerances
- High density
- Extremely smooth surface finish
- Self-lubricating
- 12% less weight than Steel

## Manufacturing

**Martin Sintered Steel presses** average 750 tons, and can press up to 2000 tons.

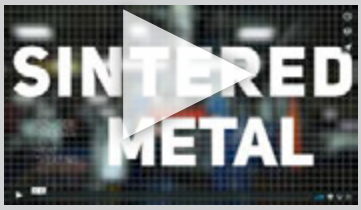
Presses delivering more than 880 tons of pressure form parts from bronze, iron, copper, manganese, etc.

## Case Study:

**Application:** Timing plate on an agricultural implement

**Problem:** Production of parts required several steps and the use of several outside sources. All these factors led to inconsistent tolerances, difficulty in coordination of lead times, scrapped parts and production interruptions.

**Solution:** Martin reviewed sample parts and prints. Martin met with OEM engineering and service personnel to better understand the application. The Martin sintered component reduced the total cost of each part by an average of 54%, slashed acquisition costs and allowed for deliveries using staged release dates




**Watch the Sintered Metal Video**

**Scan QR code or visit:**
**http://bit.ly/SinteredMetal**

# Custom Capabilities
# Foundry & Injection Molded Plastics

## Foundry

Operating its own foundry enables Martin to provide its customers with quality assurance, quick lead times, and application engineering assistance on cast and ductile iron parts.

With an upper range of 96" in diameter and 10,000 pounds, our own pattern shop, and streamlined access to secondary machining, Martin's comprehensive capabilities serve a broad spectrum of industrial uses.

### Case Study:

**Application:** Conveyor

**Problem:** Redesign of equipment required flywheel and synchronous drive to be used in more compact area. The two separate components had clearance problems.

**Solution:** Martin designed a one piece casting which allowed machining of a duplex drive to fit in tight area. Equipment is more compact, one final part rather than two saves costs, and installation time is reduced

**Watch the Forge & Foundry Video**

**Scan QR code or visit: http://bit.ly/Forge-Foundry**

## Injection Molded Plastics

Since the inception of our line of injection molded plastic components, Martin has emerged as a leading supplier of cost effective non-metallic products.

A combination of polymers are used to achieve desired wear, corrosion resistance, and color characteristics. Injection molded plastic is also advantageous in non-sparking and sanitary applications.

While the final form of most components is achieved directly from the press, Martin is able to perform secondary machining on molded parts if necessary.

### Case Study:

**Application:** Packaging equipment

**Problem:** A sticky product required cleaning with a caustic solution which led to corrosion based fatigue of a threaded collar. In addition, high maintenance costs in the field were encountered due to difficulty of replacing the seized collar.

**Solution:** A Martin manufactured part made of glass filled nylon was produced. The Martin part withstood constant exposure to the caustic solution and prevented the seizing of threads which provided a longer part life. Unit price was reduced by approximately 34%, warranty claims dropped significantly and the user logo stamped on the part aided in capturing replacement part sales

# Milled Plastics

Whether it is a simple alteration, rebore, or a product requiring secondary operations such as drilling, tapping, or inserts, Martin's trained and dedicated staff are standing ready to tackle your most demanding request.

Our CNC machines are able to mill a variety of plastic and non-metallic materials from 1⁄16" to over 8" thick, with diameters from 2" to 60" in a variety of unique shapes.

Additionally, secondary operations may be completed in-house when projects require both non-metallic and metallic components to complete one unit.

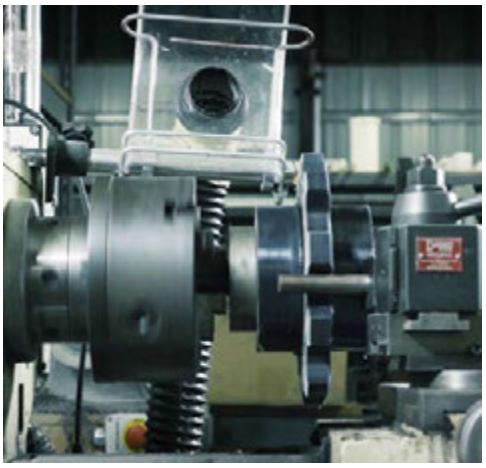
Martin manufactures parts from a variety materials including Nylon, UHMW, Acetal and more. They can be solid construction or multiple pieces requiring secondary operations. One part or 1,000, count on Martin to provide you with quick turnaround times on all your Made-to-Order plastic parts.

## Case Study:

**Application:** Split bearing block made of UHMW found on the ends of an agitator that stirs a chemical treating solution in a beef processing plant. Thus the components are continuously submerged into a corrosive liquid

**Problem:** This agitator is an integral part of the streamlined processing at this facility, therefore it is necessary to have components readily on hand and available to keep it up and running. However, this customer was struggling to get the split bearing blocks from their current supplier in a timely manner.

**Solution:** Realizing an opportunity to service this end user, Martin was able to provide a quality component with a quick delivery at a lower price than the previous supplier. These split block bearings are used in many different industries and applications



Spin weld parts up to 12½" Diameter.

**Watch the Machining Plastics Video**

**Scan QR code or visit: http://bit.ly/MilledPlastics**

# Custom Capabilities
# Laser Cutter & Waterjet

## Laser Cutter

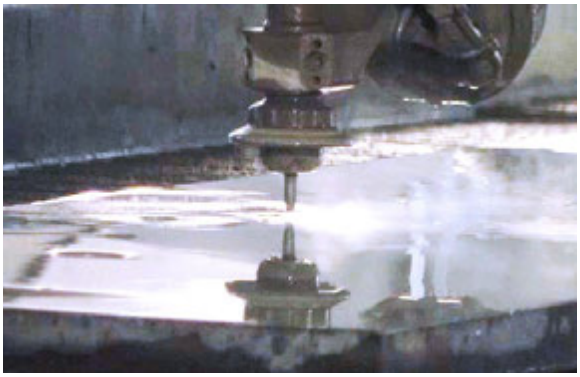
Martin has two laser cutting tables in their material handling division. These lasers are self loading and unloading, which means that once set up is complete, they can run unattended. These lasers can cut up to 3/4" thick mild or stainless steel and have a work envelope of 2 meters x 4 meters.

## Water Jet - High Pressure Water Cutter

Our waterjet cutter penetrates stainless steel conveyor type sprockets and a number of other components with more precision than a burn table.

### Advantages

- No material limitations
- Work Envelope: 150" x 79"
- 5 axis capability
- Highest in the industry water pressure of 87,500 PSI
- Easily cut up to 5" steel plate precisely and accurately, and up to 6" with adjustments



**Watch the Water Jet Video**

**Scan QR code or visit: https://bit.ly/WJetCapability**

# Notes

# INTERCHANGEABLE BUSHINGS

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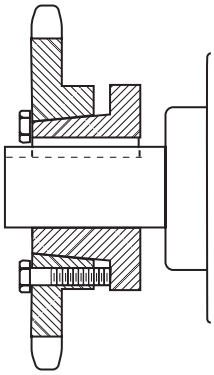
# Stock QD Bushings

## MARTIN MOUNTING PROCEDURE – QD BUSHINGS

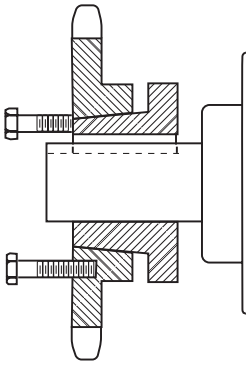
**IMPORTANT** – BE SURE TAPERED CONE SURFACES OF QD BUSHING AND INSIDE OF SHEAVE OR SPROCKET HUB ARE DRY AND FREE OF ALL FOREIGN SUBSTANCES SUCH AS PAINT, GREASE, OR DIRT.

## STANDARD MOUNTING ASSEMBLY FOR QD SHEAVES AND SPROCKETS



### MOUNTING

1. Be sure the tapered cone surfaces of the bushing and the inside of the driven product are clean and free of anti-seize lubricants.
2. Slide QD bushing on shaft, flange end first. Assemble key.
3. Position QD bushing on shaft. Tighten set screw over key "hand tight" with standard Allen wrench only. Do not use excessive force.
4. Slide large end of sheave or sprocket taper bore into position over cone aligning drilled bolt holes in sheave or sprocket with tapped holes in flange of bushing. Assemble pull-up bolts and lock washers.
   **NOTE: Install M thru S bushings in the hub so that the two extra holes in the hub are located as far as possible from the bushing's saw cut.**
5. Tighten pull-up bolts alternately and evenly to tightness indicated in torque table on back. Do not use extensions on wrench handles. There should be a gap between the face of the sheave or sprocket hub and the flange of the QD bushing to insure a satisfactory cone grip and press fit.
   CAUTION: THIS GAP MUST NOT BE CLOSED.



### DISMOUNTING

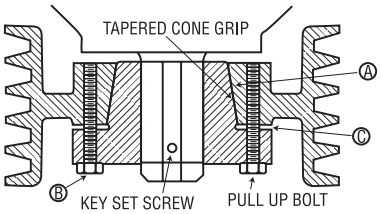
1. Remove pull-up bolts and screw them into TAPPED holes in sheave or sprocket and against flange of QD bushing to break cone grip.
1. Loosen set screw and slide QD bushing from shaft.

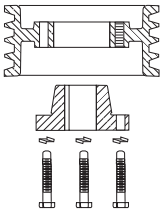
**WARNING:** Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions given above must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. All rotating power transmission products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards, and good safety practice. (Refer to ANSI Standard B15.1.)

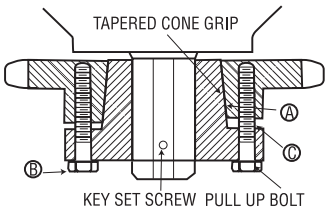
### REVERSE Mounting Assembly

**FOR QD SHEAVES AND SPROCKETS USING JA, SH, SD, SDS, SK, SF, E, F, AND J BUSHINGS**

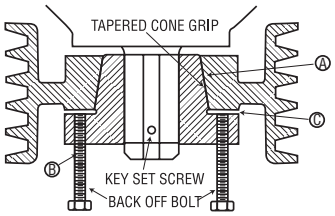
These bushings, as well as the sprockets and sheaves for them, are each drilled with six holes (three drilled and three tapped) to allow pull-up bolts to be inserted from either side. This enables variations of mounting characteristics to suit a particular installation.

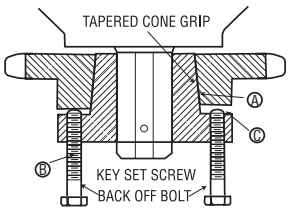





1. Be sure the tapered cone surfaces of the bushing and the inside of the driven product are clean and free of anti-seize lubricants.
2. Assemble sheave or sprocket with bolts inserted (But not tightened) through DRILLED holes in bushing flange into TAPPED holes in sheave, sprocket, or other Martin QD part.
3. With key in shaft keyseat, slide assembly into approximate position on shaft with flange end of bushing away from bearing.
4. Position QD bushing on shaft by tightening set screw over key "hand tight" with standard Allen wrench only. Do not use excessive force.
5. Tighten pull-up bolts alternately and evenly to tightness indicated in torque table below. Do not use extensions on wrench handles. There should be a gap between the face of the sheave or sprocket hub and the flange of the QD bushing to insure a satisfactory cone grip and press fit. CAUTION: THIS GAP MUST NOT BE CLOSED.




1. Remove pull-up bolts and screw them into TAPPED holes in bushing flange and against hub of sheave or sprocket to break cone grip.
2. Loosen set screw in bushing flange and slide QD bushing from shaft.

**CAUTION**

**WARNING: USE OF ANTI-SEIZE LUBRICANT ON TAPERED CONE SURFACE OR ON BOLT THREADS WHEN MOUNTING MAY RESULT IN DAMAGE TO SHEAVE AND SPROCKETS. THIS VOIDS ALL MANUFACTURER'S WARRANTIES**

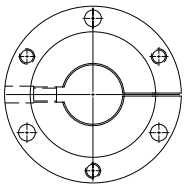
**BOLT TORQUE TABLE**

| QD Bushing Size | Set Screw | Wrench Torque in./lbs. |
|---|---|---|
| JA | 10 – 24 | 60 |
| SH, SDS, SD | 1/2 – 20 | 108 |
| SK | 5/16 – 18 | 180 |
| SF | 3/8 – 16 | 360 |
| E | 1/2 – 13 | 720 |
| F | 9/16 – 12 | 900 |
| J | 5/8 – 11 | 1620 |
| M | 3/4 – 10 | 2700 |
| N | 7/8 – 9 | 3600 |
| P | 1 – 8 | 5400 |
| W | 1 1/8 – 7 | 7200 |
| S | 1 1/2 – 7 | 9000 |

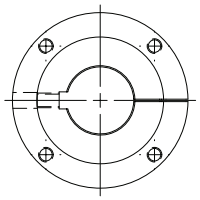
# All Steel QD Bushings

★**F** = Length of Mating Bore

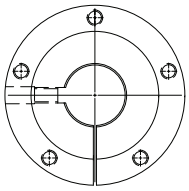
★★**G** = Gap Between QD Bushing and Mating Hub



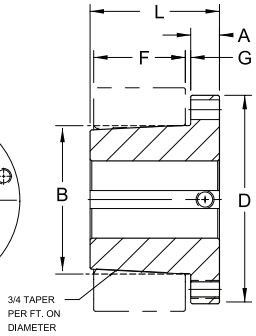
Bushings:
"JA" to "J" inclusive



Bushings:
"M" to "W" inclusive



Bushing:
"S"




| Bushing | Bush. Torque Capacity (in-lb) | Dimensions (Inches) | | | | | | | | Cap Screws Required | Stock Bore Range | | | Average Weight (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | D | E | ★F | ★★G | L | Cap Bolt Circle | | Min. | Maximum | | |
| | | | | | | | | | | | | Standard Keyway | Shallow Keyway | |
| SF-STL | 11,000 | 0.563 | 3.125 | 4.625 | 1.500 | 1.250 | 0.125 | 2.063 | 3.875 | 3 – 3/8 × 2 | 0.500 | 2.313 | 2.813 | 3.0 |
| E-STL | 20,000 | 0.750 | 3.834 | 6.000 | 1.875 | 1.625 | 0.125 | 2.625 | 5.000 | 3 – 1/2 × 2 3/4 | 0.875 | 2.875 | 3.500 | 10.0 |
| F-STL | 30,000 | 0.813 | 4.437 | 6.625 | 2.813 | 2.500 | 0.188 | 3.625 | 5.625 | 3 – 9/16 × 3 5/8 | 1.000 | 3.313 | 4.000 | 11.5 |
| J-STL | 45,000 | 1.000 | 5.148 | 7.250 | 3.500 | 3.188 | 0.188 | 4.500 | 6.250 | 3 – 5/8 × 4 1/2 | 1.438 | 3.750 | 4.500 | 18.0 |
| M-STL | 85,000 | 1.250 | 6.500 | 9.000 | 5.500 | 5.188 | 0.188 | 6.750 | 7.875 | 4 – 3/4 × 6 3/4 | 2.000 | 4.750 | 5.500 | 37.0 |
| N-STL | 150,000 | 1.500 | 7.000 | 10.000 | 6.625 | 6.250 | 0.438 | 8.125 | 8.500 | 4 – 7/8 × 8 1/2 | 2.500 | 5.125 | 5.875 | 57.0 |

| Bushing | Bores | Keyway |
|---|---|---|
| SF-STL | 2.375 – 2.563 | 5/8 × 3/16 |
| | 2.625 – 2.750 | 5/8 × 1/16 |
| | 2.813 – 2.875 | 3/4 × 1/16 |
| | 2.938 | 3/4 × 1/32 |
| | 0.875 – 2.875 | STD. |
| E-STL | 2.938 – 3.250 | 3/4 × 1/8 |
| | 3.313 – 3.500 | 7/8 × 1/16 |
| F-STL | 1.000 – 3.313 | STD. |
| | 3.375 – 3.750 | 7/8 × 3/16 |
| | 3.875 – 3.938 | 1 × 1/8 |
| | 4.000 | NONE |
| J-STL | 3.438 – 3.750 | STD. |
| | 3.813 – 4.500 | 1 × 1/8 |
| | 2.000 – 4.750 | STD. |
| M-STL | 4.813 – 5.500 | 1 1/4 × 1/4 |
| | 2.500 – 5.125 | STD. |
| N-STL | 5.188 – 5.500 | 1 1/4 × 1/4 |
| | 5.563 – 5.875 | 1 1/2 × 1/4 |

| Bushing | Plain Bores Not Split |
|---|---|
| SH-STL | 0.500 |
| SD-STL | 0.500 |
| SK-STL | 0.500 |
| SF-STL | 0.500 |
| E-STL | 0.875 – 1.938 |
| F-STL | 1.000 – 2.438 – 2.938 |
| J-STL | 1.438 – 2.938 |
| M-STL | 2.000 – 2.938 |
| N-STL | 2.438 – 4.938 |

| Shallow Key Dimension — Standard | | | |
|---|---|---|---|
| Keyset | Key | Keyset | Key |
| 1/4 × 1/32 | 1/4 × 5/32 | 3/4 × 1/8 | 3/4 × 1/2 |
| 1/4 × 1/16 | 1/4 × 3/16 | 7/8 × 1/16 | 7/8 × 1/2 |
| 3/8 × 1/32 | 3/8 × 7/32 | 7/8 × 3/16 | 7/8 × 5/8 |
| 3/8 × 1/16 | 3/8 × 1/4 | 1 × 1/8 | 1 × 5/8 |
| 3/8 × 1/8 | 3/8 × 5/16 | 1 1/4 × 1/4 | 1 1/4 × 7/8 |
| 1/2 × 1/32 | 1/2 × 9/32 | 1 1/2 × 1/8 | 1 1/2 × 7/8 |
| 1/2 × 1/16 | 1/2 × 5/16 | 1 1/2 × 1/4 | 1 1/2 × 1 |
| 1/2 × 1/8 | 1/2 × 3/8 | 1 3/4 × 1/8 | 1 3/4 × 3/4 |
| 5/8 × 1/16 | 5/8 × 3/8 | 1 3/4 × 1/4 | 1 3/4 × 7/8 |
| 3/4 × 1/16 | 3/4 × 7/16 | 2 × 1/4 | 2 × 1 |

| Shallow Key Dimension — Steel | | | |
|---|---|---|---|
| Keyset | Key | Keyset | Key |
| 1/4 × 1/32 | 1/4 × 5/32 | 3/4 × 1/16 | 3/4 × 7/16 |
| 1/4 × 1/16 | 1/4 × 3/16 | 3/4 × 1/8 | 3/4 × 1/2 |
| 3/8 × 1/32 | 3/8 × 7/32 | 7/8 × 1/16 | 7/8 × 1/2 |
| 3/8 × 1/16 | 3/8 × 1/4 | 7/8 × 3/16 | 7/8 × 5/8 |
| 3/8 × 1/8 | 3/8 × 5/16 | 1 × 1/8 | 1 × 5/8 |
| 1/2 × 1/32 | 1/2 × 3/32 | 1 1/4 × 1/4 | 1 1/4 × 7/8 |
| 1/2 × 1/16 | 1/2 × 5/16 | 1 1/2 × 1/4 | 1 1/2 × 1 |
| 1/2 × 1/8 | 1/2 × 3/8 | 1 3/4 × 1/8 | 1 3/4 × 3/4 |
| 5/8 × 1/16 | 5/8 × 3/8 | 1 3/4 × 3/8 | 1 3/4 × 1 |
| 5/8 × 3/16 | 5/8 × 1/2 | 2 × 1/4 | 2 × 1 |

| Shallow Key Dimension — Standard | | |
|---|---|---|
| Bores | Keyset | Key |
| 7/8 | 3/16 × 3/32 | 3/16 × 3/16 |
| 15/16 – 1 1/4 | 1/4 × 1/8 | 1/4 × 1/4 |
| 1 5/16 – 1 3/8 | 5/16 × 5/32 | 5/16 × 5/16 |
| 1 7/16 – 1 3/4 | 3/8 × 3/16 | 3/8 × 3/8 |
| 1 13/16 – 2 1/4 | 1/2 × 1/4 | 1/2 × 1/2 |
| 2 5/16 – 2 3/4 | 5/8 × 5/16 | 5/8 × 5/8 |
| 2 13/16 – 3 1/4 | 3/4 × 3/8 | 3/4 × 3/4 |
| 3 5/16 – 3 3/4 | 7/8 × 7/16 | 7/8 × 7/8 |
| 3 13/16 – 4 1/2 | 1 × 1/2 | 1 × 1 |
| 4 9/16 – 5 1/2 | 1 1/4 × 5/8 | 1 1/4 × 1 1/4 |
| 5 9/16 – 6 1/2 | 1 1/2 × 3/4 | 1 1/2 × 1 1/2 |
| 6 9/16 – 7 1/2 | 1 3/4 × 3/4 | 1 3/4 × 1 1/2 |
| 7 9/16 – 9 | 2 × 3/4 | 2 1/2 × 1 1/2 |
| 9 1/16 – 11 | 2 1/2 × 7/8 | — |
| 1 11/16 – 13 | 3 × 1 | — |

Reborable QD bushings made of stainless steel are available in many sizes. Non stock sizes are available on MTO basis.

# Standard QD Bushings

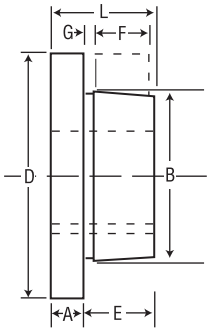
| Bushing | Bush. Torque Capacity (in-lb) | Dimensions (in) | | | | | | | | Cap Screws Required | Stock Bore Range | | | Set Screw Size | Average Weight (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | D | E | F | G | L | Bolt Circle | | Min. | Maximum | | | |
| | | | | | | | | | | | | Standard Keyway | Shallow Keyway | | |
| JA | 1,000 | 0.375 | 1.375 | 2.000 | 0.688 | 0.563 | 0.210 | 1.000 | 1.665 | 3 – 10 × 1 | 0.375 | 1 | 1 3/16 | 10 – 24 | 0.9 |
| SH | 3,500 | 0.438 | 1.871 | 2.688 | 0.875 | 0.813 | 0.243 | 1.250 | 2.250 | 3 – 1/4 × 1 3/8 | 0.500 | 1 3/8 | 1 5/8 | .25 – 20 | 1.0 |
| SDS | 5,000 | 0.500 | 2.187 | 3.188 | 0.875 | 0.750 | 0.265 | 1.375 | 2.688 | 3 – 1/4 × 1 3/8 | 0.500 | 1 11/16 | 1 15/16 | .25 – 20 | 1.0 |
| SD | 5,000 | 0.500 | 2.187 | 3.188 | 0.938 | 1.250 | 0.260 | 1.813 | 2.688 | 3 – 1/4 × 1 7/8 | 0.500 | 1 11/16 | 1 15/16 | .25 – 20 | 1.5 |
| SK | 7,000 | 0.563 | 2.812 | 3.875 | 1.375 | 1.250 | 0.317 | 1.938 | 3.313 | 3 – 5/16 × 2 | 0.500 | 2 1/8 | 2 1/2 | .313 – 18 | 2.0 |
| SF | 11,000 | 0.563 | 3.125 | 4.625 | 1.500 | 1.250 | 0.322 | 2.000 | 3.875 | 3 – 3/8 × 2 | 0.500 | 2 1/4 | 2 7/8 | .313 – 18 | 3.0 |
| E | 20,000 | 0.750 | 3.834 | 6.000 | 1.875 | 1.625 | 0.327 | 2.625 | 5.000 | 3 – 1/2 × 2 3/4 | 0.875 | 2 7/8 | 3 1/2 | .375 – 16 | 10.0 |
| F | 30,000 | 0.813 | 4.437 | 6.625 | 2.813 | 2.500 | 0.423 | 3.625 | 5.625 | 3 – 9/16 × 3 5/8 | 1.000 | 3 5/16 | 3 15/16 | .5 – 13 | 11.5 |
| J | 45,000 | 1.000 | 5.148 | 7.250 | 3.500 | 3.188 | 0.423 | 4.500 | 6.250 | 3 – 5/8 × 4 1/2 | 1.438 | 3 3/4 | 4 1/2 | .625 – 11 | 18.0 |
| M | 85,000 | 1.250 | 6.500 | 9.000 | 5.500 | 5.188 | 0.423 | 6.750 | 7.875 | 4 – 3/4 × 6 3/4 | 2.000 | 4 3/4 | 5 1/2 | .75 – 10 | 37.0 |
| N | 150,000 | 1.500 | 7.000 | 10.000 | 6.625 | 6.250 | 0.423 | 8.125 | 8.500 | 4 – 7/8 × 8 1/2 | 2.438 | 5 | 6 | .75 – 10 | 57.0 |
| P | 250,000 | 1.750 | 8.250 | 11.750 | 7.625 | 7.250 | 0.423 | 9.375 | 10.000 | 4 – 1 × 9 1/2 | 2.938 | 5 15/16 | 7 | .875 – 9 | 120.0 |
| W | 375,000 | 2.000 | 10.437 | 15.000 | 9.375 | 9.000 | 0.564 | 11.375 | 12.750 | 4 – 1 1/8 × 11 1/2 | 4.000 | 7 1/2 | 8 1/2 | 1 – 8 | 250.0 |
| S | 625,000 | 3.250 | 12.125 | 17.750 | 12.500 | – | 0.814 | 15.750 | 15.000 | 5 – 1 1/4 × 15 1/2 | 5.500 | 9 | 10 | 1.25 – 7 | 400.0 |

## Inch Bore

| Bushing | Bores | Keyway |
|---|---|---|
| JA | 0.375 - 0.438 | NO K.W. |
| | 0.500 - 1.000 | STD. |
| | 1.063 - 1.125 | 1/4 – 1/16 |
| | 0.188 | 1/4 – 1/16 |
| | 1.250 | NO K.W. |
| SH | 0.500 - 1.375 | STD |
| | 1.438 - 1.500 | 3/8 × 1/16 |
| | 1.563 - 1.625 | 3/8 × 1/16 |
| | 1.688 | NO K.W. |
| SDS | 0.500 - 1.688 | STD. |
| | 1.750 | 3/8 × 1/8 |
| | 1.813 | 1/2 × 1/8 |
| | 1.875 - 1.938 | 1/2 × 1/16 |
| | 2.000 | NO K.W. |
| SD | 0.500 - 1.688 | STD. |
| | 1.750 | 3/8 × 1/8 |
| | 1.813 | 1/2 × 1/8 |
| | 1.875 | 1/2 × 1/16 |
| | 1.938 | 1/2 × 1/16 |
| | 2.000 | NO K.W. |
| SK | 0.500 - 2.125 | STD. |
| | 2.188 - 2.250 | 1/2 × 1/8 |
| | 2.313 - 2.500 | 5/8 × 1/16 |
| | 2.563 - 2.625 | NO K.W. |
| SF | 0.500 - 2.250 | STD. |
| | 2.313 - 2.500 | 5/8 × 3/16 |
| | 2.563 - 2.750 | 5/8 × 1/16 |
| | 2.813 - 2.875 | 3/4 × 1/16 |
| | 2.938 | 3/4 × .031 |

| Bushing | Bores | Keyway |
|---|---|---|
| E | 0.875 - 2.875 | STD. |
| | 2.938 - 3.250 | 3/4 × 1/8 |
| | 3.313 | 7/8 × 1/8 |
| | 3.375 - 3.500 | 7/8 × 1/16 |
| F | 1.000 - 3.313 | STD. |
| | 3.375 - 3.750 | 7/8 × 3/16 |
| | 3.875 - 3.938 | 1 × 1/8 |
| | 4.000 | NONE |
| J | 1.250 - 3.750 | STD. |
| | 3.813 - 4.500 | 1 × 1/8 |
| M | 2.000 - 4.750 | STD. |
| | 4.813 - 5.500 | 1 1/4 × 1/4 |
| N | 2.438 - 5.000 | STD. |
| | 5.125 - 5.500 | 1 1/4 × 1/4 |
| | 5.563 - 6.000 | 1 1/2 × 1/4 |
| P | 2.938 - 5.938 | STD. |
| | 6.000 - 6.500 | 1 1/2 × 1/4 |
| | 6.563 - 7.000 | 1 3/4 × 1/8 |
| W | 4.000 - 7.500 | STD. |
| | 7.563 - 8.500 | 2 × 1/4 |

Keystock provided for nonstandard keyways.




## Millimeter Bore

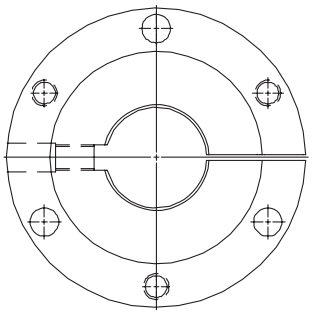
| Bushing | Bores (mm) | Key Stock Size ★ w × t |
|---|---|---|
| SH | 24, 25, 28, 30 | 8 × 7 |
| | 32, 35 | 10 × 8 |
| SDS | 24, 25, 28, 30 | 8 × 7 |
| | 32, 35, 38 | 10 × 8 |
| | 40, 42 | 12 × 8 |
| SD | 24, 25, 28, 30 | 8 × 7 |
| | 32, 35, 38 | 10 × 8 |
| | 40, 42 | 12 × 8 |
| SK | 24, 25, 28, 30 | 8 × 7 |
| | 32, 35, 38 | 10 × 8 |
| | 40, 42 | 12 × 8 |
| | 48, 50 | 14 × 9 |
| | 55 | 16 × 10 |
| SF | 28, 30 | 8 × 7 |
| | 32, 35, 38 | 10 × 8 |
| | 40, 42 | 12 × 8 |
| | 48, 50 | 14 × 9 |
| | 55 | 16 × 10 |
| | 60 | 18 × 11 |
| E | 35, 38 | 10 × 8 |
| | 40, 42 | 12 × 8 |
| | 48, 50 | 14 × 9 |
| | 55 | 16 × 10 |
| | 60, 65 | 18 × 11 |
| | 70, 75 | 20 × 12 |
| F | 48, 50 | 14 × 9 |
| | 55 | 16 × 10 |
| | 60, 65 | 18 × 11 |
| | 70, 75 | 20 × 12 |
| | 80, 85 | 22 × 14 |
| | 90 | 25 × 14 |
| J | 50 | 14 × 9 |
| | 55 | 16 × 10 |
| | 60, 65 | 18 × 11 |
| | 70, 75 | 20 × 12 |
| | 80, 85 | 22 × 14 |
| | 90, 95 | 25 × 14 |
| | 100 | 28 × 16 |

★ Important — The metric system does not refer to keyseat or keyway dimensions as does the English system; instead, dimensions are given for the key itself which is rectangular in shape, not square as in the English system.

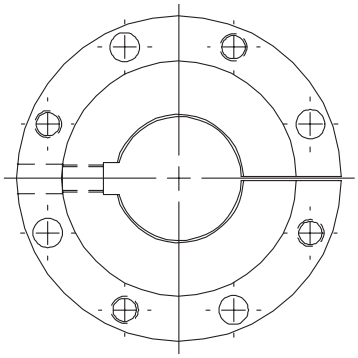
NOTE:
.03937" = 1mm
Ex: 24 mm = 0.94488"

TO ORDER:
SH 24 mm

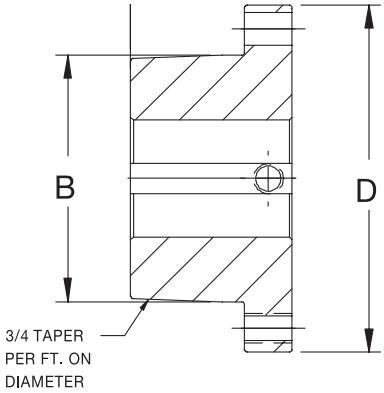
# QD Short Bushings



Bushings:
JS



Bushings:
MS to WS inclusive




## Inch Bore

| Bushing | Bores | Keyway | Average Weight (lb) |
|---|---|---|---|
| JS | 2.438 | 5/8 × 5/16 | 19 |
| | 2.938 | 3/4 × 3/8 | 17 |
| | 3.438 | 7/8 × 7/16 | 15 |
| | 3.500 | | 15 |
| | 3.938 | 1 × 1/8 | 13 |
| | 4.438 | | 10 |
| MS | 3.438 | 7/8 × 7/16 | 38 |
| | 3.500 | | 37 |
| | 3.938 | 1 × 1/2 | 34 |
| | 4.438 | | 30 |
| | 4.938 | 1 1/4 × 1/4 | 26 |
| | 5.438 | | 21 |
| | 5.500 | | 20 |
| NS | 3.938 | 1 × 1/2 | 54 |
| | 4.438 | | 49 |
| | 4.938 | 1 1/4 × 5/8 | 43 |
| | 5.438 | 1 1/4 × 1/4 | 38 |
| | 5.500 | | 37 |
| | 5.938 | 1 1/2 × 1/4 | 31 |
| | 6.000 | | 30 |
| PS | 4.938 | 1 1/4 × 5/8 | 76 |
| | 5.438 | | 70 |
| | 5.938 | 1 1/2 × 3/4 | 62 |
| | 6.000 | 1 1/2 × 1/4 | 62 |
| | 6.438 | | 55 |
| | 6.500 | | 54 |
| | 6.938 | 1 3/4 × 1/8 | 47 |
| | 7.000 | | 45 |
| WS | 5.438 | 1 1/4 × 5/8 | 154 |
| | 5.938 | 1 1/2 × 3/4 | 145 |
| | 6.000 | | 144 |
| | 6.438 | | 136 |
| | 6.500 | | 135 |
| | 6.938 | 1 3/4 × 3/4 | 126 |
| | 7.000 | | 125 |
| | 7.500 | | 114 |
| | 7.938 | 2 × 1/4 | 106 |
| | 8.000 | | 105 |
| | 8.438 | | 94 |
| | 8.500 | | 93 |

Martin QD short bushings are suitable for use in belt conveyor applications wherever the short hubs of a conveyor pulley require the QD short bushing style.

## Millimeter Bore

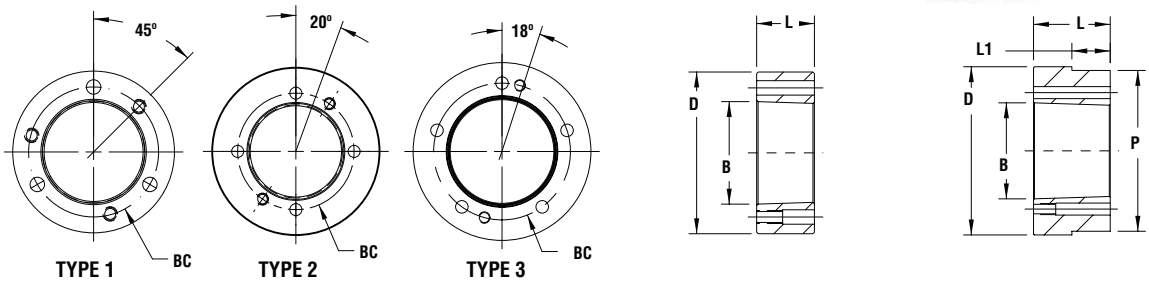
| Bushing | Dimensions (Inches) | | | | | | Cap Screws Required | Set Screw Size |
|---|---|---|---|---|---|---|---|---|
| | A | B | D | E | L | Bolt Circle | | |
| JS | 1.000 | 5.148 | 7.250 | 2.380 | 3.380 | 6.250 | 3 – 5/8 × 2 1/2 | 0.625 |
| MS | 1.190 | 6.500 | 9.000 | 3.620 | 4.810 | 7.880 | 4 – 3/4 × 3 | 0.750 |
| NS | 1.500 | 70.000 | 10.000 | 4.500 | 6.000 | 8.500 | 4 – 7/8 × 3 1/2 | 0.750 |
| PS | 1.500 | 8.250 | 11.750 | 5.000 | 6.500 | 10.000 | 4 – 1 × 4 | 0.875 |
| WS | 1.750 | 10.437 | 15.000 | 5.500 | 7.250 | 12.750 | 4 –1 1/8× 5 | 1.000 |

# QD and QD Short Weld-On Hubs

## QD Weld-On Hubs

Martin QD weld-on hubs are suitable for use in many applications, such as welding to plate steel sprockets.

QD weld-on hubs are made of steel, drilled, tapped and taper bored for QD bushings

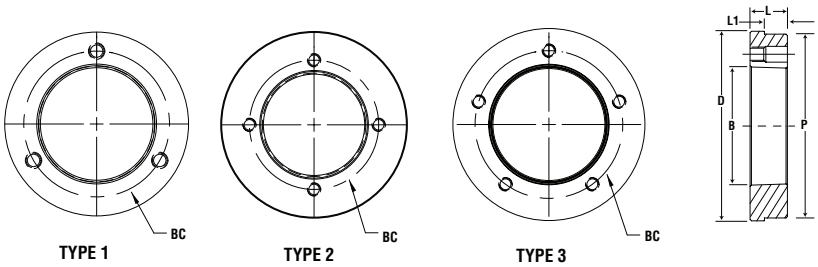



| Catalog Number | Dimensions (Inches) | | | | | | Type Drilling | Weight (lbs) | Mounting |
|---|---|---|---|---|---|---|---|---|---|
| | D ★ | L | B (nom) | P | $L_1$ | BC | | | |
| JA-A | 2.250 | 0.563 | 1.370 | — | — | 1.665 | 1 | 0.4 | STD or Reverse Mount |
| SH-A | 3.000 | 0.813 | 1.870 | — | — | 2.250 | 1 | 1.0 | |
| SDS-A | 3.500 | 0.750 | 2.180 | — | — | 2.688 | 1 | 1.2 | |
| SK-A | 4.375 | 1.250 | 2.810 | — | — | 3.313 | 1 | 3.0 | |
| SF-A | 5.000 | 1.250 | 3.120 | — | — | 3.875 | 1 | 4.0 | |
| E-A | 6.250 | 1.625 | 3.830 | — | — | 5.000 | 1 | 9.0 | |
| F-A | 7.000 | 2.500 | 4.440 | — | — | 5.625 | 1 | 16.0 | |
| J-A | 7.750 | 3.188 | 5.140 | — | — | 6.250 | 1 | 22.5 | |
| M-A | 9.500 | 5.188 | 6.490 | 9.250 | 3.563 | 7.875 | 2 | 50.0 | STD Mount Only |
| N-A | 10.500 | 6.250 | 6.990 | 10.250 | 4.500 | 8.500 | 2 | 75.0 | |
| P-A | 13.000 | 7.250 | 8.240 | — | — | 10.000 | 2 | 155.0 | |
| W-A | 15.500 | 9.000 | 10.430 | — | — | 12.750 | 2 | 300.0 | |
| S-A | 19.500 | 12.000 | 12.120 | 18.750 | 7.500 | 15.000 | 3 | 558.0 | |

★ Tolerance of D Dimension (or P dimension where applicable) JA-A Thru J-A = (+-.002) M-A Thru S-A = (+-.003)

## QD Short Weld-On Hubs

Martin QD short weld-on hubs are designed for use in conveyor pulleys.

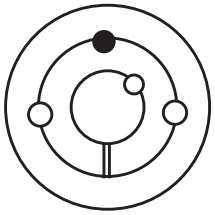



| Catalog Number | Dimensions (Inches) | | | | | | Type Drilling | Weight (lbs) | Mounting |
|---|---|---|---|---|---|---|---|---|---|
| | D | L | B (nom) | P ★ | $L_1$ | BC | | | |
| SFS-A | 5.000 | 1.000 | 3.120 | 4.750 | 0.563 | 3.875 | 1 | 3.0 | Reverse Mount Only |
| ES-A | 6.250 | 1.125 | 3.830 | 6.000 | 0.625 | 5.000 | 1 | 5.5 | |
| FS-A | 7.000 | 1.250 | 4.440 | 6.750 | 0.688 | 5.625 | 1 | 7.4 | |
| JS-A | 8.250 | 1.625 | 5.140 | 8.000 | 1.000 | 6.250 | 1 | 13.8 | |
| MS-A | 9.500 | 2.375 | 6.490 | 9.250 | 1.625 | 7.875 | 2 | 22.9 | |
| NS-A | 10.250 | 2.375 | 6.990 | 10.000 | 1.563 | 8.500 | 2 | 26.8 | |
| PS-A | 12.250 | 2.875 | 8.240 | 12.000 | 2.000 | 10.000 | 2 | 47.9 | |
| WS-A | 15.250 | 3.375 | 10.430 | 14.875 | 2.438 | 12.750 | 2 | 84.2 | |
| SS-A | 17.500 | 3.875 | 12.120 | 17.000 | 2.750 | 15.000 | 3 | 121.8 | |

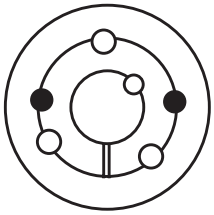
★ Tolerance of P Dimension SFS-A Thru MS-A = (+-.004) NS-A Thru PS-A = (+-.005) WS-A Thru SS-A = (+-.006)

# Taper Bushing Installation

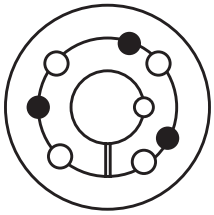
**IMPORTANT NOTE:** Please follow the instructions on this sheet in order for the Martin bushing to perform satisfactorily.



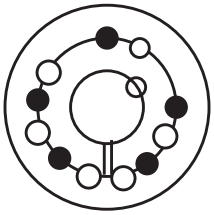
**1008 to 3030**



**3535 to 6050**



**7060 to 10085**



**102100**

## INSTALLATION

1. Clean all oil, dirt, and paint from shaft, bushing bore, outside of bushing and component (sprocket, sheave...etc.) bore.
2. Insert bushing into component. Match the hole pattern, not the threaded holes (each hole will be threaded on one side only.)
3. Thread set or cap screws into those half threaded holes indicated by ❍ on above diagram. Mount assembly on shaft.
4. Alternately torque set or cap screws* to recommended torque setting in chart below.
5. On 3535 and larger bushings use a block, sleeve or drift and hammer large end of bushing (do not hammer bushing directly).
6. Repeat steps 4 and 5 until torque wrench reading, after hammering, is the same as before hammering.
7. Fill all unoccupied holes with grease.

## REMOVAL

1. Remove all set or cap screws.
2. Insert set or cap screws in holes indicated by ● on drawing. Loosen bushing by alternately tightening set or cap screws.
3. To reinstall, complete all seven (7) installation instructions.

| RECOMMENDED TORQUE | | |
|---|---|---|
| **Bushing No.** | **Set Screw** | **Wrench Torque in/lb** |
| 1008, 1108<br>1210, 1215, 1310<br>1610, 1615 | 1/4 – 20 Socket Set Screw | 55 |
| | 5/16 – 18 Socket Set Screw | 165 |
| | 3/8 – 16 Socket Set Screw | 175 |
| | 3/8 – 16 Socket Set Screw | 175 |
| 2012<br>2317, 2525<br>3020, 3030 | 7/16 – 14 Socket Set Screw | 280 |
| | 1/2 – 13 Socket Set Screw | 430 |
| | 5/8 – 11 Socket Set Screw | 800 |
| 3535<br>4040<br>4545 | 1/2 – 13 Socket Set Screw | 1000 |
| | 5/8 – 11 Socket Set Screw | 1700 |
| | 3/4 – 10 Socket Set Screw | 2450 |
| 5050<br>6050, 7060, 8065<br>10085, 120100 | 7/8 – 9 Socket Set Screw | 3100 |
| | 1-1/4 – 7 Socket Set Screw | 7820 |
| | 1-1/2 – 6 Socket Set Screw | 13700 |

If two bushings are used on same component and shaft, fully tighten one bushing before working on the other

**CAUTION**

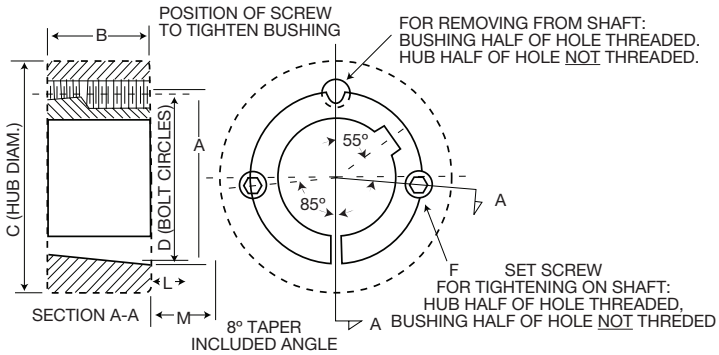
**WARNING: USE OF ANTI-SEIZE LUBRICANT ON TAPERED CONE SURFACE OR ON BOLT THREADS WHEN MOUNTING MAY RESULT IN DAMAGE TO SHEAVE AND SPROCKETS. THIS VOIDS ALL MANUFACTURER'S WARRANTIES**

**WARNING:** Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions given above must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. All rotating power transmission products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards, and good safety practice. (Refer to ANSI Standard B15.1.)

# Taper Bushings Dimensions

## No. 1008 to 3030 Taper Bushings

| Bush. No. | Bore | Wt. (lb) | Bushing Keyseat | Shaft Keyseat |
|---|---|---|---|---|
| 1008 | 0.500 - 0.563 | 0.27 | 1/8 × 1/16 | 1/8 × 1/16 |
| | 0.625 - 0.875 | 0.21 | 3/16 × 3/32 | 3/16 × 3/32 |
| | 0.938 - 1.000 | 0.16 | 1/4 × 1/16 ▼ | 1/4 × 1/8 |
| 1108 | 0.500 - 0.563 | 0.33 | 1/8 × 1/16 | 1/8 × 1/16 |
| | 0.625 - 0.875 | 0.27 | 3/16 × 3/32 | 3/16 × 3/32 |
| | 0.938 - 1.000 | 0.22 | 1/4 × 1/8 | 1/4 × 1/8 |
| | 1.063 - 1.125 | 0.17 | 1/4 × 1/16 ▼ | 1/4 × 1/8 |
| 1210 | 0.500 - 0.563 | 0.61 | 1/8 × 1/16 | 1/8 × 1/16 |
| | 0.625 - 0.875 | 0.55 | 3/16 × 3/32 | 3/16 × 3/32 |
| | 0.938 - 1.250 | 0.49 | 1/4 × 1/8 | 1/4 × 1/8 |
| 1215 | 0.500 - 0.563 | 0.8 | 1/8 × 1/16 | 1/8 × 1/16 |
| | 0.625 - 0.875 | 0.7 | 3/16 × 3/32 | 3/16 × 3/32 |
| | 0.938 - 1.250 | 0.6 | 1/4 × 1/8 | 1/4 × 1/8 |
| 1310 | 0.500 - 0.563 | 0.7 | 1/8 × 1/16 | 1/8 × 1/16 |
| | 0.625 - 0.875 | 0.7 | 3/16 × 3/32 | 3/16 × 3/32 |
| | 0.938 - 1.250 | 0.6 | 1/4 × 1/8 | 1/4 × 1/8 |
| | 1.313 - 1.375 | 0.6 | 5/16 × 5/32 | 5/16 × 5/32 |
| 1610 | 0.500 - 0.563 | 0.9 | 1/8 × 1/16 | 1/8 × 1/16 |
| | 0.625 - 0.875 | 0.8 | 3/16 × 3/32 | 3/16 × 3/32 |
| | 0.938 - 1.250 | 0.7 | 1/4 × 1/8 | 1/4 × 1/8 |
| | 1.313 - 1.375 | 0.7 | 5/16 × 5/32 | 5/16 × 5/32 |
| | 1.438 - 1.500 | 0.6 | 3/8 × 3/16 | 3/8 × 3/16 |
| | 1.563 - 1.625 | 0.5 | 3/8 × 1/8 ▼ | 3/8 × 3/16 |
| 1615 | 0.500 - 0.563 | 1.2 | 1/8 × 1/16 | 1/8 × 1/16 |
| | 0.625 - 0.875 | 1.1 | 3/16 × 3/32 | 3/16 × 3/32 |
| | 0.938 - 1.250 | 1.0 | 1/4 × 1/8 | 1/4 × 1/8 |
| | 1.313 - 1.375 | 0.8 | 5/16 × 5/32 | 5/16 × 5/32 |
| | 1.438 - 1.500 | 0.7 | 3/8 × 3/16 | 3/8 × 3/16 |
| | 1.563 - 1.625 | 0.6 | 3/8 × 1/8 ▼ | 3/8 × 3/16 |
| 2012 | 0.500 - 0.563 | 1.7 | 1/8 × 1/16 | 1/8 × 1/16 |
| | 0.625 - 0.875 | 1.6 | 3/16 × 3/32 | 3/16 × 3/32 |
| | 0.938 - 1.250 | 1.5 | 1/4 × 1/8 | 1/4 × 1/8 |
| | 1.313 - 1.375 | 1.4 | 5/16 × 5/32 | 5/16 × 5/32 |
| | 1.438 - 1.750 | 1.2 | 3/8 × 3/16 | 3/8 × 3/16 |
| | 1.813 - 1.875 | 1.0 | 1/2 × 1/4 | 1/2 × 1/4 |
| | 1.938 - 2.000 | 1.0 | 1/2 × 3/16 ▼ | 1/2 × 1/4 |
| 2517 | 0.500 - 0.563 | 3.5 | 1/8 × 1/16 | 1/8 × 1/16 |
| | 0.625 - 0.875 | 3.4 | 3/16 × 3/32 | 3/16 × 3/32 |
| | 0.938 - 1.250 | 3.3 | 1/4 × 1/8 | 1/4 × 1/8 |
| | 1.313 - 1.375 | 3.2 | 5/16 × 5/32 | 5/16 × 5/32 |
| | 1.438 - 1.750 | 3.0 | 3/8 × 3/16 | 3/8 × 3/16 |
| | 1.813 - 2.250 | 2.4 | 1/2 × 1/4 | 1/2 × 1/4 |
| | 2.313 - 2.500 | 1.9 | 5/8 × 3/16 ▼ | 5/8 × 5/16 |
| 2525 | 0.750 - 0.875 | 4.9 | 3/16 × 3/32 | 3/16 × 3/32 |
| | 0.938 - 1.250 | 4.7 | 1/4 × 1/8 | 1/4 × 1/8 |
| | 0.938 - 1.375 | 4.5 | 5/16 × 5/32 | 5/16 × 5/32 |
| | 1.438 - 1.750 | 4.2 | 3/8 × 3/16 | 3/8 × 3/16 |
| | 1.813 - 2.250 | 3.3 | 1/2 × 1/4 | 1/2 × 1/4 |
| | 2.313 - 2.500 | 2.5 | 5/8 × 3/16 ▼ | 5/8 × 5/16 |
| 3020 | 0.938 - 1.250 | 6.5 | 1/4 × 1/8 | 1/4 × 1/8 |
| | 1.313 - 1.375 | 6.3 | 5/16 × 5/32 | 5/16 × 5/32 |
| | 1.438 - 1.750 | 6.0 | 3/8 × 3/16 | 3/8 × 3/16 |
| | 1.813 - 2.250 | 5.3 | 1/2 × 1/4 | 1/2 × 1/4 |
| | 2.313 - 2.750 | 4.5 | 5/8 × 5/16 | 5/8 × 5/16 |
| | 2.813 - 3.000 | 3.9 | 3/4 × 1/4 ▼ | 3/4 × 3/8 |
| 3030 | 0.938 - 1.250 | 9.2 | 1/4 × 1/8 | 1/4 × 1/8 |
| | 1.313 - 1.375 | 8.9 | 5/16 × 5/32 | 5/16 × 5/32 |
| | 1.438 - 1.750 | 8.6 | 3/8 × 3/16 | 3/8 × 3/16 |
| | 1.813 - 2.250 | 7.6 | 1/2 × 1/4 | 1/2 × 1/4 |
| | 2.313 - 2.750 | 6.2 | 5/8 × 5/16 | 5/8 × 5/16 |
| | 2.813 - 3.000 | 5.0 | 3/4 × 1/4 ▼ | 3/4 × 3/8 |




## Dimensions

| Bush. No. | Bush. Torque Capacity (in-lb) | A | B | C Ø | | | D | F † | L ★ | | M ★★ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Class 20 Gray Iron | Class 30 Gray Iron | Steel | | | Std. Hex. Key | Short Key ‡ | Std. Hex. Key | Short Key ‡ |
| 1008 | 1,200 | 1.386 | 0.875 | 2.375 | 2.188 | 1.938 | 1.328 | 1/4 × 1/2 | 1 1/8 | 5/8 | 1 1/4 | 3/4 |
| 1108 | 1,300 | 1.511 | 0.875 | 2.500 | 2.313 | 2.063 | 1.453 | 1/4 × 1/2 | 1 1/8 | 5/8 | 1 1/4 | 3/4 |
| 1210 | 3,600 | 1.875 | 1.000 | 3.625 | 3.250 | 2.875 | 1.750 | 3/8 × 5/8 | 1 3/8 | 13/16 | 1 5/8 | 1 1/16 |
| 1215 | 3,550 | 1.875 | 1.500 | 3.125 | 2.875 | 2.625 | 1.750 | 3/8 × 5/8 | 1 3/8 | 13/16 | 1 5/8 | 1 1/16 |
| 1310 | 3,850 | 2.000 | 1.000 | 3.750 | 3.375 | 3.000 | 1.875 | 3/8 × 5/8 | 1 3/8 | 13/16 | 1 5/8 | 1 1/16 |
| 1610 | 4,300 | 2.250 | 1.000 | 4.000 | 3.625 | 3.250 | 2.125 | 3/8 × 5/8 | 1 3/8 | 13/16 | 1 5/8 | 1 1/16 |
| 1615 | 4,300 | 2.250 | 1.500 | 3.500 | 3.250 | 3.000 | 2.125 | 3/8 × 5/8 | 1 3/8 | 13/16 | 1 5/8 | 1 1/16 |
| 2012 | 7,150 | 2.750 | 1.250 | 4.750 | 4.375 | 3.875 | 2.625 | 7/16 × 7/8 | 1 9/16 | 15/16 | 2 | 1 3/8 |
| 2517 | 11,600 | 3.375 | 1.750 | 5.500 | 4.875 | 4.375 | 3.250 | 1/2 × 1 | 1 5/8 | 1 | 2 1/4 | 1 5/8 |
| 2525 | 11,300 | 3.375 | 2.500 | 4.750 | 4.500 | 4.250 | 3.250 | 1/2 × 1 | 1 5/8 | 1 | 2 1/4 | 1 5/8 |
| 3020 | 24,000 | 4.250 | 2.000 | 7.000 | 6.250 | 5.625 | 4.000 | 5/8 × 1 1/4 | 1 13/16 | 1 3/16 | 2 11/16 | 2 1/16 |
| 3030 | 24,000 | 4.250 | 3.000 | 6.250 | 5.750 | 5.375 | 4.000 | 5/8 × 1 1/4 | 1 13/16 | 1 3/16 | 2 11/16 | 2 1/16 |

Bushings cannot be bored larger than largest bore listed.

For detail dimensions required for machining hubs, consult factory.

▼ Key furnished for these sizes only.

Ø For general reference. Severe conditions may require larger hub. Heavy well-located web may permit smaller hub. Hub diameter required depends on the particular application. Consult Martin giving full information on the proposed design. Hub diameters shown are based on 20,000, 30,000, and 50,000 P.S.I. minimum ultimate tensile strength respectively for Class 20 gray iron, Class 30 gray iron, and steel hubs.

† 2 screws required. Use in positions shown for tightening bushing on shaft. In removing bushing from shaft, remove screws and use one of them in the other hole. Bushing price includes screws.

★ Space required to tighten bushing. Also space required to loosen screws to permit removal of hub by puller.

★★ Space required to loosen bushing using one screw as jackscrew — no puller required.

‡ Standard hex key cut to minimum usable length.

# Taper Bushings Dimensions

## No. 3535 to 5050 Bushings

| Bushing Number | Bush. Torque Capacity (in-lb) | Bore | Wt. | Bushing Keyseat | Shaft Keyseat | A | B | C Ø Class 20 Gray Iron | C Ø Class 30 Gray Iron | C Ø Steel | D | F † | G | R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3535 | 44,800 | 1.188 - 1.250 | 14 | 1/4 x 1/8 | 1/4 x 1/8 | 5.00 | 3.50 | 7.75 | 7.00 | 6.50 | 4.83 | 3 – 1/2 × 1 1/2 | 39° | ▲ |
| | | 1.313 - 1.375 | 14 | 5/16 x 5/32 | 5/16 x 5/32 | | | | | | | | | |
| | | 1.438 - 1.750 | 13 | 3/8 x 3/16 | 3/8 x 3/16 | | | | | | | | | |
| | | 1.813 - 2.250 | 12 | 1/2 x 1/4 | 1/2 x 1/4 | | | | | | | | | |
| | | 2.313 - 2.750 | 11 | 5/8 x 5/16 | 5/8 x 5/16 | | | | | | | | | |
| | | 2.813 - 3.250 | 9 | 3/4 x 3/8 | 3/4 x 3/8 | | | | | | | | | |
| | | 3.313 - 3.500 | 8 | 7/8 x 1/4 ▼ | 7/8 x 7/16 | | | | | | | | | |
| 4040 | 77,300 | 1.438 - 1.750 | 22 | 3/8 x 3/16 | 3/8 x 3/16 | 5.75 | 4.00 | 9.50 | 8.50 | 7.75 | 5.54 | 3 – 5/8 × 1 3/4 | 40° | ▲ |
| | | 1.813 - 2.250 | 21 | 1/2 x 1/4 | 1/2 x 1/4 | | | | | | | | | |
| | | 2.313 - 2.750 | 19 | 5/8 x 5/16 | 5/8 x 5/16 | | | | | | | | | |
| | | 2.813 - 3.250 | 17 | 3/4 x 3/8 | 3/4 x 3/8 | | | | | | | | | |
| | | 3.313 - 3.625 | 15 | 7/8 x 7/16 | 7/8 x 7/16 | | | | | | | | | |
| | | 3.688 - 3.750 | 14 | 7/8 x 1/4 ▼ | 7/8 x 7/16 | | | | | | | | | |
| | | 3.813 - 4.000 | 13 | 1 x 1/4 ▼ | 1 x 1/2 | | | | | | | | | |
| 4545 | 110,000 | 1.938 - 2.250 | 30 | 1/2 x 1/4 | 1/2 x 1/4 | 6.38 | 4.50 | 10.50 | 9.50 | 8.75 | 6.13 | 3 – 3/4 × 2 | 40° | ▲ |
| | | 2.313 - 2.750 | 28 | 5/8 x 5/16 | 5/8 x 5/16 | | | | | | | | | |
| | | 2.813 - 3.250 | 26 | 3/4 x 3/8 | 3/4 x 3/8 | | | | | | | | | |
| | | 3.313 - 3.750 | 23 | 7/8 x 7/16 | 7/8 x 7/16 | | | | | | | | | |
| | | 3.813 - 4.250 | 20 | 1 x 1/2 | 1 x 1/2 | | | | | | | | | |
| | | 4.313 - 4.500 | 18 | 1 x 1/4 ▼ | 1 x 1/2 | | | | | | | | | |
| 5050 | 126,000 | 2.313 - 2.750 | 38 | 5/8 x 5/16 | 5/8 x 5/16 | 7.00 | 5.00 | 11.50 | 10.50 | 9.50 | 6.72 | 3 – 7/8 × 2 1/4 | 37° | ▲ |
| | | 2.813 - 3.250 | 35 | 3/4 x 3/8 | 3/4 x 3/8 | | | | | | | | | |
| | | 3.313 - 3.750 | 32 | 7/8 x 7/16 | 7/8 x 7/16 | | | | | | | | | |
| | | 3.813 - 4.500 | 27 | 1 x 1/2 | 1 x 1/2 | | | | | | | | | |
| | | 4.563 - 5.000 | 24 | 1 1/4 x 7/16 ▼ | 1 1/4 x 5/8 | | | | | | | | | |

## No. 4030 to 5040 Short Taper Bushings

| Bushing Number | Bush. Torque Capacity (in-lb) | Bore | Wt. | Bushing Keyseat | Shaft Keyseat | A | B | C Ø Class 20 Gray Iron | C Ø Class 30 Gray Iron | C Ø Steel | D | F † | G | R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3525 | 44,800 | 1.188 - 1.250 | 14 | 1/4 x 1/8 | 1/4 x 1/8 | 5.00 | 3.50 | 7.75 | 7.00 | 6.50 | 4.83 | 3 – 1/2 × 1 1/2 | 39° | ▲ |
| | | 1.313 - 1.375 | 14 | 5/16 x 5/32 | 5/16 x 5/32 | | | | | | | | | |
| | | 1.438 - 1.750 | 13 | 3/8 x 3/16 | 3/8 x 3/16 | | | | | | | | | |
| | | 1.813 - 2.250 | 13 | 1/2 x 1/4 | 1/2 x 1/4 | | | | | | | | | |
| | | 2.313 - 2.750 | 12 | 5/8 x 5/16 | 5/8 x 5/16 | | | | | | | | | |
| | | 2.813 - 3.250 | 10 | 3/4 x 3/8 | 3/4 x 3/8 | | | | | | | | | |
| | | 3.313 | 9 | 7/8 x 1/8 ▼ | 7/8 x 7/16 | | | | | | | | | |
| | | 3.375 - 3.750 | 8 | 7/8 x 3/16 ▼ | 7/8 x 7/16 | | | | | | | | | |
| | | 3.813 - 3.938 | 8 | 1 x 1/4 ▼ | 1 x 1/2 | | | | | | | | | |
| 4030 | 77,300 | 1.438 - 1.750 | 24 | 3/8 x 3/16 | 3/8 x 3/16 | 5.75 | 3.00 | 9.50 | 8.50 | 7.75 | 5.54 | 3 – 5/8 × 1 3/4 | 39° | ▲ |
| | | 1.813 - 2.250 | 21 | 1/2 x 1/4 | 1/2 x 1/4 | | | | | | | | | |
| | | 2.313 - 2.750 | 20 | 5/8 x 5/16 | 5/8 x 5/16 | | | | | | | | | |
| | | 2.813 - 3.250 | 18 | 3/4 x 3/8 | 3/4 x 3/8 | | | | | | | | | |
| | | 3.313 - 3.688 | 15 | 7/8 x 7/16 | 7/8 x 1/4 | | | | | | | | | |
| | | 3.750 | 13 | 7/8 x 1/4 ▼ | 7/8 x 7/16 | | | | | | | | | |
| | | 3.813 | 13 | 1 x 1/2 | 1 x 1/2 | | | | | | | | | |
| | | 3.875 - 4.438 | 13 | 1 x 1/4 ▼ | 1 x 1/2 | | | | | | | | | |
| 4535 | 110,000 | 1.938 - 2.250 | 31 | 1/2 x 1/4 | 1/2 x 1/4 | 6.38 | 3.50 | 10.50 | 9.50 | 8.75 | 6.13 | 3 – 5/8 × 1 3/4 | 40° | ▲ |
| | | 2.313 - 2.750 | 29 | 5/8 x 5/16 | 5/8 x 5/16 | | | | | | | | | |
| | | 2.813 - 3.250 | 25 | 3/4 x 3/8 | 3/4 x 3/8 | | | | | | | | | |
| | | 3.313 - 3.688 | 23 | 7/8 x 7/16 | 7/8 x 7/16 | | | | | | | | | |
| | | 3.813 - 4.250 | 20 | 1 x 1/2 | 1 x 1/2 | | | | | | | | | |
| | | 4.375 - 4.500 | 17 | 1 x 1/4 ▼ | 1 x 1/2 | | | | | | | | | |
| | | 4.750 - 4.938 | 15 | 1 1/4 x 1/4 ▼ | 1 1/4 x 5/8 | | | | | | | | | |
| 5040 | 126,000 | 2.438 - 2.750 | 40 | 5/8 x 5/16 | 5/8 x 5/16 | 7.00 | 4.00 | 11.50 | 10.50 | 9.50 | 6.72 | 3 – 7/8 × 2 1/4 | 37° | ▲ |
| | | 2.813 - 3.250 | 37 | 3/4 x 3/8 | 3/4 x 3/8 | | | | | | | | | |
| | | 3.313 - 3.750 | 33 | 7/8 x 7/16 | 7/8 x 7/16 | | | | | | | | | |
| | | 3.813 - 4.500 | 29 | 1 x 1/2 | 1 x 1/2 | | | | | | | | | |
| | | 4.750 - 5.000 | 23 | 1 1/4 x 1/4 ▼ | 1 1/4 x 5/8 | | | | | | | | | |

Bushings cannot be bored larger than largest bore listed.

For detail dimensions required for machining hubs, consult factory.

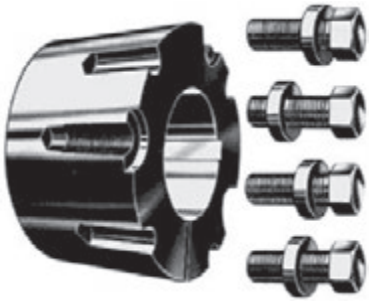
Ø For general reference. Severe conditions may require larger hub. Heavy well located web may permit smaller hub. Hub diameter required depends on the particular application. Consult factory giving full information on the proposed design. Hub diameters shown are based on 20,000, 30,000, and 50,000 P.S.I. minimum ultimate tensile strength respectively for Class 20 gray iron, Class 30 gray iron, and steel hubs.

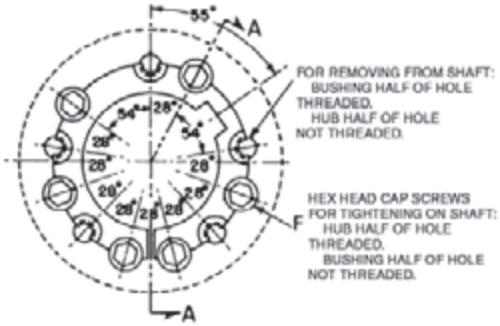
▼ Key furnished for these sizes only.

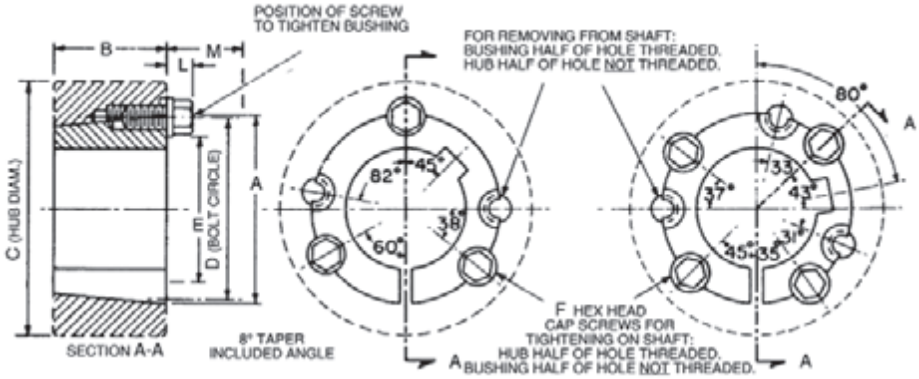
† 3 screws required. Use in positions shown for tightening bushing on shaft. In removing bushing from shaft, remove screws and use two of them in the other two holes. Bushing price includes screws. See following footnote.

▲ Provide sufficient space to tighten and loosen bushing. Width across flats of screw head is same as screw diameter which is shown in column F.

# Taper Bushings Dimensions






## No 6050 to 120100 Taper Bushings

| Bushing Number | Bushing Torque Capacity (in-lb) | Bore | Weight | Bushing Keyseat | Shaft Keyseat | A | B | C Ø Class 20 Gray Iron | C Ø Class 30 Gray Iron | C Ø Steel | D | E | F † | L ★ | M ★★ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6050 | 282,000 | 3.813 - 4.500 | 60 | 1 × 1/2 | 1 × 1/2 | 9.25 | 5.00 | 17.00 | 15.50 | 13.50 | 9.00 | 6.75 | 3 – 1 1/4 × 3 1/2 | 1.625 | 4.375 |
| | | 4.563 - 5.500 | 55 | 1 1/4 × 5/8 | 1 1/4 × 5/8 | | | | | | | | | | |
| | | 5.563 - 6.000 | 50 | 1 1/2 × 3/4 | 1 1/2 × 3/4 | | | | | | | | | | |
| 7060 | 416,000 | 4.563 - 5.500 | 85 | 1 1/4 × 5/8 | 1 1/4 × 5/8 | 10.25 | 6.00 | 18.50 | 17.00 | 14.75 | 10.00 | 7.75 | 4 – 1 1/4 × 3 1/2 | 1.625 | 4.375 |
| | | 5.563 - 6.500 | 75 | 1 1/2 × 3/4 | 1 1/2 × 3/4 | | | | | | | | | | |
| | | 6.563 - 7.000 | 65 | 1 3/4 × 3/4 | 1 3/4 × 3/4 | | | | | | | | | | |
| ◊ 8065 | 456,000 | 5.063 - 5.500 | 120 | 1 1/4 × 5/8 | 1 1/4 × 5/8 | 11.25 | 6.50 | 19.00 | 17.50 | 15.50 | 11.00 | 8.75 | 4 – 1 1/4 × 3 1/2 | 1.625 | 4.375 |
| | | 5.563 - 6.500 | 105 | 1 1/2 × 3/4 | 1 1/2 × 3/4 | | | | | | | | | | |
| | | 6.563 - 7.500 | 90 | 1 3/4 × 3/4 | 1 3/4 × 3/4 | | | | | | | | | | |
| | | 7.563 - 8.000 | 75 | 2 × 3/4 | 2 × 3/4 | | | | | | | | | | |
| ◊ 10085 | 869,000 | 6.563 - 7.500 | 260 | 1 3/4 × 3/4 | 1 3/4 × 3/4 | 14.75 | 8.50 | 23.50 | 22.00 | 19.50 | 14.50 | 11.75 | 4 – 1 1/2 × 4 1/4 | 2 | 5.375 |
| | | 7.563 - 9.000 | 230 | 2 × 3/4 | 2 × 3/4 | | | | | | | | | | |
| | | 9.063 - 10.000 | 190 | 2 1/2 × 7/8 | 2 1/2 × 7/8 | | | | | | | | | | |
| ◊ 120100 | 1,520,000 | 7.563 - 9.000 | 410 | 2 × 3/4 | 2 × 3/4 | 17.25 | 10.00 | 28.00 | 26.00 | 23.00 | 17.00 | 14.25 | 6 – 1 1/2 × 4 1/4 | 2 | 5.375 |
| | | 9.063 - 11.000 | 360 | 2 1/2 × 7/8 | 2 1/2 × 7/8 | | | | | | | | | | |
| | | 11.063 - 12.000 | 290 | 3 × 1 | 3 × 1 | | | | | | | | | | |

Bushings cannot be bored larger than largest bore listed.

For detail dimensions required for machining hubs, consult Martin.

Ø For general reference. Severe conditions may require larger hub. Heavy well located web may permit smaller hub. Hub diameter required depends on the particular application. Consult Martin giving full information on the proposed design. Hub diameters shown are based on 20,000, 30,000, and 50,000 P.S.I. minimum ultimate tensile strength respectively for Class 20 gray iron, Class 30 gray iron, and steel hubs.

† 3 screws for 6050; four for 7060 to 10085; six for 120100. Use in positions shown for tightening bushing on shaft. In loosening bushing, remove screws and use all except one in the other holes. Bushing price includes screws.

★ Space required to tighten bushing. Also space required to loosen screws to permit removal of hub by puller.

★★ Space required to loosen bushing using screws as jackscrews— no puller required.

◊ Not currently stocked — Available on order.

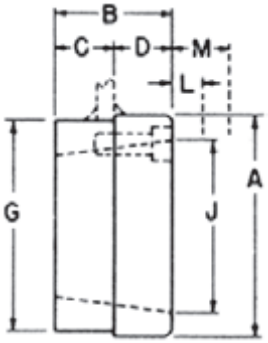
# Taper Bushed Type S-Type W Weld-On Hubs Dimensions

## Type S

Martin taper bushed type S weld-on hubs are suitable for use in many applications such as for welding to plate steel sprockets. The outside diameters of these hubs have been reduced to a minimum. This is permissible because of the reinforcing strength of the items to which they are to be welded. Cases where the attached item is of small dimensions should be referred to Martin.

Type S weld-on hubs are made of steel, drilled, tapped, and taper bored for tapered bushings. Their small size and the convenience and advantages of taper bushed construction make them of great value on many devices for use on shafts.

| Bushing Number | For Use with Bushing Number | Max. Bore of Bushing | Weight | A | B ◊ | C ★★ | D ▼ | G | J |
|---|---|---|---|---|---|---|---|---|---|
| S16-4 | 1610 | 1.625 | .9 | 3.000 | 1.000 | 0.275 | 0.725 | 2.875 † | 2.250 |
| S16-6 | 1610 | 1.625 | .9 | 3.000 | 1.000 | 0.450 | 0.550 | 2.875 † | 2.250 |
| S20-6 | 2012 | 2.000 | 1.8 | 3.563 | 1.250 | 0.450 | 0.800 | 3.438 † | 2.750 |
| S20-8 | 2012 | 2.000 | 1.4 | 3.563 | 1.250 | 0.570 | 0.680 | 3.438 † | 2.750 |
| S25-6 | 2517 | 2.500 | 2.6 | 4.250 | 1.750 | 0.450 | 1.300 | 4.125 † | 3.375 |
| S25-8 | 2517 | 2.500 | 2.6 | 4.250 | 1.750 | 0.565 | 1.185 | 4.125 † | 3.375 |
| S25-10 | 2517 | 2.500 | 2.5 | 4.250 | 1.750 | 0.685 | 1.065 | 4.125 † | 3.375 |
| S25-16 | 2517 | 2.500 | 2.4 | 4.250 | 1.750 | 1.090 | 0.660 | 4.125 † | 3.375 |
| S30-10 | 3020 | 3.000 | 4.3 | 5.250 | 2.000 | 0.675 | 1.325 | 5.125 † | 4.250 |
| S30-16 | 3020 | 3.000 | 4.2 | 5.250 | 2.000 | 1.090 | 0.910 | 5.125 † | 4.250 |
| S35 | 3535 | 3.500 | 12.8 | 6.625 | 3.500 | 1.160 | 2.340 | 6.375 Ø | 5.000 |

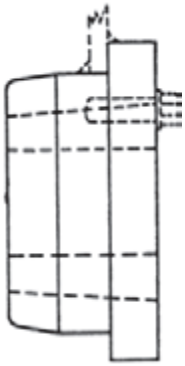



See dimension tables on preceding page for bushing data and wrench space required.

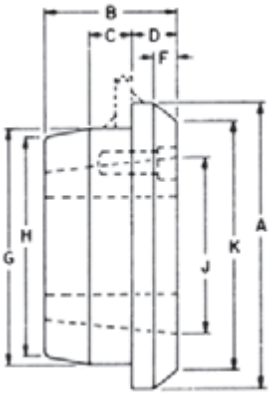
† + .000 - .002
◊ + .005 - .010
Ø + .001 - .003
▼ + .000 - .005
★★ + .010 - .010

## Type WA

Type WA weld-on hubs are made of steel, drilled, tapped, and taper bored to receive tapered bushings. They are very useful for welding into fan rotors, pulleys, plate sprockets, impellers, agitators, and many other devices which must be firmly fastened to the shaft.



| Bushing Number | For Use with Bushing Number | Max. Bore of Bushing | Weight | A | B | C | D | F | G | H | J | K |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WA12 | 1215 | 1.250 | 1 | 2.875 | 1.500 | 0.375 | 0.625 | 0.375 | 2.500 † | 2.375 | 1.875 | 2.625 |
| WA16 | 1615 | 1.625 | 2 | 3.250 | 1.500 | 0.375 | 0.625 | 0.375 | 2.875 † | 2.750 | 2.25 | 3.000 |
| WA25 | 2517 | 2.500 | 4 | 4.875 | 1.750 | 0.500 | 0.750 | 0.375 | 4.375 † | 4.250 | 3.375 | 4.625 |
| WA30 | 3030 | 3.000 | 9 | 5.500 | 3.000 | 0.750 | 0.750 | 0.250 | 5.125 † | 4.813 | 4.125 | 5.000 |
| WA35 | 3535 | 3.500 | 15 | 6.750 | 3.500 | 1.250 | 1.000 | 0.375 | 6.250 † | 5.938 | 5.000 | 6.000 |
| WA40 | 4040 | 4.000 | 29 | 7.750 | 4.000 | 1.500 | 1.000 | 0.375 | 7.250 † | 6.875 | 5.750 | 7.000 |
| WA45 | 4545 | 4.500 | 42 | 8.750 | 4.500 | 1.750 | 1.000 | 0.375 | 8.000 † | 7.625 | 6.375 | 8.000 |
| WA50 | 5050 | 5.000 | 57 | 9.500 | 5.000 | 1.750 | 1.000 | 0.375 | 8.750 • | 8.375 | 7.000 | 8.750 |
| WA60 | 6050 | 6.000 | 115 | 13.250 | 5.000 | 1.750 | 1.250 | – | 12.250 ★ | 11.875 | 9.250 | – |
| WA70 | 7060 | 7.000 | 155 | 14.500 | 6.000 | 2.250 | 1.250 | – | 13.500 ★ | 13.250 | 10.250 | – |
| WA80 | 8065 | 8.000 | 180 | 15.250 | 6.500 | 2.250 | 1.250 | – | 14.250 ★ | 14.000 | 11.250 | – |
| WA100 | 10085 | 10.000 | 340 | 19.750 | 8.500 | 3.500 | 1.500 | – | 18.750 ★ | 18.250 | 14.750 | – |




See dimension tables on proceeding page for bushing data and wrench space required.

† + .000 - .002
• + .000 - .003
★ + .000 - .004

# Taper Bushings
# Metric and Reborable

## Stock Taper Bushings With Metric Bores and Keyways

| ★ Metric Bores | ★ Metric Keyway | Taper Bushing Number | | | |
|---|---|---|---|---|---|
| 14, 16 | 5 × 2.3 | 1008 | 1108 | 1210 | |
| | | 1215 | 1610 | 1615 | |
| 18, 19 | 6 × 2.8 | 1008 | 1108 | 1210 | 1215 |
| 20, 22 | | 1610 | 1615 | 2012 | 2517 |
| 24 | 8 × 3.3 | 1108 | 1210 | 1215 | |
| | | 1610 | 1615 | 2012 | 2517 |
| 25 | 8 × 3.3 | 1210 | 1215 | 1610 | |
| | | 1615 | 2012 | 2517 | |
| 28, 30 | 8 × 3.3 | 1210 | 1215 | 1610 | |
| | | 1615 | 2012 | 2517 | 3020 |
| 32 | 10 × 3.3 | 1610 | 1615 | | |
| | | 2012 | 2517 | 3020 | |
| 35 | 10 × 3.3 | 1610 | 1615 | | |
| | | 2012 | 2517 | 3020 | |
| 38 | 10 × 3.3 | 1610 | 1615 | | |
| | | 2012 | 2517 | 3020 | |
| 40, 42 | 12 × 3.3 | 2012 | | | |
| | | 2517 | 3020 | | |
| 45, 48 | 14 × 3.8 | 2012 | | | |
| | | 2517 | 3020 | | |
| 50 | 14 × 3.8 | 2517 | 3020 | | |
| 55 | 16 × 4.3 | 2517 | 3020 | | |

★ Millimeter Bores and Keyways from ISO Std. R773. 1" = 25.4 millimeters

NOTE: For other metric bore sizes consult factory.

## Stock Reborable Taper Bushings With No Keyways

| Sintered Steel | | Gray Iron | | Steel | | Stainless Steel | |
|---|---|---|---|---|---|---|---|
| 1008 | .563 | | | 1008 | .5 | 1008 | .5 |
| 1108 | .5 | | | 1108 | .5 | 1108 | |
| 1210 | .563 | | | 1210 | .5 | 1210 | .5 |
| 1215 | .5 | | | 1215 | .5 | 1215 | |
| 1310 | .5 | | | 1310 | | 1310 | |
| 1610 | .5 1.313 | | | 1610 | .5 | 1610 | .5 |
| 1615 | .5 1.313 | | | 1615 | .5 | 1615 | |
| 2012 | .5 | | | 2012 | .5 | 2012 | .5 |
| 2517 | .5 1.563 | | | 2517 | .5 | 2517 | .5 |
| | | 2525 | 2.125 | 2525 | | 2525 | |
| 3020 | .938 1.688 | 3020 | .938 1.438 2.938 | 3020 | .938 | 3020 | .938 |
| | | 3030 | .938 2.438 2.938 | 3030 | | 3030 | |
| | | 3535 | 1.188 2.438 2.938 | 3535 | | 3535 | |
| | | 4040 | 1.438 3.438 3.938 | 4040 | | 4040 | |
| | | 4545 | 3.938 4.438 | 4545 | | 4545 | |
| | | 5050 | 2.438 3.938 | | | | |
| | | 6050 | 3.438 5.438 | | | | |
| | | 7060 | 3.938 | | | | |
| | | 8065 | 4.438 | | | | |
| | | 10085 | 7 | | | | |
| | | H120100 | 8 | | | | |

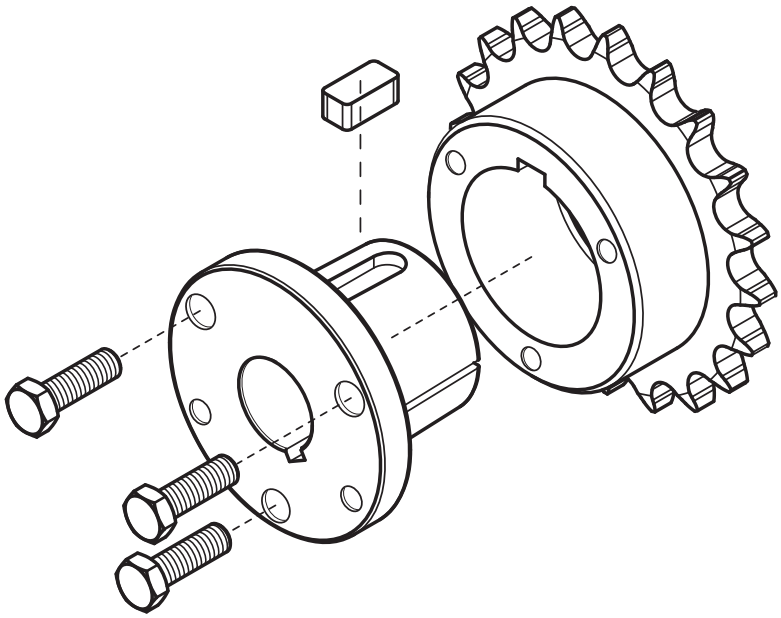
★ Not currently stocked. Consult factory for availability and pricing.

# MST® BUSHINGS INSTRUCTIONS

The MST® bushings are easy to install and remove. They are split through the barrel and have a taper to provide a true clamp on the shaft. They are keyed to both the shaft and the hub to help during “blind” installations.

**INSTALLATION**

1. Be sure the tapered cone surfaces of the bushing and the inside of the driven product are clean and free of anti-seize lubricants.
2. Place bushing in sprocket or other Martin MST® part.
3. Place cap screws loosely in pull-up holes. Bushing remains loose to assure sliding fit on shaft
4. With key on shaft, slide sprocket to desired position on shaft. Be sure heads of cap screws are accessible.
5. Align sprocket. Tighten screws alternately and progressively - until they are pulled up tight (see table below). Do not use extensions on wrench handles. Do not allow sprocket to be drawn in contact with flange of bushing. There should be a gap between bushing flange and sprocket. **CAUTION: THIS GAP MUST NOT BE CLOSED**



**REMOVAL**

1. Loosen and remove cap screws.
2. Insert cap screws in tapped removal holes.
3. Tighten inserted screws until sprocket is loose on shaft.
4. Remove sprocket from shaft.

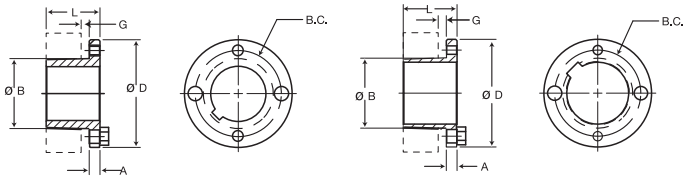
| WRENCH TORQUE VALUE FOR TIGHTENING BUSHING | | |
|---|---|---|
| MST® Bushing Size | Size of Cap Screw | Wrench Torque in/lb |
| G | 1/4 × 5/8 | 95 |
| H | 1/4 × 3/4 | 95 |
| P | 5/16 × 1 | 192 |
| Q | 3/8 × 1 1/4 | 348 |
| R | 3/8 × 1 3/4 | 348 |
| S | 1/2 × 2 1/4 | 840 |
| U | 5/8 × 2 3/4 | 1680 |
| W | 3/4 × 3 | 3000 |

**CAUTION**

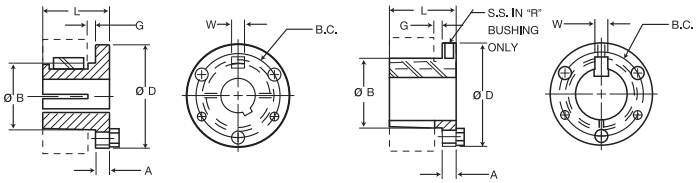
**WARNING: USE OF ANTI-SEIZE LUBRICANT ON TAPERED CONE SURFACE OR ON BOLT THREADS WHEN MOUNTING MAY RESULT IN DAMAGE TO SHEAVE AND SPROCKETS. THIS VOIDS ALL MANUFACTURER’S WARRANTIES**

**WARNING:** Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions given above must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. All rotating power transmission products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards, and good safety practice. (Refer to ANSI Standard B15.1.)

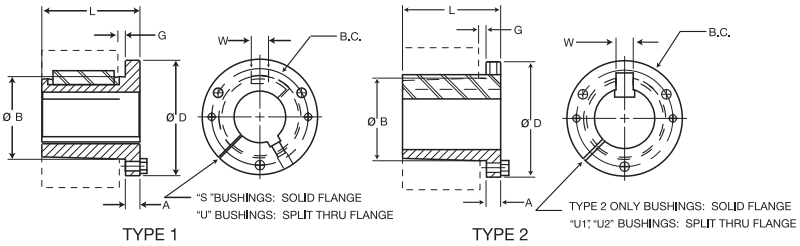
# MST® Bushings



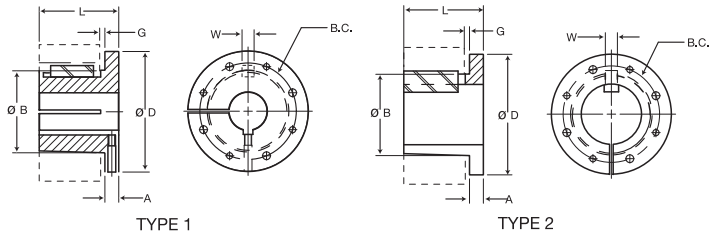

"G" & "H" BUSHINGS




"P", "Q" & "R" BUSHINGS




"S" & "U" BUSHINGS




"W" BUSHINGS

## Bushing Specifications

| Part Number | Bushing Torque Capacity (in-lb) | Dimensions | | | | | | | Stock Bore Range | | Cap Screws | | Av. Wt. (lb) | Wrench Torque In./lbs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | D | L | A | B Large End | G | B.C. | W | Type 1 | Type 2 | No. | Size | | |
| G | 1,000 | 2.000 | 1.000 | 0.250 | 1.172 | 0.190 | 1.560 | — | 0.375 - 0.938 | 1.000 | 2 | 1/4 × 5/8 | .5 | 95 |
| H | 2,500 | 2.500 | 1.250 | 0.250 | 1.625 | 0.190 | 2.000 | — | 0.375 - 1.375 | 1.438 - 1.500 | 2 | 1/4 × 3/4 | .8 | 95 |
| P1 | 8,500 | 3.000 | 1.940 | 0.410 | 1.938 | 0.220 | 2.440 | 0.375 | 0.500 - 1.438 | 1.500 - 1.750 | 3 | 5/16 × 1 | 1.3 | 192 |
| P2 | 12,000 | 3.000 | 2.940 | 0.410 | 1.938 | 0.220 | 2.440 | 0.375 | 0.750 - 1.438 | 1.500 - 1.750 | 3 | 5/16 × 1 | 1.5 | 192 |
| P3 | 14,000 | 3.000 | 4.440 | 0.410 | 1.938 | 0.220 | 2.440 | 0.375 | 1.125 - 1.375 | 1.625 | 3 | 5/16 × 1 | 2.0 | 192 |
| Q1 | 21,000 | 4.120 | 2.500 | 0.530 | 2.875 | 0.220 | 3.380 | 0.500 | 0.750 - 2.063 | 2.125 - 2.688 | 3 | 3/8 ×1 1/4 | 3.5 | 348 |
| Q2 | 26,000 | 4.120 | 3.500 | 0.530 | 2.875 | 0.220 | 3.380 | 0.500 | 1.000 - 2.063 | 2.125 - 2.625 | 3 | 3/8 ×1 1/4 | 4.5 | 348 |
| Q3 | 36,000 | 4.120 | 5.000 | 0.530 | 2.875 | 0.220 | 3.380 | 0.500 | 1.375 - 2.063 | 2.125 - 2.500 | 3 | 3/8 ×1 1/4 | 5.5 | 348 |
| R1 | 33,000 | 5.380 | 2.880 | 0.620 | 4.000 | 0.250 | 4.620 | 0.750 | 1.125 - 2.813 | 2.875 - 3.750 | 3 | 3/8 ×1 3/4 | 7.5 | 348 |
| R2 | 53,000 | 5.380 | 4.880 | 0.620 | 4.000 | 0.250 | 4.620 | 0.750 | 1.375 - 2.813 | 2.875 - 3.625 | 3 | 3/8 ×1 3/4 | 11.0 | 348 |
| S1 | 52,000 | 6.380 | 4.380 | 0.750 | 4.625 | 0.310 | 5.380 | 0.750 | 1.688 - 3.188 | 3.250 - 4.250 | 3 | 1/2 ×2 1/4 | 13.5 | 840 |
| S2 | 81,000 | 6.380 | 6.750 | 0.750 | 4.625 | 0.310 | 5.380 | 0.750 | 1.875 - 3.188 | 3.250 - 4.188 | 3 | 1/2 ×2 1/4 | 19.0 | 840 |
| U0 | 105,000 | 8.380 | 5.250 | 1.060 | 6.000 | 0.440 | 7.000 | 1.250 | 2.375 - 3.063 | — | 3 | 5/8 ×2 3/4 | 30.0 | 1680 |
| U0 | 105,000 | 8.380 | 4.940 | 0.75 | 6.000 | 0.440 | 7.000 | 1.250 | 3.250 - 4.250 | 4.375 - 5.500 | 3 | 5/8 ×2 3/4 | 27.0 | 1680 |
| U1 | 151,000 | 8.380 | 7.120 | 1.060 | 6.000 | 0.440 | 7.000 | 1.250 | 2.375 - 4.250 | 4.375 - 5.500 | 3 | 5/8 ×2 3/4 | 40.0 | 1680 |
| U2 | 215,000 | 8.380 | 10.120 | 1.060 | 6.000 | 0.440 | 7.000 | 1.250 | 2.438 - 4.250 | 4.375 - 5.000 | 3 | 5/8 ×2 3/4 | 50.0 | 1680 |
| W1 | 287,000 | 12.500 | 8.250 | 1.440 | 8.500 | 0.440 | 10.000 | 1.250 | 3.375 - 6.188 | 6.250 - 7.438 | 4 | 3/4 × 3 | 104.0 | 3000 |
| W2 | 391,000 | 12.500 | 11.250 | 1.440 | 8.500 | 0.440 | 10.000 | 1.250 | 3.375 - 6.188 | 6.250 - 7.438 | 4 | 3/4 × 3 | 133.0 | 3000 |

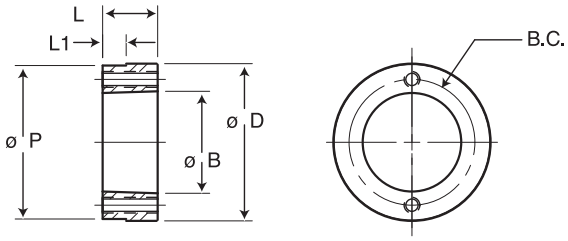
All tapers are .75" per 12" on Diameter.

All dimensions are in inches except, as noted.

All bushings are cast iron, ductile iron, sintered steel, or steel. Consult manufacturer for clarification.

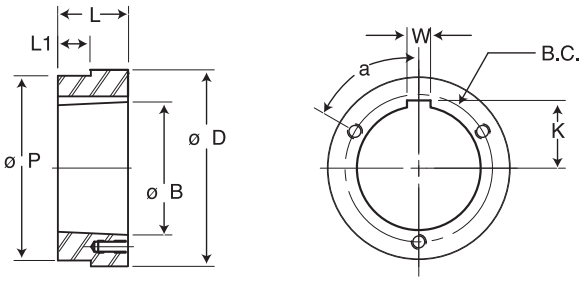
Metric bushings also available.

# MST® Weld-On Hubs

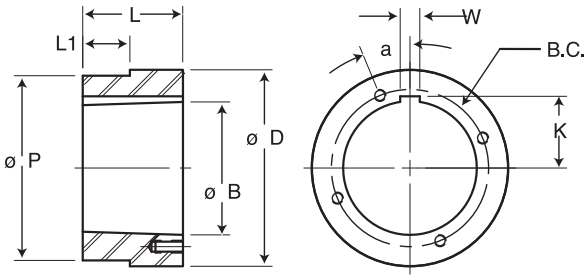



ALL TAPERS .75" PER FT.
ON DIAMETER

"H" HUBS




"P", "Q", "R", "S", Y "U" HUBS




"W" HUBS

## Bushing Specifications

| Part Number | For Bushing | Dimensions | | | | | | | | | Tapped Holes | | Wt. Lbs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | D | L | P | L1 | B | K | B.C. | W | a⁰ | No. | Size | |
| HH1 | H | 2.500 | 0.880 | 2.375 | 0.174 | 1.621 | — | 2.000 | — | — | 2 | 1/4 – 20 | .6 |
| HCH1 | H | 2.500 | 0.880 | 2.375 | 0.625 | 1.621 | — | 2.000 | — | — | 2 | 1/4 – 20 | .7 |
| HP1 | P1 | 3.000 | 1.310 | 2.875 | 0.292 | 1.938 | 1.094 | 2.438 | 0.375 | 60 | 3 | 5/16 – 18 | 1.4 |
| HCP1 | P1 | 3.000 | 1.310 | 2.875 | 1.000 | 1.938 | 1.094 | 2.438 | 0.375 | 60 | 3 | 5/16 – 18 | 1.1 |
| HP2 | P2 | 3.000 | 2.310 | 2.875 | 1.100 | 1.938 | 1.094 | 2.438 | 0.375 | 60 | 3 | 5/16 – 18 | 2.5 |
| HQ1 | Q1 | 4.500 | 1.750 | 4.375 | 0.709 | 2.875 | 1.562 | 3.375 | 0.500 | 60 | 3 | 3/8 – 16 | 4.4 |
| HCQ1 | Q1 | 4.500 | 1.750 | 4.375 | 1.250 | 2.875 | 1.562 | 3.375 | 0.500 | 60 | 3 | 3/8 – 16 | 4.4 |
| HQ2 | Q2 | 4.500 | 2.750 | 4.375 | 1.606 | 2.875 | 1.562 | 3.375 | 0.500 | 60 | 3 | 3/8 – 16 | 6.9 |
| HR1 | R1 | 5.750 | 2.000 | 5.625 | 0.709 | 4.000 | 2.188 | 4.625 | 0.750 | 60 | 3 | 3/8 – 16 | 7.3 |
| HR2 | R2 | 5.750 | 4.000 | 5.625 | 1.606 | 4.000 | 2.188 | 4.625 | 0.750 | 60 | 3 | 3/8 – 16 | 15.4 |
| HS1 | S1 | 6.750 | 3.310 | 6.500 | 0.946 | 4.625 | 2.562 | 5.375 | 0.750 | 60 | 3 | 1/2 – 13 | 17.3 |
| HS2 | S2 | 6.750 | 5.690 | 6.500 | 2.963 | 4.625 | 2.562 | 5.375 | 0.750 | 60 | 3 | 1/2 – 13 | 30.4 |
| HU0 | U0 | 8.500 | 3.750 | 8.250 | 2.000 | 6.000 | 3.250 | 7.000 | 1.250 | 60 | 3 | 5/8 – 11 | 32.0 |
| HU1 | U1 | 8.500 | 5.620 | 8.250 | 2.963 | 6.000 | 3.250 | 7.000 | 1.250 | 60 | 3 | 5/8 – 11 | 44.6 |
| HU2 | U2 | 8.500 | 8.620 | 8.250 | 6.016 | 6.000 | 3.250 | 7.000 | 1.250 | 60 | 3 | 5/8 – 11 | 69.0 |
| HW1 | W1 | 12.500 | 6.380 | 12.250 | 2.963 | 8.500 | 4.562 | 10.000 | 1.250 | 22.5 | 4 | 3/4 – 10 | 130.0 |

All tapers are .75" per 12" on Diameter.

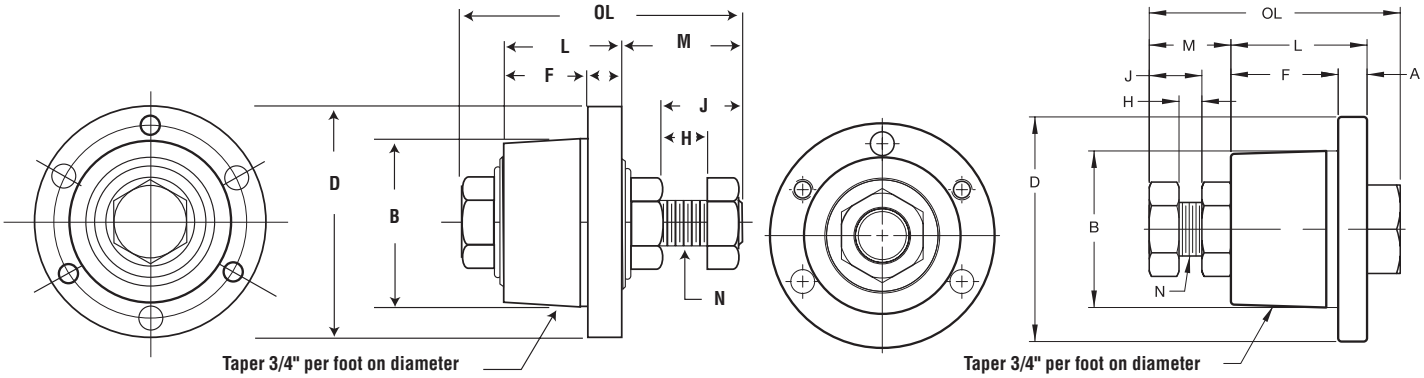
All dimensions are in inches, except as noted.

# QD and MST®
# Idler Bushings

Martin idler bushings are designed to accommodate stock v-belt drives, sprockets, timing belt pulleys, or other products that use QD or MST® type bushings.

They are equipped with two electric motor grade, permanently lubricated ball bearings, mounted on a precision shoulder bolt. Shoulder bolt and two hex jam nuts are zinc plated.

Installation is made by slipping the threaded shaft through a hole bored in support structure, and tightening the locking nut. Sheaves, sprockets, or other products can be removed without dismounting the idler bushing. Available in sizes as shown below. Boxed complete with all mounting hardware and instructions.




## QD Radial Load Ratings (lbs) 2500 Hours Service Life

| Part Number | RPM | | | | |
|---|---|---|---|---|---|
| | 100 | 500 | 1000 | 1200 | 1800 |
| SH-BB | 1260 | 740 | 580 | 540 | 480 |
| SD-BB | 1740 | 1020 | 800 | 760 | 660 |
| SK-BB | 2370 | 1360 | 1070 | 1000 | 880 |
| SF-BB | 2550 | 1500 | 1180 | 1100 | 980 |
| E-BB | 4640 | 2720 | 2140 | 2020 | 1780 |

Service Temperature Range –40° F Minimum +248° F Maximum.

## MST® Radial Load Ratings (lbs) 2500 Hours Service Life

| Part Number | RPM | | | | |
|---|---|---|---|---|---|
| | 100 | 500 | 1000 | 1200 | 1800 |
| H-BB 1/2 | 1411 | 825 | 655 | 616 | 538 |
| P1-BB 5/8 | 1752 | 1024 | 813 | 765 | 668 |
| Q1-BB 3/4 | 2344 | 1371 | 1088 | 1024 | 894 |
| Q1-BB 1 | 2555 | 1494 | 1186 | 1116 | 975 |

Service Temperature Range –40° F Minimum +248° F Maximum.

| Part Number | Dimensions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | D | F | H | J | L | M | N | OL |
| SH-BB | 0.438 | 1.871 | 2.688 | 0.750 | 0.625 | 0.938 | 1.313 | 1.313 | 0.438 | 3.063 |
| SD-BB | 0.500 | 2.187 | 3.188 | 1.250 | 0.688 | 0.688 | 1.813 | 1.563 | 0.625 | 3.875 |
| SK-BB | 0.563 | 2.812 | 3.875 | 1.250 | 0.750 | 0.813 | 1.938 | 1.750 | 0.750 | 4.563 |
| SF-BB | 0.563 | 3.125 | 4.625 | 1.250 | 0.750 | 0.938 | 2.063 | 2.125 | 0.875 | 5.000 |
| E-BB | 0.750 | 3.834 | 6.000 | 1.625 | 1.438 | 2.188 | 2.625 | 3.188 | 1.375 | 6.875 |
| H-BB 1/2 | 0.250 | 1.625 | 2.500 | 1.000 | 0.375 | 1.063 | 1.250 | 1.000 | 0.500 | 2.563 |
| P1-BB 5/8 | 0.406 | 1.937 | 3.000 | 1.531 | 0.531 | 0.922 | 1.938 | 1.313 | 0.625 | 3.641 |
| Q1-BB 3/4 | 0.531 | 2.875 | 4.125 | 1.938 | 0.313 | 0.781 | 2.500 | 1.250 | 0.750 | 4.219 |
| Q1-BB 1 | 0.531 | 2.875 | 4.125 | 1.938 | 0.281 | 0.891 | 2.500 | 1.500 | 1.000 | 4.609 |

# COUPLINGS

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# Coupling Comparison Chart

| Selection Criterion | | Coupling Type | | | | | |
|---|---|---|---|---|---|---|---|
| | | ML - Jaw | Chain | Quadra-Flex | Martin-Flex | Go-Flex | Blue-Flex |
| **Shaft Size Range** | inch | 1/8 to 2 7/8 | 7/16 to 6 1/8 | 3/8 to 5 1/2 | 3/8 to 3 1/2 | 1/2 to 11 | 1/2 to 13 |
| | mm | 4 to 73 | 12 to 160 | 9 to 140 | 9 to 90 | 12 to 280 | 12 to 330 |
| **Torque Range** | in-lbs | 3.5 to 12,500 | 1,921 to 151,622** | 78 to 72,480 | 649 to 9,076 | 377 to 1,680,000 | 460 to 1,650,000 |
| | Nm | 0.4 to 1412 | 218 to 17,135 | 8.8 to 8,190 | 73 to 1025 | 42 to 189,840 | 52 to 186,450 |
| **Maximum Angular Misalignment Capability** | | 1/2° to 1° | 2° | 2° | 4° | 2° | .25° |
| **Temperature Range** Standard Element | | -40° to 450° F | -0° to 150° F | -65° to 275° F | -45° to 180° F | -60° to 300° F | -0° to 150° F |
| | | -40° to 232° C | -17° to 65° C | -53° to 135° C | -42° to 82° C | -51° to 148° C | -17° to 65° C |
| **Reactionary Loads due to Misalignment** | | Medium | Low | Low | Medium | Low | High |
| **Torque to OD Capability** | | Good | Good | Fair | Fair | Fair | Good |
| **Speed Capability** | | Good | Good | Fair | Fair | Good | Good |
| **Torsional Stiffness** | | Low | Medium | Low | Low | Medium | Medium |
| **Ease of Installation/ Maintenance** | | Excellent | Excellent | Excellent | Excellent | Excellent | Fair |
| **Chemical Resistance** | | Good | Good | Good | Fair | Good | Fair |
| **Adaptable to Several Designs** | | Excellent | Poor | Excellent | Good | Excellent | Excellent |
| **Damping Capacity** | | Good | Poor | Excellent | Excellent | Good | Good |
| **Industry Interchangeable** | | Yes | Yes | Yes | Yes | Yes | Yes |

** MAx allowable torque below 50 RPM
*** Half-coupling ONLY

# Whatever Your Need For Couplings — Martin Has Them

**Martin Jaw Couplings**
Two complete lines of jaw couplings. One for greater horsepower and one for interchangeability.

ML — Type

MS — Type

**Martin-Flex® flexible couplings**
Smoothly transmit power while compensating for shaft misalignment to 4°, parallel misalignment to .125 and end float to .313. The two piece flange design provides quick and easy installation and the elastomeric element absorbs shock and torsional vibration through a wide temperature range.

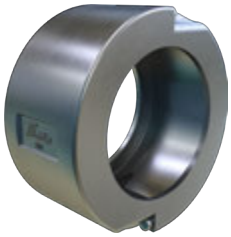
**Martin Chain Couplings**
The most complete line of chain couplings available in the industry

S/B

BS

TB

QD


Aluminum

Plastic

**Martin Quadra-Flex®**
A proven design which offers long life, torsional flexibility, ease of installation, and withstands misalignment, shock, and vibration.

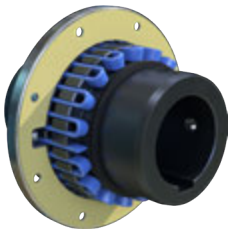
BS

QD

Spacers

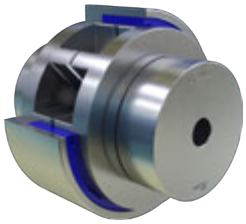
**Martin Blue-Flex® Grid Couplings**
Are the best option where both high torque levels and dampening requirements exist.

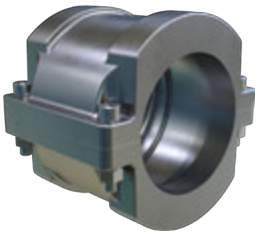
Horizontal Cover


Vertical Cover

Spacers

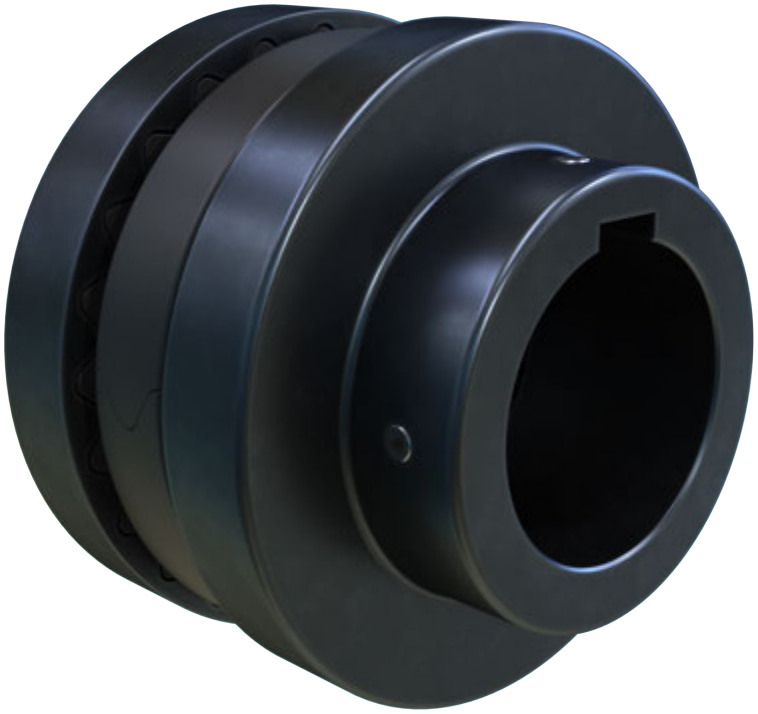
**Martin Go-Flex® Flexible Couplings**
Is one of the easiest to install, maintain, and repair!


Standard Cover


Horizontal Cover

Vertical/Split Cover

# QUADRA-FLEX® FLEXIBLE COUPLINGS

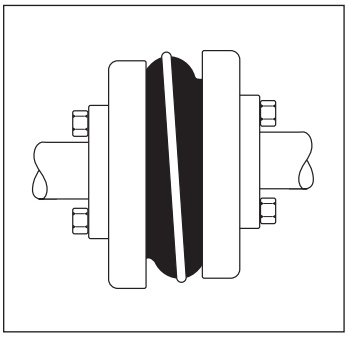


**Stocked nationwide**
**In sizes 3 through 16**

**Styles J, S, B, and**
**SC spacers**

# Quadra-Flex®
# 4-Way Flexing

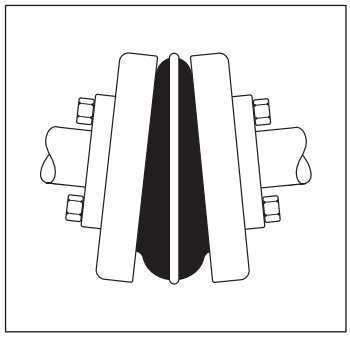
**Martin Quadra-Flex® couplings, non lubricated, maintenance free, easy and quick installation**
**Handles all combinations of shock, vibration, and misalignment**



**Parallel**

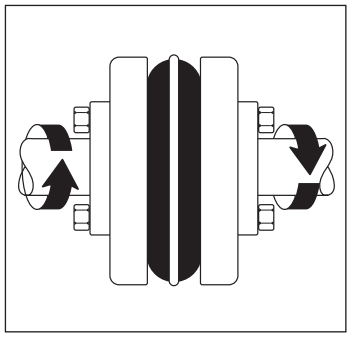
Quadra-Flex® couplings absorb parallel misalignment without wear and with minimal loss of energy.

The amount of parallel offset handled varies by size from .015 on the size 5 up to .062 on the size 16. This minimizes the radial loads on bearings when parallel misalignment occurs.



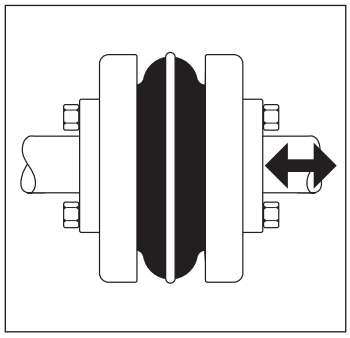
**Angular**

Due to the flexing characteristics of the sleeve and the locking action of the teeth, Quadra-Flex® couplings easily handle angular misalignment up to 1 degree without any appreciable wear.



**Torsional**

Quadra-Flex® sleeves are torsionally resilient and are well suited to absorbing shocks and dampening vibrations that would otherwise be transmitted between the equipment.



**S/B**

The axial flexibility of the sleeve allows the Quadra-Flex® coupling to accept a limited amount of end float. This serves to reduce thrust loads transferred to bearings. Quadra-Flex® units will accept axial movement of approximately .125.

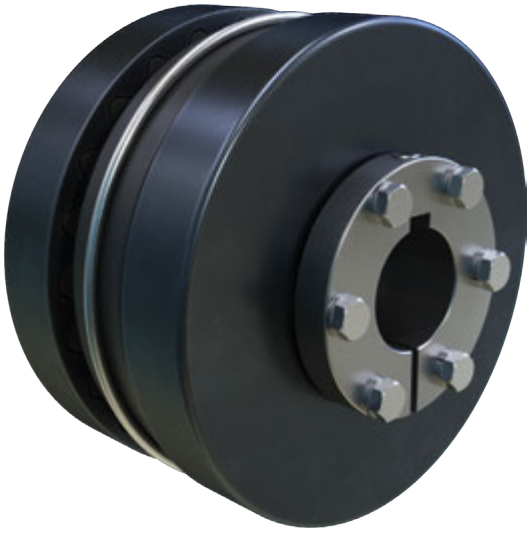
# Available in Three Styles

## Type J and S Flanges

Bored-to-size flanges are manufactured for a slip fit on standard shafting. Available from stock in a wide range of shaft sizes.

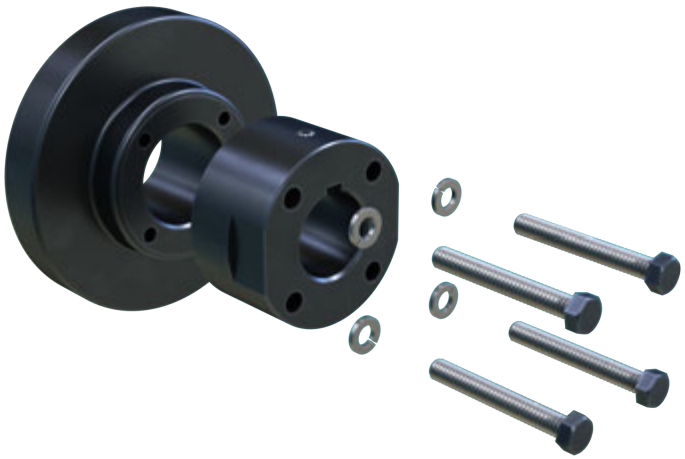
## Available in Three Styles

Manufactured from high strength cast iron to fit standard QD bushings in sizes 6 thru 16.



## Fast Coupling Disassembly

Martin offers the first true drop-out spacer assembly for the 4JSC spacer coupling. The center portion of the spacer can be taken out, just as in the 5SC thru 14SC, by simply removing four cap screws in each hub. The couplings center section can then be lifted out and the pump gaskets exposed. Flats on the spacer hubs facilitate turning shafts with a wrench.



## Type SC Spacer Flange

Quadra-Flex® SC spacer couplings feature all standard spacing requirements for the pump industry. Spacer sizes range from sizes 4 thru 14.

# Quadra-Flex® Nomenclature

| Type | Description |
|---|---|
| J ★ | SINTERED STEEL, BORED-TO-SIZE |
| S | CAST IRON, BORED-TO-SIZE |
| B | CAST IRON, QD BUSHED |
| SC | SPACER COUPLING FLANGES |

★ #6 Currently Supplied in Cast Iron

## Hubs — (For SC flanges)

| Type | Description |
|---|---|
| H | REGULAR LENGTH |
| HS | SHORT LENGTH |

## Sleeves

| Type | Description |
|---|---|
| JEM | TPR – 1-PIECE SOLID, THERMOPLASTIC |
| JEMS | TPR – 1-PIECE SPLIT, THERMOPLASTIC |
| EM | TPR – 2-PIECE W/RETAINING RING |
| E | EPDM – 2-PIECE W/RETAINING RING |
| N | NEOPRENE – 2-PIECE W/RETAINING RING |
| H | HYTREL – 1-PIECE SOLID |
| HS | HYTREL – 2-PIECE |

Quadra-Flex® couplings come in a variety of styles and designs to meet specific customer needs. These include flanges and sleeves of various types and materials. The total product line includes 13 sizes varying in torque ratings up to 72,000 in-lbs.

When ordering Quadra-Flex® couplings, the following basic procedure should help expedite order processing. For coupling flanges, give the basic coupling size, then the letter for the type flange followed by the bore size required. For coupling sleeves, give the coupling size followed by the letter(s) designating the type and material required. (See above)

The following are various examples for reference:

Example: Type J Flange

| | Size | Flange | Bore |
|---|---|---|---|
| 5J × .75 | 5 | J | .75 |
| 7S × 30mm | 7 | S | 30mm |

(**Note:** Bored-to-size flanges are furnished with standard keyway and 2 setscrews unless specified otherwise.)

**Example:** Type B Flange

| | Size | Flange | Bushing |
|---|---|---|---|
| 8B — SH | 8 | B | SH |

(Note: The SH bushing with required bore size should be specified separately.)

**Example:** Sleeves

| | Size | Style and Material |
|---|---|---|
| 8JEM | 8 | Solid, TPR |
| 13E | 13 | 2 Piece, EPDM |

(Note: Unless specified, TPR (3 thru 12) or EPDM (13 thru 16) will be supplied.)

**Example:** Complete spacer coupling

| | | |
|---|---|---|
| 1 | 6EM | (6 TPR 2 Piece Sleeve) |
| 2 | 6sc35 | (Flanges for 3.5 dropout) |
| 1 | 6H × 1 | (6 Spacer Hub for 1 Bore) |
| 1 | 6H × 1.125 | (6 Spacer Hub for 1.125 Bore) |

# Sleeve Selection

Quadra-Flex® coupling sleeves are available in four different types of compounds. These include TPR (Thermoplastic Rubber) in types JEM, JEMS, EM; EPDM Rubber in type E; Neoprene in type N; Hytrel in type H and HS. To determine the sleeve best suited for the application, the material characteristics are given below.

## TPR
**(Sizes 3-12)**

Quadra-Flex® couplings are usually supplied with TPR sleeves in sizes 3-12. TPR is a general use sleeve which combines the characteristics of both EPDM and Neoprene into one. These sleeves operate within a temperature range from -50° F to +275° F (-46° C to +135° C). Torsional flexibility is 15°.

## EPDM
**(Sizes 13-16)**

Quadra-Flex® couplings are usually supplied with EPDM rubber sleeves in sizes 13-16. EPDM is a general use sleeve and can operate within a temperature range from -30° F to +275° F (-34° C to +135° C). Torsional flexibility is 15°.

## NEOPRENE
**(Sizes 11-16)**

Neoprene flexible sleeves are also available in sizes 11-14. These sleeves offer a higher resistance than EPDM and are self-extinguishing. Operating temperature range for this sleeve is 0° F to +200° F (-18° C to +93° C). Torsional flexibility is 15°.

## *HYTREL®
**(Sizes 6-14)**

Hytrel sleeves are molded specifically for high torque applications. The type H will transmit approximately four times as much power as an equivalent TPR, EPDM, or Neoprene sleeve. Hytrel has an operating temperature from -65° F to +250° F (-54° C to +121° C). Torsional flexibility is 7°.

Note: Do not use a Hytrel sleeve as a replacement for a TPR, EPDM, or Neoprene sleeve.

## Sleeve Chemical Resistance

| Resistance To: | TPR | EPDM | Neoprene | Hytrel ★ |
|---|---|---|---|---|
| Acetone | A | A | B | B |
| Ammonia, Anhydrous | B | T | A | N |
| Ammonium Hydroxide Solutions | T | A | A(158F) | T |
| ASTM hydrocarbon test fluid | N | C | X | A |
| ASTM oil no. 1 | B | C | A | A |
| ASTM oil no. 3 | B | C | B(158F) | A |
| ASTM reference fuel A | B | C | A | A |
| ASTM reference fuel B | B | C | C | A |
| ASTM reference fuel C | B | X | C | B |
| Benzene | C | C | C | B |
| Butane | B | B | A | A |
| Carbon Tetrachloride | X | C | C | C |
| Chlorobenzene | C | X | X | X |
| Chloroform | X | C | C | C |
| Chromic Acid, 10-50% | T | T | C | N |
| Dowtherm A Solvent | X | N | B | N |
| Ethyl Alcohol | A | A | A(158F) | A |
| Ethylene Glycol | A | A | A(158F) | A |
| Fuel Oil | B | X | A | A |
| Gasoline | B | B-C | B | A |
| Glycerine | A | T | A(158F) | A |
| Hydraulic Oils | B | N | A | A |
| Hydrochloric Acid, 20% | A | T | A | B |
| Hydrogen Peroxide, 881/2% | N | T | B | T |
| Isopropyl | A | T | A | A |

| Resistance To: | TPR | EPDM | Neoprene | Hytrel ★ |
|---|---|---|---|---|
| Kerosene | B | X | B | T |
| Lacquer Solvents | T | ... | C | B |
| Lubricating Oils | B | X | B(158F) | A |
| Methyl Alcohol | A | T | A(158F) | A |
| Mineral Oil | B | X | A | A |
| Naphtha | B | C | C | A |
| Nitric Acid, 10% | A | T | B | B |
| Nitrobenzene | T | A | C | C |
| Phenol | T | T | B | C |
| Phosphoric Acid, 20% | A | T | T | N |
| Phosphate Esters | A | A | C | A |
| Pickling Solution (20% Nitric Acid, 4% HF) | N | X | B-C | X |
| Soap Solutions | A | T | A(158F) | A |
| Sodium Hydroxide, 20% | A | A | A | A |
| Stearic Acid | T | T | B(158F) | T |
| Sulfuric Acid, up to 50% | A | T | A(158F) | A |
| Sulfuric Acid, up to 80% | A | T | B-C | C |
| Tannic Acid, 10% | T | T | A | T |
| Toluene | C | C | C | B |
| Trichloroethylene | C | X | C | C |
| Turpentine | B | C | C | N |
| Water | A | A(158F) | A(212F) | A(158F) |
| Xylene | C | C | X | B |

A — Fluid has little or no effect
B — Fluid has minor to moderate effect
C — Fluid has severe effect
N — No evaluation has been attempted.
T — No data; likely to be compatible
X — No data; not likely to be compatible

*Hytrel is a Registered Trademark of Dupont

# Selection Procedure

**When the driver is an electric motor with standard speed.**

**Step 1.** Determine Service Factor (SF) Symbol based on equipment listed on page C-10.

**Step 2.** Determine proper Service Factor from chart at top of page C-10.

**Step 3.** Refer to page C-12 and C-13 for proper selection of coupling. Based on chemical resistance and operating environment found on page C-8, select from chart the type of sleeve material. Find RPM of motor, then, in the column for service factor determined in Step 2, read down to the corresponding horsepower of motor being used as the driver. The number listed is the correct coupling size.

**Example:** A coupling is needed to connect a 25 HP standard electric motor to a lumber log haul at 1750 RPM.
1. Service Factor Symbol — H
2. Service Factor — 2.0
3. Coupling Size — 9 with TPR sleeve or 6 with Hytrel Sleeve

**Step 4.** Select flanges from pages C-15 thru C-19, check coupling bore size range for proper shaft fit.

★ **NOTE: Do not oversize coupling hub — will cause premature wear of element.**

When the driver is other than an electric motor or the speeds are different than those shown in the chart on page C-11.

**Step 1.** Follow steps 1 and 2 in previous procedure.

**Step 2.** Calculate Horsepower at 100 RPM as follows:

$$\text{HP at 100 RPM} = \frac{\text{HP} \times \text{Service Factor} \times 100}{\text{Coupling RPM}}$$

**Step 3.** Select coupling size from Tables A or C. Find a HP equal to or greater than the HP/100 RPM

Step 4. Check Maximum bore to be sure that both shaft sizes do not exceed figure listed for size selected in step 4. If maximum is exceeded select the next largest size which will allow for bore size. Do not exceed maximum RPM for new size selected.

**Example:** A bucket elevator is driven by a motor/reducer and requires a coupling to transmit 14 HP at 1300 RPM.
1. Service Factor Symbol — M
2. Service Factor — 1.5
3. HP at 100 RPM = $\frac{14 \times 1.5 \times 100}{1300}$ = 1.61 HP/100 RPM
4. Refer to page C-11; under column for 100 RPM the required 1.61 HP falls between the size 7 (1.2) and the size 8 (1.8). Correct selection is size 8 with TPR sleeve. Check bore sizes for flanges on pages C-15 thru C-19.

## Maximum RPM and Allowable Misalignment

| Size | Maximum RPM | Types JEM, JEMS, EM, E and N | | Types H and HS | |
|---|---|---|---|---|---|
| | | Parallel | Angular | Parallel | Angular |
| 3 | 9200 | 0.010 | 0.035 | — | — |
| 4 | 7600 | 0.010 | 0.043 | — | — |
| 5 | 7600 | 0.015 | 0.056 | — | — |
| 6 | 6000 | 0.015 | 0.070 | 0.010 | 0.016 |
| 7 | 5250 | 0.020 | 0.081 | 0.012 | 0.020 |
| 8 | 4500 | 0.020 | 0.094 | 0.015 | 0.025 |
| 9 | 3750 | 0.025 | 0.109 | 0.017 | 0.028 |
| 10 | 3600 | 0.025 | 0.128 | 0.020 | 0.032 |
| 11 | 3600 | 0.032 | 0.151 | 0.022 | 0.037 |
| 12 | 2800 | 0.032 | 0.175 | 0.025 | 0.042 |
| 13 | 2400 | 0.040 | 0.195 | 0.030 | 0.050 |
| 14 | 2200 | 0.045 | 0.242 | 0.035 | 0.060 |
| 16 | 1500 | 0.062 | 0.330 | — | — |

Note: Values shown above apply if the actual torque transmitted is more than 1/4 the coupling rating. For lesser torque, reduce the above values by .5.

# Service Factors

## Service Factors For Quadra-Flex® Couplings

| Service Factor Symbol | Electric Motor Standard Torque | Electric Motor High Torque | Turbines | Reciprocating Engines |
|---|---|---|---|---|
| L (LIGHT) | 1.25 | 1.5 | 1.0 | 1.5 |
| M (MEDIUM) | 1.5 | 2.0 | 1.25 | 2.0 |
| H (HEAVY) | 2.0 | 2.5 | 1.5 | 2.5 |

## Table 1

| Application | SF Symbol |
|---|---|
| AGITATORS - Paddle, Propeller, Screw | L |
| BAND RESAW | M |
| BARGE HAUL PULLER | H |
| BARKING (Lumber) | H |
| BAR SCREEN (sewage) | L |
| BATCHES (textile) | L |
| BEATER AND PULPER (paper) | M |
| BENDING ROLL (metal) | M |
| BLEACHER (paper) | L |
| BLOWERS | |
| Centrifugal, Vane | L |
| Lobe | M |
| BOTTLING MACHINERY | L |
| BREW KETTLES (distilling) | L |
| BUCKET ELEVATOR OR CONVEYOR | M |
| CALENDERS | |
| Calender (paper) | M |
| Calender-super (paper, rubber) | H |
| CANE KNIVES (sugar) | M |
| CARD MACHINE (textile) | H |
| CAR DUMPERS | H |
| CEMENT KILN | H |
| CENTRIFUGAL BLOWERS | |
| COMPRESSORS, FANS or PUMPS | L |
| CHEMICAL FEEDERS (sewage) | L |
| CHILLER (oil) | M |
| CHIPPER (paper) | H |
| CIRCULAR RESAW | M |
| CLARIFIER or CLASSIFIER | L |
| CLAY WORKING MACHINERY | M |
| COLLECTORS (sewage) | L |
| COMPRESSORS | |
| Centrifugal | L |
| Reciprocating | * |
| Screw, Lobe | L |
| CONCRETE MIXERS | M |
| CONVERTING MACHINE (paper) | M |
| CONVEYORS | |
| Apron, Assembly Belt, Flight | L |
| Oven, Screw | L |
| Bucket | M |
| COOKERS- Brewing, Distilling, Food | L |
| COOLING TOWER FANS | H |
| COUCH (paper) | M |
| CRANES AND HOISTS | M |
| Heavy Duty Mine | H |
| CRUSHERS — Cane (sugar), Stone, Ore | H |
| CUTTER — Paper | H |
| CYLINDER (paper) | H |
| DEWATERING SCREEN (sewage) | M |

| Application | SF Symbols |
|---|---|
| DISC FEEDER | L |
| DOUGH MIXER | M |
| DRAW BENCH CONVEYOR AND Main Drive | H |
| DREDGES | |
| Cable Reel, Pumps | M |
| Cutter Head Drive, Jig Drive | H |
| Screen Drive | H |
| Maneuvering and Utility Winch | M |
| Stacker | M |
| DYNAMOMETER | L |
| DRYERS (rotary) | M |
| EDGER (lumber) | H |
| ELEVATORS | |
| Bucket | M |
| Escalator | L |
| Freight, Passenger, Service, Man Lift | H |
| ESCALATORS | L |
| EXTRUDER (metal) | H |
| FANS | |
| Centrifugal | L |
| Cooling Tower | H |
| Forced Draft, Large Industrial, Mine | M |
| FEEDERS | |
| Apron, Belt, Disc | L |
| Reciprocating | H |
| Screw | M |
| FILTER, PRESS-OIL | M |
| GENERATORS | |
| Uniform load | L |
| Varying load, Holst | M |
| Welders | H |
| GRIT COLLECTOR (sewage) | L |
| GRIZZLY | H |
| HAMMERMILL | |
| Light Duty, Intermittent | M |
| Heavy Duty, Continuous | H |
| HOISTS | |
| Heavy Duty | H |
| Medium Duty | M |
| JORDAN (paper) | H |
| KILN, ROTARY | H |
| LAUNDRY WASHER or TUMBLER | H |
| LINE SHAFTS | L |
| LOG HAUL (lumber) | H |
| LOOM (textile) | M |
| MACHINE TOOLS, MAIN DRIVE | M |
| MANGLE (textile) | L |
| MASH TUBS (distilling) | L |
| MEAT GRINDER | M |
| METAL FORMING MACHINES | M |

| Application | SF Symbols |
|---|---|
| MILLS | |
| Ball, Pebble, Rod, Tube | H |
| Rubber, Tumbling | H |
| Dryer and Cooler | M |
| MIXER | |
| Concrete, Muller | M |
| Banbury | H |
| ORE CRUSHER | H |
| OVEN CONVEYOR | L |
| PLANER (metal or wood) | M |
| PRESSES | |
| Brick, Brlquette Machine | H |
| Notchlng, Paper, Punch, Printing | M |
| PUG MILL | M |
| PULP GRINDER (paper) | H |
| PULVERIZERS | |
| Hammermill — light duty, Roller | M |
| Hammermill — heavy duty, Hog | H |
| PUMPS | |
| Centrifugal, Axial | L |
| Gear, Lobe, Vane | M |
| Reciprocating — sgl. or dbl. acting | * |
| REEL, REWINDER (paper) CABLE | M |
| ROD MILL | H |
| SAWDUST CONVEYOR | L |
| SCREENS | |
| Air Washing, Water | L |
| Rotary for coal or sand | M |
| Vibrating | H |
| SCREW CONVEYOR | L |
| SLAB CONVEYOR (lumber) | M |
| SLITTERS (metal) | M |
| SOAPERS (textile) | L |
| SORTING TABLE (lumber) | M |
| SPINNER (textile) | M |
| STOKER | L |
| SUCTION ROLL (paper) | M |
| TENTER FRAMES (textile) | M |
| TIRE BUILDING MACHINES | H |
| TIRE AND TUBE PRESS OPENER | L |
| TUMBLING BARRELS | H |
| WASHER and THICKENER (paper) | M |
| WINCHES | M |
| WINDERS, Paper, Textile, Wire | M |
| WINDLASS | M |
| WIRE | |
| Drawing | H |
| Winding | M |
| WOODWORKING MACHINERY | L |

# Coupling Rating

## Table 2A — Thermoplastic Rubber (TPR), EPDM and Neoprene

| Coupling Size | Sleeve Construction | Basic HP Rating Per Given RPM | | | | | Rated Torque (in-lb) | Torsional • Stiffness Factor (in-lb/radians) | Maximum RPM |
|---|---|---|---|---|---|---|---|---|---|
| | | 100 | 860 | 1160 | 1750 | 3500 | | | |
| 3 | TPR | 0.12 | 1.1 | 1.4 | 2.2 | 4.3 | 78 | 229 | 9200 |
| 4 | TPR | 0.25 | 2.1 | 2.9 | 4.3 | 8.7 | 156 | 458 | 7600 |
| 5 | TPR | 0.50 | 4.3 | 5.7 | 8.7 | 17 | 312 | 916 | 7600 |
| 6 | TPR | 0.93 | 8 | 11 | 16 | 32 | 585 | 1718 | 6000 |
| 7 | TPR | 1.5 | 13 | 17 | 26 | 52 | 940 | 2769 | 5250 |
| 8 | TPR | 2.3 | 20 | 27 | 41 | 82 | 1475 | 4335 | 4500 |
| 9 | TPR | 3.7 | 32 | 43 | 65 | 130 | 2340 | 6875 | 3750 |
| 10 | TPR | 5.9 | 51 | 69 | 104 | 207 | 3735 | 10980 | 3600 |
| 11 | TPR | 9.3 | 80 | 108 | 164 | 327 | 5890 | 17300 | 3600 |
| 12 | TPR | 15 | 128 | 172 | 260 | - | 9360 | 27500 | 2800 |
| 13 | EPDM and Neoprene | 23 | 201 | 271 | 410 | - | 14750 | 43350 | 2400 |
| 14 | EPDM and Neoprene | 37 | 319 | 431 | 650 | - | 23400 | 68755 | 2200 |
| 16 | EPDM | 75 | 645 | 870 | - | - | 47250 | 180480 | 1500 |

## Table 2C — Hytrel

| Coupling Size | Sleeve Construction | Basic HP Rating Per Given RPM | | | | | Rated Torque (in-lb) | Torsional • Stiffness Factor (in-lb/radians) | Maximum RPM |
|---|---|---|---|---|---|---|---|---|---|
| | | 100 | 860 | 1160 | 1750 | 3500 | | | |
| 3★ | HYTREL | - | - | - | - | - | - | - | - |
| 4★ | HYTREL | - | - | - | - | - | - | - | - |
| 5★ | HYTREL | - | - | - | - | - | - | - | - |
| 6 | HYTREL | 2.90 | 25 | 33 | 50 | 100 | 1800 | 10000 | 6000 |
| 7 | HYTREL | 4.6 | 39 | 53 | 80 | 160 | 2875 | 20000 | 5250 |
| 8 | HYTREL | 7.2 | 62 | 83 | 126 | 252 | 4530 | 30000 | 4500 |
| 9 | HYTREL | 11.4 | 98 | 133 | 200 | 400 | 7200 | 47500 | 3750 |
| 10 | HYTREL | 18 | 155 | 209 | 315 | 630 | 11350 | 100000 | 3600 |
| 11 | HYTREL | 29 | 246 | 331 | 500 | 1000 | 18000 | 125000 | 3600 |
| 12 | HYTREL | 50 | 430 | 580 | 875 | - | 31500 | 225000 | 2800 |
| 13 | HYTREL | 75 | 645 | 870 | 1312 | - | 47268 | 368900 | 2400 |
| 14 | HYTREL | 115 | 989 | 1334 | 2013 | - | 72480 | 593250 | 2200 |

★ Hytrel sleeves are available on a made-to-order basis, Consult factory.
• Values shown are for an ambient temperature of 75° F (24° C)

# Sleeve Selection Chart

## Selection Chart for TPR[1], EPDM, and Neoprene Sleeves

| HP | 860 RPM Motor | | | | | 1160 RPM Motor | | | | | 1750 RPM Motor | | | | | 3500 RPM Motor | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Service Factor | | | | | Service Factor | | | | | Service Factor | | | | | Service Factor | | | | |
| | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 |
| .5 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | — | — | — | — | — |
| .75 | 3 | 4 | 4 | 4 | 5 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 |
| 1 | 4 | 4 | 4 | 5 | 5 | 3 | 4 | 4 | 4 | 5 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 |
| 1.5 | 4 | 5 | 5 | 5 | 6 | 4 | 4 | 5 | 5 | 5 | 3 | 4 | 4 | 4 | 5 | 3 | 3 | 3 | 3 | 4 |
| 2 | 5 | 5 | 5 | 6 | 6 | 4 | 5 | 5 | 5 | 6 | 4 | 4 | 4 | 5 | 5 | 3 | 3 | 3 | 4 | 4 |
| 3 | 5 | 6 | 6 | 6 | 7 | 5 | 5 | 6 | 6 | 6 | 4 | 5 | 5 | 5 | 6 | 3 | 4 | 4 | 4 | 5 |
| 5 | 6 | 6 | 7 | 7 | 8 | 6 | 6 | 6 | 7 | 7 | 5 | 5 | 6 | 6 | 6 | 4 | 4 | 5 | 5 | 5 |
| 7.5 | 7 | 7 | 8 | 8 | 9 | 6 | 7 | 7 | 8 | 8 | 6 | 6 | 6 | 7 | 7 | 5 | 5 | 5 | 6 | 6 |
| 10 | 7 | 8 | 8 | 9 | 9 | 7 | 7 | 8 | 8 | 9 | 6 | 6 | 7 | 7 | 8 | 5 | 5 | 6 | 6 | 6 |
| 15 | 8 | 9 | 9 | 10 | 10 | 8 | 8 | 9 | 9 | 10 | 7 | 7 | 8 | 8 | 9 | 6 | 6 | 6 | 7 | 7 |
| 20 | 9 | 9 | 10 | 10 | 11 | 8 | 9 | 9 | 10 | 10 | 7 | 8 | 8 | 9 | 9 | 6 | 6 | 7 | 7 | 8 |
| 25 | 9 | 10 | 10 | 11 | 11 | 9 | 9 | 10 | 10 | 11 | 8 | 8 | 9 | 9 | 10 | 6 | 7 | 7 | 8 | 8 |
| 30 | 10 | 10 | 11 | 11 | 12 | 9 | 10 | 10 | 11 | 11 | 8 | 9 | 9 | 10 | 10 | 7 | 7 | 8 | 8 | 9 |
| 40 | 10 | 11 | 11 | 12 | 12 | 10 | 10 | 11 | 11 | 12 | 9 | 9 | 10 | 10 | 11 | 7 | 8 | 8 | 9 | 9 |
| 50 | 11 | 11 | 12 | 12 | 13 | 10 | 11 | 11 | 12 | 12 | 9 | 10 | 10 | 11 | 11 | 8 | 8 | 9 | 9 | 10 |
| 60 | 11 | 12 | 12 | 13 | 13 | 11 | 11 | 12 | 12 | 13 | 10 | 10 | 11 | 11 | 12 | 8 | 9 | 9 | 10 | 10 |
| 75 | 12 | 12 | 13 | 13 | 14 | 11 | 12 | 12 | 13 | 13 | 10 | 11 | 11 | 12 | 12 | 9 | 9 | 10 | 10 | 11 |
| 100 | 12 | 13 | 13 | 14 | 14 | 12 | 12 | 13 | 13 | 14 | 11 | 11 | 12 | 12 | 13 | 9 | 10 | 10 | 11 | 11 |
| 125 | 13 | 13 | 14 | 14 | — | 12 | 13 | 13 | 14 | 14 | 11 | 12 | 12 | 13 | 13 | 10 | 10 | 11 | 11 | — |
| 150 | 13 | 14 | 14 | 16 | 16 | 13 | 13 | 14 | 14 | 16 | 12 | 12 | 13 | 13 | 14 | 10 | 11 | 11 | — | — |
| 200 | 14 | 14 | 16 | 16 | 16 | 13 | 14 | 14 | 16 | 16 | 12 | 13 | 13 | 14 | 14 | 11 | 11 | — | — | — |
| 250 | 14 | 16 | 16 | 16 | 16 | 14 | 14 | 16 | 16 | 16 | 13 | 13 | 14 | 14 | — | 11 | — | — | — | — |
| 300 | 16 | 16 | 16 | 16 | — | 14 | 16 | 16 | 16 | 16 | 13 | 14 | 14 | — | — | — | — | — | — | — |
| 350 | 16 | 16 | 16 | — | — | 16 | 16 | 16 | 16 | 16 | 14 | 14 | — | — | — | — | — | — | — | — |
| 400 | 16 | 16 | 16 | — | — | 16 | 16 | 16 | 16 | — | 14 | 14 | — | — | — | — | — | — | — | — |
| 450 | 16 | 16 | — | — | — | 16 | 16 | 16 | — | — | 14 | — | — | — | — | — | — | — | — | — |
| 500 | 16 | 16 | — | — | — | 16 | 16 | 16 | — | — | 14 | — | — | — | — | — | — | — | — | — |
| 600 | 16 | — | — | — | — | 16 | 16 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 700 | — | — | — | — | — | 16 | 16 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 800 | — | — | — | — | — | 16 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

[1] Thermoplastic Rubber

Caution: Applications involving reciprocating engines and reciprocating driven devices are subject to critical rotational speeds which may damage the coupling and/or connected equipment. Contact factory with specific requirements.

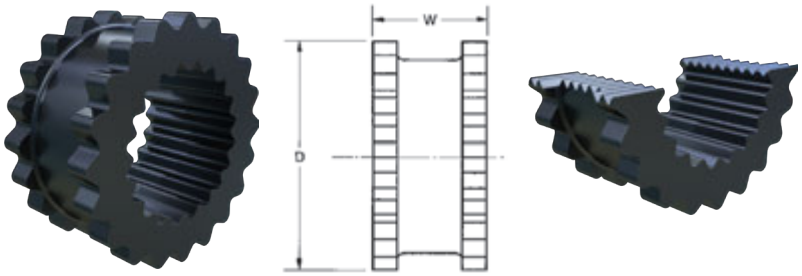
# Hytrel Selection Chart

## Selection Chart for Hytrel Sleeves

| HP | 860 RPM Motor | | | | | 1160 RPM Motor | | | | | 1750 RPM Motor | | | | | 3500 RPM Motor | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Service Factor | | | | | Service Factor | | | | | Service Factor | | | | | Service Factor | | | | |
| | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 |
| 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1.5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 7.5 | 6H | 6H | 6H | 6H | 6H | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 10 | 6H | 6H | 6H | 6H | 6H | 6H | 6H | 6H | 6H | 6H | — | — | — | — | — | — | — | — | — | — |
| 15 | 6H | 6H | 6H | 7H | 7H | 6H | 6H | 6H | 6H | 7H | 6H | 6H | 6H | 6H | 6H | — | — | — | — | — |
| 20 | 6H | 6H | 7H | 7H | 8H | 6H | 6H | 6H | 7H | 7H | 6H | 6H | 6H | 6H | 6H | — | — | — | — | — |
| 25 | 6H | 7H | 7H | 8H | 8H | 6H | 6H | 7H | 7H | 8H | 6H | 6H | 6H | 6H | 7H | — | — | — | — | — |
| 30 | 7H | 7H | 8H | 8H | 9H | 6H | 7H | 7H | 8H | 8H | 6H | 6H | 6H | 7H | 7H | 6H | 6H | 6H | 6H | 6H |
| 40 | 7H | 8H | 8H | 9H | 9H | 7H | 7H | 8H | 8H | 9H | 6H | 6H | 7H | 7H | 8H | 6H | 6H | 6H | 6H | 6H |
| 50 | 8H | 8H | 9H | 9H | 10H | 7H | 8H | 8H | 9H | 9H | 6H | 7H | 7H | 8H | 8H | 6H | 6H | 6H | 6H | 7H |
| 60 | 8H | 9H | 9H | 10H | 10H | 8H | 8H | 9H | 9H | 10H | 7H | 7H | 8H | 8H | 9H | 6H | 6H | 6H | 7H | 7H |
| 75 | 9H | 9H | 10H | 10H | 11H | 8H | 9H | 9H | 10H | 10H | 7H | 8H | 8H | 9H | 9H | 6H | 6H | 7H | 7H | 8H |
| 100 | 9H | 10H | 10H | 11H | 11H | 9H | 9H | 10H | 10H | 11H | 8H | 8H | 9H | 9H | 10H | 6H | 7H | 7H | 8H | 8H |
| 125 | 10H | 10H | 11H | 11H | 12H | 9H | 10H | 10H | 11H | 11H | 8H | 9H | 9H | 10H | 10H | 7H | 7H | 8H | 8H | 9H |
| 150 | 10H | 11H | 11H | 12H | 12H | 10H | 10H | 11H | 11H | 12H | 9H | 9H | 10H | 10H | 11H | 7H | 8H | 8H | 9H | 9H |
| 200 | 11H | 11H | 12H | 12H | 13H | 10H | 11H | 11H | 12H | 12H | 9H | 10H | 10H | 11H | 11H | 8H | 8H | 9H | 9H | 10H |
| 250 | 11H | 12H | 12H | 13H | 13H | 11H | 11H | 12H | 12H | 13H | 10H | 10H | 11H | 11H | 12H | 8H | 9H | 9H | 10H | 10H |
| 300 | 12H | 12H | 13H | 13H | 14H | 11H | 12H | 12H | 13H | 13H | 10H | 11H | 11H | 12H | 12H | 9H | 9H | 10H | 10H | 11H |
| 350 | 12H | 12H | 13H | 14H | 14H | 12H | 12H | 12H | 13H | 14H | 11H | 11H | 12H | 12H | 12H | 9H | 10H | 10H | 11H | 11H |
| 400 | 12H | 13H | 13H | 14H | 14H | 12H | 12H | 13H | 13H | 14H | 11H | 11H | 12H | 12H | 13H | 9H | 10H | 10H | 11H | 11H |
| 500 | 13H | 13H | 14H | 14H | — | 12H | 13H | 13H | 14H | 14H | 11H | 12H | 12H | 13H | 13H | 10H | 10H | 11H | 11H | — |
| 600 | 13H | 14H | 14H | — | — | 13H | 13H | 13H | 14H | — | 12H | 12H | 13H | 13H | 14H | 10H | 11H | 11H | — | — |
| 700 | 14H | 14H | — | — | — | 13H | 13H | 14H | 14H | — | 12H | 12H | 13H | 14H | 14H | 11H | 11H | — | — | — |
| 800 | 14H | 14H | — | — | — | 13H | 14H | 14H | — | — | 12H | 13H | 13H | 14H | 14H | 11H | 11H | — | — | — |
| 900 | 14H | — | — | — | — | 14H | 14H | 14H | — | — | 13H | 13H | 14H | 14H | — | 11H | — | — | — | — |
| 1000 | — | — | — | — | — | 14H | 14H | — | — | — | 13H | 13H | 14H | 14H | — | 11H | — | — | — | — |

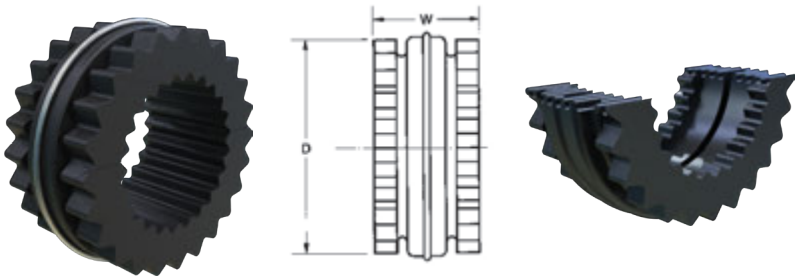
# Quadra-Flex® Sleeves

Martin flexible sleeve elements are offered in four material compounds (Thermoplastic Rubber (TPR), EPDM, Neoprene, and Hytrel) available in three construction styles. Our EM sleeve offers the combination of EPDM's extended temperature range as well as the higher oil resistance which Neoprene provides.



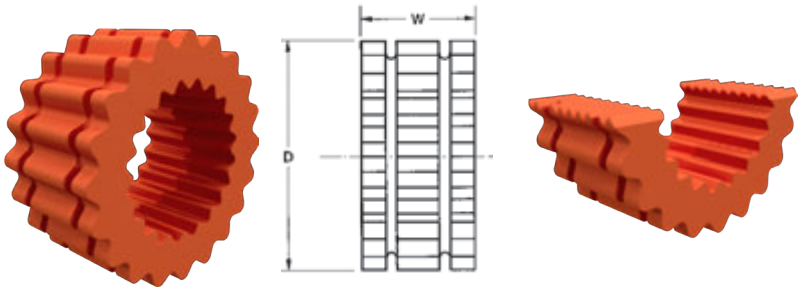

## Types JEM — JEMS

Type J sleeves are molded Thermoplastic Rubber (TPR). Available in 1 piece solid (JEM), and 1 piece split, construction (JEMS). TPR material will handle higher temperature ranges as well as be oil resistant.




## Types EM — E — N

Type EM, E, and N sleeves are of two piece molded construction with retaining ring. They are available in Thermoplastic Rubber (type TPR), EPDM (Type E), or Neoprene (type N). These can be used with any type flanges within a given size range.




## Types H and HS

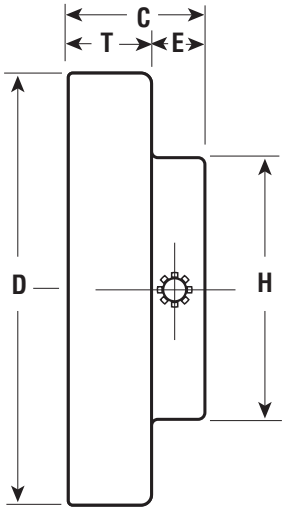
Martin H and HS sleeves are molded Hytrel for higher torque loading than standard EM sleeves. H and HS sleeves cannot be used with style J and B flanges. Hytrel sleeves are not a direct replacement for TPR, EPDM, or Neoprene sleeves.

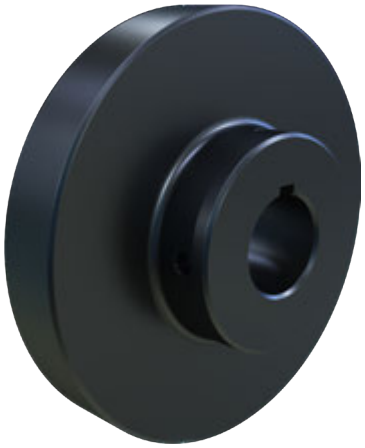
## Dimensions (Inches)

| Coupling Size | JEM — JEMS Sleeves | | | EM — E — N Sleeves | | | H and HS Sleeves Hytrel • | | |
|---|---|---|---|---|---|---|---|---|---|
| | D | W | Wt. (lb) | D | W | Wt. (lb) | D | W | Wt. (lb) |
| 3 | 1.875 | 1.000 | 0.1 | — | — | — | — | — | — |
| 4 | 2.313 | 1.250 | 0.1 | 2.313 | 1.250 | 0.1 | — | — | — |
| 5 | 2.938 | 1.563 | 0.2 | 2.938 | 1.563 | 0.3 | — | — | — |
| 6 | 3.750 | 1.875 | 0.4 | 3.750 | 1.875 | 1.0 | 3.750 | 1.875 | 0.4 |
| 7 | 4.344 | 2.188 | 0.5 | 4.344 | 2.188 | 0.8 | 4.344 | 2.188 | 0.7 |
| 8 | 5.063 | 2.500 | 0.9 | 5.063 | 2.500 | 1.4 | 5.063 | 2.500 | 1.4 |
| 9 | 6.000 | 3.000 | 2.0 | 6.000 | 3.000 | 2.0 | 6.000 | 3.000 | 1.8 |
| 10 | 7.063 | 3.438 | 2.2 | 7.063 | 3.438 | 2.9 | 7.063 | 3.438 | 3.0 |
| 11 | — | — | — | 8.188 | 4.000 | 4.7 | 8.188 | 4.000 | 4.7 |
| 12 | — | — | — | 9.563 | 4.688 | 8.1 | 9.563 | 4.688 | 8.0 |
| 13 | — | — | — | 11.188 | 5.500 | 13.0 | 11.188 | 5.500 | 11.8 |
| 14 | — | — | — | 13.094 | 6.500 | 21.1 | 13.094 | 6.500 | 19.3 |
| 16 | — | — | — | 17.906 | 8.750 | 53.0 | — | — | — |

• 13 and 14 Hytrel available with HS sleeves only.

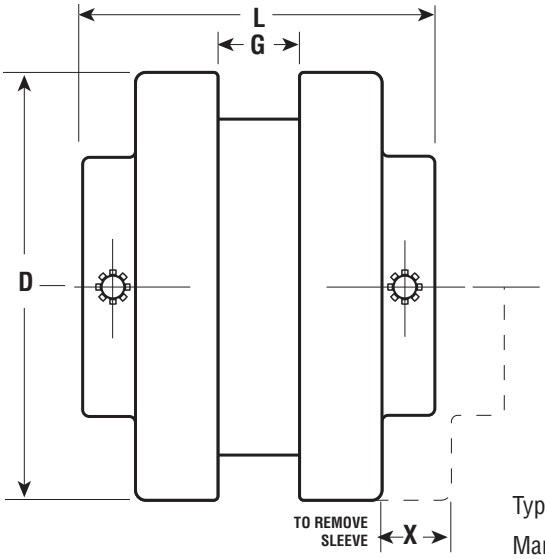
# Quadra-Flex® Type J Flanges

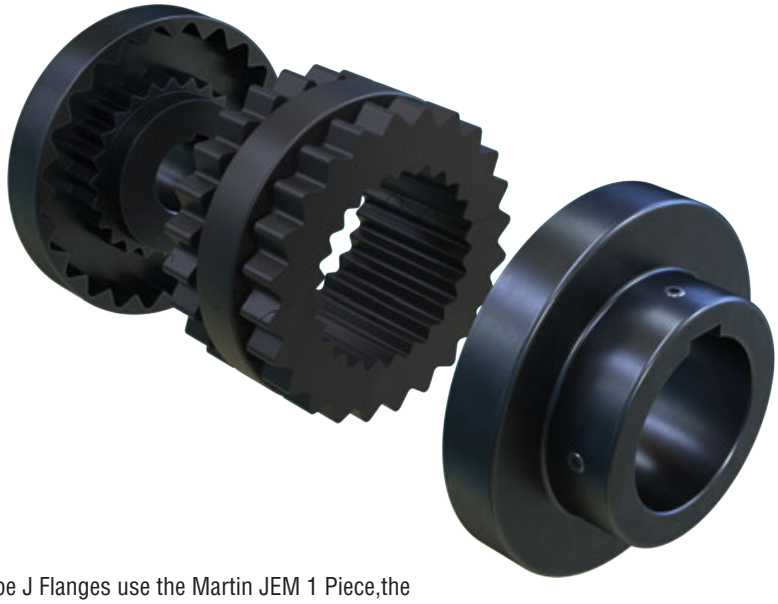


## Quadra-Flex® Type J Flanges

Martin Type J Flanges are supplied bored to size with standard keyway and two setscrews to slip fit on standard shafting.



Type J Flanges use the Martin JEM 1 Piece,the Martin JEMS 1 piece split and the Martin EM 2 piece split sleeves.

(Note: Hytrel sleeves are not intended for use with this type of flange.)

## Dimensions (Inches)

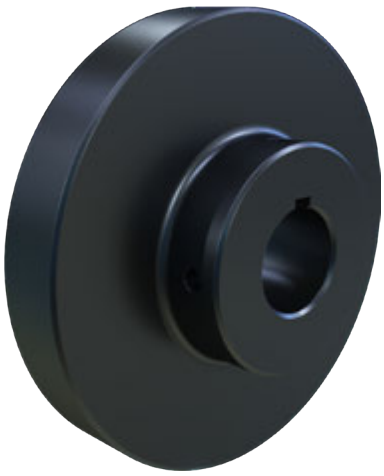
| Coupling Size | Dimensions | | | | | | | | Wt. (lb) ★ | Finished Bore Sizes • (Inches) | Max. Bore | Millimeters | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | C | D | E | G | H | L | T | X | | | | | | |
| 3J | 0.813 | 2.062 | 0.438 | 0.375 | 1.250 | 2.000 | 0.375 | 0.563 | 0.3 | 0.375** 0.500 0.625 0.750 | 0.750 | — | — | — |
| | 0.813 | 2.062 | 0.438 | 0.375 | 1.500 | 2.000 | 0.375 | 0.563 | 0.3 | 0.875 | 0.875 | — | — | — |
| 4J | 0.875 | 2.460 | 0.438 | 0.625 | 1.625 | 2.375 | 0.438 | 0.750 | 0.5 | 0.500 0.625 0.750 0.875 0.938 1.000 | 1.000 | 15 | 20 | 25 |
| 5J | 0.688 | 3.250 | 0.469 | 0.750 | 1.875 | 2.875 | 0.594 | 0.969 | 0.9 | 0.500 0.625 0.750 0.875 0.938 1.000 1.125 | 1.125 | — | — | — |
| 6J | 0.531 | 4.000 | 0.594 | 0.875 | 1.938 | 3.313 | 0.625 | 1.094 | 1.7 | 0.625 0.750 0.875 0.938 1.000 | — | — | — | — |
| | 0.531 | 4.000 | 0.594 | 0.875 | 2.500 | 3.313 | 0.625 | 1.094 | 1.7 | 1.125 1.188 1.250 1.375 | 1.375 | — | — | — |

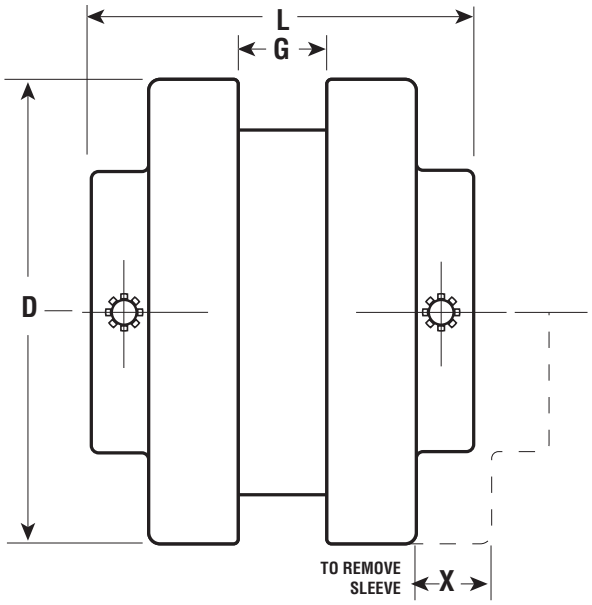
★ Approximate weight for each flange.
** .375 Bore has no Keyway
• J flanges can be rebored if necessary.

# Type S Flanges

## Quadra-Flex® Type S Couplings (Bored-to-Size)

Type S flexible coupling flanges are bored to size to fit on any standard shaft. They are produced from high strength cast iron. Units are easy to install and remove and are stocked in a wide range of bore sizes as shown on the next page.





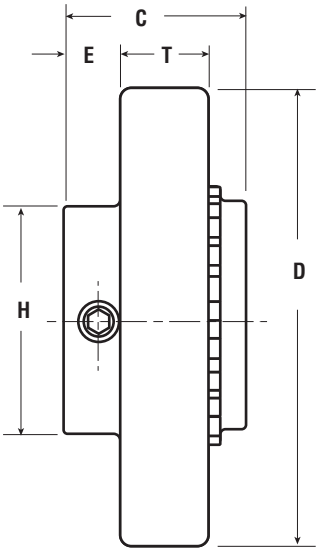

## Dimensions

| Coupling Size | Flange Diameter (D) | Bore (Inches) | | | Hub (Inches) | | | G | L | T | X | Weight (lb) • |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Stock | Rec. Max. ★ | Rec. Max. ★★ | Hub Diameter (H) | Length Thru (C) | Hub Projected (E) | | | | | |
| 5S | 3.250 | 0.500 | 1.188 | 1.250 | 1.875 | 1.375 | 0.453 | 0.750 | 2.813 | 0.594 | 0.969 | 1.0 |
| 6S | 4.000 | 0.625 | 1.438 | 1.500 | 2.500 | 1.625 | 0.531 | 0.875 | 3.500 | 0.750 | 1.094 | 2.1 |
| | 4.000 | 0.625 | — | 1.875 | 2.500 | 1.563 | 0.813 | 0.875 | 4.000 | 0.750 | 1.094 | 2.1 |
| 7S | 4.625 | 0.625 | 1.625 | 1.875 | 2.813 | 1.844 | 0.688 | 1.000 | 3.938 | 0.781 | 1.313 | 2.7 |
| 8S | 5.450 | 0.750 | 1.938 | 2.250 | 3.250 | 0.719 | 0.750 | 1.125 | 4.438 | 0.906 | 1.500 | 4.5 |
| | 5.450 | 0.750 | — | 2.375 | 3.250 | 1.938 | 1.031 | 1.125 | 5.000 | 0.906 | 1.500 | 4.5 |
| 9S | 6.350 | 0.875 | 2.375 | 2.500 | 3.625 | 2.406 | 0.781 | 1.438 | 5.063 | 1.031 | 1.750 | 6.5 |
| | 6.350 | 0.875 | — | 2.875 | 4.125 | 2.281 | 1.250 | 1.438 | 6.000 | 1.031 | 1.750 | 6.5 |
| 10S | 7.500 | 1.125 | 2.750 | 3.125 | 4.375 | 2.719 | 0.813 | 1.625 | 5.688 | 1.219 | 2.000 | 11.3 |
| | 7.500 | 1.125 | — | 3.375 | 4.750 | 2.688 | 1.469 | 1.625 | 7.000 | 1.219 | 2.000 | 11.3 |
| 11S | 8.625 | 1.250 | 3.375 | 3.625 | 5.250 | 3.438 | 1.125 | 1.875 | 7.125 | 1.500 | 2.375 | 17.6 |
| | 8.625 | 1.250 | — | 3.875 | 5.625 | 3.063 | 1.563 | 1.875 | 8.000 | 1.500 | 2.375 | 17.6 |
| 12S | 10.000 | 1.500 | 3.875 | 3.938 | 5.750 | 4.000 | 0.594 | 2.313 | 8.250 | 1.688 | 2.688 | 27.2 |
| 13S | 11.750 | 2.000 | 4.500 | — | 6.750 | 4.375 | 0.938 | 2.688 | 9.250 | 1.969 | 3.063 | 45.6 |
| 14S | 13.875 | 2.000 | 5.000 | — | 7.500 | 4.500 | 0.688 | 3.250 | 9.875 | 2.250 | 3.500 | 70.0 |
| 16S | 18.875 | 2.000 | 5.500 | 6.000 | 8.000 | 6.000 | 2.000 | 4.750 | 14.250 | 2.750 | 4.250 | 162.0 |

★ Recommended max. bore with standard keyway.
★★ Recommended max. bore with shallow keyway. See chart on page C-18 for recommended keyway size.
• Approximate weight for each flange.

# Quadra-Flex® Type S Couplings (Bored-to-Size)

Type S flexible coupling flanges are bored to size to fit on any standard shaft. They are produced from high strength cast iron. Units are easy to install and remove and are stocked in a wide range of bore sizes as shown on the next page.

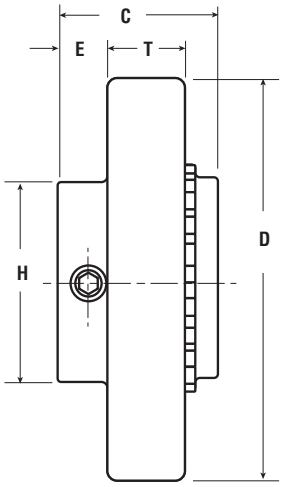



## Inches / Millimeters

| Coupling Size | Finished Bore Sizes<br>Inches /mm |
|---|---|
| 5S | .625, .75, .813, .875, .938, 1, 1.063, 1.125, 1.188, 1.25<br>15mm, 20mm, 25mm |
| 6S | .75, .875, .938, 1, 1.063, 1.125, 1.188, 1.25, 1.313, 1.375, 1.438, 1.5, 1.625, 1.75, 1.875<br>20mm, 25mm, 28mm, 30mm, 35mm |
| 7S | .75, .875, .938, 1, 1.063, 1.125, 1.188, 1.25, 1.313, 1.375, 1.438, 1.5, 1.563, 1.625, 1.688, 1.75, 1.875<br>25mm, 28mm, 30mm, 38mm, 42mm |
| 8S | .875, .938, 1, 1.063, 1.125, 1.188, 1.25, 1.313, 1.375, 1.438, 1.5, 1.563, 1.625, 1.688, 1.75, 1.875, 1.938, 2.063, 2.125, 2.375<br>28mm, 30mm, 32mm, 38mm, 42mm, 48mm |
| 9S | .938, 1, 1.063, 1.125, 1.25, 1.375, 1.438, 1.5, 1.563, 1.625, 1.688, 1.75, 1.875, 1.938, 2, 2.063, 2.125, 2.188, 2.25, 2.375, 2.5, 2.875<br>30mm, 32mm, 38mm, 42mm, 48mm |
| 10S | 1.125, 1.25, 1.375, 1.438, 1.5, 1.563, 1.625, 1.688, 1.75, 1.875, 1.938, 2, 2.063, 2.125, 2.188, 2.25, 2.375, 2.438, 2.5, 2.75, 2.875, 3.375<br>55mm, 60mm |
| 11S | 1.25, 1.375, 1.438, 1.563, 1.625, 1.75, 1.875, 2.063, 2.125, 2.25, 2.375, 2.625, 2.75, 2.875, 3.375, 3.875 |
| 12S | 1.875, 2.125, 2.375, 2.625, 2.875, 3.375, 3.875, 3.938<br>90mm |
| 13S | 2.375, 2.875, 3.375 |
| 14S | 2.875 |
| 16S | * |

* Plain bore only.

# Keyseat Dimensions




## Standard Keyway Dimensions

| Shaft Diameter | Width | Depth |
|---|---|---|
| 0.500 – 0.563 | 1/8 | 1/16 |
| 0.625 – 0.875 | 3/16 | 3/32 |
| 0.938 – 1.250 | 1/4 | 1/8 |
| 0.938 – 1.375 | 5/16 | 5/32 |
| 1.438 – 1.750 | 3/8 | 3/16 |
| 1.813 – 2.750 | 1/2 | 1/4 |
| 2.313 – 2.750 | 5/8 | 5/16 |
| 2.813 – 3.250 | 3/4 | 3/8 |
| 3.313 – 3.750 | 7/8 | 7/16 |
| 3.813 – 4.500 | 1 | 1/2 |
| 4.563 – 5.500 | 1 1/4 | 5/8 |
| 5.563 – 6.500 | 1 1/2 | 3/4 |

## Bore Tolerances for Types J and S Flanges, SC Hubs

| Shaft Diameter | Width |
|---|---|
| UP to 1.000 | +.0000 to +.0010 |
| 1.063 to 2.125 | +.0000 to +.0015 |
| 2.188 to 2.625 | +.0000 to +.0020 |
| 2.688 to 3.688 | +.0000 to +.0025 |
| 3.750 to 4.750 | +.0000 to +.0030 |
| 4.813 to 6.000 | +.0000 to +.0035 |

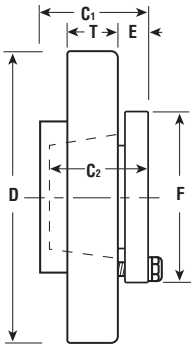
## Shallow Keyseat Dimensions

| Coupling Size | Hub Dia. (H) | Length Thru (C) | Shallow Keyseat Dimensions | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Bore | Keyway | Key | Bore | Keyway | Key | Bore | Keyway | Key |
| 6S | 2.500 | 1.313 | 1.625 | 3/8 × 1/8 | 3/8 × 5/16 × 1 1/4 | 1.750 | 3/8 × 1/16 | 3/8 × 1/4 × 1 1/4 | 1.875 | 1/2 × 1/16 | 1/2 × 5/16 × 11/2 |
| | 2.813 | 1.563 | | | | | | | | | |
| 7S | 2.813 | 1.818 | 1.875 | 1/2 × 1/8 | 1/2 × 3/8 × 1 13/16 | – | – | – | – | – | – |
| 8S | 3.250 | 2.188 | 2.125 | 1/2 × 3/16 | 1/2 × 7/16 × 2 | 2.375 | 5/8 × 1/8 | 5/8 × 7/16 × 2 | – | – | – |
| | 3.250 | 1.938 | 2.125 | 1/2 × 3/16 | 1/2 × 7/16 × 2 | 2.375 | 5/8 × 1/8 | 5/8 × 7/16 × 2 | – | – | – |
| 9S | 3.625 | 2.406 | 2.500 | 5/8 × 3/16 | 5/8 × 3/8 × 2 3/8 | 2.875 | 3/4 × 1/8 | 3/4 × 1/2 × 2 | – | – | – |
| | 4.125 | 2.281 | 2.500 | 5/8 × 3/16 | 5/8 × 3/8 × 2 3/8 | 2.875 | 3/4 × 1/8 | 3/4 × 1/2 × 2 | – | – | – |
| 10S | 4.375 | 2.636 | 2.875 | 3/4 × 1/4 | 3/4 × 5/8 × 2 11/16 | 3.375 | 7/8 × 3/16 | 7/8 × 3/8 × 2 11/16 | – | – | – |
| | 4.750 | 2.688 | 2.875 | 3/4 × 1/4 | 3/4 × 5/8 × 2 11/16 | 3.375 | 7/8 × 3/16 | 7/8 × 3/8 × 2 11/16 | – | – | – |
| 11S | 3.250 | 3.438 | 3.875 | 1 × 1/4 | 1 × 3/4 × 3 | – | – | – | – | – | – |
| | 4.875 | 3.438 | 3.875 | 1 × 1/4 | 1 × 3/4 × 3 | – | – | – | – | – | – |
| | 5.250 | 3.438 | 3.875 | 1 × 1/4 | 1 × 3/4 × 3 | – | – | – | – | – | – |
| | 5.625 | 3.063 | 3.875 | 1 × 1/4 | 1 × 3/4 × 3 | – | – | – | – | – | – |
| 12S | 3.750 | 4.000 | 3.938 | 1 × 1/4 | 1 × 3/4 × 4 | – | – | – | – | – | – |
| | 4.875 | 4.000 | 3.938 | 1 × 1/4 | 1 × 3/4 × 4 | – | – | – | – | – | – |
| | 5.750 | 4.000 | 3.938 | 1 × 1/4 | 1 × 3/4 × 4 | – | – | – | – | – | – |

# Type B Bushed Quadra-Flex®

## Flanges

Type B flanges are made of high quality cast iron, the same high strength cast iron used in the Type S and SC Quadra-Flex® flanges. Type B is designed to accommodate Martin QD bushings for easy installation and removal. Type B flanges are not intended for use with Hytrel sleeves

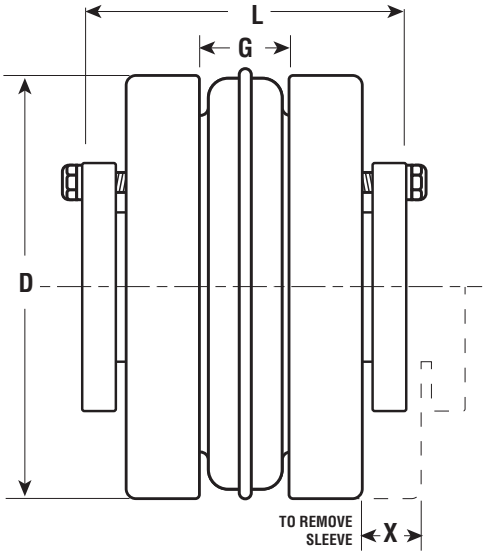


| Coupling Size | Bushing Required | Dimensions | | | | | | | | | Max. Bore ★ | Weight (lb) † | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | $C_1$ | $C_2$ | D | E | F | G | L | T | X | | Flange | Bushing |
| 6B | JA | 1.531 | 1.000 | 4.000 | 0.438 | 2.000 | 0.875 | 3.313 | 0.758 | 1.094 | 1 | 1.7 | 0.9 |
| 7B | JA | 1.594 | 1.000 | 4.625 | 0.438 | 2.000 | 1.000 | 3.438 | 0.758 | 1.313 | 1 | 2.0 | 1.0 |
| 8B | SH | 1.818 | 1.250 | 5.450 | 0.500 | 2.688 | 1.438 | 3.938 | 2.281 | 1.500 | 1 3/8 | 3.1 | 1.0 |
| 9B | SD | 2.188 | 1.188 | 6.350 | 0.438 | 3.188 | 1.438 | 4.625 | 1.031 | 1.750 | 1 11/16 | 4.9 | 1.5 |
| 10B | SK | 1.818 | 1.875 | 7.500 | 0.625 | 3.875 | 1.625 | 5.313 | 1.219 | 2.000 | 2 1/8 | 7.0 | 2.0 |
| 11B | SF | 2.125 | 2.000 | 8.625 | 0.625 | 4.625 | 1.875 | 6.125 | 1.500 | 2.375 | 2 1/4 | 11.8 | 3.0 |
| 12B | E | 2.688 | 2.625 | 10.000 | 0.875 | 6.000 | 2.313 | 7.438 | 1.688 | 2.688 | 2 7/8 | 17.2 | 10.0 |
| 13B | F | 3.688 | 3.625 | 11.750 | 1.000 | 6.625 | 2.688 | 8.625 | 1.939 | 3.000 | 3 5/16 | 30.5 | 11.5 |
| 14B | F | 3.688 | 3.625 | 13.875 | 1.000 | 6.625 | 3.250 | 9.750 | 2.250 | 3.500 | 3 5/16 | 51.0 | 11.5 |
| 16B | J | 4.750 | 4.500 | 18.875 | 1.188 | 7.250 | 4.750 | 12.625 | 2.750 | 4.250 | 3 /4 | 120.0 | 18.0 |

★ Maximum bore with standard keyway.
† Approximate weight for each flange.

## QD Bushing Keyway Dimensions

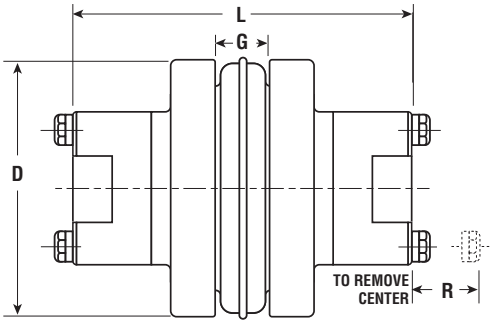
| Bushing | Bores | Keyset |
|---|---|---|
| JA | 1/2 - 1 | STANDARD |
| | 11/16 - 1 1/8 | 1/4 × 1/16 |
| | 13/16 | 1/4 × 1/16 |
| | 1 1/4 | NO K.S. |
| SH | 1/2 - 1 3/8 | STANDARD |
| | 1 7/16 - 1 5/8 | 3/8 × 1/16 |
| | 1 11/16 | NO K.S. |
| SD | 1/2 - 1 11/16 | STANDARD |
| | 1 3/4 | 3/8 × 1/8 |
| | 1 13/16 | 1/2 × 1/8 |
| | 1 7/8 - 1 15/16 | 1/2 × 1/16 |
| | 2 | NO K.S. |
| SK | 1/2 - 2 1/8 | STANDARD |
| | 2 3/16 - 2 1/4 | 1/2 × 1/8 |
| | 2 5/16 - 2 1/2 | 5/8 × 1/16 |
| | 2 9/16 - 2 5/8 | NO K.S. |
| SF | 1/2 - 2 1/4 | STANDARD |
| | 2 5/16 - 2 1/2 | 5/8 × 3/16 |
| | 2 9/16 - 2 3/4 | 5/8 × 1/16 |
| | 2 13/16 - 2 7/8 | 3/4 × 1/16 |
| | 2 15/16 | 3/4 × 1/16 |
| E | 7/8 - 2 7/8 | STANDARD |
| | 2 13/16 - 3 1/4 | 3/4 × 1/8 |
| | 3 5/16 - 3 7/16 | 7/8 × 1/16 |
| | 3 1/2 | 7/8 × 1/16 |
| F | 1 - 3 5/16 | STANDARD |
| | 3 3/8 - 3 3/4 | 7/8 × 3/16 |
| | 3 13/16 - 3 15/16 | 1 × 1/8 |
| | 4 | NO K.S. |
| J | 1 1/4 - 3 3/4 | STANDARD |
| | 3 13/16 - 3 15/16 | 1 × 1/8 |
| | 4 - 4 1/2 | 1 × 1/8 |




## Bushings

Martin QD bushings offer convenient mounting of the flange to the shaft securely without setscrews. They are tapered and are split through both the bushing flange and taper to provide a clamp fit, eliminating wobble, vibration, and fretting corrosion. This is the same bushing used in Martin sprockets and sheaves and is readily available.

# Type SC
# Spacer Couplings

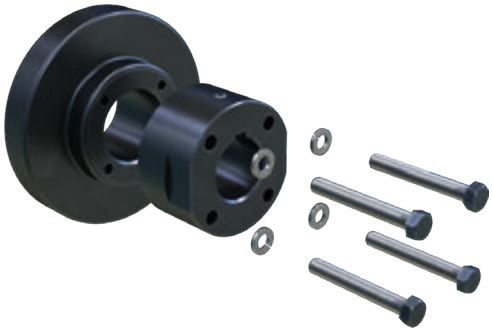


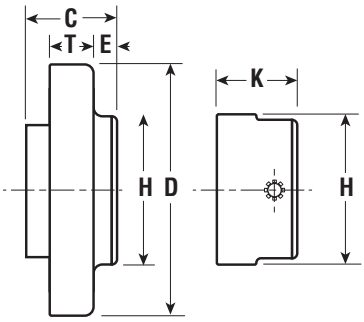

The dimensions for completely assembled Quadra-Flex® Type SC Spacer Couplings are shown below. See next page for dimensions of separate components.

| Coupling Size | Required Distance Between Shafts | Use Flange Number | Use Hub Number | Max. Bore Standard Keyway | Dimensions | | | | Weight[2] (lb) • |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | D | L[2] | G | R | |
| 4JSC | 3.500 | 4JSC35[1] | 4H | 1 1/8 | 2.460 | 5.625 | 0.625 | 0.500 | 4.7 |
| 5SC | 3.500 | 5SC35 | 5H | 1 1/8 | 3.250 | 5.625 | 0.750 | 0.563 | 4.1 |
| 6SC | 3.500 | 6SC35 | 6H | 1 3/8 | 4.000 | 5.875 | 0.875 | 0.750 | 7.1 |
| | 4.375 | 6SC44 | 6H | 1 3/8 | 4.000 | 6.750 | 0.875 | 0.750 | 7.9 |
| | 5.000 | 6SC50 | 6H | 1 3/8 | 4.000 | 7.375 | 0.875 | 0.750 | 8.5 |
| 7SC | 3.500 | 7SC35 | 7H | 1 5/8 | 4.625 | 6.375 | 1.000 | 0.625 | 9.1 |
| | 4.375 | 7SC44 | 7H | 1 5/8 | 4.625 | 7.250 | 1.000 | 0.625 | 10.1 |
| | 5.000 | 7SC50 | 7H | 1 5/8 | 4.625 | 7.875 | 1.000 | 0.625 | 10.7 |
| 8SC | 3.500 | 8SC35 | 8H | 1 7/8 | 5.450 | 6.875 | 1.125 | 0.813 | 14.7 |
| | 3.500 | 8SC35-10 | 10H★ | 2 3/8 | 5.450 | 8.125 | 1.125 | 0.813 | 22.7 |
| | 4.375 | 8SC44 | 8H | 1 7/8 | 5.450 | 7.750 | 1.125 | 0.813 | 16.1 |
| | 5.000 | 8SC50 | 8H | 1 7/8 | 5.450 | 8.375 | 1.125 | 0.813 | 15.9 |
| | 5.000 | 8SC50-10 | 10H★ | 2 3/8 | 5.450 | 9.625 | 1.125 | 0.813 | 26.5 |
| 9SC | 3.500 | 9SC35 | 9H★ | 2 1/8 | 6.350 | 7.500 | 1.438 | 0.688 | 22.0 |
| | 4.375 | 9SC44 | 9H★ | 2 1/8 | 6.350 | 8.250 | 1.438 | 0.688 | 23.4 |
| | 5.000 | 9SC50 | 9H★ | 2 1/8 | 6.350 | 8.875 | 1.438 | 0.688 | 24.6 |
| | 5.000 | 9SC50-11 | 11H★ | 2 7/8 | 6.350 | 10.375 | 1.438 | 0.813 | 40.2 |
| | 7.000 | 9SC70-11 | 11H★ | 2 7/8 | 6.350 | 12.375 | 1.438 | 0.813 | 48.2 |
| | 7.750 | 9SC78-11 | 11H★ | 2 7/8 | 6.350 | 13.125 | 1.438 | 0.813 | 50.8 |
| 10SC | 4.750 | 10SC48 | 10H★ | 2 3/8 | 7.500 | 9.375 | 1.625 | 0.813 | 35.4 |
| | 5.000 | 10SC50 | 10H★ | 2 3/8 | 7.500 | 9.625 | 1.625 | 0.813 | 38.2 |
| | 7.000 | 10SC70-13 | 13H★ | 3 3/8 | 7.500 | 13.625 | 1.625 | 1.875 | 71.8 |
| | 7.750 | 10SC78-13 | 13H★ | 3 3/8 | 7.500 | 14.375 | 1.625 | 1.875 | 75.6 |
| | 10.000 | 10SC100-13 | 13H★ | 3 3/8 | 7.500 | 16.625 | 1.625 | 1.875 | 89.0 |
| 11SC | 4.750 | 11SC48 | 11H★ | 2 7/8 | 8.625 | 10.625 | 1.875 | 0.813 | 54.5 |
| | 5.000 | 11SC50 | 11H★ | 2 7/8 | 8.625 | 10.375 | 1.875 | 0.813 | 54.8 |
| | 7.000 | 11SC70-14 | 14H | 3 7/8 | 8.625 | 14.625 | 1.875 | 2.000 | 85.7 |
| | 7.750 | 11SC78-14 | 14H | 3 7/8 | 8.625 | 15.375 | 1.875 | 2.000 | 90.1 |
| | 10.000 | 11SC100-14 | 14H | 3 7/8 | 8.625 | 17.625 | 1.875 | 2.000 | 102.5 |
| 12SC | 7.000 | 12SC70 | 12H★ | 2 7/8 | 10.000 | 12.875 | 2.313 | 1.500 | 87.7 |
| | 7.000 | 12SC70-14 | 14H | 3 7/8 | 10.000 | 14.625 | 2.313 | 2.000 | 98.9 |
| | 7.750 | 12SC78 | 12H★ | 2 7/8 | 10.000 | 13.625 | 2.313 | 1.500 | 91.5 |
| | 7.750 | 12SC78-14 | 14H | 3 7/8 | 10.000 | 15.375 | 2.313 | 2.000 | 103.3 |
| | 10.000 | 12SC100-14 | 14H | 3 7/8 | 10.000 | 17.625 | 2.313 | 2.000 | 115.5 |
| 13SC | 7.750 | 13SC78 | 13H★ | 3 3/8 | 11.750 | 14.375 | 2.688 | 1.875 | 121.8 |
| 14SC | 7.750 | 14SC78 | 14H | 3 7/8 | 13.875 | 15.375 | 3.250 | 2.000 | 179.4 |

★ Short (HS) hub also available.
• Approximate weight for completely assembled spacer coupling.
[1] 4JSC35 × 1.125 has a shallow keyway.
[2] L dimension and weight will change if one or two short (HS) hubs are used.
NOTE: Refer to page C-23 to order — specify components separately.

# Type SC Flanges and Hubs





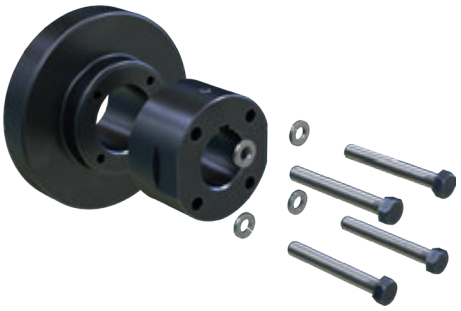

## Type SC Flanges and Hubs

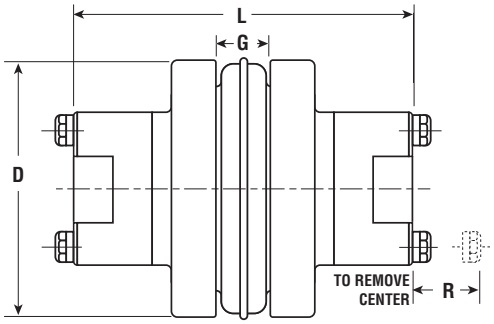
Tables below provide dimensional information for Quadra-Flex® Flanges and Hubs used for Spacer Couplings. Assembled dimensions are listed on opposite page. Any of the sleeves shown on page C-14 can be used.

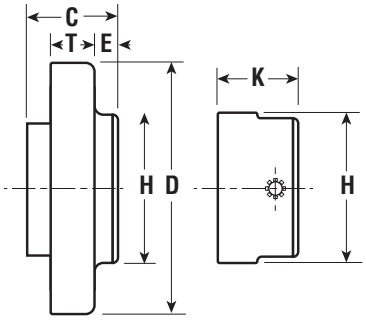
| Coupling Size | Flange Number | For Distance Between Shafts ★ | For Hubs | Dimensions | | | | | Weight (lb) • |
|---|---|---|---|---|---|---|---|---|---|
| | | | | D | E | H | C | T | |
| 4JSC | 4JSC35 | 3.500 | 4H | 2.460 | 0.438 | 2.000 | 0.875 | 0.438 | 1.2 |
| 5SC | 5SC35 | 3.500 | 5H | 3.250 | 0.797 | 2.000 | 1.688 | 0.594 | 1.2 |
| 6SC | 6SC35 | 3.500 | 6H | 4.000 | 0.594 | 2.500 | 1.625 | 0.697 | 2.0 |
| | 6SC44 | 4.375 | 6H | 4.000 | 0.344 | 2.500 | 2.063 | 0.697 | 2.4 |
| | 6SC50 | 5.000 | 6H | 4.000 | 1.344 | 2.500 | 2.375 | 0.697 | 2.7 |
| 7SC | 7SC35 | 3.500 | 7H | 4.625 | 0.469 | 2.813 | 1.625 | 0.758 | 2.3 |
| | 7SC44 | 4.375 | 7H | 4.625 | 0.879 | 2.813 | 2.063 | 0.758 | 2.8 |
| | 7SC50 | 5.000 | 7H | 4.625 | 0.531 | 2.813 | 2.375 | 0.758 | 3.1 |
| 8SC | 8SC35 | 3.500 | 8H | 5.450 | 0.281 | 3.250 | 1.625 | 0.879 | 3.5 |
| | 8SC35-10 | 3.500 | 10H-10HS | 5.450 | 0.281 | 4.375 | 1.625 | 0.879 | 3.4 |
| | 8SC44 | 4.375 | 8H | 5.450 | 0.697 | 3.540 | 2.063 | 0.879 | 4.2 |
| | 8SC50 | 5.000 | 8H | 5.450 | 0.344 | 3.250 | 2.375 | 0.879 | 4.6 |
| | 8SC50-10 | 5.000 | 10H-10HS | 5.450 | 0.344 | 4.375 | 2.375 | 0.879 | 5.3 |
| 9SC | 9SC35 | 3.500 | 9H-9HS | 6.350 | 0.063 | 3.625 | 1.688 | 0.344 | 5.1 |
| | 9SC44 | 4.375 | 9H-9HS | 6.350 | 0.438 | 3.625 | 2.063 | 0.344 | 5.8 |
| | 9SC50 | 5.000 | 9H-9HS | 6.350 | 0.750 | 3.625 | 2.375 | 0.344 | 6.4 |
| | 9SC50-11 | 5.000 | 11H-11HS | 6.350 | 0.750 | 5.250 | 2.375 | 0.344 | 6.9 |
| | 9SC70-11 | 7.000 | 11H-11HS | 6.350 | 1.750 | 5.250 | 3.375 | 0.344 | 10.9 |
| | 9SC78-11 | 7.750 | 11H-11HS | 6.350 | 2.125 | 5.250 | 3.750 | 0.344 | 12.1 |
| 10SC | 10SC48 | 4.750 | 10H-10HS | 7.500 | 0.344 | 4.375 | 2.250 | 0.531 | 9.8 |
| | 10SC50 | 5.000 | 10H-10HS | 7.500 | 0.469 | 4.375 | 2.375 | 0.531 | 10.1 |
| | 10SC70-13 | 7.000 | 13H-13HS | 7.500 | 1.469 | 6.125 | 3.375 | 0.531 | 14.5 |
| | 10SC78-13 | 7.750 | 13H-13HS | 7.500 | 1.818 | 6.125 | 3.750 | 0.531 | 16.3 |
| | 10SC100-13 | 10.000 | 13H-13HS | 7.500 | 2.939 | 6.125 | 4.875 | 0.531 | 22.5 |
| 11SC | 11SC48 | 4.750 | 11H-11HS | 8.625 | 0.031 | 5.250 | 1.500 | 1.500 | 12.5 |
| | 11SC50 | 5.000 | 11H11HS | 8.625 | 0.063 | 5.250 | 1.563 | 1.500 | 12.7 |
| | 11SC70-14 | 7.000 | 14H | 8.625 | 0.688 | 6.500 | 2.563 | 1.500 | 16.1 |
| | 11SC78-14 | 7.750 | 14H | 8.625 | 1.438 | 6.500 | 2.938 | 1.500 | 18.3 |
| | 11SC100-14 | 10.000 | 14H | 8.625 | 2.563 | 6.500 | 4.063 | 1.500 | 24.5 |
| 12SC | 12SC70 | 7.000 | 12H-12HS | 10.000 | 0.636 | 5.750 | 2.469 | 1.688 | 23.2 |
| | 12SC70-14 | 7.000 | 14H | 10.000 | 0.636 | 6.500 | 2.469 | 1.688 | 21.2 |
| | 12SC78 | 7.750 | 12H-12HS | 10.000 | 0.344 | 5.750 | 2.818 | 1.688 | 25.1 |
| | 12SC78-14 | 7.750 | 14H | 10.000 | 0.344 | 6.500 | 2.818 | 1.688 | 23.4 |
| | 12SC100-14 | 10.000 | 14H | 10.000 | 0.758 | 6.500 | 3.939 | 1.688 | 29.5 |
| 13SC | 13SC78 | 7.750 | 13H-13HS | 11.750 | 0.563 | 6.125 | 3.250 | 1.939 | 38.4 |
| 14SC | 14SC78 | 7.750 | 14H | 13.875 | 0.031 | 6.500 | 2.697 | 2.250 | 55.0 |

★ Flanges can be mixed to form different Between-Shaft Dimensions. See chart on page 23.
• Approximate weight for each flange.

# SC Spacer Hub Bores






| Coupling Size | Hub Number | Max. Bore | Stock Bore | | | | | | | | | | Dimensions | | | Weight[2] (lb) • |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Plain Bore | Bore with Standard Keyway and Setscrew | | | | | | | | | K | H | Cap Screws Furnished | |
| 4JSC | 4H | 1.125 | – | 0.625 | 0.875 | 1.000 | 1.125★ | | | | | | 1.625 | 2.000 | 4 — 10 × 2 | 1.1 |
| 5SC | 5H | 1.125 | 0.500 | 0.625 | 0.750 | 0.875 | 1.000 | 1.125 | | | | | 0.406 | 2.000 | 4 — 10 × 1 1/2 | 0.7 |
| 6SC | 6H | 1.375 | 0.625 | 0.750 | 0.875 | 1.000 | 1.125 | 1.250 | 1.375 | | | | 0.531 | 2.500 | 4 — 1/4 × 1 3/4 | 1.3 |
| 7SC | 7H | 1.625 | 0.625 | 0.875 | 1.000 | 1.125 | 1.375 | 1.500 | 1.625 | | | | 1.469 | 2.813 | 4 — 1/4 × 1 7/8 | 1.9 |
| 8SC | 8H | 1.875 | 0.750 | 0.875 | 1.000 | 1.125 | 1.375 | 1.500 | 1.625 | 1.750 | 1.875 | | 1.697 | 3.250 | 4 — 5/16 × 2 1/4 | 3.2 |
| 9SC | 9H | 2.125 | 0.875 | 1.000 | 1.125 | 1.375 | 1.500 | 1.625 | 1.750 | 1.875 | 2.125 | | 1.939 | 3.625 | 4 — 3/8 × 2 3/4 | 4.4 |
| | 9HS | 1.500 | – | 1.125 | | | | | | | | | 1.531 | 3.625 | 4 — 3/8 × 2 1/4 | 3.7 |
| 10SC | 10H | 2.375 | 1.125 | 1.625 | 1.875 | 2.125 | 2.375 | | | | | | 2.344 | 4.375 | 4 — 7/16 × 3 | 7.3 |
| | 10HS | 1.625 | – | 1.125 | | | | | | | | | 1.636 | 4.375 | 4 — 7/16 × 2 1/2 | 5.5 |
| 11SC | 11H | 2.875 | 1.125 | 1.875 | 2.125 | 2.375 | 2.875 | | | | | | 2.697 | 5.250 | 4 — 1/2 × 3 1/2 | 12.2 |
| | 11HS | 1.875 | – | 1.125 | 1.625 | | | | | | | | 1.879 | 5.250 | 4 — 1/2 × 2 3/4 | 9.3 |
| 12SC | 12H | 2.875 | 1.875 | 1.875 | 2.125 | 2.375 | 2.875 | | | | | | 2.939 | 5.750 | 4 — 5/8 × 4 | 16.6 |
| | 12HS | 2.500 | – | 2.375 | | | | | | | | | 2.531 | 5.750 | 4 — 5/8 × 3 1/2 | 14.1 |
| 13SC | 13H | 3.375 | – | 2.375 | 2.875 | 3.375 | | | | | | | 3.344 | 6.125 | 4 — 5/8 × 4 3/4 | 19.9 |
| | 13HS | 2.500 | – | 2.125 | 2.375 | | | | | | | | 2.469 | 6.125 | 4 — 5/8 × 3 1/2 | 16.0 |
| 14SC | 14H | 3.875 | – | 2.375 | 2.875 | 3.375 | 3.875 | | | | | | 3.818 | 6.500 | 4 — 5/8 × 5 | 24.2 |

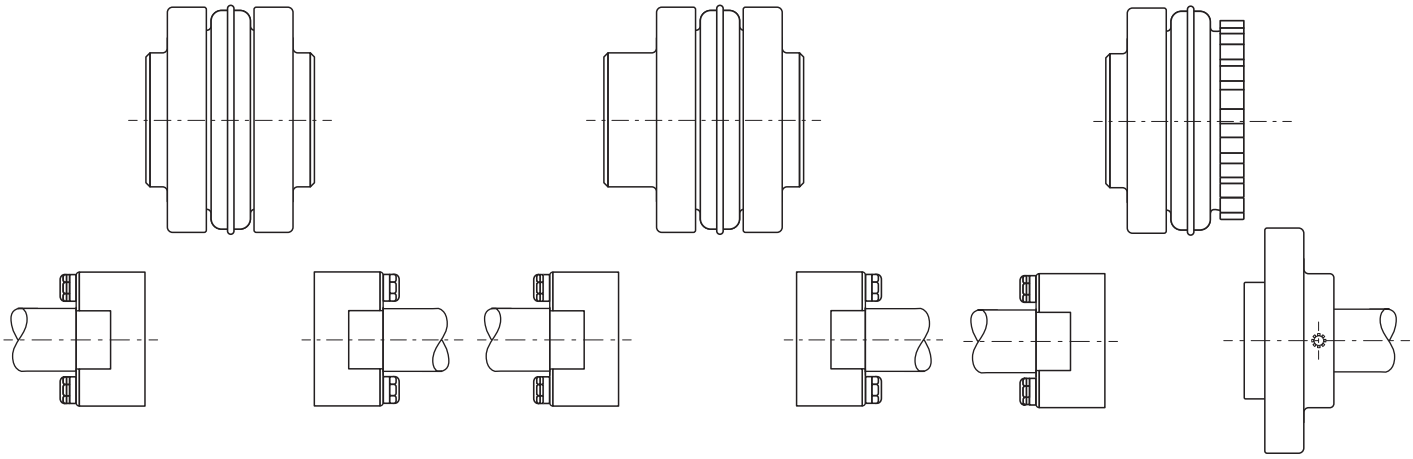
★ 4JSC × 1.125 has a shallow keyseat.
• Approximate weight for each hub.

# Between-Shaft Spacings

## Type SC Spacer Quadra-Flex®

Spacer couplings are available with the most popular between shaft dimensions. Spacings other than standard can be achieved by mixing flanges.

The standard column provides spacings using identical flanges; the combination column provides spacings with mixed flanges; the column headed semi-spacer uses one flange that is not made for spacer coupling and therefore does not have a detachable hub.



**Standard**

| Spacing | Use Flanges ★ |
|---|---|
| 3.500 | 2 - ( ) SC35 |
| 4.375 | 2 - ( ) SC44 |
| 5.000 | 2 - ( ) SC50 |
| 7.000 | 2 - ( ) SC70 |
| 7.750 | 2 - ( ) SC78 |
| 10.000 | 2 - ( ) SC100 |

**Combination**

| Spacing | Use Flanges ★ |
|---|---|
| 3.938 | SC35 and SC44 |
| 4.250 | SC35 and SC50 |
| 4.688 | SC44 and SC50 |
| 5.250 | SC35 and SC70 |
| 5.625 | SC35 and SC78 |
| 5.688 | SC44 and SC70 |
| 6.000 | SC50 and SC70 |
| 6.063 | SC44 and SC78 |
| 6.375 | SC50 and SC78 |
| 6.750 | SC35 and SC100 ★★ |
| 7.188 | SC44 and SC100 ★★ |
| 7.375 | SC70 and SC78 |
| 7.500 | SC50 and SC100 |
| 8.500 | SC70 and SC100 |
| 8.875 | SC78 and SC100 |

**Semi-Spacer**

| Spacing | Use Flanges ★ |
|---|---|
| 1.875 | S and SC35 |
| 2.313 | S and SC44 |
| 2.625 | S and SC50 |
| 3.625 | S and SC70 |
| 4.000 | S and SC78 |
| 5.125 | S and SC100 |

★ Check individual coupling size for flange
★★ Non-Stock
Note: Other combinations available – consult factory

# Installation Instructions

Martin Quadra-Flex® flanges (hubs) and elastomeric elements (sleeves) come in a wide range of sizes and types. First, determine the size and type of coupling components required. Remove all components from their boxes and loosely assemble the coupling. Do not install the wire ring on the two piece sleeves at this time. Check maximum RPM values in table against operating speeds.

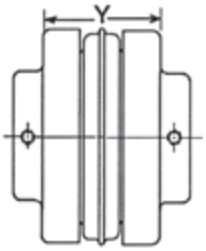
Martin EM sleeves are rated the same as other EPDM and Neoprene sleeves, and may be used interchangeably; however, Hytrel sleeves are rated at different values and may not be interchanged with Martin EM sleeves, or the EPDM and Neoprene sleeves. Check horsepower and torque ratings when selecting Hytrel sleeves.

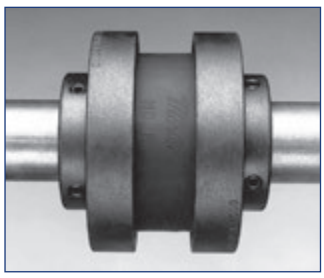
**Step 1.** Make sure the motor driving the part or components is locked out electrically in such a manner that it cannot be started by anyone, however remote from the area. The same type of lockout procedure applies to any other driving device which may be used. Failure to follow these instructions may result in personal injury or property damage.

**Step 2.** Prepare shafts for coupling installation. Inspect all coupling components and remove any protective coating or lubricants from bores, mating surfaces, and fasteners.

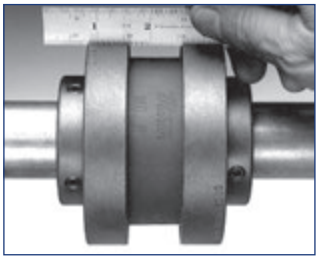
**Step 3.** Slide one coupling flange onto each prepared shaft using key stock where required. With the QD Type B flange, it may be necessary to expand the QD bushing bore for ease of installation.

**Step 4.** Position the flange on the shafts to achieve the approximate Y dimension (distance between flanges) shown in table. It is best to have equal shaft length into each flange. Tighten one flange in position, and slide the other flange sufficient distance back to install sleeve. Do not install wire ring on two piece sleeve in its final position at this time, but allow it to hang loosely in groove next to teeth.

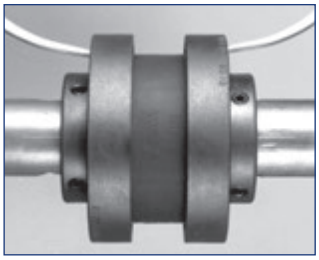


**Step 5.** Slide loose flange on the shaft until the sleeve has seated completely in teeth of both flanges. Refer to Y dimension although not a critical dimension. Secure the flange to shaft and torque set screws and cap screws to correct torque values.



**Parallel**



**Angular**

**Step 6.** Check parallel alignment by placing a straight edge across the two coupling flanges and measure the maximum offset at several points around the periphery of coupling. Do not rotate coupling when taking these measurements. Refer to table for maximum allowed offset of parallel alignment. Realign the coupling if necessary.

**Step 7.** Check angular alignment with a micrometer, vernier, or caliper. Take measurement from outside to outside of flanges at several points around the periphery of coupling. Do not rotate coupling when taking these measurements. Determine the difference between maximum and minimum dimensions and check to make sure they do not exceed the angular figure on the table. If a correction is necessary, recheck parallel alignment.

## Maximum RPM and Allowable Misalignment
### (Dimensions in Inches)

| Sleeve Size | Max. RPM | Types JEM, EM, E and N | | | ★ Type H and HS | | |
|---|---|---|---|---|---|---|---|
| | | Parallel | Angular | Y | Parallel | Angular | Y |
| 3 | 9200 | 0.010 | 0.035 | 1.188 | — | — | — |
| 4 | 7600 | 0.010 | 0.043 | 1.500 | — | — | — |
| 5 | 7600 | 0.015 | 0.056 | 1.938 | — | — | — |
| 6 | 6000 | 0.015 | 0.070 | 2.438† | 0.010 | 0.016 | 2.500 |
| 7 | 5250 | 0.020 | 0.081 | 2.563 | 0.012 | 0.020 | 2.625 |
| 8 | 4500 | 0.020 | 0.094 | 2.938 | 0.015 | 0.025 | 3.000 |
| 9 | 3750 | 0.025 | 0.109 | 3.500 | 0.017 | 0.028 | 3.563 |
| 10 | 3600 | 0.025 | 0.128 | 4.053 | 0.020 | 0.032 | 4.125 |
| 11 | 3600 | 0.032 | 0.151 | 4.875 | 0.022 | 0.037 | 4.938 |
| 12 | 2800 | 0.032 | 0.175 | 5.688 | 0.025 | 0.042 | 5.750 |
| 13 | 2400 | 0.040 | 0.195 | 6.688 | 0.030 | 0.050 | 6.688 |
| 14 | 2200 | 0.045 | 0.242 | 7.750 | 0.035 | 0.060 | 7.813 |
| 16 | 1500 | 0.062 | 0.330 | 10.250 | — | — | — |

NOTE: Values shown above may apply if the actual torque transmitted is more than .25 the coupling rating. For lesser torque, reduce the above values by .5.

★ Type H and HS sleeves should not be used as direct replacements for JEM or EM sleeves.
† Value when using 6J flanges is 2.125.

**Step 8.** If the coupling employs the two-piece sleeve with wire ring, install ring in center groove of sleeve.

Note: Some force may be required to seat the ring in groove.

**Step 9.** Install protective guards and/or shields per OSHA and any other additional local or state safety codes as required.

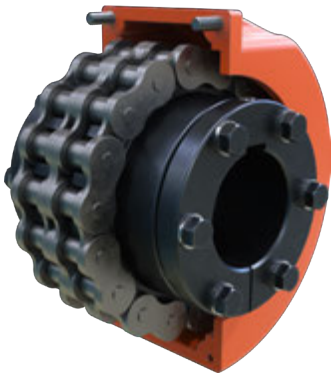
**Warning: Coupling sleeves may be forced from coupling when subjected to a severe shock load or abuse.**

## Stock Flexible Couplings

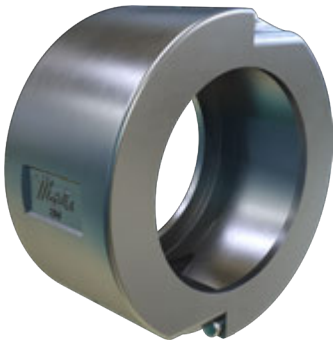
TBH

TBF

Bored-To-Size
And Stock Bore



QD
Bushed



Covers

# Stock Chain Couplings

## Bored-to-Size Couplings with Finished Bore, Keyway, and Set Screw

| Coupling Number | Stock Finished Bores Include Standard Keyway and Setscrew | A | B | C | L | Coupling O.D. | Weight (lb) |
|---|---|---|---|---|---|---|---|
| 4012 | 0.500, 0.625, 0.750 | 1.406 | 1.125 | 0.281 | 2.531 | 2.406 | 0.4 |
| 4016 | 0.625, 0.750, 0.875, 0.938, 1.000, 1.125, 1.188, 1.250 | 1.969 | 1.125 | 0.281 | 2.531 | 3.031 | 0.8 |
| 5016 | 0.750, 0.875, 1.000, 1.125, 1.188, 1.250, 1.375, 1.438, 1.500, 1.625 | 2.500 | 1.438 | 0.375 | 3.250 | 3.781 | 1.6 |
| 5018 | 0.750, 0.875, 1.000, 1.125, 1.188, 1.250, 1.375, 1.438, 1.500, 1.625, 1.750,1.875, 1.938, 2.000 | 2.969 | 1.688 | 0.375 | 3.750 | 4.188 | 2.4 |
| 6018 | 1.000, 1.125, 1.188, 1.250, 1.375, 1.438, 1.500, 1.625, 1.750, 1.875, 1.938,2.000, 2.125, 2.188, 2.250, 2.375, 2.438 | 3.500 | 1.875 | 0.438 | 4.188 | 5.000 | 4.8 |
| 6020 | 1.125, 1.250, 1.500, 1.625, 1.750, 1.875, 1.938, 2.000, 2.125, 2.375, 2.438, 2.625, 2.750 | 3.875 | 2.000 | 0.438 | 4.438 | 5.500 | 5.2 |
| 6022 | 1.125, 1.500 1.750, 1.875, 1.938, 2.125, 2.250 2.375, 2.438, 2.625, 2.750, 2.875, 3.000 | 4.500 | 2.125 | 0.438 | 4.688 | 5.953 | 7.8 |
| 8018 | 1.125, 1.250, 1.500 1.750, 1.875, 1.938, 2.000, 2.125, 2.188, 2.250, 2.375, 2.438, 2.625, 2.750, 2.875, 2.938, 3.000 | 4.563 | 2.375 | 0.578 | 5.328 | 6.656 | 9.5 |
| 8020 | 1.500, 2.188, 2.250, 2.375, 2.438, 2.688, 2.750, 2.875, 2.938, 3.000, 3.125, 3.375, 3.438 | 5.375 | 2.625 | 0.578 | 5.516 | 7.297 | 13.4 |
| 10018 | 1.500, 2.438, 2.875, 2.938, 3.000, 3.438, 3.500 | 5.688 | 2.750 | 0.719 | 6.219 | 8.328 | 18.2 |
| 10020 | 2.000, 3.000, 3.375, 3.500, 3.688, 3.938 | 6.719 | 3.125 | 0.719 | 6.969 | 9.125 | 25.0 |
| 12018 | 3.438, 3.938, 4.438 | 6.750 | 3.500 | 0.859 | 7.875 | 10.000 | 28.0 |
| 12022 | 4.375, 4.438, 4.938 | 8.750 | 4.000 | 0.859 | 8.875 | 11.891 | 55.0 |

CAUTION: All rotating power transmission products are potentially dangerous and must be properly guarded for the speeds and applications for which they were intended.

## QD Couplings

| Coupling Number | Bushing Used | Max. Bore★★ | A | B | D | C | L | Coupling O. D. | K† | Weight (lb) |
|---|---|---|---|---|---|---|---|---|---|---|
| 4016JA | JA | 1.000 | 2.000 | 0.875 | 1.313 | 0.281 | 2.906 | 3.031 | 1.250 | 0.9 |
| 5018SH | SH | 1.375 | 2.969 | 1.000 | 1.500 | 0.375 | 3.375 | 4.188 | 1.750 | 1.3 |
| 6020SK | SK | 2.125 | 3.875 | 1.250 | 1.875 | 0.438 | 4.188 | 5.500 | 2.250 | 2.5 |
| 8018SF | SF | 2.250 | 4.563 | 1.750 | 2.375 | 0.578 | 5.328 | 6.656 | 2.250 | 5.3 |

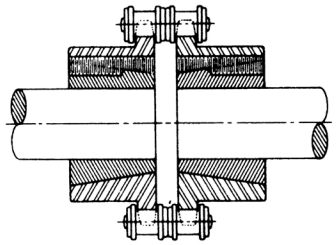
★★ Maximum bore shown is the maximum bore with standard keyway. It is recommended that this maximum not be exceeded in both halves of a coupling.
† Minimum clearance required to remove the coupling half by using the screws as jack screws.

## Taper Bushed Couplings Type

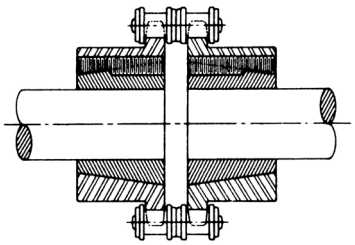
| Type TBH | Type TBF | Bushing Data | | | A | B | C | J★ | K† | L | OD | Weight (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coupling Number | Coupling Number | Bushing Used | Max. Bore | Min. Bore | | | | | | | | |
| 4016TBH | 4016TBF | 1108 | 1.000 | 0.500 | 1.969 | 0.875 | 0.281 | 0.625 | 0.750 | 2.031 | 3.031 | 0.9 |
| 5018TBH | 5018TBF | 1610 | 1.500 | 0.500 | 2.969 | 1.000 | 0.375 | 0.813 | 1.167 | 2.375 | 4.188 | 1.1 |
| 6020TBH | 6020TBF | 2012 | 1.875 | 0.500 | 3.875 | 1.250 | 0.438 | 0.938 | 1.375 | 2.938 | 5.500 | 2.7 |
| 8020TBH | 8020TBF | 3020 | 2.750 | 0.938 | 5.375 | 2.000 | 0.578 | 1.188 | 2.167 | 4.578 | 7.297 | 6.1 |
| 10020TBH | 10020TBF | 3535 | 3.250 | 1.188 | 6.719 | 3.500 | 0.719 | 2.000 | 2.625 | 7.719 | 9.125 | 19.0 |

★★ Space needed for (1) tightening bushing with shortened hex key (2) loosening screws for puller to remove hub.
† Minimum clearance required to remove the coupling half by using the screws as jack screws with shortened hex key.

## Our High-Speed Standard Covers Fit These Couplings



HH



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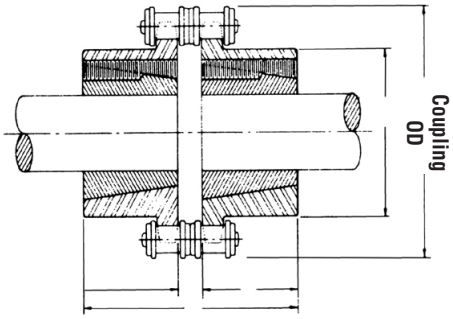
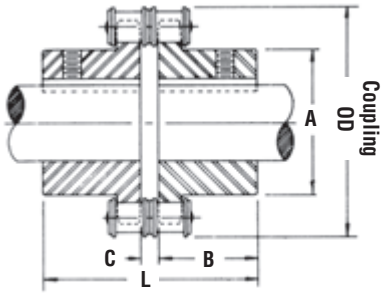
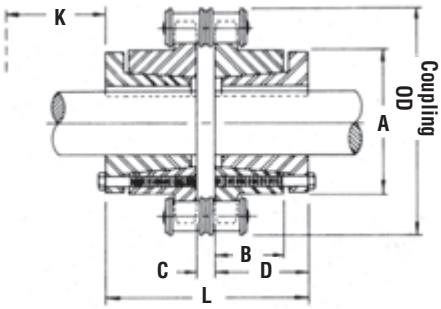



FH

# Stock Chain Couplings



BS Coupling



QD Coupling

Type TBF

Type TBH

**All Martin chain couplings have hardened teeth**

## Coupling Selection

Roller chain couplings have a torque capacity in excess of the torque normally transmitted by shafting which falls within the coupling bore range. Select the smallest coupling which will accommodate both shafts. For a reversing operation, shock or pulsating loads, or other severe operating conditions, select the next larger coupling size.

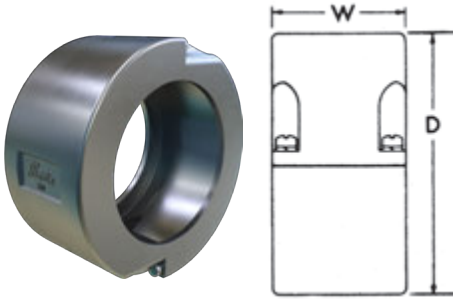
A cover should be used to assure maximum service life, particularly if the coupling operates at high speeds or under moist conditions. For proper lubrication, fill the space between the cover and the coupling with soft to medium consistency coupling grease.

## Coupling with Plain Bores for Reboring

| Coupling Number | Maximum Bore Inches | Minimum Plain Bore Inches | Weight (lb) | Recommended Maximum RPM | Coupling Chain Number | Weight (lb) |
|---|---|---|---|---|---|---|
| 4012 | 0.875 | 0.438 | 0.5 | 5000 | 4012 CHN | 0.4 |
| 4016 | 1.313 | 0.625 | 1.0 | 5000 | 4016 CHN | 0.5 |
| 5016 | 1.688 | 0.625 | 2.2 | 4000 | 5016 CHN | 1.2 |
| 5018 | 2.000 | 0.750 | 3.5 | 3600 | 5018 CHN | 1.3 |
| 6018 | 2.438 | 1.000 | 5.0 | 3000 | 6018 CHN | 2.2 |
| 6020 | 2.750 | 1.125 | 6.5 | 2500 | 6020 CHN | 2.6 |
| 6022 | 3.000 | 1.125 | 9.4 | 2500 | 6022 CHN | 2.7 |
| 8018 | 3.125 | 1.125 | 11.0 | 2000 | 8018 CHN | 5.3 |
| 8020 | 3.563 | 1.500 | 16.3 | 2000 | 8020 CHN | 5.9 |
| 10018 | 3.875 | 1.500 | 20.3 | 1800 | 10018 CHN | 9.8 |
| 10020 | 4.625 | 1.500 | 31.8 | 1800 | 10020 CHN | 10.9 |
| 12018 | 4.688 | 2.000 | 36.8 | 1500 | 12018 CHN | 17.3 |
| 12022 | 6.125 | 2.000 | 70.0 | 1200 | 12022 CHN | 21.2 |

## Stock Coupling Covers

Covers fit taper bushed, QD and stock, and finished bore couplings. Covers allow excellent lubrication, and their use is recommended to obtain maximum coupling life. Covers are of aluminum or plastic, and are made in halves for easy installation. Synthetic rubber oil seals, which contact the coupling hubs, retain the lubricant and prevent the entry of dirt. Covers are fitted with gaskets between the halves.

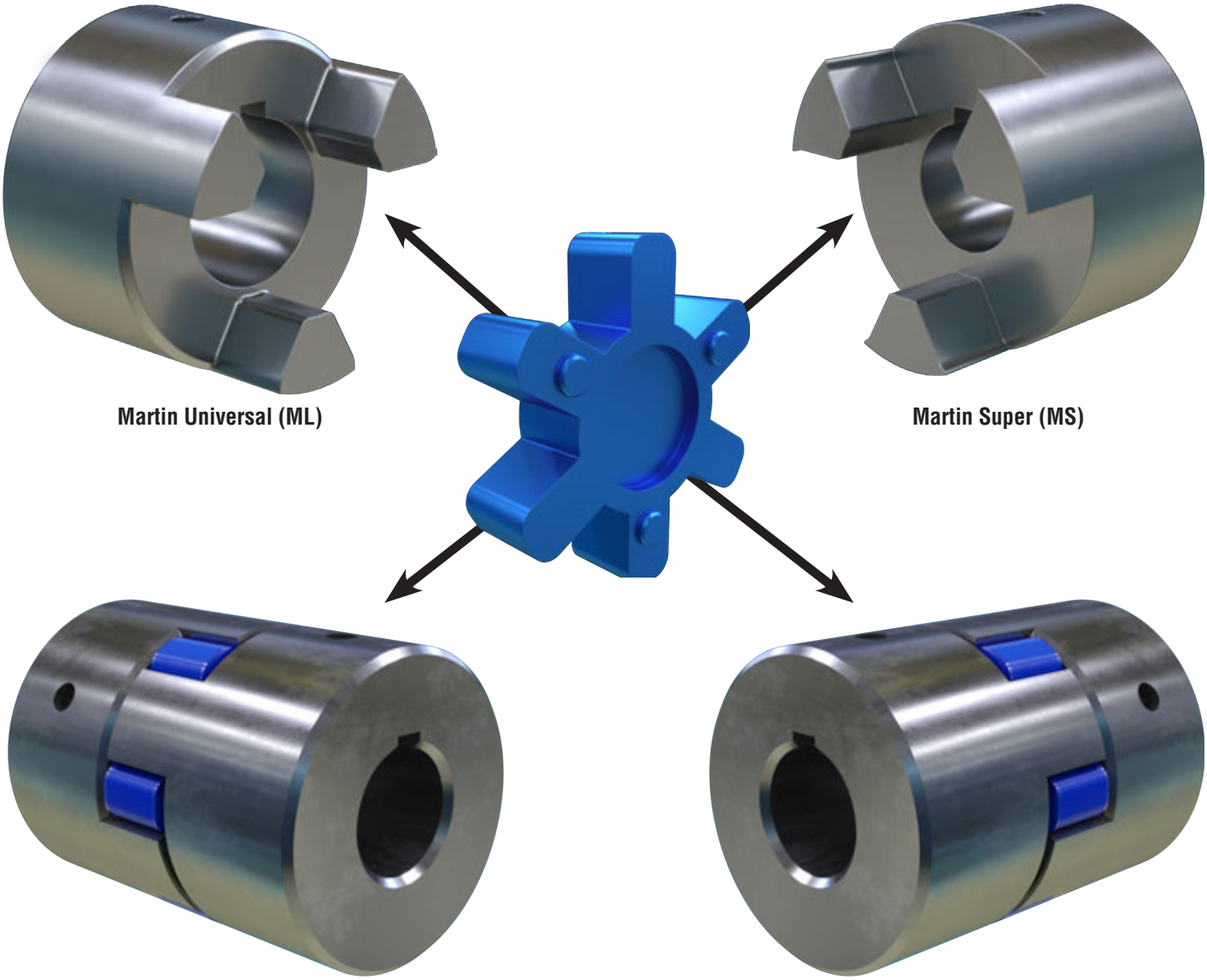



Aluminum and Plastic

| Cover Cat. No. | Aluminum | | Plastic | | Weight (lb) |
|---|---|---|---|---|---|
| | D | W | D | W | |
| 4012COV** | 4.000 | 2.000 | 4.000 | 2.313 | 0.8 |
| 4016COV** | 4.000 | 2.000 | 4.000 | 2.313 | 0.9 |
| 5016COV** | 5.125 | 2.375 | 5.125 | 2.625 | 1.3 |
| 5018COV** | 5.125 | 2.375 | 5.125 | 2.625 | 1.3 |
| 6018COV** | 6.375 | 2.938 | 6.375 | 3.167 | 2.4 |
| 6020COV** | 6.375 | 2.938 | 6.375 | 3.167 | 2.4 |
| 6022COV* | 8.188 | 4.000 | 8.188 | 4.000 | 4.9 |
| 8018COV | 8.188 | 4.000 | 8.188 | 4.000 | 4.9 |
| 8020COV | 8.188 | 4.000 | 8.188 | 4.000 | 4.9 |
| 10018COV | 9.375 | 5.938 | 9.375 | 5.938 | 8.8 |
| 10020COV | 10.125 | 5.250 | 10.125 | 5.250 | 12.7 |
| 12018COV | 11.375 | 7.375 | 11.375 | 7.375 | 16.5 |
| 12022COV | 13.250 | 7.938 | 13.250 | 7.938 | 19.5 |

* Use 8018 cover — Special Seals Available
** Furnished in Plastic unless specified with AL Suffix when ordering.

# Flexible Jaw Couplings




## Now Martin Offers Two Styles

## The Martin Super — Higher Horsepower

## The Martin Universal — Completely Interchangeable

- No lubrication
- Easy installation
- No metal to metal contact
- Resistant to oil, dirt, sand, moisture, grease
- Easy inspection of load carrying spider
- Flexibility of angular or parallel misalignment of shafts by buna-n spider member permits smooth power transmission

# Stock Jaw Couplings

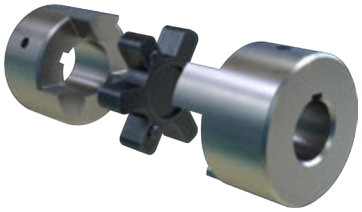
### Jaw Coupling Selection Procedure

A. Determine service factor by matching driven unit with prime mover in service factor guide.

B. Multiply service factor by driven unit or motor hp to obtain adjusted HP.

C. Select flexible coupling with horsepower capacity equal to or greater than adjusted hp.

| Service Factor Guide | Prime Mover | | |
|---|---|---|---|
| Driven Unit (Machinery) | Electric Motor or Steam Turbine | Gasoline or Diesel Engine, 6 or More Cyl. | Gasoline or Diesel Engine, Less Than 6 Cyl. |
| **Light:** Uniform or steady load never exceeding horsepower rating, infrequent starting. Agitators, Blowers, Conveyors, Evaporators, Fans, Generators, Centrifugal Pumps, Stokers | 1.0 | 1.5 | 2.0 |
| **Moderate:** Heavy inertia, moderate shock, frequent starting; peak loads do not exceed 125 per cent average horsepower. Uneven load. Beaters, Rotary Pumps and Compressors, Cranes, Elevators, Mine and Propellor Fans, Generators, Pulp Grinders, Hoists, Kilns, Machine Tools, Mixers, Gear Pumps, Woodworking Machines | 1.5 | 2.0 | 2.5 |
| **Heavy:** Heavy shock conditions or frequent reversing. Peak loads do not exceed 150 per cent average horsepower. Uneven load. Reciprocating Pumps and Compressors, Crushers, Freight and Passenger Elevators, Mills (Hammer, Ball, Rolling, Turf, Flour), Vibrating Screens, Winches, Wire Drawing Machines, Punches, Shears | 2.0 | 2.5 | 3.0 |



**Bore Tolerances:**
**0.5 – 1.75 + 0.001 – 0.000**
**1.8125 – 2.625 + 0.0015 – 0.0000**

## Martin ML (Universal Series) — Torque and Horsepower Ratings

| Catalog Number | Stainless Steel Catalog Number | Torque Rating lb — in | | Buna-N Horsepower Capacity at Various RPM | | | | | Max. Bore | (Each) Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Buna-N | Hytrel® | 100 | 300 | 1200 | 1800 | 3600 | | |
| ML035 | ML035SS | 3.5 | — | 0.006 | 0.02 | 0.07 | 0.10 | 0.20 | 0.375 | 0.10 |
| ML050 | ML050SS | 31.5 | 94.5 | 0.05 | 0.15 | 0.60 | 0.9 | 1.8 | 0.625 | 0.15 |
| ML070 | ML070SS | 43.2 | 126 | 0.07 | 0.21 | 0.84 | 1.2 | 2.5 | 0.750 | 0.31 |
| ML075 | ML075SS | 90 | 242 | 0.13 | 0.39 | 1.56 | 2.3 | 4.7 | 0.875 | 0.45 |
| ML090 | ML090SS | 144 | 420 | 0.22 | 0.66 | 2.64 | 4.0 | 7.9 | 1.125 | 0.75 |
| ML095 | ML095SS | 194 | 567 | 0.30 | 0.90 | 3.6 | 5.4 | 10.8 | 1.125 | 0.89 |
| ML099 | ML099SS | 318 | 870 | 0.46 | 1.4 | 5.5 | 8.3 | 16.6 | 1.375 | 1.02 |
| ML100 | ML100SS | 417 | 1,248 | 0.66 | 2.0 | 7.9 | 11.9 | 23.8 | 1.375 | 1.48 |
| ML110 | ML110SS | 792 | 2,268 | 1.2 | 3.6 | 14.4 | 21.6 | 43.2 | 1.625 | 3.18 |
| ML150 | ML150SS | 1,240 | 3,708 | 1.9 | 5.7 | 22.8 | 34.2 | 68.4 | 1.875 | 4.83 |
| ML190 | ML190SS | 1,728 | 4,680 | 2.4 | 7.2 | 28.8 | 43.2 | 86.4 | 2.125 | 7.65 |
| ML225 | ML225SS | 2,340 | 6,804 | 3.6 | 10.8 | 43.2 | 64.8 | 129.6 | 2.625 | 10.66 |
| ML276 | ML276SS | 4,716 | 7,860 | | | | | | 2.875 | |

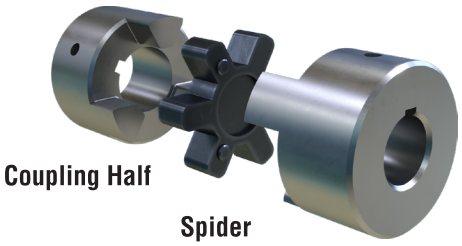
## Martin MS (Super Series) — Torque and Horsepower Ratings

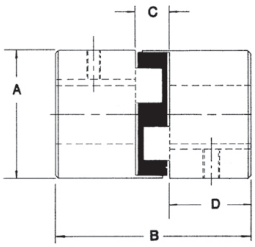
| Catalog Number | Torque Rating lb — in | | Buna-N Horsepower Capacity at Various RPM | | | | | Max. Bore | (Each) Weight |
|---|---|---|---|---|---|---|---|---|---|
| | Buna-N | Hytrel® | 100 | 300 | 1200 | 1800 | 3600 | | |
| MS050 | 37.3 | 112 | 0.06 | 0.18 | 0.71 | 1.0 | 2.1 | 0.625 | 0.13 |
| MS070 | 59.4 | 178 | 0.09 | 0.28 | 1.1 | 1.7 | 3.4 | 0.750 | 0.25 |
| MS075 | 157 | 471 | 0.25 | 0.75 | 3.0 | 4.5 | 8.9 | 0.875 | 0.53 |
| MS090 | 241 | 723 | 0.38 | 1.1 | 4.6 | 6.9 | 13.7 | 1.125 | 0.58 |
| MS095 | 241 | 723 | 0.38 | 1.1 | 4.6 | 6.9 | 13.7 | 1.125 | 0.70 |
| MS099 | 512 | 1536 | 0.81 | 2.4 | 9.7 | 14.6 | 29.2 | 1.325 | 1.12 |
| MS100 | 512 | 1536 | 0.81 | 2.4 | 9.7 | 14.6 | 29.2 | 1.325 | 1.43 |
| MS110 | 1014 | 3042 | 1.6 | 4.8 | 19.3 | 28.9 | 57.8 | 1.325 | 3.24 |
| MS150 | 1630 | 4890 | 2.6 | 7.7 | 31.0 | 46.5 | 93.0 | 1.875 | 4.76 |
| MS190 | 2450 | 7350 | 3.9 | 11.6 | 46.6 | 69.9 | 139.7 | 2.125 | 7.66 |
| MS225 | 2920 | 8760 | 4.6 | 13.9 | 55.5 | 83.2 | 166.5 | 2.625 | 10.76 |

NOTE: Above HP capacities are for Buna-N rubber spider and service factor of one. When Hytrel spider is used multiply capacities by three.
**Misalignment Capacities: Angular up to 1°, Parallel up to .015 inches.**
Hytrel is a registered trademark of E.I. DuPont & Co.

# Stock
# Jaw Couplings

| Catalog Number | Hub Dia. | Overall Length | Distance Between Flanges | Length Thru Bore | Bore | | Wt. (lb) |
|---|---|---|---|---|---|---|---|
| | A | B | C | D | Min. | Max. | |
| ML035 | 0.625 | 0.813 | 0.281 | 0.266 | 0.125 | 0.375 | 0.1 |
| ML050 or MS050 | 1.167 | 1.719 | 0.469 | 0.625 | 0.250 | 0.625 | 0.1 |
| ML070 or MS070 | 1.375 | 2.000 | 0.500 | 0.750 | 0.250 | 0.750 | 0.3 |
| ML075 or MS075 | 1.750 | 2.125 | 0.500 | 0.813 | 0.250 | 0.875 | 0.4 |
| ML090 or MS090 | 2.125 | 2.125 | 0.500 | 0.813 | 0.250 | 1.125 | 0.7 |
| ML095 or MS095 | 2.125 | 2.500 | 0.500 | 1.000 | 0.438 | 1.125 | 0.8 |
| ML099 or MS099 | 2.531 | 2.875 | 0.750 | 1.067 | 0.500 | 1.375 | 1.2 |
| ML100 or MS100 | 2.531 | 3.500 | 0.750 | 1.375 | 0.438 | 1.375 | 1.5 |
| ML110 or MS110 | 3.313 | 4.250 | 0.875 | 1.688 | 0.500 | 1.625 | 3.2 |
| ML150 or MS150 | 3.750 | 4.500 | 1.000 | 1.750 | 0.625 | 1.875 | 4.5 |
| ML190 or MS190 | 4.500 | 4.875 | 1.000 | 1.938 | 0.750 | 2.125 | 8.3 |
| ML225 or MS225 | 5.000 | 5.375 | 1.000 | 2.188 | 0.750 | 2.625 | 12.0 |
| ML276 | 6.180 | 7.813 | 1.580 | 3.120 | 0.875 | 2.875 | 30.5 |




Bore sizes are standard in .0625 increments from minimum to maximum bore range and have keyway and set screw except as shown below:
.125 through .375 Bore — No KW — No SS
#050 — .438 through .625 Bore — No KW — 1-SS
#070, 075, 090, 095 — .438 and .5 Bore — No KW — 1-SS
#099, 100, 110 — .5 Bore — No KW — No SS
#150 — .625 Bore — No KW — No SS
#190, 225 — .75 Bore — No KW — No SS

Note: in each coupling size a min. Plain bore is available that can be used to make special bores such as spline, hex, metric, or other shapes or sizes. For standard keyway sizes see Martin catalog, page E-158 and E-159.

## Spiders

| Description | Temp Range | Misalignment | | Dampening | Color |
|---|---|---|---|---|---|
| | | Angular | Parallel | | |
| **Buna-N** – Nitrile butadiene rubber is a flexible elastomer material that is oil resistant, resembles natural rubber in resilience and elasticity. Good resistance to oil. Standard elastomer. | -40° to 212° F<br>-40° to 100° C | 1° | 0.015 | High | Black |
| **URETHANE** – Urethane has greater torque capability than NBR (1.5 times), provides less dampening effect. Good resistance to oil and chemicals. Not recommended for cyclic or start/stop applications. | -30° to 160° F<br>-34° to 71° C | 1° | 0.015 | Low | Blue |
| **HYTREL®** – Hytrel is a flexible elastomer designed for high torque and high temperature operations. Hytrel has an excellent resistance to oil and chemicals. Not recommended for cyclic or start/stop applications. | -60° to 250° F<br>-51° to 121° C | 1/2° | 0.015 | Low | Tan |
| **BRONZE** – Bronze is a rigid, porous oil-impregnated metal insert exclusively for slow speed (maximum 250 RPM) applications requiring high torque capabilities. Bronze operations are not affected by extreme temperatures, water, oil, or dirt. | -40° to 450° F<br>-40° to 232° C | 1/2° | 0.015 | N/A | Bronze |

| Temperature Range | | | -40° to 212° | | | | | -30° to 160° | | | | | -60° to 250° | | | | | -40° to 450° | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size | Max Bore | | Buna-N Torque | | | | | Urethane Torque | | | | | Hytrel Torque | | | | | Bronze Torque | | | |
| | in | mm | Part Number | in-lb | Nm | RPM | Wt. lb | Part Number | in-lb | Nm | RPM | Wt. lb | Part Number | in-lb | Nm | RPM | Wt. lb | Part Number | in-lb | Nm | RPM | Wt. lb |
| ML035 | 0.375 | 9 | SRL35 | 3.5 | 0.4 | 31,000 | 0.01 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| ML050 | 0.625 | 16 | SRL50 | 26.3 | 3 | 18,000 | 0.01 | SUL50 | 39 | 4.5 | 18,000 | 0.01 | SHL50 | 50 | 5.6 | 18,000 | 0.01 | SBL50 | 50 | 5.6 | 250 | 0.06 |
| ML070 | 0.750 | 19 | SRL70 | 43.2 | 4.9 | 14,000 | 0.02 | SHL70 | 65 | 7.3 | 14,000 | 0.02 | SHL70 | 114 | 12.9 | 3,600 | 0.02 | SBL70 | 114 | 12.9 | 250 | 0.08 |
| ML075 | 0.875 | 22 | SRL75 | 90 | 10.2 | 11,000 | 0.03 | SHL75 | 135 | 15.3 | 11,000 | 0.03 | SHL75 | 227 | 25.6 | 3,600 | 0.03 | SBL75 | 227 | 25.6 | 250 | 0.15 |
| ML090 | 1.000 | 25 | SRL90 | 144 | 16.3 | 9,000 | 0.04 | SHL90 | 216 | 24.4 | 9,000 | 0.04 | SHL90 | 401 | 45.3 | 3,600 | 0.04 | SBL90 | 401 | 45.3 | 250 | 0.17 |
| ML095 | 1.125 | 28 | SRL95 | 194 | 21.9 | 9,000 | 0.04 | SHL95 | 291 | 32.9 | 9,000 | 0.04 | SHL95 | 561 | 63.4 | 3,600 | 0.04 | SBL95 | 561 | 63.4 | 250 | 0.17 |
| ML099 | 1.188 | 30 | SRL99 | 318 | 35.9 | 7,000 | 0.07 | SHL99 | 477 | 53.9 | 7,000 | 0.07 | SHL99 | 792 | 89.5 | 3,600 | 0.07 | SBL99 | 792 | 89.5 | 250 | 0.50 |
| ML100 | 1.375 | 35 | SRL100 | 417 | 47.1 | 7,000 | 0.07 | SHL100 | 626 | 70.7 | 7,000 | 0.07 | SHL100 | 1,134 | 128 | 3,600 | 0.07 | SBL100 | 1,134 | 128 | 250 | 0.50 |
| ML110 | 1.625 | 42 | SRL110 | 792 | 89.5 | 5,000 | 0.14 | SHL110 | 1,188 | 134 | 5,000 | 0.14 | SHL110 | 2,268 | 256 | 5,000 | 0.14 | SBL110 | 2,268 | 256 | 250 | 0.62 |
| ML150 | 1.875 | 48 | SRL150 | 1,240 | 140 | 5,000 | 0.21 | SHL150 | 1,860 | 210 | 5,000 | 0.21 | SHL150 | 3,708 | 419 | 5,000 | 0.21 | SBL150 | 3,706 | 419 | 250 | 1.00 |
| ML190 | 2.125 | 55 | SRL190 | 1,728 | 195 | 5,000 | 0.27 | SHL190 | 2,592 | 293 | 5,000 | 0.27 | SHL190 | 4,680 | 529 | 5,000 | 0.27 | SBL190 | 4,680 | 529 | 250 | 1.30 |
| ML225 | 2.625 | 65 | SRL225 | 2,340 | 264 | 4,200 | 0.41 | SHL225 | 3,510 | 397 | 4,200 | 0.41 | SHL225 | 6,228 | 704 | 4,200 | 0.41 | SBL225 | 6,228 | 704 | 250 | 1.60 |
| ML276 | 2.875 | 73 | SRL276 | 4,716 | 533 | 1,800 | 1.04 | — | — | — | — | — | — | — | — | — | — | SBL276 | 12,500 | 1,412 | 250 | 2.80 |

## Coupling Selection Chart for 60 Hz Nema Motor Frames Based on Buna-N (Rubber) Spider ▲†

| Shaft Dia. | Nema Frame | Coupling Size | Max. HP @ RPM | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 1140 | | 1725 | | 3450 | |
| | | | MS | ML | MS | ML | MS | ML |
| 0.375 | 42 | 050 | 0.5 | 0.5 | 1 | 0.75 | 2 | 1.5 |
| 0.500 | 48 | 050 | 0.5 | 0.5 | 1 | 0.75 | 2 | 1.5 |
| 0.625 | 56,56 H | 050 | 0.5 | 0.5 | 1 | 0.75 | 2 | 1.5 |
| 0.750 | 66 | 070 | 1 | 0.75 | 1.5 | 1 | 3 | 2 |
| 0.875 | 56HZ, 143T, 145T | 075 | 2 | 1 | 3 | 2 | 7.5 | 3 |
| | 182, 184 | 090 | 3 | 2 | 5 | 3 | 10 | 7.5 |
| 1.375 | 182T, 184T, 213 | 095 | 3 | 3 | 5 | 5 | 10 | 10 |
| | 215 | 099 | 7.5 | 5 | 10 | 7.5 | 25 | 15 |

| Shaft Dia. | Nema Frame | Coupling Size | Max. HP @ RPM | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 1140 | | 1725 | | 3450 | |
| | | | MS | ML | MS | ML | MS | ML |
| 1.875 | 213T, 215T, 245U, 256U | 100 | 7.5 | 7.5 | 10 | 10 | 25 | 20 |
| 2.125 | 254T, 256T, 248U, 286U | 110 | 15 | 10 | 25 | 20 | 50 | 40 |
| 2.375 | 284T, 286T, 324U, 326U, 326TS | 150 | 30 | 20 | 40 | 30 | 75 | 60 |
| 2.125 | 324T, 326T, 364U, 365U | 190 | 40 | 25 | 60 | 40 | 125 | 75 |
| 2.375 | 364T, 365T | 225 | 50 | 40 | 75 | 60 | 150 | 100 |

Coupling Sizes are based on the rated torque, max. bore and a have a service factor of 1.0.
**▲ When using Hytrel or Bronze spider multiply above horsepower ratings by 3.**
**† When using Urethane spider multiply above horsepower ratings by 1.5.**

# Jaw Couplings
# Imperial Bores

| Bore | Keyway | ML035 | ML050 | ML070 | ML075 | ML090 | ML095 | ML099 | ML100 | ML110 | ML150 | ML190 | ML225 | ML276 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reboreable | | | | ML070BLK 1/4 | ML075BLK 1/4 | ML090BLK 1/4 | ML095BLK 7/16 | ML099BLK 7/16 | ML100BLK 7/16 | ML110BLK 5/8 | ML150BLK 3/4 | ML190BLK 3/4 | ML225BLK 3/4 | ML276BLK 7/8 |
| Reboreable | | | | | | | | ML099BLK 1/2 | ML100BLK 1/2 | | | ML190BLK 1 3/8 | ML225BLK 1 3/8 | |
| Reboreable | | | | | | | | | ML100BLK 1 1/4 | | | | ML225BLK 1 1/2 | |
| 1/8 | No KW | ML035 1/8 | | | | | | | | | | | | |
| 3/16 | No KW | ML035 3/16 | | | | | | | | | | | | |
| 1/4 | No KW | ML035 1/4 | | | | ML090 1/4 | | | | | | | | |
| 1/4 | | | ML050 1/4 | ML070 1/4 | ML075 1/4 | | | | | | | | | |
| 5/16 | No KW | ML035 5/16 | ML050 5/16 | ML070 5/16 | ML075 5/16 | ML090 5/16 | | | | | | | | |
| 5/16 | | | | | ML075 5/16 NKW | | | | | | | | | |
| 3/8 | No KW | ML035 3/8 | ML050 3/8 | ML070 3/8 | ML075 3/8 | ML090 3/8 | | | | | | | | |
| 3/8 | | | ML050 3/8 W/KW | ML070 3/8 W/KW | ML075 3/8 W/KW | ML090 3/8 W/KW | | | | | | | | |
| 3/8 | | | ML050 3/8N/S KW | | | ML090 3/8N/S KW | | | | | | | | |
| 7/16 | No KW | | ML050 7/16 | ML070 7/16 | ML075 7/16 | ML090 7/16 | ML095 7/16 | ML099 7/16 W/KW | ML100 7/16 | | | | | |
| 7/16 | | | | | ML075 7/16 W/KW | ML090 7/16 W/KW | ML095 7/16 W/KW | | | | | | | |
| 7/16 | | | | | ML075 7/16 NSKW | ML090 7/16 NSKW | | | | | | | | |
| 1/2 | No KW | | ML050 1/2 | ML070 1/2 | ML075 1/2 | | ML095 1/2 | ML099 1/2 | ML100 1/2 | ML110 1/2 | | | | |
| 1/2 | | | ML050 1/2 W/KW | ML070 1/2 W/KW | ML075 1/2 W/KW | ML090 1/2 | ML095 1/2 W/KW | ML099 1/2 W/KW | | | | | | |
| 9/16 | No KW | | ML050 9/16 W/KW | ML070 9/16 | ML075 9/16 NKW | ML090 9/16 NKW | ML095 9/16 NKW | ML099 9/16 NKW | | | | | | |
| 9/16 | | | ML050 9/16 | | ML075 9/16 | ML090 9/16 | ML095 9/16 | ML099 9/16 | ML100 9/16 | | | | | |
| 5/8 | No KW | | ML050 5/8 | ML070 5/8 NKW | ML075 5/8 NKW | | | ML099 5/8 NKW | | ML110 5/8 NKW | ML150 5/8 NKW | | | |
| 5/8 | | | | ML070 5/8 | ML075 5/8 | ML090 5/8 | ML095 5/8 | ML099 5/8 | ML100 5/8 | ML110 5/8 | ML150 5/8 | | | |
| 5/8 | | | | ML070 5/8 NSKW | ML075 5/8N/S KW | ML090 5/8N/S KW | ML095 5/8 NKW | | ML100 5/8N/S KW | ML110 5/8 NSKW | ML150 5/8 NSKW | | | |
| 11/16 | | | | ML070 11/16 | ML075 11/16 | ML090 11/16 | ML095 11/16 | ML099 11/16 | ML100 11/16 | ML110 11/16 | ML150 11/16 | | | |
| 3/4 | No KW | | | | | ML090 3/4 NKW | | ML099 3/4 NKW | ML100 3/4 NSKW | | | | ML225 3/4 | |
| 3/4 | | | | ML070 3/4 | ML075 3/4 | ML090 3/4 | ML095 3/4 | ML099 3/4 | ML100 3/4 | ML110 3/4 | ML150 3/4 | ML190 3/4 | | |
| 3/4 | | | | ML070 3/4 NSKW | ML075 3/4 NSKW | | ML095 3/4 NSKW | | | | | ML190 3/4 W/KW | | |
| 13/16 | | | | | ML075 13/16 | ML090 13/16 | ML095 13/16 | ML099 13/16 | ML100 13/16 | ML110 13/16 | ML150 13/16 | ML190 13/16 | ML225 13/16 | ML276 7/8 |
| 7/8 | No KW | | | | | | | ML099 7/8 NKW | | | | | | |
| 7/8 | | | | | ML075 7/8 | ML090 7/8 | ML095 7/8 | ML099 7/8 | ML100 7/8 | ML110 7/8 | ML150 7/8 | ML190 7/8 | ML225 7/8 | |
| 7/8 | | | | | | | | ML099 7/8 NSKW | ML100 7/8 NSKW | ML110 7/8 NSKW | ML150 7/8 NSKW | ML190 7/8 NSKW | ML225 7/8 NSKW | |
| 15/16 | | | | | | ML090 15/16 | ML095 15/16 | ML099 15/16 | ML100 15/16 | ML110 15/16 | ML150 15/16 | ML190 15/16 | ML225 15/16 | |
| 1 | | | | | | ML090 1 | ML095 1 | ML099 1 | ML100 1 | ML110 1 | ML150 1 | ML190 1 | ML225 1 | ML276 1 |
| 1 | | | | | | ML090 1 N/S KW | ML095 1 N/S KW | | ML100 1 NSKW | | ML150 1 N/S KW | | ML225 1 N/S KW | |
| 1 1/16 | | | | | | ML090 1 1/16 | ML095 1 1/16 | ML099 1 1/16 | ML100 1 1/16 | ML110 1 1/16 | ML150 1 1/16 | ML190 1 1/16 | ML225 1 1/16 | |
| 1 1/8 | | | | | | ML090 1 1/8 | ML095 1 1/8 | ML099 1 1/8 | ML100 1 1/8 | ML110 1 1/8 | ML150 1 1/8 | ML190 1 1/8 | ML225 1 1/8 | ML276 1 1/8 |
| 1 3/16 | | | | | | | | ML099 1 3/16 | ML100 1 3/16 | ML110 1 3/16 | ML150 1 3/16 | ML190 1 3/16 | ML225 1 3/16 | |
| 1 1/4 | | | | | | | | ML099 1 1/4 | ML100 1 1/4 | ML110 1 1/4 | ML150 1 1/4 | ML190 1 1/4 | ML225 1 1/4 | ML276 1 1/4 |
| 1 1/4 | | | | | | | | | | ML110 1 1/4 N/S | ML150 1 1/4 N/S | | ML225 1 1/4NSKW | ML276 1 1/4NSKW |
| 1 5/16 | | | | | | | | ML099 1 5/16 | ML100 1 5/16 | ML110 1 5/16 | ML150 1 5/16 | ML190 1 5/16 | ML225 1 5/16 | |
| 1 3/8 | | | | | | | | ML099 1 3/8 | ML100 1 3/8 | ML110 1 3/8 | ML150 1 3/8 | ML190 1 3/8 | ML225 1 3/8 | ML276 1 3/8 |
| 1 3/8 | | | | | | | | | | | | | | |
| 1 7/16 | | | | | | | | | | ML110 1 7/16 | ML150 1 7/16 | ML190 1 7/16 | ML225 1 7/16 | ML276 1 7/16 |
| 1 1/2 | | | | | | | | | | ML110 1 1/2 | ML150 1 1/2 | ML190 1 1/2 | ML225 1 1/2 | ML276 1 1/2 |
| 1 1/2 | | | | | | | | | | | | | | |
| 1 9/16 | | | | | | | | | | ML110 1 9/16 | ML150 1 9/16 | ML190 1 9/16 | ML225 1 9/16 | |
| 1 5/8 | | | | | | | | | | ML110 1 5/8 | ML150 1 5/8 | ML190 1 5/8 | ML225 1 5/8 | ML276 1 5/8 |
| 1 11/16 | | | | | | | | | | | ML150 1 11/16 | ML190 1 11/16 | ML225 1 11/16 | ML276 1 11/16 |
| 1 3/4 | | | | | | | | | | | ML150 1 3/4 | ML190 1 3/4 | ML225 1 3/4 | ML276 1 3/4 |
| 1 3/4 | | | | | | | | | | | | | | |
| 1 13/16 | | | | | | | | | | | ML150 1 13/16 | ML190 1 13/16 | ML225 1 13/16 | |
| 1 7/8 | | | | | | | | | | | ML150 1 7/8 | ML190 1 7/8 | ML225 1 7/8 | ML276 1 7/8 |
| 1 15/16 | | | | | | | | | | | | ML190 1 15/16 | ML225 1 15/16 | ML276 1 15/16 |
| 2 | | | | | | | | | | | | ML190 2 | ML225 2 | ML276 2 |
| 2 1/16 | | | | | | | | | | | | ML190 2 1/16 | ML225 2 1/16 | |
| 2 1/8 | | | | | | | | | | | | ML190 2 1/8 | ML225 2 1/8 | ML276 2 1/8 |
| 2 3/16 | | | | | | | | | | | | | ML225 2 3/16 | ML276 2 3/16 |
| 2 1/4 | | | | | | | | | | | | | ML225 2 1/4 | ML276 2 1/4 |
| 2 5/16 | | | | | | | | | | | | | ML225 2 5/16 | |
| 2 3/8 | | | | | | | | | | | | | ML225 2 3/8 | ML276 2 3/8 |
| 2 7/16 | | | | | | | | | | | | | ML225 2 7/16 | |
| 2 1/2 | | | | | | | | | | | | | ML225 2 1/2 | ML276 2 1/2 |
| 2 5/8 | | | | | | | | | | | | | ML225 2 5/8 | ML276 2 5/8 |
| 2 3/4 | | | | | | | | | | | | | | ML276 2 3/4 |
| 2 7/8 | | | | | | | | | | | | | | ML276 2 7/8 |

# Jaw Couplings
# Metric and Spline Bores

## Metric Bore Chart

| Bore | Keyway | ML035 | ML050 | ML070 | ML075 | ML090 | ML095 | ML099 | ML100 | ML110 | ML150 | ML190 | ML225 | ML276 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4MM | No KW | ML035 4MM | | | | | | | | | | | | |
| 5MM | No KW | ML035 5MM | ML050 5MM | | | | | | | | | | | |
| 6MM | No KW | ML035 6MM | ML050 6MM NKW | | | | | | | | | | | |
| 7MM | No KW | | | ML070 7MM NKW | | | | | | | | | | |
| 7MM | | | ML050 7MM | | | | | | | | | | | |
| 8MM | No KW | ML035 8MM | ML050 8MM NKW | ML070 8MM NKW | | ML090 8MM NKW | | | | | | | | |
| 9MM | No KW | | | | | | | | | | | | | |
| 9MM | | | ML050 9MM | ML070 9MM | ML075 9MM | | | | | | | | | |
| 10MM | No KW | | ML050 10MM NKW | ML070 10MM NKW | ML075 10MM NKW | | | | | | | | | |
| 10MM | | | ML050 10MM | ML070 10MM | ML075 10MM | ML090 10MM | | | | | | | | |
| 11MM | No KW | | | | | ML090 12MM | | | | | | | | |
| 11MM | | | ML050 11MM | ML070 11MM | ML075 11MM | | ML095 11MM | | | | | | | |
| 12MM | No KW | | ML050 12MM NKW | ML070 12MM NKW | | ML090 12MM NKW | | | | | | | | |
| 12MM | | | ML050 12MM | ML070 12MM | ML075 12MM | | ML095 12MM | | ML100 12MM | | | | | |
| 14MM | No KW | | ML050 14MM NKW | ML070 14MM NKW | | ML090 14MM NKW | ML095 14MM | | | | | | | |
| 14MM | | | ML050 14MM | ML070 14MM | ML075 14MM | ML090 14MM | | ML099 14MM | ML100 14MM | | | | | |
| 15MM | No KW | | ML050 15MM NKW | | ML075 15MM NKW | | ML095 15MM NKW | ML099 15MM NKW | ML100 15MM NKW | | | | | |
| 15MM | | | ML050 15MM | ML070 15MM | ML075 15MM | ML090 15MM | ML095 15MM | ML099 15MM | ML100 15MM | | | | | |
| 16MM | No KW | | | | | | | | | | | | | |
| 16MM | | | ML050 16MM | ML070 16MM | ML075 16MM | ML090 16MM | ML095 16MM | ML099 16MM | ML100 16MM | ML110 16MM | ML150 16MM | | | |
| 17MM | | | | ML070 17MM | ML075 17MM | | ML095 17MM | | ML100 17MM | ML110 17MM | ML150 17MM | | | |
| 18MM | | | | ML070 18MM | ML075 18MM | ML090 18MM | ML095 18MM | ML099 18MM | ML100 18MM | ML110 18MM | | | | |
| 19MM | No KW | | | | | ML090 19MM NKW | | | | | | | | |
| 19MM | | | | ML070 19MM | ML075 19MM | ML090 19MM | ML095 19MM | ML099 19MM | ML100 19MM | ML110 19MM | ML150 19MM | ML190 19MM | | |
| 20MM | | | | | ML075 20MM | ML090 20MM | ML095 20MM | ML099 20MM | ML100 20MM | ML110 20MM | ML150 20MM | ML190 20MM | | |
| 22MM | | | | | ML075 22MM | ML090 22MM | ML095 22MM | ML099 22MM | ML100 22MM | ML110 22MM | ML150 22MM | | | |
| 24MM | | | | | | ML090 24MM | ML095 24MM | ML099 24MM | ML100 24MM | ML110 24MM | ML150 24MM | ML190 24MM | | |
| 25MM | | | | | | ML090 25MM | ML095 25MM | ML099 25MM | ML100 25MM | ML110 25MM | ML150 25MM | | | |
| 28MM | No KW | | | | | | | | | | ML150 28MM NKW | ML190 28MM NKW | | |
| 28MM | | | | | | | ML095 28MM | ML099 28MM | ML100 28MM | ML110 28MM | ML150 28MM | ML190 28MM | | |
| 30MM | | | | | | | | ML099 30MM | ML100 30MM | ML110 30MM | ML150 30MM | ML190 30MM | ML225 30MM | |
| 32MM | No KW | | | | | | | | | | ML150 32MM NKW | | ML225 32MM NKW | ML276 32MM NKW |
| 32MM | | | | | | | | | ML100 32MM | ML110 32MM | ML150 32MM | ML190 32MM | ML225 32MM | ML276 32MM |
| 34MM | | | | | | | | | ML100 34MM | | | | | |
| 35MM | No KW | | | | | | | | | | ML150 35MM NKW | ML190 35MM NKW | ML225 35MM NKW | |
| 35MM | | | | | | | | | ML100 35MM | ML110 35MM | ML150 35MM | ML190 35MM | ML225 35MM | |
| 38MM | | | | | | | | | | ML110 38MM | ML150 38MM | ML190 38MM | ML225 38MM | ML276 38MM |
| 40MM | | | | | | | | | | ML110 42MM | ML150 42MM | ML190 42MM | ML225 42MM | ML276 42MM |
| 45MM | | | | | | | | | | | ML150 45MM | ML190 45MM | ML225 45MM | ML276 45MM |
| 48MM | No KW | | | | | | | | | | ML150 48MM NKW | | | |
| 48MM | | | | | | | | | | | ML150 48MM | ML190 48MM | ML225 48MM | ML276 48MM |
| 50MM | No KW | | | | | | | | | | | ML190 50MM NKW | ML225 50MM NKW | ML276 50MM NKW |
| 50MM | | | | | | | | | | | | ML190 50MM | ML225 50MM | ML276 50MM |
| 55MM | No KW | | | | | | | | | | | ML190 55MM NKW | ML225 55MM NKW | ML276 55MM NKW |
| 55MM | | | | | | | | | | | | ML190 55MM | ML225 55MM | ML276 55MM |
| 60MM | No KW | | | | | | | | | | | | | ML276 60MM NKW |
| 60MM | | | | | | | | | | | | | ML225 60MM | ML276 60MM |
| 65MM | No KW | | | | | | | | | | | | | ML276 65MM NKW |
| 65MM | | | | | | | | | | | | | ML225 65MM | ML276 65MM |
| 70MM | | | | | | | | | | | | | | ML276 70MM |

## Spline Bore Chart

| Major Dia. | Teeth | Pitch | ML090 | ML095 | ML099 | ML100 | ML110 | ML150 | ML190 | ML225 | ML276 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/8 | 9 | 16/32 | ML090SPL 5/8 | ML095SPL 5/8 | ML099SPL 5/8 | ML100SPL 5/8 | | | | | |
| 3/4 | 11 | 16z/32 | ML090SPL 3/4 | ML095SPL 3/4 | | ML100SPL 3/4 | ML110SPL 3/4 | ML150SPL 3/4 | | | |
| 7/8 | 13 | 16/32 | ML090SPL 7/8 | ML095SPL 7/8 | ML099SPL 7/8 | ML100SPL 7/8 | ML110SPL 7/8 | ML150SPL 7/8 | ML190SPL 7/8 | | |
| 1 | 15 | 16/32 | | | ML099SPL 1 | ML100SPL 1 | ML110SPL 1 | ML150SPL 1 | ML190SPL 1 | ML225SPL 1 | |
| 1 1/4 | 14 | 12/24 | | | | | ML110SPL 1 1/4 | ML150SPL 1 1/4 | ML190SPL 1 1/4 | ML225SPL 1 1/4 | ML276SPL 1 1/4 |
| 1 3/8 | 21 | 16/32 | | | | | ML110SPL 1 3/8 | ML150SPL 1 3/8 | ML190SPL 1 3/8 | ML225SPL 1 3/8 | |
| 1 1/2 | 23 | 16/32 | | | | | | | | ML225SPL 1 1/2 | |
| 1 3/4 | 27 | 16/32 | | | | | ML110SPL 1 3/4 | ML150SPL 1 3/4 | ML190SPL 1 3/4 | ML225SPL 1 3/4 | |

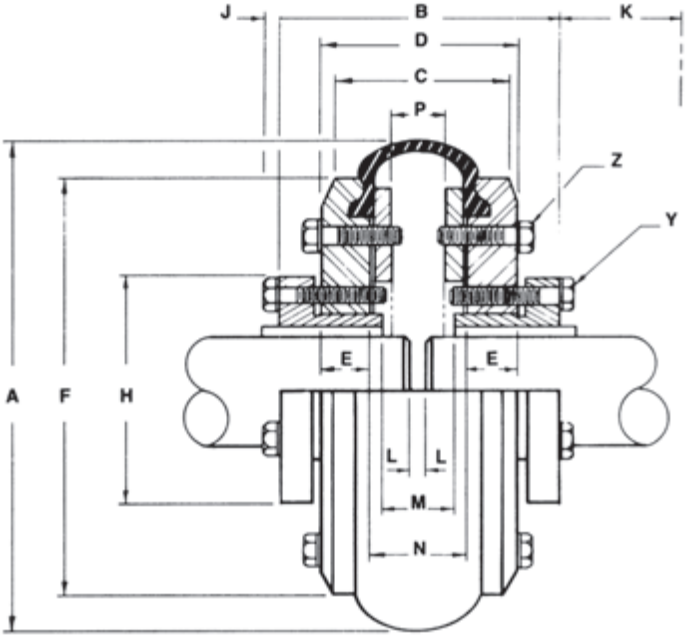
# Martin-Flex® Couplings

## Parts List and Engineering Data

| Coupling Size | QD Bushing (2 Required Per Coupling)* | Max Bore | Steel Flange Assembly (2 Required Per Coupling) | | Rubber Element (1 Required Per Coupling) | | Max RPM | Horsepower @ 100 RPM (1.0 Factor) | Torque (1.0 Service Factor) | | Average Static Torsional Stiffness Coefficient (K) | | Approx. WR** (LB - Ft²) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Flange No. | Weight Each | Element No. | Weight | | | LB - In | LB - Ft | LB - In/DEG | LB - In/RAD | |
| 5 | JA | 1 | F5JA | 3.0 | E5 | .6 | 4500 | 1.03 | 649 | 54.1 | 244 | 12,850 | .08 |
| 6 | JA | 1 | F6JA | 4.0 | E6 | .9 | 4000 | 1.80 | 1134 | 94.5 | 414 | 23,700 | .22 |
| 7 | SH | 1 3/8 | F7SH | 7.0 | E7 | 1.3 | 3600 | 3.12 | 1966 | 163.8 | 544 | 31,200 | .40 |
| 8 | SDS | 1 11/16 | F8SDS | 8.0 | E8 | 1.7 | 3100 | 4.68 | 2950 | 245.8 | 876 | 50,200 | .70 |
| 9 | SK | 2 1/8 | F9SK | 13.0 | E9 | 2.0 | 2800 | 6.90 | 4349 | 362.4 | 1088 | 62,400 | 1.33 |
| 10 | SF | 2 1/4 | F10SF | 17.0 | E10 | 2.0 | 2600 | 8.33 | 5250 | 437.5 | 1530 | 87,700 | 2.10 |
| 11 | SF | 2 1/4 | F11SF | 18.0 | E11 | 3.0 | 2300 | 9.92 | 6252 | 521.0 | 2420 | 138,700 | 2.90 |
| 12 | E | 2 7/8 | F12E | 31.0 | E12 | 3.8 | 2100 | 14.40 | 9076 | 756.3 | 4014 | 217,000 | 5.80 |

* See page B5 for QD bushing bore sizes and dimensions.
** Coupling plus QD bushing.
Weight in pounds.

Rubber tire element also available in Neoprene.




## Dimensions

| Coupling Size | A | B | C | D | E | F | H | J | K* | M | N | P | Y | Z Clamp Ring Bolts | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | B.C. Dia. | B.C. Dia. | No. and Size*** Capscrews | Torque In lb |
| 5 | 5.250 | 3.438 | 2.167 | 2.563 | 0.625 | 4.000 | 2.000 | 0.156 | 1.250 | 1.438 | 1.313 | 0.375 | 1.660 | 2.438 | (5) 1/4 - 20 × 1 1/8 | 125 |
| 6 | 6.500 | 3.563 | 2.188 | 2.688 | 0.625 | 4.938 | 2.000 | 0.156 | 1.250 | 1.563 | 1.438 | 0.500 | 1.660 | 3.313 | (5) 5/16 - 18 × 1 1/8 | 200 |
| 7 | 7.375 | 4.313 | 2.688 | 3.188 | 0.813 | 5.625 | 2.688 | 0.219 | 1.625 | 1.688 | 1.563 | 0.750 | 2.250 | 3.875 | (5) 5/16 - 18 × 1 1/4 | 300 |
| 8 | 8.375 | 4.438 | 2.813 | 3.313 | 0.813 | 6.500 | 3.188 | 0.219 | 1.625 | 1.813 | 1.688 | 0.875 | 2.688 | 4.625 | (6) 5/16 - 18 × 1 1/2 | 300 |
| 9 | 9.250 | 5.188 | 3.438 | 3.938 | 1.167 | 7.375 | 3.875 | 0.281 | 2.250 | 1.438 | 1.813 | 0.875 | 3.313 | 5.250 | (6) 3/8 - 16 × 1 3/4 | 400 |
| 10 | 10.000 | 5.813 | 3.563 | 4.167 | 1.167 | 8.313 | 4.625 | 0.313 | 2.750 | 1.563 | 1.563 | 1.000 | 3.875 | 6.000 | (6) 3/8 - 16 × 1 3/4 | 400 |
| 11 | 11.000 | 5.625 | 3.125 | 3.875 | 1.167 | 9.000 | 4.625 | 0.313 | 2.750 | 1.375 | 1.375 | 0.938 | 3.875 | 6.500 | (6) 3/8 - 16 × 1 3/4 | 400 |
| 12 | 12.375 | 7.250 | 4.000 | 4.750 | 1.375 | 10.167 | 6.000 | 0.438 | 3.250 | 1.250 | 1.250 | 0.750 | 5.000 | 7.250 | (6) 1/2 - 13 × 2 1/4 | 900 |

Shaft ends are normally M or N apart; they may project beyond the bushings. In this case allow space for end float and misalignment.
* Clearance required to remove bushing using pull-up capscrews as jackscrews.
** Grade 8.
Dimensions in inches.

**Other Sizes Available as Made-to-Order**

# Martin-Flex® Couplings

Martin Flex® flexible couplings smoothly transmit power while compensating for shaft misalignment to 4°, parallel misalignment to .125 and end float to .313. The two piece flange design provides quick and easy installation and the elastomeric element absorbs shock and torsional vibration through a wide temperature range.

## Selection Procedure

1. Select the proper service factor from Chart 1.
2. Determine **Design Horsepower** by multiplying the **Service Factor** and the **Drive Horsepower.**
3. Locate the intercept of **Shaft Speed** and **Design Horsepower** from Chart 2.
4. Order per coupling: (2) bushings, (2) flange assemblies, (1) flexible tire element.

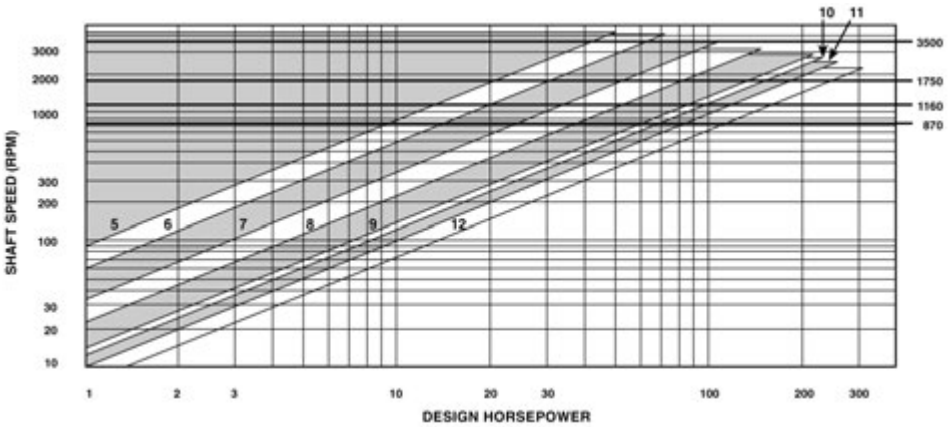
## Chart 1 Service Factors

| Application | Factor |
|---|---|
| **AGITATORS** | |
| Paddle or Propeller (Vert. or Horiz.), Screw | 1.0 |
| **BREWING AND DISTILLING** | |
| Bottling Machinery, Brew Kettle, Cooker (Cont Duty), Mash Tub | 1.0 |
| Scale Hopper — Frequent Starting Peaks | 1.5 |
| **CAN FILLING MACHINE** | 1.0 |
| **CAR DUMPER** | 1.5 |
| **CAR PULLER** | 1.5 |
| **CLARIFIER** | 1.0 |
| **CLASSIFIER** | 1.0 |
| **CLAY-WORKING MACHINES** | |
| Brick Press, Briquette Machine, Clay Working Machine, Pug Mill | 1.5 |
| **COMPRESSORS** | |
| Lobe, Rotary | 2.0 |
| Reciprocating** — | |
| 1 cyl. — single acting | 3.5 |
| 1 cyl. — double acting | 3.0 |
| 2 cyl. — single acting | 3.0 |
| 2 cyl. — double acting | 2.5 |
| 3 cyl. or more — single acting | 2.5 |
| 3 cyl. or more — double acting | 2.0 |
| **CONVEYORS** | |
| Apron, Assembly, Belt, Chain, Flight, Oven | 1.0 |
| Reciprocating | 2.5 |
| Screw | 1.0 |
| **CRANES AND HOISTS** | |
| Main Hoist — Medium Duty | 1.5 |
| Main Hoist — Heavy Duty | 2.0 |
| Skip Hoist, Travel Motion, Trolley Motion, Slope | 1.5 |
| **CRUSHERS** | |
| Cane | 2.0 |
| Gyratory | 2.5 |
| **DREDGES** | |
| Cable Reel, Conveyor | 1.5 |
| Cutter Head Drive, Jog Drive | 2.5 |
| Pump, Screen Drive, Stacker, Utility Winch | 1.5 |
| **DYNAMOMETER** | 1.0 |
| **ELEVATORS** | |
| Bucket, Freight | 2.0 |
| **EXCITER** | 1.0 |
| **FANS** | |
| Centrifugal | 1.0 |
| Cooling Tower | 2.0 |
| Large (Mine, etc.) | 1.5 |
| Light | 1.0 |
| Propeller (indoor) | 1.5 |
| **FOOD INDUSTRY** | |
| Beet Slicer | 1.5 |
| Cereal Cooker | 1.0 |
| Dough Mixer, Meat Grinder | 1.5 |
| **GENERATORS** | |
| Even Load | 1.0 |
| Hoist or Railway Service | 1.5 |
| Welder Load | 2.0 |
| **GRIZZLY** | 2.0 |
| **KILN** | 2.0 |
| **LAUNDRY MACHINES** | |
| Tumbler, Washer | 2.0 |
| **LINE SHAFTS** | |
| Driving Processing Machinery | 1.0 |
| Light | 1.0 |
| **LUMBER INDUSTRY** | |
| Band Resaw, Circular Resaw | 1.5 |
| Edger, Head Rig, Hog, Log Haul | 2.0 |
| Planer | 1.5 |
| Rolls Non-Reversing | 1.5 |
| Rolls Reversing | 2.0 |
| Sawdust Conveyor | 1.0 |
| Slab Conveyor, Sorting Table | 1.5 |
| **MACHINE TOOLS** | |
| Auxiliary | 1.0 |
| Main Drive, Notching Press, Planer (Reversing), Plate Planer, Punch Press | 1.5 |
| Traverse | 1.0 |
| **METAL FORMING MACHINES** | |
| Draw Bench Carriage, Main Drive, Extruder, Wire Drawing, Flattening Machine | 2.0 |
| **MILLS (ROTARY TYPE)** | |
| Ball or Pebble Direct or | 2.5 |
| on LS Shaft Gear Reducer | 2.5 |
| on HS Shaft Gear Reducer | 2.0 |
| Dryer and Cooler | 1.5 |
| Rod or Tube Direct or | 2.5 |
| on LS Shaft Gear Reducer | 2.5 |
| on HS Shaft Gear Reducer | 2.0 |
| Tumbling Barrel | 1.5 |
| **MIXERS** | |
| Concrete (Continuous or Intermittent), Muller-Simpson type | 1.5 |
| **OIL INDUSTRY** | |
| Chiller | 1.0 |
| Oil Well Pumping (not over 150% peak torque) | 2.0 |
| Paraffin Filter Press | 1.5 |
| **PAPER MILLS** | |
| Agitator | 1.0 |
| Barking Drum | 2.5 |
| Beater and Pulper | 1.5 |
| Bleacher | 1.0 |
| Calender | 2.0 |
| Chipper | 3.0 |
| Couch, Cylinder, Dryer | 1.5 |
| Felt Stretcher | 1.0 |
| Fourdrinier | 1.5 |
| Jordan | 2.0 |
| Press | 2.0 |
| Pulp Grinder | 2.0 |
| Stock Chest | 1.5 |
| Stock Pump Reciprocating | 2.0 |
| Rotary | 1.5 |
| Suction Roll | 2.0 |
| Winder | 1.5 |
| **PARAFFIN FILTER PRESS** | 1.5 |
| **PRINTING PRESS** | 1.5 |
| **PROPELLER (MARINE)** | 1.5 |
| **PULVERIZERS** | |
| Hammermill — Light Duty | 1.5 |
| Hammermill — Heavy Duty | 2.0 |
| Hog | 2.0 |
| Roller | 1.5 |
| **PUMPS** | |
| Centrifugal | 1.0 |
| Descaling, Gear Type | 1.5 |
| Oil Well Pumping (not over 150% peak torque) | 2.0 |
| Rotary — other than gear | 1.5 |
| **Reciprocating —** | |
| 1 cyl. — single acting | 2.5 |
| 1 cyl. — double acting | 2.0 |
| 2 cyl. — single acting | 2.0 |
| 2 cyl. — double acting | 1.5 |
| 3 cyl. — or more | 1.5 |
| **RUBBER INDUSTRY** | |
| **BANBURY MIXER** | 2.5 |
| Calender | 2.0 |
| Cracker, Mixing Mill, Plasticator | 2.5 |
| Refiner, Sheeter, Tire Building Machine | 2.0 |
| Tire and Tube Press Opener (Based on Peak Torque) | 1.0 |
| Tuber and Strainer | 1.5 |
| Warming Mill | 2.0 |
| Washer | 2.5 |
| **SCREENS** | |
| Air Washing | 1.0 |
| Coal and Sand (Rotary) | 1.5 |
| Vibrating | 2.5 |
| Water | 1.0 |
| **SEWAGE DISPOSAL EQUIPMENT** | 1.0 |
| **SHOVEL** | 2.0 |
| **SHREDDER** | 1.5 |
| **STEEL INDUSTRY** | |
| Cold Mills Coiler (up or down) | 1.5 |
| Strip, Temper | 2.0 |
| Hot Mills Coiler (up or down), Edger Drive | 1.5 |
| Feed Roll (Blooming), Roughing Mill Delivery (Non-reversing), Sheet, Strip | 3.0 |
| Rod Mill | 2.5 |
| Soaking Pit Cover Drive | 3.0 |
| **STEERING GEAR** | 1.0 |
| **STOKER** | 1.0 |
| **TEXTILE MILLS** | |
| Batcher | 1.0 |
| Calender, Card Machine, Dry Can | 1.5 |
| Dyeing Machinery | 1.0 |
| Loom | 1.5 |
| Mangel, Napper, Soaper | 1.0 |
| Spinner, Tenter Frame | 1.5 |
| **WINDLASS** | 1.5 |
| **WOODWORKING MACHINES** | 1.0 |

The service factors listed are intended only as a general guide for smooth power sources such as electric motors and steam turbines. Add 0.5 to factor for somewhat rougher power sources such as internal combustion engines of four or more cylinders, steam engines and water turbines. Where substantial shock occurs or starting or stopping is frequent as on some inching drives and on some reversing drives or where the power source is an internal combustion engine with less than four cylinders — consult factory. Where torsional vibrations occur as in, for example, internal combustion engines or reciprocating compressors or pump applications, check the coupling for possible development of damaging large amplitude vibrations.

** Add 0.5 to factor if without flywheel.

## Chart 2 Size Selection



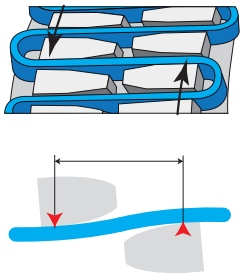
# Blue-Flex® Grid Couplings

Martin Blue-Flex® grid couplings are the best option where both high torque levels and dampening requirements exist. Unlike other metallic couplings, Martin Blue-Flex® grid

Couplings have the ability to reduce vibration and cushion shock loads to driven and driving power transmitting equipment components.

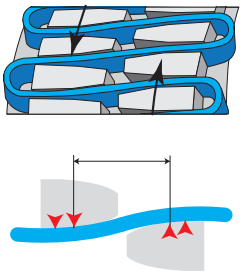
Progressive contact between the curved profile of the hub teeth and the flexible grid makes it possible to absorb impact energy by spreading it out, reducing the magnitude of the peak loads.

Martin Blue-Flex® grid couplings follow the same Martin product/service standards that make Martin the one industries rely on for quality, availability, service and response time that is second to none.



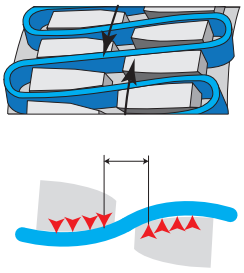
**Light Load**

The grid bears the stress near the outer edge of the hub teeth. The long span between the point of contact remains free to flex under load variations.



**Normal Load**

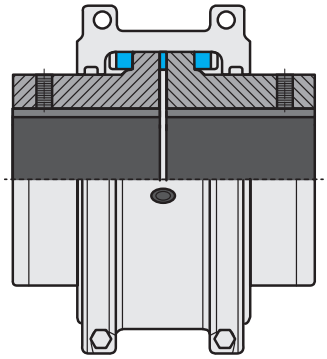
As the load increases, the distance between contact points on the hub teeth is shortened, but a free span still remains to cushion shock loads.



**Shock Load**

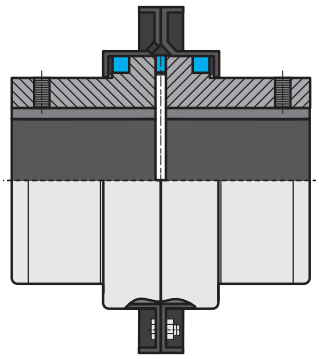
The coupling is flexible within its rated capacity. Under extreme overloads, the grid bears the stress fully on the hub teeth and transmits full load directly.

## Available in 2 Close-Coupled Styles



**T10**

A flexing, close-coupled design for use in four-bearing systems. Includes a horizontally split cover which allows for grid replacement without disturbance of the connected equipment.



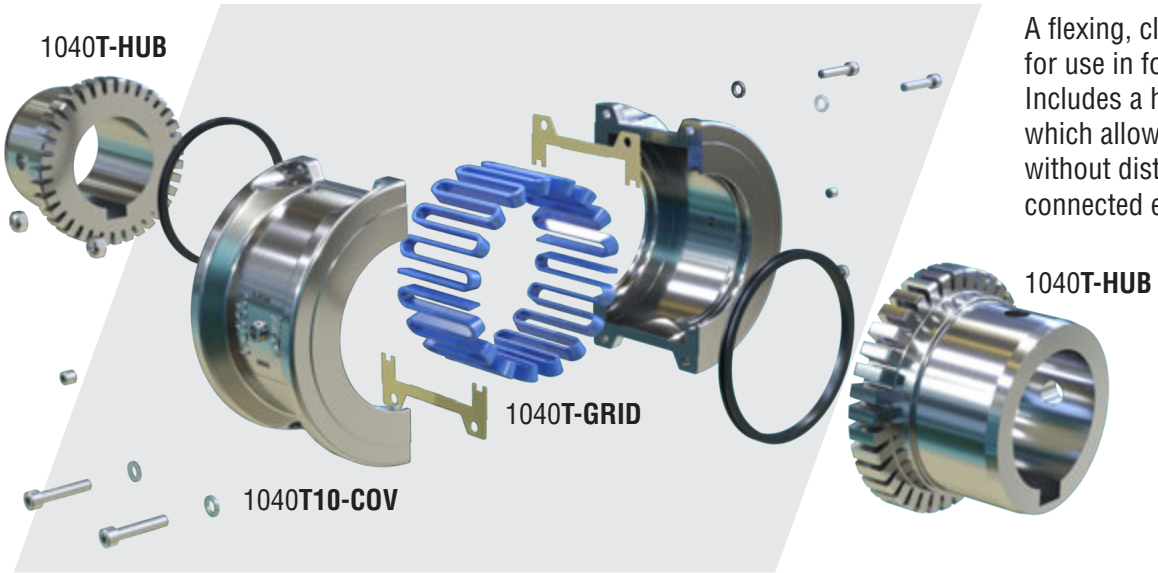
**T20**

A flexing design featuring a vertically-split steel cover. Ideal for higher running speeds and higher torque capacity.

# Cover Design Component Guide

## Type T10
### Horizontal Cover Design

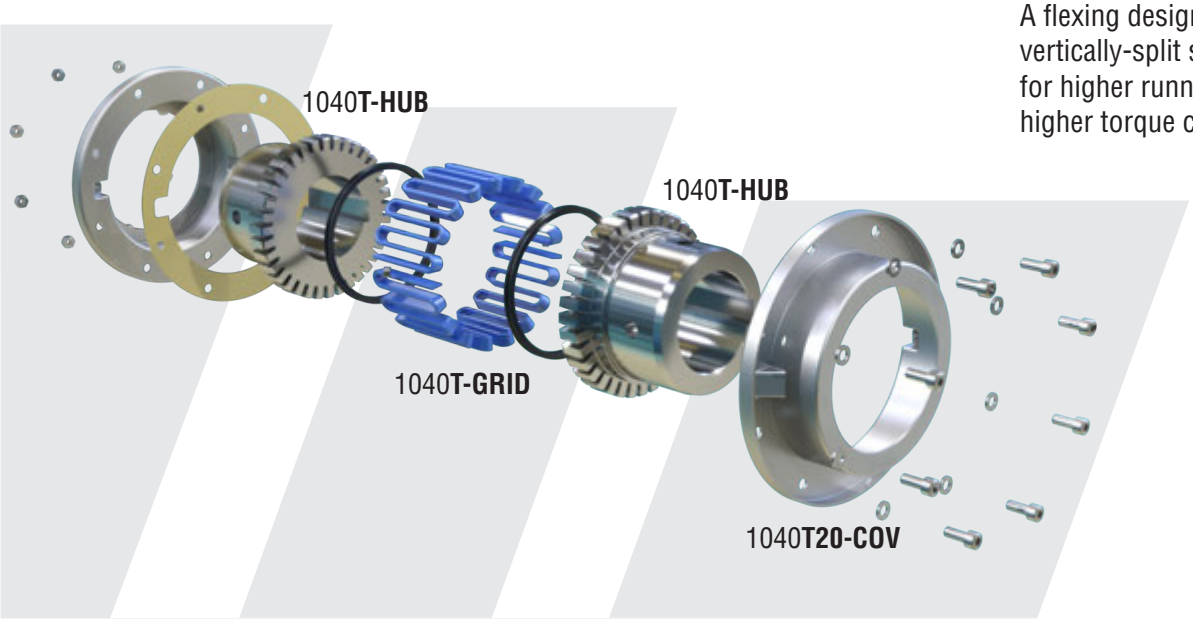
A flexing, close-coupled design for use in four-bearing systems. Includes a horizontally split cover which allows for grid replacement without disturbance of the connected equipment.




1040T10-SUBASY

## Type T20
### Vertical Cover Design

A flexing design featuring a vertically-split steel cover. Ideal for higher running speeds and higher torque capacity.

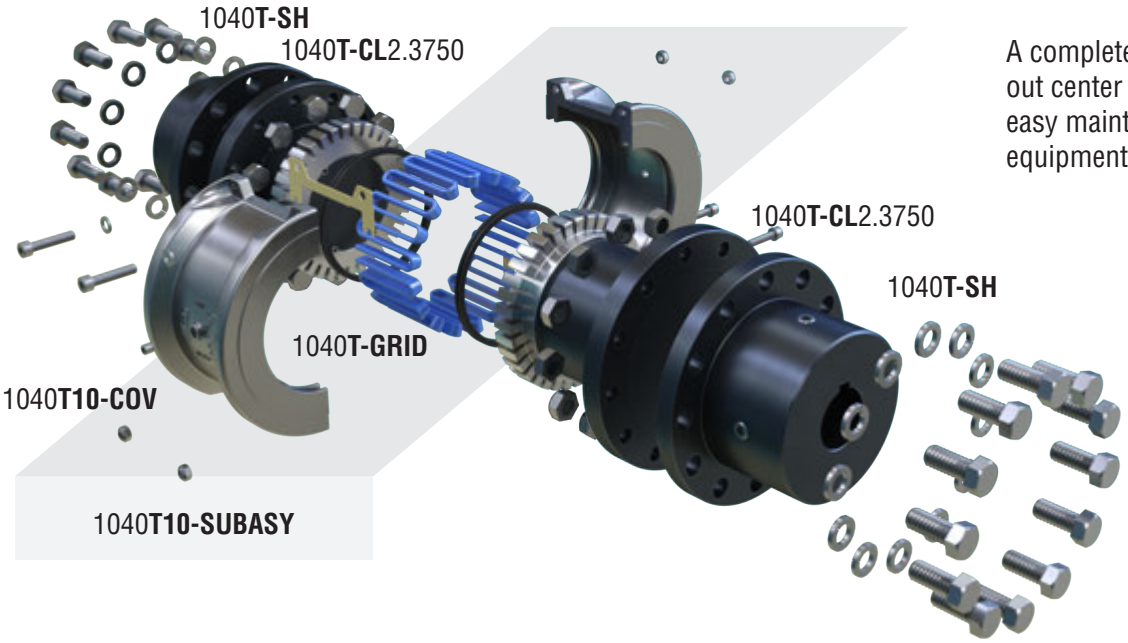



1040T20-SUBASY

# Spacer Design Component Guide

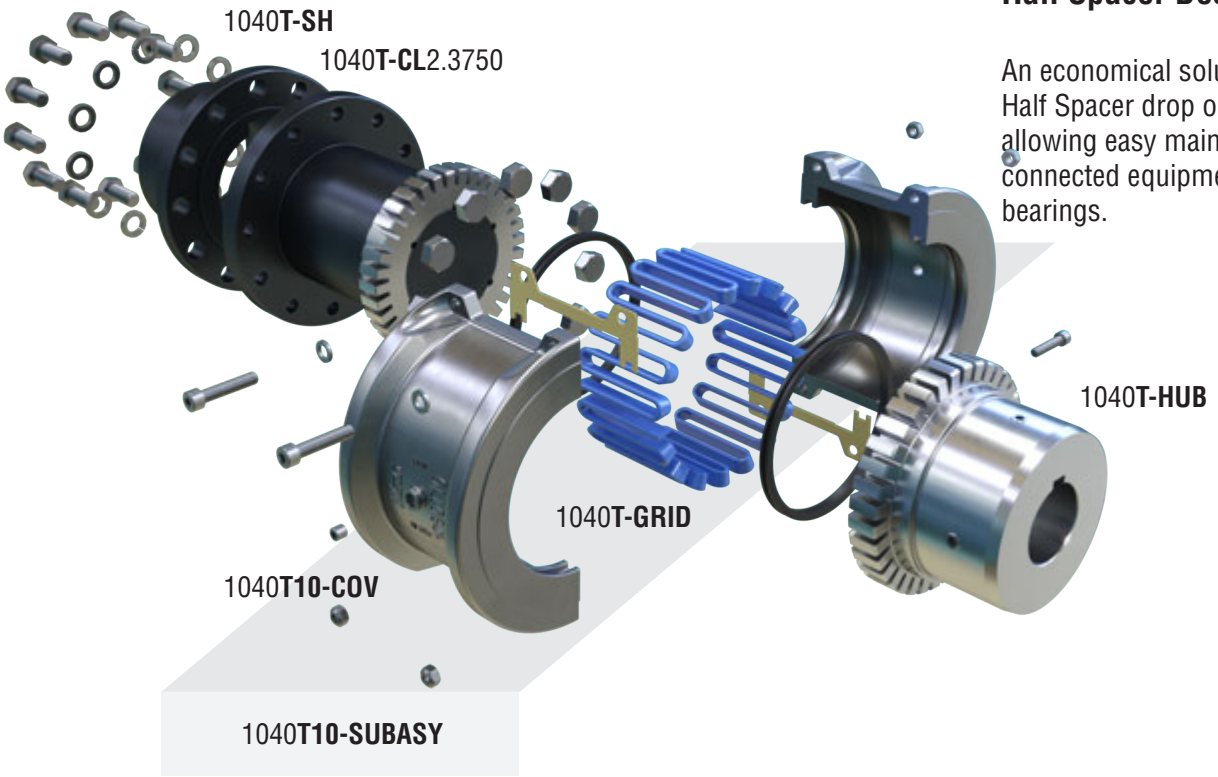
## Type T31
### Spacer Design

A complete Full Spacer drop out center section allowing easy maintenance of connected equipment, seals and bearings.




## Type T35
### Half Spacer Design

An economical solution, offering Half Spacer drop out section allowing easy maintenance of connected equipment, seals and bearings.



# Blue-Flex®
# Selection Procedure

## Standard Selection Method

The standard selection method can be used for most motor, turbine or engine-driven applications. The following information is required to select a flexible coupling:

- Horsepower or torque
- Running RPM
- Application or type of equipment to be connected
- Shaft diameters
- Shaft gaps
- Physical space limitations
- Special bore or finish, and type of fit

**Step 1. Rating:** Determine system torque. If torque is not given, calculate as shown below:

$$\text{Torque (lb-in)} = \frac{\text{HP x 63,000}}{\text{RPM}}$$

Where horsepower is the actual or transmitted power required by the application (if unknown, use the motor or turbine nameplate rating) and rpm is the actual speed the coupling is rotating. Applications that require rapid changes in direction or torque reversals should be referred to Martin Engineering.

**Step 2. Service Factor:** Determine appropriate service factor from C-40.

**Step 3. Required Minimum Coupling Rating:** Determine the required minimum coupling rating as shown below:

Min. Coupling Rating = S.F. (Service Factor) x Torque (lb-in)

**Step 4. Type:** Refer to pages C-34 and C-35 and select the appropriate coupling type.

**Step 5. Size:** Turn to appropriate pages for the coupling type chosen and trace down the torque column to a value that is equal or greater than that determined in Step 3 above. The coupling size is shown in the first column.

**Step 6. Check:** Speed (RPM), bore, gap and dimensions.

**Example:** A Field Engineer wants to use a Grid Coupling to connect a 60 horsepower electric motor running at 1750 RPM to a rotary lobe compressor. The shaft diameter of both the motor and compressor is 1 3/4. Motor shaft extension is 3 and compressor shaft extension is 2 1/2. Gap between shaft ends is 1/8.

1. **Determine Required Rating:**

   $$\text{Torque (lb-in)} = \frac{\text{60 x 63,000}}{\text{1750 RPM}} = \text{2160 lb-in}$$

2. **Service Factor:** From C-38 = 1.25

3. **Required Min. Coupling Rating**:

   1.25 x 2160 lb-in = 2700 lb-in

4. **Size:** From page C-42 a size 1050T10 is the proper selection based on a torque rating of 3850 lb-in exceeding the required min. coupling rating of 2700 lb-in.

5. **Check:** Allowable speed capacity of 4500 (T10) exceeds the required speed of 1750 rpm. Maximum bore capacity of 1 7/8 exceeds the actual shaft diameters.

## Formula Selection Method

The Standard Selection Method will work when selecting most couplings. The Formula Selection Method should be used for:

- High Peak Loads
- High Braking Torques

Providing system peak torque and frequency, duty cycle and brake torque rating will allow for a more refined selection using the Formula Selection Method.

1. **High Peak Loads:** Use one of the following formulas for applications using motors with torque characteristics that are higher than normal; applications with intermittent operations, shock loading, inertia effects due to starting and stopping and/or system-induced repetitive high peak torques. System Peak Torque is the maximum torque that can exist in the system. Select a coupling with a torque rating equal to or greater than selection torque calculated below.

   a. Non-Reversing High Peak Torque

   Selection Torque (lb-in) = System Peak Torque

   or

   $$\text{System Torque (lb-in)} = \frac{\text{System Peak HP} \times 63{,}000}{\text{RPM}}$$

   b. Reversing High Peak Torque

   Selection Torque (lb-in) = 2 x System Peak Torque

   or

   $$\text{System Torque (lb-in)} = \frac{2 \times \text{Peak HP} \times 63{,}000}{\text{RPM}}$$

   c. Occasional Peak Torques (Non-reversing) If a system peak torque occurs less than 1000 times during the expected coupling life, use the following formula:

   Selection Torque (lb-in) = 0.5 x System Peak Torque

   or

   $$\text{System Torque (lb-in)} = \frac{0.5 \times \text{Peak HP} \times 63{,}000}{\text{RPM}}$$

2. **High Braking Torques:** If the torque rating of the braking exceeds the motor torque, use the braking rating as follows:

   Selection Torque (lb-in) = Braking Torque Rating x S.F.

**Example:** A Maintenance Engineer needs a Grid Coupling to connect an electric motor to a reversing runout mill table roll. The system peak torque is estimated to be 118,000 lb-in with the motor running at 80 RPM. The motor shaft diameter is 7 and the driven shaft diameter is 8 . The motor and driven shaft extensions are both 8 1/2. Distance between shaft ends is 8.00.

1. **Type:** Refer to pages C-34 and C-35 and select the appropriate.

2. **Required Minimum Coupling Rating:**

   Use the Reversing High Peak Torque formula.
   2 x 118,000 = 236,000 = Selection Torque

3. **Size:** From page C-44 a size 1140T10 with a torque rating of 253,000 exceeds the selection torque of 236,000 lb-in.

4. **Check:** The 1140T35 has a maximum BE dimension of 8.06; maximum bore of 8 with one rectangular key (Table 3, page C-39); and the allowable speed of 1650 rpm and the dimensions on page C-46, meet the requirements.

### Table 3 – Coupling Ratings and Allowable Speeds

| Coupling Size | HP per 100 RPM | Torque Rating (lb-in) | Allowable Speeds – RPM | | |
|---|---|---|---|---|---|
| | | | T10 | T20 | T31, T35, T10/82 |
| 1020T | 0.73 | 460 | 4,500 | 6,000 | 3,600 |
| 1030T | 2.09 | 1,320 | 4,500 | 6,000 | 3,600 |
| 1040T | 3.49 | 2,200 | 4,500 | 6,000 | 3,600 |
| 1050T | 6.11 | 3,850 | 4,500 | 6,000 | 3,600 |
| 1060T | 9.60 | 6,050 | 4,350 | 6,000 | 3,600 |
| 1070T | 14.0 | 8,800 | 4,125 | 5,500 | 3,600 |
| 1080T | 28.8 | 18,150 | 3,600 | 4,750 | 3,600 |
| 1090T | 52.4 | 33,000 | 3,600 | 4,000 | 3,600 |
| 1100T | 88.1 | 55,550 | 2,440 | 3,250 | 2,440 |
| 1110T | 131 | 82,500 | 2,250 | 3,000 | 2,250 |
| 1120T | 192 | 121,000 | 2,025 | 2,700 | 2,025 |
| 1130T | 279 | 176,000 | 1,800 | 2,400 | 1,800 |
| 1140T | 401 | 253,000 | 1,650 | 2,200 | 1,650 |
| 1150T | 559 | 352,000 | 1,500 | 2,000 | 1,500 |
| 1160T | 785 | 495,000 | 1,350 | 1,750 | 1,350 |
| 1170T | 1047 | 660,000 | 1,225 | 1,600 | 1,225 |
| 1180T | 1452 | 915,200 | 1,100 | 1,400 | 1,100 |
| 1190T | 1920 | 1,210,000 | 1,050 | 1,300 | 1,050 |
| 1200T | 2618 | 1,650,000 | 900 | 1,200 | 900 |

Consult Martin for higher speeds.

# Blue-Flex®
# Selection Procedure

## Quick Selection Method

**Step 1. Select Coupling Type.** Refer to pages C-34 and C-35 and select the type of coupling to suit your application. If an application requires a special purpose coupling, refer application details to your local Martin representative.

**Step 2. Determine Service Factor.** Refer to Table 6 and Table 7.

A. Refer to the formula selection method if your application has high braking torques or high peak loads.

**Step 3. Determine Equivalent Horsepower.** Refer to Table 4 – Under the actual HP required and tracing horizontally from the service factor determined in Step 2, read the equivalent HP.

**Step 4. Determine Coupling Size.**

A. Refer to Table 5 – Trace horizontally from the required speed to a HP value equal to or larger than the hp determined in Step 3. Read the coupling size at top of column.

B. Check shaft diameters on coupling maximum bores shown on pages for the type of coupling selected. If a larger bore is required, select a larger coupling.

C. Check the required speed against the allowable speed shown in Table 3 page C-39 for the type of coupling selected. If a higher speed is required, refer to Martin Engineering.

D. Check application dimension requirements against catalog page for the type of coupling selected.

**Example:** A 400 horsepower electric motor rated for 1200 RPM needs a grid coupling to drive a tire shredder. The shaft gap is 0.1 to 0.2. The motor shaft diameter is 3 and the driven shaft diameter is 3 1/4. The motor and driven shaft extensions are both 5.

1. **Select Coupling Type**: To connect close-coupled shafts (0.1 to 0.2 gap), a Type T10 or T20 coupling is the proper selection. Type T10 is selected.
2. **Determine Service Factor:** From Table 6, the service factor is 1.5.
3. **Determine Equivalent HP:** From Table 4, the equivalent HP is 600.
4. **Select Coupling Size:** (A) From Table 5, the coupling size is 1090T10. (B) From Table 8, the maximum bore with square key is 3.500. (C) From Table 3, the allowable speed of a 1090T10 is 3600 RPM. (D) Dimensions for the 1090T10 coupling shown on page C-44 satisfies the application requirements.

## Table 4 – Equivalent Horsepower = (Actual HP x Service Factor)

| Service Factor • | Actual HP | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3/4 | 1 | 1-1/2 | 2 | 3 | 5 | 7-1/2 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| 1.00 | 0.75 | 1.0 | 1.5 | 2.0 | 3.0 | 5.0 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| 1.25 | 0.94 | 1.25 | 1.9 | 2.5 | 3.8 | 6.3 | 9.4 | 12.5 | 19 | 25 | 31 | 38 | 50 | 63 | 75 | 94 | 125 | 156 | 188 | 250 | 312 | 375 | 438 | 500 | 563 | 625 |
| 1.50 | 1.1 | 1.5 | 2.3 | 3.0 | 4.5 | 7.5 | 11.3 | 15 | 23 | 30 | 38 | 45 | 60 | 75 | 90 | 113 | 150 | 188 | 225 | 300 | 375 | 450 | 525 | 600 | 675 | 750 |
| 1.75 | 1.3 | 1.8 | 2.6 | 3.5 | 5.3 | 8.8 | 13.1 | 18 | 26 | 35 | 44 | 53 | 70 | 88 | 105 | 131 | 175 | 219 | 262 | 350 | 438 | 525 | 613 | 700 | 787 | 875 |
| 2.00 | 1.5 | 2.0 | 3.0 | 4.0 | 6.0 | 10.0 | 15.0 | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 120 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| 2.50 | 1.9 | 2.5 | 3.8 | 5.0 | 7.5 | 12.5 | 18.8 | 25 | 38 | 50 | 63 | 75 | 100 | 125 | 150 | 187 | 250 | 312 | 375 | 500 | 625 | 750 | 875 | 1000 | 1125 | 1250 |
| 3.00 | 2.3 | 3.0 | 4.5 | 6.0 | 9.0 | 15.0 | 22.5 | 30 | 45 | 60 | 75 | 90 | 120 | 150 | 180 | 225 | 300 | 375 | 450 | 600 | 750 | 900 | 1050 | 1200 | 1350 | 1500 |
| 3.50 | 2.6 | 3.5 | 5.3 | 7.0 | 10.5 | 17.5 | 26.2 | 35 | 52 | 70 | 87 | 105 | 140 | 175 | 210 | 262 | 350 | 437 | 525 | 700 | 875 | 1050 | 1225 | 1400 | 1575 | 1750 |

• For service factor not listed, Equivalent HP = Actual HP x Service Factor.

## Table 5 – Coupling Selection Based on Equivalent HP Ratings

| Coupling Size | 1020T | 1030T | 1040T | 1050T | 1060T | 1070T | 1080T | 1090T | 1100T | 1110T | 1120T | 1130T | 1140T | 1150T | 1160T | 1170T | 1180T | 1190T | 1200T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Max Bore (in) | 1.125 | 1.375 | 1.625 | 1.875 | 2.125 | 2.500 | 3.000 | 3.500 | 4.000 | 4.500 | 5.000 | 6.000 | 7.250 | 8.000 | 9.000 | 10.000 | 11.000 | 12.000 | 13.000 |
| Max Speed T10 | 4500 RPM | 4500 RPM | 4500 RPM | 4500 RPM | 4350 RPM | 4125 RPM | 3600 RPM | 3600 RPM | 2440 RPM | 2250 RPM | 2025 RPM | 1800 RPM | 1650 RPM | 1500 RPM | 1350 RPM | 1225 RPM | 1100 RPM | 1050 RPM | 900 RPM |
| Max Speed T20 | 6000 RPM | 6000 RPM | 6000 RPM | 6000 RPM | 6000 RPM | 5500 RPM | 4750 RPM | 4000 RPM | 3250 RPM | 3000 RPM | 2700 RPM | 2400 RPM | 2200 RPM | 2000 RPM | 1750 RPM | 1600 RPM | 1400 RPM | 1300 RPM | 1100 RPM |
| Torque (lb-in) | 460 | 1320 | 2200 | 3850 | 6050 | 8800 | 18,150 | 33,000 | 55,550 | 82,500 | 121,000 | 176,000 | 253,000 | 352,000 | 495,000 | 660,000 | 915,200 | 1,210,000 | 1,650,000 |
| HP/100 RPM | 0.73 | 2.09 | 3.49 | 6.11 | 9.60 | 14.0 | 28.8 | 52.4 | 88.1 | 131 | 192 | 279 | 401 | 559 | 785 | 1047 | 1452 | 1920 | 2618 |
| RPM | HP Ratings | | | | | | | | | | | | | | | | | | |
| 4500 | 32.8 | 94.2 | 157 | 275 | 432 ◊ | 628 ◊ | 1296 ◊ | – | – | – | – | – | – | – | – | – | – | – | – |
| 3600 | 26.3 | 75.4 | 126 | 220 | 346 | 503 | 1037 | 1885 | – | – | – | – | – | – | – | – | – | – | – |
| 3000 | 21.9 | 62.8 | 105 | 183 | 288 | 419 | 864 | 1571 | 2644 ◊ | 3927 ◊ | – | – | – | – | – | – | – | – | – |
| 2500 | 18.2 | 52.4 | 87 | 153 | 240 | 349 | 720 | 1309 | 2203 ◊ | 3273 ◊ | 3456 ◊ | – | – | – | – | – | – | – | – |
| 2100 | 15.3 | 44.0 | 73.3 | 128 | 202 | 293 | 605 | 1100 | 1851 | 2749 | 3456 ◊ | 5864 ◊ | 8430 ◊ | – | – | – | – | – | – |
| 1800 | 13.1 | 37.7 | 62.8 | 110 | 173 | 251 | 518 | 942 | 1587 | 2356 | 3456 | 5027 | 7226 ◊ | 10053 ◊ | – | – | – | – | – |
| 1750 | 12.8 | 36.7 | 61.1 | 107 | 168 | 244 | 504 | 916 | 1542 | 2291 | 3360 | 4887 | 7025 ◊ | 9774 ◊ | 13745 ◊ | – | – | – | – |
| 1450 | 10.6 | 30.4 | 50.6 | 89 | 139 | 202 | 418 | 759 | 1278 | 1898 | 2784 | 4049 | 5821 | 8098 | 11388 ◊ | 15184 ◊ | – | – | – |
| 1170 | 8.5 | 24.5 | 40.8 | 71.5 | 112 | 163 | 337 | 613 | 1031 | 1532 | 2246 | 3267 | 4697 | 6535 | 9189 | 12252 | – | – | – |
| 1000 | 7.3 | 20.9 | 34.9 | 61.1 | 96 | 140 | 288 | 524 | 881 | 1309 | 1920 | 2793 | 4014 | 5585 | 7854 | 10472 | 14521 | 19199 | – |
| 870 | 6.3 | 18.2 | 30.4 | 53.1 | 84 | 121 | 251 | 456 | 767 | 1139 | 1670 | 2430 | 3492 | 4859 | 6833 | 9111 | 12633 | 16703 | 22777 |
| 720 | 5.3 | 15.1 | 25.1 | 44.0 | 69 | 101 | 207 | 377 | 635 | 942 | 1382 | 2011 | 2890 | 4021 | 5655 | 7540 | 10455 | 13823 | 18850 |
| 650 | 4.7 | 13.6 | 22.7 | 39.7 | 62.4 | 91 | 187 | 340 | 573 | 851 | 1248 | 1815 | 2609 | 3630 | 5105 | 6807 | 9439 | 12479 | 17017 |
| 580 | 4.2 | 12.1 | 20.2 | 35.4 | 55.7 | 81 | 167 | 304 | 511 | 759 | 1114 | 1620 | 2328 | 3239 | 4555 | 6074 | 8422 | 11135 | 15184 |
| 520 | 3.8 | 10.9 | 18.2 | 31.8 | 49.9 | 73 | 150 | 272 | 458 | 681 | 998 | 1452 | 2087 | 2904 | 4084 | 5445 | 7551 | 9983 | 13614 |
| 420 | 3.1 | 8.8 | 14.7 | 25.7 | 40.3 | 59 | 121 | 220 | 370 | 550 | 806 | 1173 | 1686 | 2346 | 3299 | 4398 | 6099 | 8063 | 10996 |
| 350 | 2.6 | 7.3 | 12.2 | 21.4 | 33.6 | 49 | 101 | 183 | 308 | 458 | 672 | 977 | 1405 | 1955 | 2749 | 3665 | 5082 | 6720 | 9163 |
| 280 | 2.0 | 5.9 | 9.8 | 17.1 | 26.9 | 39.1 | 81 | 147 | 247 | 367 | 538 | 782 | 1124 | 1564 | 2199 | 2932 | 4066 | 5376 | 7330 |
| 230 | 1.7 | 4.8 | 8.0 | 14.0 | 22.1 | 32.1 | 66 | 120 | 203 | 301 | 442 | 642 | 923 | 1285 | 1806 | 2409 | 3340 | 4416 | 6021 |
| 190 | 1.4 | 4.0 | 6.6 | 11.6 | 18.2 | 26.5 | 55 | 99 | 167 | 249 | 365 | 531 | 763 | 1061 | 1492 | 1990 | 2759 | 3648 | 4974 |
| 155 | 1.1 | 3.2 | 5.4 | 9.5 | 14.9 | 21.6 | 44.6 | 81 | 137 | 203 | 298 | 433 | 622 | 866 | 1217 | 1623 | 2251 | 2976 | 4058 |
| 125 | 0.9 | 2.6 | 4.4 | 7.6 | 12.0 | 17.5 | 36.0 | 65 | 110 | 164 | 240 | 349 | 502 | 698 | 982 | 1309 | 1815 | 2400 | 3273 |
| 100 | 0.73 | 2.1 | 3.5 | 6.1 | 9.6 | 14.0 | 28.8 | 52 | 88 | 131 | 192 | 279 | 401 | 559 | 785 | 1047 | 1452 | 1920 | 2618 |
| 84 | 0.61 | 1.8 | 2.9 | 5.1 | 8.1 | 11.7 | 24.2 | 44.0 | 74 | 110 | 161 | 235 | 337 | 469 | 660 | 880 | 1220 | 1613 | 2199 |
| 68 | 0.50 | 1.4 | 2.4 | 4.2 | 6.5 | 9.5 | 19.6 | 35.6 | 60 | 89 | 131 | 190 | 273 | 380 | 534 | 712 | 987 | 1306 | 1780 |
| 56 | 0.41 | 1.17 | 2.0 | 3.4 | 5.4 | 7.8 | 16.1 | 29.3 | 49 | 73 | 108 | 156 | 225 | 313 | 440 | 586 | 813 | 1075 | 1466 |
| 45 | 0.33 | 0.94 | 1.6 | 2.7 | 4.3 | 6.3 | 13.0 | 23.6 | 39.7 | 59 | 86 | 126 | 181 | 251 | 353 | 471 | 653 | 864 | 1178 |
| 37 | 0.27 | 0.77 | 1.3 | 2.3 | 3.6 | 5.2 | 10.7 | 19.4 | 32.6 | 48.4 | 71 | 103 | 149 | 207 | 291 | 387 | 537 | 710 | 969 |
| 30 | 0.22 | 0.63 | 1.0 | 1.8 | 2.9 | 4.2 | 8.6 | 15.7 | 26.4 | 39.3 | 58 | 84 | 120 | 168 | 236 | 314 | 436 | 576 | 785 |
| 25 | 0.18 | 0.52 | 0.9 | 1.5 | 2.4 | 3.5 | 7.2 | 13.1 | 22.0 | 32.7 | 48.0 | 70 | 100 | 140 | 196 | 262 | 363 | 480 | 655 |
| 20 | 0.15 | 0.42 | 0.70 | 1.2 | 1.9 | 2.8 | 5.8 | 10.5 | 17.6 | 26.2 | 38.4 | 56 | 80 | 112 | 157 | 209 | 290 | 384 | 524 |
| 16.5 | 0.12 | 0.35 | 0.58 | 1.0 | 1.6 | 2.3 | 4.8 | 8.6 | 14.5 | 21.6 | 31.7 | 46.1 | 66 | 92 | 130 | 173 | 240 | 317 | 432 |
| 13 | 0.095 | 0.27 | 0.45 | 0.79 | 1.2 | 1.8 | 3.7 | 6.8 | 11.5 | 17.0 | 25.0 | 36.3 | 54 | 75 | 106 | 141 | 196 | 259 | 353 |
| 11 | 0.080 | 0.23 | 0.38 | 0.67 | 1.1 | 1.5 | 3.2 | 5.8 | 9.7 | 14.4 | 21.1 | 30.7 | 44.2 | 61 | 86 | 115 | 160 | 211 | 288 |
| 9 | 0.066 | 0.19 | 0.31 | 0.55 | 0.86 | 1.3 | 2.6 | 4.7 | 7.9 | 11.8 | 17.3 | 25.1 | 36.1 | 50 | 71 | 94 | 131 | 173 | 236 |
| 7.5 | 0.055 | 0.16 | 0.26 | 0.46 | 0.72 | 1.0 | 2.2 | 3.9 | 6.6 | 9.8 | 14.4 | 20.9 | 30.1 | 42 | 59 | 79 | 109 | 144 | 196 |
| 5 | 0.036 | 0.10 | 0.17 | 0.31 | 0.48 | 0.7 | 1.4 | 2.6 | 4.4 | 6.5 | 9.6 | 14.0 | 20.1 | 27.9 | 39 | 52 | 73 | 96 | 131 |

◊ Ratings apply to Type T20 only.

# Blue-Flex®
# Selection Procedure

**Table 6 – Flexible Coupling Service Factors♦** Service factors listed are typical values based on normal operation of the drive systems.

| Application | Service Factor |
|---|---|
| **AERATOR** | 2.0 |
| **AGITATORS** | |
| Vertical and Horizontal Screw, Propeller, Paddle | 1.0 |
| **BARGE HAUL PULLER** | 1.5 |
| **BLOWERS** | |
| Centrifugal | 1.0 |
| Lobe or Vane | 1.25 |
| **CAR DUMPERS** | 2.5 |
| **CAR PULLERS** | 1.5 |
| **CLARIFIER OR CLASSIFIER** | 1.0 |
| **COMPRESSORS** | |
| Centrifugal | 1.0 |
| Rotary, Lobe or Vane | 1.25 |
| Rotary, Screw | 1.0 |
| Reciprocating Direct Connected | • |
| Without Flywheel | • |
| With Flywheel and Gear between Compressor and Prime Mover | |
| 1 cylinder, single acting | 3.0 |
| 1 cylinder, double acting | 3.0 |
| 2 cylinders, single acting | 3.0 |
| 2 cylinders, double acting | 3.0 |
| 3 cylinders, single acting | 3.0 |
| 3 cylinders, double acting | 2.0 |
| 4 or more cyl., single act | 1.75 |
| 4 or more cyl., double act | 1.75 |
| **CONVEYORS** | |
| Apron, Assembly, Belt, Chain, Flight, Screw | 1.0 |
| Bucket | 1.25 |

| Application | Service Factor |
|---|---|
| Live Roll, Shaker and Reciprocating | 3.0 |
| **CRANES AND HOIST** | |
| Main Hoist | 1.7 |
| Skip Hoist | 1.75 |
| Slope | 1.5 |
| Bridge, Travel or Trolley | 1.75 |
| **DYNAMOMETER** | 1.0 |
| **ELEVATORS** | |
| Bucket, Centrifugal Discharge | 1.25 |
| Freight or Passenger | ◊ |
| Gravity Discharge | 1.25 |
| **ESCALATORS** | ◊ |
| **EXCITER, GENERATOR** | 1.0 |
| **EXTRUDER, PLASTIC** | 1.5 |
| **FANS** | |
| Centrifugal | 1.0 |
| Cooling Tower | 2.0 |
| Forced Draft — Across the Line start | 1.5 |
| Forced Draft Motor driven thru fluid or electric slip clutch | 1.0 |
| Gas Recirculating | 1.5 |
| Induced Draft with damper control or blade cleaner | 1.25 |
| Induced Draft without controls | 2.0 |
| **FEEDERS** | |
| Apron, Belt, Disc, Screw | 1.0 |
| Reciprocating | 2.5 |
| **GENERATORS** | |
| Even Load | 1.0 |
| Hoist or Railway Service | 1.5 |

| Application | Service Factor |
|---|---|
| Welder Load | 2.0 |
| **HAMMERMILL** | 1.75 |
| **LAUNDRY WASHER OR TUMBLER** | 2.0 |
| **LINE SHAFTS** | |
| Any Processing Machinery | 1.5 |
| **MACHINE TOOLS** | |
| Auxiliary and Traverse Drive | 1.0 |
| Bending Roll, Notching Press, Punch Press, Planer, Plate Reversing | 1.75 |
| Main Drive | 1.5 |
| **MAN LIFTS** | ◊ |
| **METAL FORMING MACHINES** | |
| Continuous Caster | 1.75 |
| Draw Bench Carriage and Main Drive | 2.0 |
| Extruder | 2.0 |
| Farming Machine and Forming Mills | 2.0 |
| Slitters | 1.0 |
| Wire Drawing or Flattening | 1.75 |
| Wire Winder | 1.5 |
| Coilers and Uncoilers | 1.5 |
| **MIXERS** (see Agitators) | |
| Concrete | 1.75 |
| Muller | 1.5 |
| **PRESS, PRINTING** | 1.5 |
| **PUG MILL** | 1.75 |
| **PULVERIZERS** | |
| Hammermill and Hog | 1.75 |
| Roller | 1.5 |
| **PUMPS** | |
| Boiler Feed | 1.5 |

| Application | Service Factor |
|---|---|
| Centrifugal — Constant Speed | 1.0 |
| Frequent Speed Changes under Load | 1.25 |
| Descaling, with accumulators | 1.25 |
| Gear, Rotary, or Vane | 1.25 |
| Reciprocating, Plunger Piston | |
| 1 cyl., single or double act | 3.0 |
| 2 cyl., single acting | 2.0 |
| 2 cyl., double acting | 1.75 |
| 3 or more cylinders | 1.5 |
| Screw Pump, Progressing Cavity | 1.25 |
| Vacuum Pump | 1.25 |
| **SCREENS** | |
| Air Washing | 1.0 |
| Grizzly | 2.0 |
| Rotary Coal or Sand | 1.5 |
| Vibrating | 2.5 |
| Water | 1.0 |
| **SKI TOWS AND LIFTS** | ◊ |
| **STEERING GEAR** | 1.0 |
| **STOKER** | 1.0 |
| **TIRE SHREDDER** | 1.50 |
| **TUMBLING BARREL** | 1.75 |
| **WINCH, MANEUVERING** | |
| Dredge, Marine | 1.5 |
| **WINDLASS** | 1.5 |
| **WOODWORKING MACHINERY** | 1.0 |
| **WORK LIFT PLATFORMS** | ◊ |

| Industry | Service Factor |
|---|---|
| **AGGREGATE, CEMENT, MINING** | |
| **KILNS; TUBE, ROD AND BALL MILLS** | |
| Direct or on L.S. shaft of Reducer, with final drive Machined Spur Gears | 2.0 |
| Single Helical or Herringbone Gears | 1.75 |
| Conveyors, Feeders, Screens, Elevators | |
| Crushers, Ore or Stone | 2.5 |
| Dryer, Rotary | 1.75 |
| Grizzly | 2.0 |
| Hammermill or Hog | 1.75 |
| Tumbling Mill or Barrel | 1.75 |
| **BREWING AND DISTILLING** | |
| Bottle and Can Filling Machines | 1.0 |
| Brew Kettle | 1.0 |
| Cookers, Continuous Duty | 1.25 |
| Lauter Tub | 1.5 |
| Mash Tub | 1.25 |
| Scale Hopper, Frequent Peaks | 1.75 |
| **CLAY WORKING INDUSTRY** | |
| Brick Press, Briquette Machine, Clay Working | |
| Machine, Pug Mill | 1.75 |
| **DREDGES** | |
| Cable Reel | 1.75 |
| Conveyors | 1.25 |
| Cutter head, Jig Drive | 2.0 |
| Maneuvering Winch | 1.5 |
| Pumps (uniform load) | 1.5 |
| Screen Drive, Stacker | 1.75 |
| Utility Winch | 1.5 |
| **FOOD INDUSTRY** | |
| Beet Slicer | 1.75 |
| Bottling, Can Filling Machine | 1.0 |
| Cereal Cooker | 1.25 |
| Dough Mixer, Meat Grinder | 1.75 |
| **LUMBER** | |
| Band Resaw | 1.5 |
| Circular Resaw, Cut-off | 1.75 |
| Edger, Head Rig, Hog | 2.0 |
| Gang Saw (Reciprocating) | • |
| Log Haul | 2.0 |
| Planer | 1.75 |

| Industry | Service Factor |
|---|---|
| Rolls, Non-Reversing | 1.25 |
| Rolls, Reversing | 2.0 |
| Sawdust Conveyor | 1.25 |
| Slab Conveyor | 1.75 |
| Sorting Table | 1.5 |
| Trimmer | 1.75 |
| **METAL ROLLING MILLS** | |
| Coilers (Up or Down) Cold Mills only | 1.5 |
| Coilers (Up or Down) Hot Mills only | 2.0 |
| Coke Plants | |
| Pusher Ram Drive | 2.5 |
| Door Opener | 2.0 |
| Pusher or Larry Car Traction Drive | 3.0 |
| Continuous Caster | 1.75 |
| Cold Mills — Strip Mills | • |
| Temper Mills | • |
| Cooling Beds | 1.5 |
| Drawbench | 2.0 |
| Feed Rolls - Blooming Mills | 3.0 |
| Furnace Pushers | 2.0 |
| Hot and Cold Saws | 2.0 |
| Hot Mills — | |
| Strip or Sheet Mills | • |
| Reversing Blooming | • |
| Slabbing Mills | • |
| Edger Drives | • |
| Ingot Cars | 2.0 |
| Manipulators | 3.0 |
| Merchant Mills | • |
| Mill Tables | |
| Roughing Breakdown Mills | 3.0 |
| Hot Bed or Transfer, non-reversing | 1.5 |
| Runout, reversing | 3.0 |
| Runout, non-reversing, non-plugging | 2.0 |
| Reel Drives | 1.75 |
| Rod Mills | • |
| Screwdown | 2.0 |
| Seamless Tube Mills | |
| Piercer | 3.0 |
| Thrust Block | 2.0 |
| Tube Conveyor Rolls | 2.0 |
| Reeler | 2.0 |
| Kick Out | 2.0 |

| Industry | Service Factor |
|---|---|
| Shear, Croppers | • |
| Sideguards | 3.0 |
| Skelp Mills | • |
| Slitters, Steel Mill only | 1.75 |
| Soaking Pit Cover Drives — | |
| Lift | 1.0 |
| Travel | 2.0 |
| Straighteners | 2.0 |
| Unscramblers (Billet Bundle Busters) | 2.0 |
| Wire Drawing Machinery | 1.75 |
| **OIL INDUSTRY** | |
| Chiller | 1.25 |
| Oilwell Pumping (not over 150% peak torque) | 2.0 |
| Paraffin Filter Press | 1.5 |
| Rotary Kiln | 2.0 |
| **PAPER MILLS** | |
| Barker Auxiliary, Hydraulic | 2.0 |
| Barker, Mechanical | 2.0 |
| Barking Drum | |
| L.S. shaft of reducer with final drive - Helical | |
| or Herringbone Gear | 2.0 |
| Machined Spur Gear | 2.5 |
| Cast Tooth Spur Gear | 3.0 |
| Beater and Pulper | 1.75 |
| Bleachers, Coaters | 1.0 |
| Calender and Super Calender | 1.75 |
| Chipper | 2.5 |
| Converting Machine | 1.25 |
| Couch | 1.75 |
| Cutter, Felt Whipper | 2.0 |
| Cylinder | 1.75 |
| Dryer | 1.75 |
| Felt Stretcher | 1.25 |
| Fourdrinier | 1.75 |
| Jordan | 2.0 |
| Log Haul | 2.0 |
| Line Shaft | 1.5 |
| Press | 1.75 |
| Pulp Grinder | 1.75 |
| Reel, Rewinder, Winder | 1.5 |
| Stock Chest, Washer, Thickener | 1.5 |
| Stock Pumps, Centrifugal | |

| Industry | Service Factor |
|---|---|
| Constant Speed | 1.0 |
| Frequent Speed Changes Under Load | 1.25 |
| Suction Roll | 1.75 |
| Vacuum Pumps | 1.25 |
| **RU BBER INDUSTRY** | |
| Calender | 2.0 |
| Cracker, Plasticator | 2.5 |
| Extruder | 1.75 |
| Intensive or Banbury Mixer | 2.5 |
| Mixing Mill, Refiner or Sheeter | |
| One or two in line | 2.5 |
| Three or four in line | 2.0 |
| Five or more in line | 1.75 |
| Tire Building Machine | 2.5 |
| Tire and Tube Press Opener (Peak Torque) | 1.0 |
| Tuber, Strainer, Pelletizer | 1.75 |
| Warming Mill | |
| One or two Mills in line | 2.0 |
| Three or more Mills in line | 1.75 |
| Washer | 2.5 |
| **SEWAGE DISPOSAL EQUIPMENT** | |
| Bar Screen, Chemical Feeders, Collectors, Dewatering Screen, Grit Collector | 1.0 |
| **SUGAR INDUSTRY** | |
| Cane Carrier and Leveler | 1.75 |
| Cane Knife and Crusher | 2.0 |
| Mill Stands, Turbine Driver with all Helical or Herringbone gears | 1.5 |
| Electric Drive or Steam Engine Drive with Helical, Herringbone, or Spur Gears with any Prime Mover | 1.75 |
| **TEXTILE INDUSTRY** | |
| Batcher | 1.25 |
| Calender, Card Machine | 1.5 |
| Cloth Finishing Machine | 1.5 |
| Dry Can, Loom | 1.5 |
| Dyeing Machinery | 1.25 |
| Knitting Machine | • |
| Mangle, Napper, Soaper | 1.25 |
| Spinner, Tenter Frame, Winder | 1.5 |

• Refer to Factory

◊ Not Approved

See Application Listing

♦ For engine drives, refer to Table 7. Electric motors, generators, engines, compressors and other machines fitted with sleeves or straight roller bearings usually require limited end float couplings. If in doubt, provide axial clearances and centering forces to the Factory for a recommendation.

**Table 7 – Engine Drive Service Factors**

Service Factors (S. F.) for engine drives are those required for applications where good flywheel regulation prevents torque fluctuations greater than ±20%. For drives where torque fluctuations are greater or where the operation is near a serious critical or torsional vibration, a mass elastic study is necessary.

| No. of Cylinders | 4 or 5 | | | | | 6 or more | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Table 6 S.F. | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 |
| Engine S.F. | 2.0 | 2.25 | 2.5 | 2.75 | 3.0 | 1.5 | 1.75 | 2.0 | 2.25 | 2.5 |

To use Table 7, first determine application service factor from Table 6. Use that factor to determine Engine Service Factor from Table 7. When service factor from Table 6 is greater than 2.0, or where 1, 2 or 3 cylinder engines are involved, refer complete application details to Martin Engineering.

# How to Order Blue-Flex®

## How to Order

To ensure your exact specifications are met the following information is required for a quote or order.

**Step 1. Application:** Driver and Driven

**Step 2. Power:** Normal hp, Maximum hp or Torque (lb-in)

**Step 3. Speed (RPM)**

**Step 4. Quantity**

**Step 5 Coupling Size and Type**

**Step 6. Shaft Gap or distance between shaft ends** (BE Dimension)

**Step 7. Bore Sizes:** Must specify clearance or interference fit, or fit will be furnished per Table 14, page C-56. Bore sizes will be furnished as per Table 16 on page C-57 or Table 17 on pages C-58 and C-59 unless specified differently

**Step 8. Shaft Dimensions** as follows:

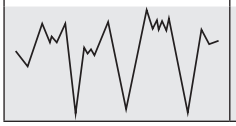
**For Straight Shafts:**

| Driving Shaft | | Driven Shaft | |
|---|---|---|---|
| Diameter | _____ | Diameter | _____ |
| Tolerance | _____ | Tolerance | _____ |
| Length | _____ | Length | _____ |
| Keyway | _____ | Keyway | _____ |

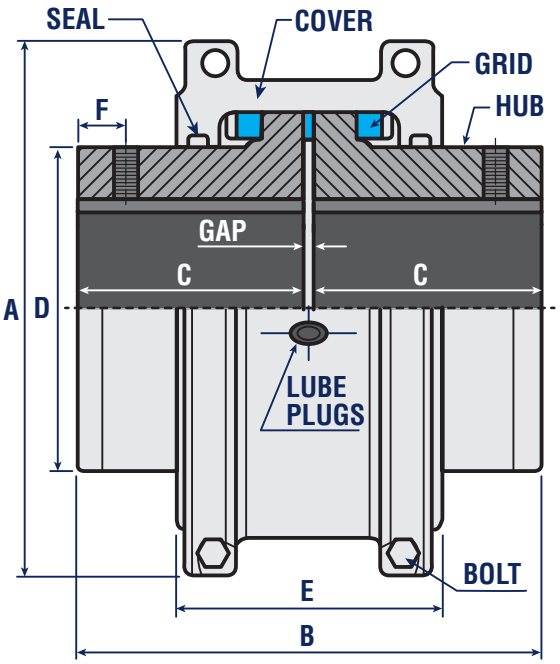
**NOTE:** Provide shaft tolerances if different than those shown in Table 15 through Table 17, pages C-56 to C-58. Unless otherwise specified, keyway sizes in inch shafts will be furnished based on key sizes listed in Table 14, page C-56, to Martin tolerances; metric keyways will be furnished for keys listed in Table 14, page C-56 per ISO/R773-1969 (ANSI/AGMA 9112) and JS9 width tolerances. For other shaft/bore requirements, consult Martin.

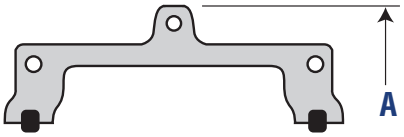
## Service Factors

Are a guide, based on experience, of the ratio between coupling catalog rating and system characteristics. The system characteristics are best measured with a torque meter.

| Torque Demands Driven Machine | Typical applications for electric motor or turbine driven equipment | Typical Service Factor |
|---|---|---|
| | Constant torque such as Centrifugal Pumps, Blowers and Compressors. | 1.0 |
| | Continuous duty with some torque variations including Plastic Extruders, Forced Draft Fans. | 1.5 |
| | Light shock loads from Metal Extruders, Cooling Towers, Cane Knife, Log Haul. | 2.0 |
| | Moderate shock loading as expected from a Car Dumper, Stone Crusher, Vibrating Screen. | 2.5 |
| | Heavy shock load with some negative torques from Roughing Mills, Reciprocating Pumps, Compressors, Reversing Runout Tables. | 3.0 |
|  | Applications like Reciprocating Compressors with frequent torque reversals, which do not necessarily cause reverse rotations. | Refer to Factory |

# Stock
# T10 Cover Design



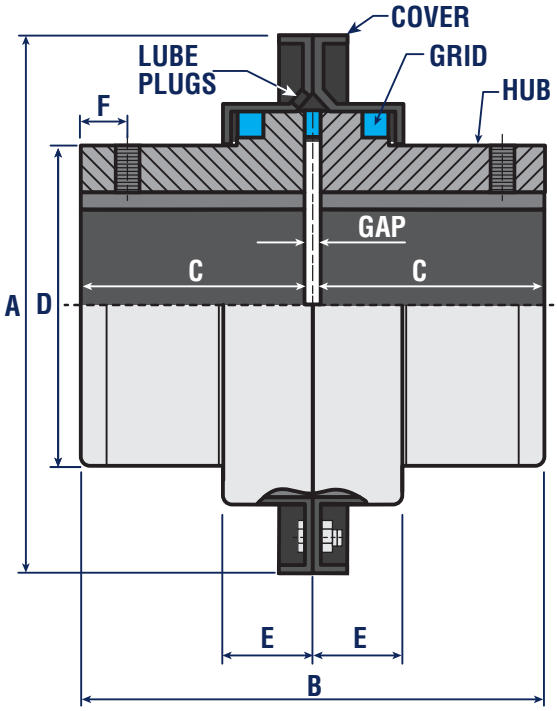

Sizes 1150 - 1200

## Martin Blue-Flex® Grid Coupling – T10 Style

| Coupling Size | HP per 100 RPM | Max Speed (RPM) | Basic Torque (lb-in) | Bore Dia. | | Dimensions (in) | | | | | | Gap (in) | Complete Weight (lb) | Lub. Wt. (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Max. | Min. | A | B | C | D | E | F | Normal | | |
| 1020T10 | 0.68 | 4,500 | 460 | 1.12 | 0.50 | 4.00 | 3.86 | 1.87 | 1.56 | 2.62 | 0.31 | 0.12 | 4.2 | 0.1 |
| 1030T10 | 1.93 | 4,500 | 1,320 | 1.37 | 0.50 | 4.37 | 3.86 | 1.87 | 1.94 | 2.69 | 0.31 | 0.12 | 5.7 | 0.1 |
| 1040T10 | 3.22 | 4,500 | 2,200 | 1.62 | 0.50 | 4.63 | 4.12 | 2.00 | 2.25 | 2.76 | 0.31 | 0.12 | 7.5 | 0.1 |
| 1050T10 | 5.63 | 4,500 | 3,850 | 1.87 | 0.50 | 5.43 | 4.87 | 2.37 | 2.63 | 3.13 | 0.31 | 0.12 | 11.9 | 0.1 |
| 1060T10 | 8.85 | 4,350 | 6,050 | 2.12 | 0.75 | 5.93 | 5.12 | 2.50 | 3.00 | 3.62 | 0.31 | 0.12 | 16.1 | 0.2 |
| 1070T10 | 13 | 4,125 | 8,800 | 2.50 | 0.75 | 6.37 | 6.12 | 3.00 | 3.44 | 3.74 | 0.50 | 0.12 | 22.0 | 0.2 |
| 1080T10 | 27 | 3,600 | 18,150 | 3.00 | 1.06 | 7.64 | 7.12 | 3.50 | 4.13 | 4.57 | 0.50 | 0.12 | 39.7 | 0.4 |
| 1090T10 | 48 | 3,600 | 33,000 | 3.50 | 1.06 | 8.39 | 7.87 | 3.87 | 4.87 | 4.80 | 0.63 | 0.12 | 55.1 | 0.6 |
| 1100T10 | 81 | 2,400 | 55,550 | 4.00 | 1.63 | 9.84 | 9.67 | 4.75 | 5.59 | 6.12 | 0.63 | 0.18 | 92.6 | 0.9 |
| 1110T10 | 121 | 2,250 | 82,500 | 4.50 | 1.63 | 10.63 | 10.18 | 5.00 | 6.31 | 6.36 | 0.75 | 0.18 | 119.0 | 1.1 |
| 1120T10 | 177 | 2,025 | 121,000 | 5.00 | 2.37 | 12.13 | 11.98 | 5.87 | 7.06 | 7.54 | 0.75 | 0.25 | 178.6 | 1.6 |
| 1130T10 | 257 | 1,800 | 176,000 | 6.00 | 2.63 | 13.62 | 12.98 | 6.37 | 8.56 | 7.68 | 1.19 | 0.25 | 266.8 | 2.0 |
| 1140T10 | 370 | 1,650 | 253,000 | 7.25 | 2.63 | 15.12 | 14.63 | 7.20 | 10.00 | 7.91 | 1.19 | 0.25 | 392.4 | 2.5 |
| 1150T10 | 515 | 1,500 | 352,000 | 8.00 | 4.25 | 17.84 | 14.64 | 7.20 | 10.60 | 10.68 | 1.19 | 0.25 | 515.9 | 4.3 |
| 1160T10 | 724 | 1,350 | 495,000 | 9.00 | 4.75 | 19.74 | 15.83 | 7.80 | 12.00 | 10.98 | 1.19 | 0.25 | 698.9 | 6.2 |
| 1170T10 | 965 | 1,225 | 660,000 | 10.00 | 5.25 | 22.30 | 17.24 | 8.50 | 14.00 | 11.98 | 1.19 | 0.25 | 987.7 | 7.7 |
| 1180T10 | 1338 | 1,100 | 915,000 | 11.00 | 6.00 | 24.80 | 19.05 | 9.40 | 15.50 | 12.64 | 1.50 | 0.25 | 1364.7 | 8.3 |
| 1190T10 | 1770 | 1,050 | 1,210,000 | 12.00 | 6.00 | 26.60 | 20.64 | 10.20 | 17.20 | 12.80 | 1.50 | 0.25 | 1710.8 | 9.7 |
| 1200T10 | 2413 | 900 | 1,650,000 | 13.00 | 7.00 | 29.80 | 22.24 | 11.00 | 19.60 | 14.00 | 1.50 | 0.25 | 2330.3 | 12.4 |

Consult Martin for higher speeds.
Max. bores listed fit standard recommended keys per ANSI B17.1

# Stock
# T20 Cover Design

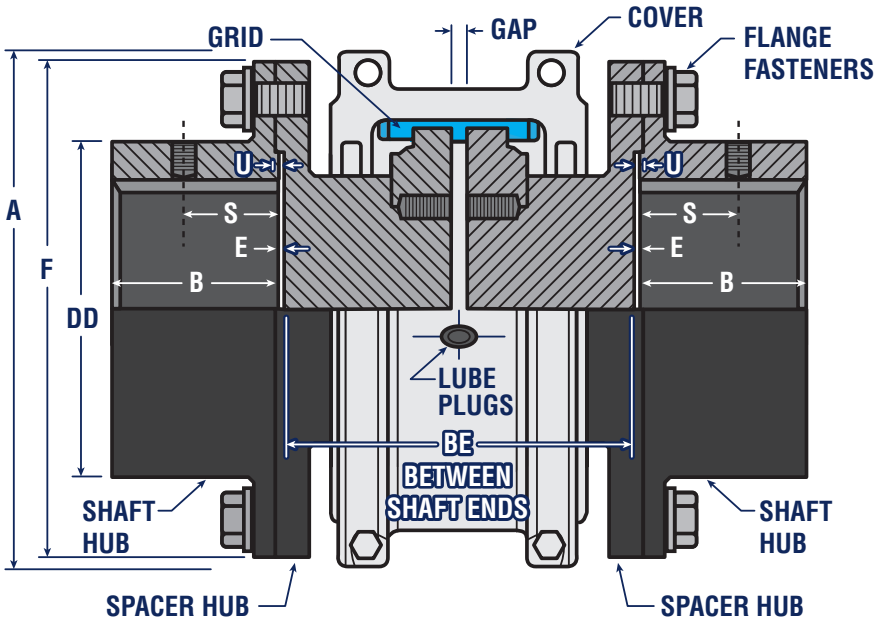



## Martin Blue-Flex® Grid Coupling – T20 Style

| Coupling Size | HP per 100 RPM | Max Speed (RPM) | Basic Torque (lb-in) | Bore Dia. | | Dimensions (in) | | | | | | Gap (in) | Complete Weight (lb) | Lub. Wt. (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Max. | Min. | A | B | C | D | E | F | Normal | | |
| 1020T20 | 0.68 | 6000 | 460 | 1.12 | 0.50 | 4.37 | 3.86 | 1.87 | 1.56 | 0.95 | 0.31 | 0.12 | 4.4 | 0.1 |
| 1030T20 | 1.93 | 6000 | 1,320 | 1.37 | 0.50 | 4.75 | 3.86 | 1.87 | 1.94 | 0.98 | 0.31 | 0.12 | 5.7 | 0.1 |
| 1040T20 | 3.22 | 6000 | 2,200 | 1.62 | 0.50 | 5.06 | 4.12 | 2.00 | 2.25 | 1.01 | 0.31 | 0.12 | 7.5 | 0.1 |
| 1050T20 | 5.63 | 6000 | 3,850 | 1.87 | 0.50 | 5.81 | 4.87 | 2.37 | 2.63 | 1.23 | 0.31 | 0.12 | 11.9 | 0.1 |
| 1060T20 | 8.85 | 6000 | 6,050 | 2.12 | 0.75 | 6.40 | 5.12 | 2.50 | 3.00 | 1.27 | 0.31 | 0.12 | 16.1 | 0.2 |
| 1070T20 | 13 | 5500 | 8,800 | 2.50 | 0.75 | 6.81 | 6.12 | 3.00 | 3.44 | 1.33 | 0.50 | 0.12 | 22.9 | 0.2 |
| 1080T20 | 27 | 4750 | 18,150 | 3.00 | 1.06 | 7.87 | 7.12 | 3.50 | 4.13 | 1.74 | 0.50 | 0.12 | 39.0 | 0.4 |
| 1090T20 | 48 | 4000 | 33,000 | 3.50 | 1.06 | 8.42 | 7.87 | 3.87 | 4.87 | 1.88 | 0.63 | 0.12 | 56.0 | 0.6 |
| 1100T20 | 81 | 3250 | 55,550 | 4.00 | 1.63 | 10.50 | 9.67 | 4.75 | 5.59 | 2.36 | 0.63 | 0.18 | 93.0 | 0.9 |
| 1110T20 | 121 | 3000 | 82,500 | 4.50 | 1.63 | 11.25 | 10.18 | 5.00 | 6.31 | 2.53 | 0.75 | 0.18 | 119.9 | 1.1 |
| 1120T20 | 177 | 2700 | 121,000 | 5.00 | 2.37 | 12.56 | 11.98 | 5.87 | 7.06 | 2.89 | 0.75 | 0.25 | 179.9 | 1.6 |
| 1130T20 | 257 | 2400 | 176,000 | 6.00 | 2.63 | 14.87 | 12.98 | 6.37 | 8.56 | 2.96 | 1.19 | 0.25 | 270.1 | 2.0 |
| 1140T20 | 370 | 2200 | 253,000 | 7.25 | 2.63 | 16.38 | 14.63 | 7.20 | 10.00 | 3.08 | 1.19 | 0.25 | 397.1 | 2.5 |
| 1150T20 | 515 | 2000 | 352,000 | 8.00 | 4.25 | 18.75 | 14.64 | 7.20 | 10.60 | 4.21 | 1.19 | 0.25 | 507.1 | 4.3 |
| 1160T20 | 724 | 1750 | 495,000 | 9.00 | 4.75 | 21.00 | 15.83 | 7.80 | 12.00 | 4.50 | 1.19 | 0.25 | 707.9 | 6.2 |
| 1170T20 | 965 | 1600 | 660,000 | 10.00 | 5.25 | 23.00 | 17.24 | 8.50 | 14.00 | 4.70 | 1.19 | 0.25 | 988.1 | 7.7 |
| 1180T20 | 1,338 | 1400 | 915,000 | 11.00 | 6.00 | 24.80 | 19.04 | 9.40 | 15.50 | 5.12 | 1.50 | 0.25 | 1302.9 | 8.3 |
| 1190T20 | 1,770 | 1300 | 1,210,000 | 12.00 | 6.00 | 26.97 | 20.64 | 10.20 | 17.20 | 5.31 | 1.50 | 0.25 | 1677.7 | 9.7 |
| 1200T20 | 2,413 | 1100 | 1,650,000 | 13.00 | 7.00 | 29.02 | 22.24 | 11.00 | 19.60 | 5.71 | 1.50 | 0.25 | 2250.9 | 12.4 |

Consult Martin for higher speeds.
Max. bores listed fit standard recommended keys per ANSI B17.1

# Stock
# T31 Spacer Design

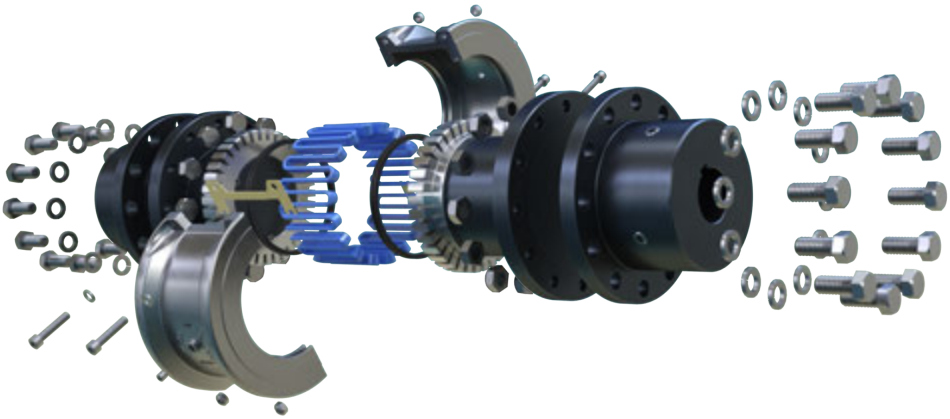



## Martin Blue-Flex® Grid Coupling – T31 Style

| Coupling Size | Torque Rating (in-lb)* | Allow Speed RPM** | Bore | | A | B | BE | | E | F | S | U | GAP | Flange Fasteners | | Wt Without Bore and Min BE (lb) | Wt Added per inch of BE over Min (lb) | Lube Wt (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Max | Min *** | | | Min | Max | | | | | | No. per Flange and Grade | Dia (in) | | | |
| 1020T | 460 | 3,600 | 1.38 | 0.5 | 3.82 | 1.38 | 3.5 | 8 | 0.03 | 3.38 | 1.08 | 0.08 | 0.19 | 4, GR 8 | 0.25 | 8.5 | 0.57 | 0.06 |
| 1030T | 1,320 | 3,600 | 1.63 | 0.5 | 4.16 | 1.62 | 3.5 | 8.5 | 0.03 | 3.69 | 1.24 | 0.08 | 0.19 | 8, GR 8 | 0.25 | 11.5 | 0.87 | 0.09 |
| 1040T | 2,200 | 3,600 | 2.13 | 0.5 | 4.5 | 2.12 | 3.5 | 8.5 | 0.03 | 4.44 | 1.08 | 0.08 | 0.19 | 8, GR 8 | 0.25 | 18.6 | 1.17 | 0.12 |
| 1050T | 3,850 | 3,600 | 2.38 | 0.5 | 5.32 | 2.38 | 4.37 | 8.5 | 0.03 | 4.94 | 1.6 | 0.08 | 0.19 | 8, GR 8 | 0.31 | 28.2 | 1.58 | 0.15 |
| 1060T | 6,050 | 3,600 | 2.88 | 0.75 | 5.82 | 2.88 | 4.81 | 13 | 0.06 | 5.69 | 1.7 | 0.11 | 0.19 | 8, GR 8 | 0.38 | 45.1 | 2.06 | 0.19 |
| 1070T | 8,800 | 3,600 | 3.13 | 0.75 | 6.25 | 3.12 | 5 | 13 | 0.06 | 6 | 1.84 | 0.11 | 0.19 | 12, Gr 8 | 0.38 | 54.6 | 2.69 | 0.25 |
| 1080T | 18,150 | 3,600 | 3.50 | 1.06 | 7.5 | 3.5 | 6.12 | 16 | 0.06 | 7 | 1.96 | 0.11 | 0.19 | 12, Gr 8 | 0.5 | 88.1 | 3.86 | 0.38 |
| 1090T | 33,000 | 3,600 | 4 | 1.06 | 8.31 | 4 | 6.44 | 16 | 0.06 | 8.25 | 2.24 | 0.11 | 0.19 | 12, Gr 8 | 0.63 | 132 | 5.37 | 0.56 |
| 1100T | 55,550 | 2,440 | 4.75 | 1.5 | 9.88 | 3.56 | 8 | 16 | 0.06 | 9.88 | – | 0.12 | 0.25 | 12, Gr 8 | 0.75 | 199 | 6.95 | 0.94 |
| 1110T | 82,500 | 2,250 | 5.50 | 2 | 10.62 | 4.1 | 8.25 | 16 | 0.06 | 10.88 | – | 0.12 | 0.25 | 12, Gr 8 | 0.75 | 261 | 8.98 | 1.12 |
| 1120T | 121,000 | 2,025 | 6.25 | 2.5 | 12.12 | 4.7 | 9.69 | 16 | 0.06 | 12.56 | – | 0.16 | 0.38 | 12, Gr 8 | 0.88 | 392 | 11.2 | 1.62 |
| 1130T | 176,000 | 1,800 | 7 | 3 | 13.62 | 5.3 | 10.12 | 16 | 0.06 | 13.62 | – | 0.16 | 0.38 | 12, Gr 8 | 1 | 522 | 16.5 | 2 |
| 1140T | 253,000 | 1,650 | 8 | 3.5 | 15.12 | 6 | 10.5 | 16 | 0.06 | 15.19 | – | 0.16 | 0.38 | 12, Gr 8 | 1.13 | 720 | 22.4 | 2.5 |

* Peak torque capacity is two times the published rating. Torque ratings for hubs with bushings differ from those shown, refer to Table 9, page C48.
** Consult Martin for higher speeds..
*** Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.

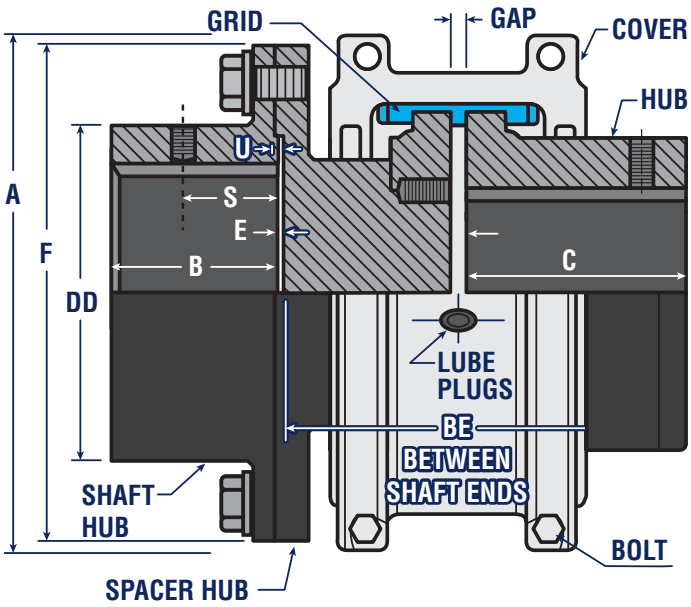
# Spacer Selection Guide



## Full Spacer Type T31 Application Shaft Separation – DBSE (Distance Between Shaft Ends)

| DBSE | Spacer Hubs | 1020T | 1030T | 1040T | 1050T | 1060T | 1070T | 1080T | 1090T | 1100T | 1110T |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3.500 | Hub 1 | 1.625 | 1.625 | 1.625 | | | | | | | |
| | Hub 2 | 1.625 | 1.625 | 1.625 | | | | | | | |
| 3.938 | Hub 1 | 1.625 | 1.625 | 1.625 | | | | | | | |
| | Hub 2 | 2.062 | 2.062 | 2.062 | | | | | | | |
| 4.250 | Hub 1 | 1.625 | 1.625 | 1.625 | | | | | | | |
| | Hub 2 | 2.375 | 2.375 | 2.375 | | | | | | | |
| 4.375 | Hub 1 | 2.062 | 2.062 | 2.062 | 2.062 | | | | | | |
| | Hub 2 | 2.062 | 2.062 | 2.062 | 2.062 | | | | | | |
| 4.688 | Hub 1 | 2.062 | 2.062 | 2.062 | 2.062 | | | | | | |
| | Hub 2 | 2.375 | 2.375 | 2.375 | 2.375 | | | | | | |
| 5.000 | Hub 1 | 2.375 | 2.375 | 2.375 | 2.375 | 2.344 | 2.344 | | | | |
| | Hub 2 | 2.375 | 2.375 | 2.375 | 2.375 | 2.344 | 2.344 | | | | |
| 5.219 | Hub 1 | | | 1.625 | | | | | | | |
| | Hub 2 | | | 3.344 | | | | | | | |
| 5.375 | Hub 1 | | 1.625 | 1.625 | | | | | | | |
| | Hub 2 | | 3.500 | 3.500 | | | | | | | |
| 5.510 | Hub 1 | 2.631 | 2.631 | 2.631 | 2.631 | 2.600 | 2.600 | | | | |
| | Hub 2 | 2.631 | 2.631 | 2.631 | 2.631 | 2.600 | 2.600 | | | | |
| 5.656 | Hub 1 | | 2.062 | 2.062 | 2.062 | | | | | | |
| | Hub 2 | | 3.344 | 3.344 | 3.344 | | | | | | |
| 5.813 | Hub 1 | | 2.062 | 2.062 | 2.062 | | | | | | |
| | Hub 2 | | 3.500 | 3.500 | 3.500 | | | | | | |
| 5.969 | Hub 1 | | 2.375 | 2.375 | 2.375 | | | | | | |
| | Hub 2 | | 3.344 | 3.344 | 3.344 | | | | | | |
| 6.125 | Hub 1 | | 2.375 | 2.375 | 2.375 | 2.344 | 2.344 | | | | |
| | Hub 2 | | 3.500 | 3.500 | 3.500 | 3.469 | 3.469 | | | | |
| 6.938 | Hub 1 | 3.344 | 3.344 | 3.344 | 3.344 | 3.312 | | | | | |
| | Hub 2 | 3.344 | 3.344 | 3.344 | 3.344 | 3.312 | | | | | |
| 7.000 | Hub 1 | | | | | | 3.344 | 3.344 | | | |
| | Hub 2 | | | | | | 3.344 | 3.344 | | | |
| 7.094 | Hub 1 | | | 3.344 | 3.344 | | 3.387 | 3.387 | 3.387 | | |
| | Hub 2 | | | 3.500 | 3.500 | | 3.387 | 3.387 | 3.387 | | |
| 7.250 | Hub 1 | | 3.500 | 3.500 | 3.500 | 3.469 | 3.469 | 3.469 | 3.469 | | |
| | Hub 2 | | 3.500 | 3.500 | 3.500 | 3.469 | 3.469 | 3.469 | 3.469 | | |
| 8.000 | Hub 1 | | | | | | | | | 3.812 | |
| | Hub 2 | | | | | | | | | 3.812 | |
| 8.593 | Hub 1 | | | | | | | 3.469 | | | |
| | Hub 2 | | | | | | | 4.812 | | | |
| 8.625 | Hub 1 | | | | | 2.344 | 2.344 | | | | |
| | Hub 2 | | | | | 5.696 | 5.696 | | | | |
| 8.875 | Hub 1 | | | | | | | | | 3.812 | |
| | Hub 2 | | | | | | | | | 4.688 | |
| 9.750 | Hub 1 | | | | | 3.469 | 3.469 | 3.469 | 3.469 | 4.688 | 4.688 |
| | Hub 2 | | | | | 5.969 | 5.969 | 5.969 | 5.969 | 4.688 | 4.688 |
| 9.938 | Hub 1 | | | | | | | 4.812 | | 4.733 | 4.733 |
| | Hub 2 | | | | | | | 4.812 | | 4.733 | 4.733 |
| 11.093 | Hub 1 | | | | | | | 4.812 | | | |
| | Hub 2 | | | | | | | 5.969 | | | |
| 12.250 | Hub 1 | | | | | 5.969 | 5.969 | 5.969 | 5.969 | 5.938 | |
| | Hub 2 | | | | | 5.969 | 5.969 | 5.969 | 5.969 | 5.938 | |
| 14.049 | Hub 1 | | | | | | | | | | 6.837 |
| | Hub 2 | | | | | | | | | | 6.837 |

# Stock
# T35 Spacer Design



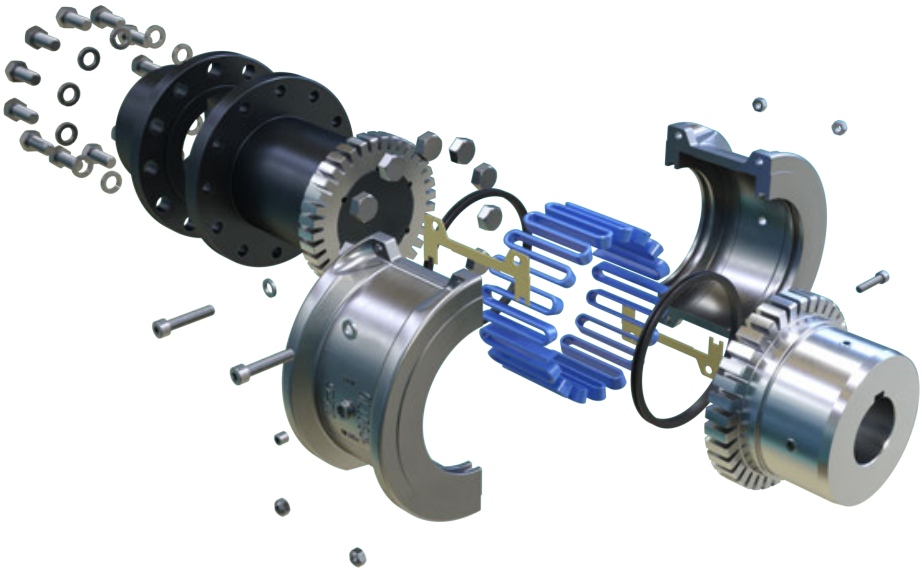

## Martin Blue-Flex® Grid Coupling – T35 Style

| Coupling Size | Torque Rating (in-lb)* | Allow Speed RPM** | Max Bore | | Min Bore *** | A | B | BE | | E | F | S | U | GAP | Flange Fasteners | | Wt Without Bore and Min BE (lb) | Wt Added per inch of BE over Min (lb) | Lube Wt (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Shaft Hub | Hub | | | | Min | Max | | | | | | No. per Flange and Grade | Dia (in) | | | |
| 1020T | 460 | 3,600 | 1.38 | 1.13 | 0.5 | 3.82 | 1.38 | 1.78 | 4.03 | 0.03 | 3.38 | 1.08 | 0.08 | 0.19 | 4, GR 8 | 0.25 | 8.5 | 0.57 | 0.06 |
| 1030T | 1,320 | 3,600 | 1.63 | 1.38 | 0.5 | 4.16 | 1.62 | 1.78 | 4.28 | 0.03 | 3.69 | 1.24 | 0.08 | 0.19 | 8, GR 8 | 0.25 | 11.5 | 0.87 | 0.09 |
| 1040T | 2,200 | 3,600 | 2.13 | 1.63 | 0.5 | 4.5 | 2.12 | 1.78 | 4.28 | 0.03 | 4.44 | 1.08 | 0.08 | 0.19 | 8, GR 8 | 0.25 | 18.6 | 1.17 | 0.12 |
| 1050T | 3,850 | 3,600 | 2.38 | 1.88 | 0.5 | 5.32 | 2.38 | 2.22 | 4.28 | 0.03 | 4.94 | 1.6 | 0.08 | 0.19 | 8, GR 8 | 0.31 | 28.2 | 1.58 | 0.15 |
| 1060T | 6,050 | 3,600 | 2.88 | 2.13 | 0.75 | 5.82 | 2.88 | 2.44 | 6.53 | 0.06 | 5.69 | 1.7 | 0.11 | 0.19 | 8, GR 8 | 0.38 | 45.1 | 2.06 | 0.19 |
| 1070T | 8,800 | 3,600 | 3.13 | 2.5 | 0.75 | 6.25 | 3.12 | 2.53 | 6.53 | 0.06 | 6 | 1.84 | 0.11 | 0.19 | 12, Gr 8 | 0.38 | 54.6 | 2.69 | 0.25 |
| 1080T | 18,150 | 3,600 | 3.5 | 3 | 1.06 | 7.5 | 3.5 | 3.09 | 8.03 | 0.06 | 7 | 1.96 | 0.11 | 0.19 | 12, Gr 8 | 0.5 | 88.1 | 3.86 | 0.38 |
| 1090T | 33,000 | 3,600 | 4 | 3.5 | 1.06 | 8.31 | 4 | 3.25 | 8.03 | 0.06 | 8.25 | 2.24 | 0.11 | 0.19 | 12, Gr 8 | 0.63 | 132 | 5.37 | 0.56 |
| 1100T | 55,550 | 2,440 | 4.75 | 4 | 1.63 | 9.88 | 3.56 | 4.06 | 8.06 | 0.06 | 9.88 | – | 0.12 | 0.25 | 12, Gr 8 | 0.75 | 199 | 6.95 | 0.94 |
| 1110T | 82,500 | 2,250 | 5.5 | 4.5 | 1.63 | 10.62 | 4.1 | 4.19 | 8.06 | 0.06 | 10.88 | – | 0.12 | 0.25 | 12, Gr 8 | 0.75 | 261 | 8.98 | 1.12 |
| 1120T | 121,000 | 2,025 | 6.25 | 5 | 2.38 | 12.12 | 4.7 | 4.91 | 8.06 | 0.06 | 12.56 | – | 0.16 | 0.38 | 12, Gr 8 | 0.88 | 392 | 11.2 | 1.62 |
| 1130T | 176,000 | 1,800 | 7 | 6 | 2.63 | 13.62 | 5.3 | 5.12 | 8.06 | 0.06 | 13.62 | – | 0.16 | 0.38 | 12, Gr 8 | 1 | 522 | 16.5 | 2 |
| 1140T | 253,000 | 1,650 | 8 | 7.25 | 2.63 | 15.12 | 6 | 5.31 | 8.06 | 0.06 | 15.19 | – | 0.16 | 0.38 | 12, Gr 8 | 1.13 | 720 | 22.4 | 2.5 |

* Peak torque capacity is two times the published rating. Torque ratings for hubs with bushings differ from those shown, refer to Table 9, page C48.

** Consult Martin for higher speeds..

*** Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.



## Half Spacer Type T35 Application Shaft Separation – DBSE (Distance Between Shaft Ends)

| DBSE | Spacer Hub 1 side only | Half Spacer type T35 Application Shaft Separation DBSE (Distance Between Shaft Ends) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1020T | 1030T | 1040T | 1050T | 1060T | 1070T | 1080T | 1090T | 1100T | 1110T |
| 1.781 | Hub 1 | 1.625 | 1.625 | 1.625 | | | | | | | |
| | Hub 2 | STD | STD | STD | | | | | | | |
| 2.219 | Hub 1 | 2.062 | 2.062 | 2.062 | 2.062 | | | | | | |
| | Hub 2 | STD | STD | STD | STD | | | | | | |
| 2.531 | Hub 1 | 2.375 | 2.375 | 2.375 | 2.375 | 2.344 | 2.344 | | | | |
| | Hub 2 | STD | STD | STD | STD | STD | STD | | | | |
| 3.500 | Hub 1 | 3.344 | 3.344 | 3.344 | 3.344 | 3.312 | | | | | |
| | Hub 2 | STD | STD | STD | STD | STD | | | | | |
| 3.531 | Hub 1 | | | | | | 3.344 | 3.344 | | | |
| | Hub 2 | | | | | | STD | STD | | | |
| 3.656 | Hub 1 | | | 3.500 | 3.500 | 3.469 | 3.469 | 3.469 | 3.469 | | |
| | Hub 2 | | | STD | STD | STD | STD | STD | STD | | |
| 4.062 | Hub 1 | | | | | | | | | 3.812 | |
| | Hub 2 | | | | | | | | | STD | |
| 4.938 | Hub 1 | | | | | | | | | 4.688 | 4.688 |
| | Hub 2 | | | | | | | | | STD | STD |
| 5.000 | Hub 1 | | | | | | | 4.812 | | 4.733 | 4.733 |
| | Hub 2 | | | | | | | STD | | STD | STD |
| 6.156 | Hub 1 | | | | | 5.969 | 5.969 | 5.969 | 5.969 | | |
| | Hub 2 | | | | | STD | STD | STD | STD | | |
| 6.188 | Hub 1 | | | | | | | | | 5.938 | |
| | Hub 2 | | | | | | | | | STD | |
| 7.090 | Hub 1 | | | | | | | | | | 6.837 |
| | Hub 2 | | | | | | | | | | STD |

# Bore-To-Size Hubs

## Blue-Flex® Bored-To-Size Hubs with Finished Bore, Keyway, and 2 Set Screw

| Bore Size | Keyway (Inches) | Part Number by Coupling Size | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 1020T | 1030T | 1040T | 1050T | 1060T | 1070T | 1080T | 1090T |
| Plain Bore | | 1020T-HUB | 1030T-HUB | 1040T-HUB | 1050T-HUB | 1060T-HUB | 1070T-HUB | 1080T-HUB | 1090T-HUB |
| **Inches** | | | | | | | | | |
| 1/2 | 1/8 x 1/16 | 1020T-HUB1/2 | — | — | — | — | — | — | — |
| 5/8 | 3/16 x 3/32 | 1020T-HUB5/8 | 1030T-HUB5/8 | 1040T-HUB5/8 | — | — | — | — | — |
| 3/4 | 3/16 x 3/32 | 1020T-HUB3/4 | 1030T-HUB3/4 | 1040T-HUB3/4 | 1050T-HUB3/4 | 1060T-HUB3/4 | — | — | — |
| 7/8 | 3/16 x 3/32 | 1020T-HUB7/8 | 1030T-HUB7/8 | 1040T-HUB7/8 | 1050T-HUB7/8 | 1060T-HUB7/8 | — | — | — |
| 15/16 | 1/4 x 1/8 | 1020T-HUB15/16 | 1030T-HUB15/16 | 1040T-HUB15/16 | 1050T-HUB15/16 | 1060T-HUB15/16 | — | — | — |
| 1 | 1/4 x 1/8 | 1020T-HUB1 | 1030T-HUB1 | 1040T-HUB1 | 1050T-HUB1 | 1060T-HUB1 | 1070T-HUB1 | — | — |
| 1 1/8 | 1/4 x 1/8 | 1020T-HUB1 1/8 | 1030T-HUB1 1/8 | 1040T-HUB1 1/8 | 1050T-HUB1 1/8 | 1060T-HUB1 1/8 | 1070T-HUB1 1/8 | 1080T-HUB1 1/8 | — |
| 1 3/16 | 1/4 x 1/8 | — | 1030T-HUB1 3/16 | 1040T-HUB1 3/16 | 1050T-HUB1 3/16 | 1060T-HUB1 3/16 | 1070T-HUB1 3/16 | — | — |
| 1 1/4 | 1/4 x 1/8 | — | 1030T-HUB1 1/4 | 1040T-HUB1 1/4 | 1050T-HUB1 1/4 | 1060T-HUB1 1/4 | 1070T-HUB1 1/4 | 1080T-HUB1 1/4 | — |
| 1 3/8 | 5/16 x 5/32 | — | 1030T-HUB1 3/8 | 1040T-HUB1 3/8 | 1050T-HUB1 3/8 | 1060T-HUB1 3/8 | 1070T-HUB1 3/8 | 1080T-HUB1 3/8 | 1090T-HUB1 3/8 |
| 1 7/16 | 3/8 x 3/16 | — | — | 1040T-HUB1 716 | 1050T-HUB1 716 | 1060T-HUB1 7/6 | 1070T-HUB1 716 | 1080T-HUB1 716 | 1090T-HUB1 7/16 |
| 1 1/2 | 3/8 x 3/16 | — | — | 1040T-HUB1 1/2 | 1050T-HUB1 1/2 | 1060T-HUB1 1/2 | 1070T-HUB1 1/2 | 1080T-HUB1 1/2 | 1090T-HUB1 1/2 |
| 1 9/16 | 3/8 x 3/16 | — | — | 1040T-HUB1 9/16 | 1050T-HUB1 9/16 | 1060T-HUB1 9/16 | 1070T-HUB1 9/16 | 1080T-HUB1 9/16 | — |
| 1 5/8 | 3/8 x 3/16 | — | — | 1040T-HUB1 5/8 | 1050T-HUB1 5/8 | 1060T-HUB1 5/8 | 1070T-HUB1 5/8 | 1080T-HUB1 5/8 | 1090T-HUB1 5/8 |
| 1 11/16 | 3/8 x 3/16 | — | — | — | 1050T-HUB1 11/16 | 1060T-HUB1 11/16 | 1070T-HUB1 11/16 | 1080T-HUB1 11/16 | 1090T-HUB1 11/16 |
| 1 3/4 | 3/8 x 3/16 | — | — | — | 1050T-HUB1 3/4 | 1060T-HUB1 3/4 | 1070T-HUB1 3/4 | 1080T-HUB1 3/4 | 1090T-HUB1 3/4 |
| 1 13/16 | 1/2 x 1/4 | — | — | — | 1050T-HUB1 13/16 | 1060T-HUB1 13/16 | 1070T-HUB1 13/16 | 1080T-HUB1 13/16 | 1090T-HUB1 13/16 |
| 1 7/8 | 1/2 x 1/4 | — | — | — | 1050T-HUB1 7/8 | 1060T-HUB1 7/8 | 1070T-HUB1 7/8 | 1080T-HUB1 7/8 | 1090T-HUB1 7/8 |
| 1 15/16 | 1/2 x 1/4 | — | — | — | — | 1060T-HUB1 15/16 | 1070T-HUB1 15/16 | 1080T-HUB1 15/16 | 1090T-HUB1 15/16 |
| 2 | 1/2 x 1/4 | — | — | — | — | 1060T-HUB2 | 1070T-HUB2 | 1080T-HUB2 | 1090T-HUB2 |
| 2 1/8 | 1/2 x 1/4 | — | — | — | — | 1060T-HUB2 1/8 | 1070T-HUB2 1/8 | 1080T-HUB2 1/8 | 1090T-HUB2 1/8 |
| 2 3/16 | 1/2 x 1/4 | — | — | — | — | — | 1070T-HUB2 3/16 | 1080T-HUB2 3/16 | 1090T-HUB2 3/16 |
| 2 1/4 | 1/2 x 1/4 | — | — | — | — | — | 1070T-HUB2 1/4 | 1080T-HUB2 1/4 | 1090T-HUB2 1/4 |
| 2 3/8 | 5/8 x 5/16 | — | — | — | — | — | 1070T-HUB2 3/8 | 1080T-HUB2 3/8 | 1090T-HUB2 3/8 |
| 2 7/16 | 5/8 x 5/16 | — | — | — | — | — | 1070T-HUB2 7/16 | 1080T-HUB2 7/16 | 1090T-HUB2 7/16 |
| 2 1/2 | 5/8 x 5/16 | — | — | — | — | — | 1070T-HUB2 1/2 | 1080T-HUB2 1/2 | 1090T-HUB2 1/2 |
| 2 5/8 | 5/8 x 5/16 | — | — | — | — | — | — | 1080T-HUB2 5/8 | 1090T-HUB2 5/8 |
| 2 11/16 | 5/8 x 5/16 | — | — | — | — | — | — | 1080T-HUB2 11/16 | 1090T-HUB2 11/16 |
| 2 3/4 | 5/8 x 5/16 | — | — | — | — | — | — | 1080T-HUB2 3/4 | 1090T-HUB2 3/4 |
| 2 7/8 | 3/4 x 3/8 | — | — | — | — | — | — | 1080T-HUB2 7/8 | 1090T-HUB2 7/8 |
| 2 15/16 | 3/4 x 3/8 | — | — | — | — | — | — | 1080T-HUB2 15/16 | 1090T-HUB2 15/16 |
| 3 | 3/4 x 3/8 | — | — | — | — | — | — | 1080T-HUB3 | 1090T-HUB3 |
| 3 1/8 | 3/4 x 3/8 | — | — | — | — | — | — | — | 1090T-HUB3 1/8 |
| 3 1/4 | 3/4 x 3/8 | — | — | — | — | — | — | — | 1090T-HUB3 1/4 |
| 3 3/8 | 7/8 x 7/16 | — | — | — | — | — | — | — | 1090T-HUB3 3/8 |
| 3 7/16 | 7/8 x 7/16 | — | — | — | — | — | — | — | 1090T-HUB3 7/16 |
| 3 1/2 | 7/8 x 7/16 | — | — | — | — | — | — | — | 1090T-HUB3 1/2 |
| **Taper Bushed** | | — | 1030T-HUB1108 | 1040T-HUB1108 | 1050T-HUB1215 | 1060T-HUB1615 | 1070T-HUB2012 | 1080T-HUB2525 | 1090T-HUB3030 |
| **Metric** | | | | | | | | | |
| 14 | 5 x 2.3 | 1020T-HUB14MM | — | — | — | — | — | — | — |
| 15 | 5 x 2.3 | 1020T-HUB15MM | — | — | — | — | — | — | — |
| 16 | 5 x 2.3 | 1020T-HUB16MM | — | — | — | — | — | — | — |
| 19 | 6 x 2.8 | 1020T-HUB19MM | 1030T-HUB19MM | — | — | — | — | — | — |
| 20 | 6 x 2.8 | 1020T-HUB20MM | 1030T-HUB20MM | — | — | — | — | — | — |
| 22 | 6 x 2.8 | 1020T-HUB22MM | 1030T-HUB22MM | — | — | — | — | — | — |
| 24 | 8 x 3.3 | 1020T-HUB24MM | 1030T-HUB24MM | 1040T-HUB24MM | — | — | — | — | — |
| 25 | 8 x 3.3 | 1020T-HUB25MM | 1030T-HUB25MM | 1040T-HUB25MM | — | — | — | — | — |
| 28 | 8 x 3.3 | — | 1030T-HUB28MM | 1040T-HUB28MM | 1050T-HUB28MM | — | — | — | — |
| 30 | 8 x 3.3 | — | 1030T-HUB30MM | 1040T-HUB30MM | 1050T-HUB30MM | — | — | — | — |
| 32 | 10 x 3.3 | — | 1030T-HUB32MM | 1040T-HUB32MM | 1050T-HUB32MM | 1060T-HUB32MM | — | — | — |
| 35 | 10 x 3.3 | — | 1030T-HUB35MM | 1040T-HUB35MM | 1050T-HUB35MM | 1060T-HUB35MM | 1070T-HUB35MM | — | — |
| 38 | 10 x 3.3 | — | — | 1040T-HUB38MM | 1050T-HUB38MM | 1060T-HUB38MM | 1070T-HUB38MM | 1080T-HUB38MM | — |
| 40 | 12 x 3.3 | — | — | — | — | 1060T-HUB40MM | 1070T-HUB40MM | — | — |
| 42 | 12 x 3.3 | — | — | 1040T-HUB42MM | 1050T-HUB42MM | 1060T-HUB42MM | 1070T-HUB42MM | 1080T-HUB42MM | 1090T-HUB42MM |
| 45 | 14 x 3.8 | — | — | — | — | 1060T-HUB45MM | 1070T-HUB45MM | — | — |
| 48 | 14 x 3.8 | — | — | — | 1050T-HUB48MM | 1060T-HUB48MM | 1070T-HUB48MM | 1080T-HUB48MM | 1090T-HUB48MM |
| 50 | 14 x 3.8 | — | — | — | — | 1060T-HUB50MM | — | — | — |
| 55 | 16 x 4.3 | — | — | — | — | 1060T-HUB55MM | 1070T-HUB55MM | 1080T-HUB55MM | 1090T-HUB55MM |
| 60 | 18 x 4.4 | — | — | — | — | — | — | 1080T-HUB60MM | — |
| 65 | 18 x 4.4 | — | — | — | — | — | — | — | 1090T-HUB65MM |
| 70 | 20 x 4.9 | — | — | — | — | — | — | 1080T-HUB70MM | 1090T-HUB70MM |
| 80 | 22 x 5.4 | — | — | — | — | — | — | 1080T-HUB80MM | 1090T-HUB80MM |
| 85 | 22 x 5.4 | — | — | — | — | — | — | — | 1090T-HUB85MM |

# Spacer and Shaft Hubs

**Spacer Hubs**

**Shaft Hubs**
Plain Bore and Finished Bore with Keyway, and 2 Set Screws Taper Bushed Available

| Spacer Length | Part Number by Coupling Size | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1020T | 1030T | 1040T | 1050T | 1060T | 1070T | 1080T | 1090T | 1100T | 1110T |
| 1.625 | 1020T-CL1.6250 | 1030T-CL1.6250 | 1040T-CL1.6250 | | | | | | | |
| 2.0620 | 1020T-CL2.0620 | 1030T-CL2.0620 | 1040T-CL2.0620 | 1050T-CL2.0620 | | | | | | |
| 2.3440 | | | | | 1060T-CL2.3440 | 1070T-CL2.3440 | 1080T-CL3.3440 | | | |
| 2.3750 | 1020T-CL2.3750 | 1030T-CL2.3750 | 1040T-CL2.3750 | 1050T-CL2.3750 | | | | | | |
| 2.6000 | | | | | 1060T-CL2.6000 | 1070T-CL2.6000 | | | | |
| 2.6310 | 1020T-CL2.6310 | 1030T-CL2.6310 | 1040T-CL2.6310 | 1050T-CL2.6310 | | | | | | |
| 3.3120 | | | | | 1060T-CL3.3120 | | | | | |
| 3.3440 | 1020T-CL3.3440 | 1030T-CL3.3440 | 1040T-CL3.3440 | 1050T-CL3.3440 | | 1070T-CL3.3440 | | | | |
| 3.3870 | | | | | | 1070T-CL3.3870 | 1080T-CL3.3870 | 1090T-CL3.3870 | | |
| 3.4690 | | | | | 1060T-CL3.4690 | 1070T-CL3.4690 | 1080T-CL3.4690 | 1090T-CL3.4690 | | |
| 3.5000 | | 1030T-CL3.5000 | 1040T-CL3.5000 | 1050T-CL3.5000 | | | | | | |
| 3.8120 | | | | | | | | | 1100T-CL3.8120 | |
| 4.6880 | | | | | | | | | 1100T-CL4.6880 | 1110T-CL4.6880 |
| 4.7330 | | | | | | | | | 1100T-CL4.7330 | 1110T-CL4.7330 |
| 4.8120 | | | | | | | 1080T-CL4.8120 | | | |
| 5.2620 | | | | | | | | | 1100T-CL5.2620 | |
| 5.3250 | | | | | | | 1080T-CL5.3250 | 1090T-CL5.3250 | | |
| 5.9375 | | | | | | | | | 1100T-CL5.9375 | |
| 5.9690 | | | | | 1060T-CL5.9690 | 1070T-CL5.9690 | 1080T-CL5.9690 | 1090T-CL5.9690 | | |
| 6.8370 | | | | | | | | | | 1110T-CL6.8370 |
| 6.9000 | | | | | | | | 1090T-CL6.9000 | | |

## Blue-Flex® Shaft Hubs with Plain Bore and Finished Bore (with Keyway, and 2 Set Screws)

| Bore Size | Keyway (Inches) | Part Number by Coupling Size | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1020T | 1030T | 1040T | 1050T | 1060T | 1070T | 1080T | 1090T | 1100T | 1110T |
| Plain Bore | | 1020T-SH | 1030T-SH | 1040T-SH | 1050T-SH | 1060T-SH | 1070T-SH | 1080T-SH | 1090T-SH | 1100T-SH | 1110T-SH |
| 1/2 | 1/8 x 1/16 | 1020T-SH1/2 | | | | | | | | | |
| 5/8 | 3/16 x 3/32 | 1020T-SH5/8 | 1030T-SH5/8 | | | | | **Bore Size** | **1120T** | **1130T** | **1140T** |
| 3/4 | 3/16 x 3/32 | 1020T-SH3/4 | 1030T-SH3/4 | 1040T-SH3/4 | | | | Plain Bore | 1120T-SH | 1130T-SH | 1140T-SH |
| 7/8 | 3/16 x 3/32 | 1020T-SH7/8 | 1030T-SH7/8 | 1040T-SH7/8 | | | | | | | |
| 1 | 1/4 x 1/8 | 1020T-SH1 | 1030T-SH1 | 1040T-SH1 | 1050T-SH1 | | | | | | |
| 1 1/8 | 1/4 x 1/8 | 1020T-SH1 1/8 | 1030T-SH1 1/8 | 1040T-SH1 1/8 | 1050T-SH1 1/8 | 1060T-SH1 1/8 | | | | | |
| 1 1/4 | 1/4 x 1/8 | 1020T-SH1 1/4 | 1030T-SH1 1/4 | 1040T-SH1 1/4 | 1050T-SH1 1/4 | 1060T-SH1 1/4 | | | | | |
| 1 3/8 | 5/16 x 5/32 | 1020T-SH1 3/8 | 1030T-SH1 3/8 | 1040T-SH1 3/8 | 1050T-SH1 3/8 | 1060T-SH1 3/8 | 1070T-SH1 3/8 | | | | |
| 1 1/2 | 3/8 x 3/16 | | 1030T-SH1 1/2 | 1040T-SH1 1/2 | 1050T-SH1 1/2 | 1060T-SH1 1/2 | 1070T-SH1 1/2 | | | | |
| 1 5/8 | 3/8 x 3/16 | | 1030T-SH1 5/8 | 1040T-SH1 5/8 | 1050T-SH1 5/8 | 1060T-SH1 5/8 | 1070T-SH1 5/8 | 1080T-SH1 5/8 | | 1100T-SH1 5/8 | |
| 1 3/4 | 3/8 x 3/16 | | | 1040T-SH1 3/4 | 1050T-SH1 3/4 | 1060T-SH1 3/4 | 1070T-SH1 3/4 | 1080T-SH1 3/4 | | | |
| 1 7/8 | 1/2 x 1/4 | | | 1040T-SH1 7/8 | 1050T-SH1 7/8 | 1060T-SH1 7/8 | 1070T-SH1 7/8 | 1080T-SH1 7/8 | 1090T-SH1 7/8 | | |
| 2 | 1/2 x 1/4 | | | 1040T-SH2 | 1050T-SH2 | 1060T-SH2 | 1070T-SH2 | 1080T-SH2 | 1090T-SH2 | | |
| 2 1/8 | 1/2 x 1/4 | | | 1040T-SH2 1/8 | 1050T-SH2 1/8 | 1060T-SH2 1/8 | 1070T-SH2 1/8 | 1080T-SH2 1/8 | 1090T-SH2 1/8 | | |
| 2 1/4 | 1/2 x 1/4 | | | | 1050T-SH2 1/4 | 1060T-SH2 1/4 | 1070T-SH2 1/4 | 1080T-SH2 1/4 | 1090T-SH2 1/4 | | |
| 2 3/8 | 5/8 x 5/16 | | | | 1050T-SH2 3/8 | 1060T-SH2 3/8 | 1070T-SH2 3/8 | 1080T-SH2 3/8 | 1090T-SH2 3/8 | | |
| 2 1/2 | 5/8 x 5/16 | | | | | 1060T-SH2 1/2 | 1070T-SH2 1/2 | 1080T-SH2 1/2 | 1090T-SH2 1/2 | | |
| 2 5/8 | 5/8 x 5/16 | | | | | 1060T-SH2 5/8 | 1070T-SH2 5/8 | 1080T-SH2 5/8 | 1090T-SH2 5/8 | | |
| 2 7/8 | 3/4 x 3/8 | | | | | 1060T-SH2 7/8 | 1070T-SH2 7/8 | 1080T-SH2 7/8 | 1090T-SH2 7/8 | | |
| 3 | 3/4 x 3/8 | | | | | | 1070T-SH3 | 1080T-SH3 | 1090T-SH3 | 1100T-SH3 | 1110T-SH3 |
| 3 1/8 | 3/4 x 3/8 | | | | | | | 1080T-SH3 1/8 | 1090T-SH3 1/8 | | |
| 3 1/4 | 3/4 x 3/8 | | | | | | | 1080T-SH3 1/4 | 1090T-SH3 1/4 | | |
| 3 3/8 | 7/8 x 7/16 | | | | | | | 1080T-SH3 3/8 | 1090T-SH3 3/8 | 1100T-SH3 3/8 | |
| 3 1/2 | 7/8 x 7/16 | | | | | | | | 1090T-SH3 1/2 | | |
| 3 5/8 | 7/8 x 7/16 | | | | | | | | 1090T-SH3 5/8 | | |
| 3 7/8 | 1 x 1/2 | | | | | | | | 1090T-SH3 7/8 | | |
| 4 | 1 x 1/2 | | | | | | | | 1090T-SH4 | 1100T-SH4 | |

# Components

**Plain Bore Hubs**
1-Day Rebore Available

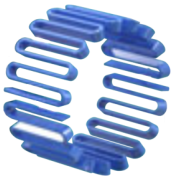
**Bored-To-Size Hubs**
Finished Bore, Keyway, and 2 Set Screws
Taper Bushed Available

**T10 Cover**

**T20 Cover**

**Fastener Sets**

**Seal and Gasket Kits**



## Blue-Flex® Grid

| Coupling Size | Part Number |
|---|---|
| 1020T | 1020T-GRID |
| 1030T | 1030T-GRID |
| 1040T | 1040T-GRID |
| 1050T | 1050T-GRID |
| 1060T | 1060T-GRID |
| 1070T | 1070T-GRID |
| 1080T | 1080T-GRID |
| 1090T | 1090T-GRID |
| 1100T | 1100T-GRID |
| 1110T | 1110T-GRID |
| 1120T | 1120T-GRID |
| 1130T | 1130T-GRID |
| 1140T | 1140T-GRID |
| 1150T | 1150T-GRID |
| 1160T | 1160T-GRID |
| 1170T | 1170T-GRID |
| 1180T | 1180T-GRID |
| 1190T | 1190T-GRID |
| 1200T | 1200T-GRID |

## Blue-Flex® Parts and Kits

| Coupling Size | T10 Cover Horizontal Split | | | | T20 Cover Vertical Split for Higher RPM | | | |
|---|---|---|---|---|---|---|---|---|
| | Cover (Cover, Seals, Gaskets and Fasteners) | Cover Fastener Set | Seal Kit (Seal and Gasket) | Cover Grid Assemblies (Cover, Grid, Seals, Gaskets and Fasteners) *Includes Grease | Cover (Cover, Seals, Gaskets and Fasteners) | Cover Fastener Set | Seal Kit (Seal and Gasket) | Cover Grid Assemblies (Cover, Grid, Seals, Gaskets and Fasteners) *Includes Grease |
| 1020T | 1020T10-COV | 1020T10-FAS | 1020T10-SEAL | 1020T10-SUBASY* | 1020T20-COV | 1020T20-FAS | 1020T20-SEAL | 1020T20-SUBASY* |
| 1030T | 1030T10-COV | 1030T10-FAS | 1030T10-SEAL | 1030T10-SUBASY* | 1030T20-COV | 1030T20-FAS | 1030T20-SEAL | 1030T20-SUBASY* |
| 1040T | 1040T10-COV | 1040T10-FAS | 1040T10-SEAL | 1040T10-SUBASY* | 1040T20-COV | 1040T20-FAS | 1040T20-SEAL | 1040T20-SUBASY* |
| 1050T | 1050T10-COV | 1050T10-FAS | 1050T10-SEAL | 1050T10-SUBASY* | 1050T20-COV | 1050T20-FAS | 1050T20-SEAL | 1050T20-SUBASY* |
| 1060T | 1060T10-COV | 1060T10-FAS | 1060T10-SEAL | 1060T10-SUBASY* | 1060T20-COV | 1060T20-FAS | 1060T20-SEAL | 1060T20-SUBASY* |
| 1070T | 1070T10-COV | 1070T10-FAS | 1070T10-SEAL | 1070T10-SUBASY* | 1070T20-COV | 1070T20-FAS | 1070T20-SEAL | 1070T20-SUBASY* |
| 1080T | 1080T10-COV | 1080T10-FAS | 1080T10-SEAL | 1080T10-SUBASY* | 1080T20-COV | 1080T20-FAS | 1080T20-SEAL | 1080T20-SUBASY* |
| 1090T | 1090T10-COV | 1090T10-FAS | 1090T10-SEAL | 1090T10-SUBASY* | 1090T20-COV | 1090T20-FAS | 1090T20-SEAL | 1090T20-SUBASY* |
| 1100T | 1100T10-COV | 1100T10-FAS | 1100T10-SEAL | 1100T10-SUBASY | 1100T20-COV | 1100T20-FAS | 1100T20-SEAL | 1100T20-SUBASY |
| 1110T | 1110T10-COV | 1110T10-FAS | 1110T10-SEAL | 1110T10-SUBASY | 1110T20-COV | 1120T20-FAS | 1110T20-SEAL | 1110T20-SUBASY |
| 1120T | 1120T10-COV | 1120T10-FAS | 1120T10-SEAL | 1120T10-SUBASY | 1120T20-COV | 1120T20-FAS | 1120T20-SEAL | 1120T20-SUBASY |
| 1130T | 1130T10-COV | 1130T10-FAS | 1130T10-SEAL | 1130T10-SUBASY | 1130T20-COV | 1130T20-FAS | 1130T20-SEAL | 1130T20-SUBASY |
| 1140T | 1140T10-COV | 1140T10-FAS | 1140T10-SEAL | 1140T10-SUBASY | 1140T20-COV | 1140T20-FAS | 1140T20-SEAL | 1140T20-SUBASY |
| 1150T | 1150T10-COV | 1150T10-FAS | 1150T10-SEAL | 1150T10-SUBASY | 1150T20-COV | 1150T20-FAS | 1150T20-SEAL | 1150T20-SUBASY |
| 1160T | 1160T10-COV | 1160T10-FAS | 1160T10-SEAL | 1160T10-SUBASY | 1160T20-COV | 1160T20-FAS | 1160T20-SEAL | 1160T20-SUBASY |
| 1170T | 1170T10-COV | 1170T10-FAS | 1170T10-SEAL | 1170T10-SUBASY | 1170T20-COV | 1170T20-FAS | 1170T20-SEAL | 1170T20-SUBASY |
| 1180T | 1180T10-COV | 1180T10-FAS | 1180T10-SEAL | 1180T10-SUBASY | 1180T20-COV | 1180T20-FAS | 1180T20-SEAL | 1180T20-SUBASY |
| 1190T | 1190T10-COV | 1190T10-FAS | 1190T10-SEAL | 1190T10-SUBASY | 1190T20-COV | 1190T20-FAS | 1190T20-SEAL | 1190T20-SUBASY |
| 1200T | 1200T10-COV | 1200T10-FAS | 1200T10-SEAL | 1200T10-SUBASY | 1200T20-COV | 1200T20-FAS | 1200T20-SEAL | 1200T20-SUBASY |

Note: All Covers include Seal Kits

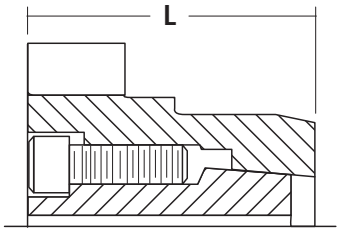
## Table 8 – Type T Hub Bore Ranges with Square and Rectangular Keys

| Size | Inches | | | | | | | | | | | | | | | | Millimeters | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Min Bore | For One Square Key | | | For One Rectangular Key | | | | | | For Two Square Keys | | | For Two Rectangular Keys | | | Min Bore | Max Bore | |
| | | Max Bore | Y=X | | Max Bore | Y=X | | Max Bore | Y=W/2 | | Max Bore | Y=X | | Max Bore | Y=X | | | Std Bore Fits per Table 16 | Int Fit per Table 16 w/Setscrew Over Keyway |
| | | | W | X | | W | X | | W | X | | W | X | | W | X | | | |
| 1020T | 0.500 | 1.125 • | 0.250 • | 0.125 • | 1.187 | 0.250 | 0.093 | 1.250 | 0.250 | 0.062 | – | – | – | – | – | – | 13 | 28 | 24 |
| 1030T | 0.500 | 1.375 • | 0.312 • | 0.156 • | 1.437 | 0.375 | 0.125 | 1.562 | 0.375 | 0.062 | – | – | – | – | – | – | 13 | 35 | 30 |
| 1040T | 0.500 | 1.625 • | 0.375 • | 0.187 • | 1.750 | 0.375 | 0.125 | 1.750 | 0.375 | 0.062 | – | – | – | – | – | – | 13 | 43 | 38 |
| 1050T | 0.500 | 1.875 • | 0.500 • | 0.250 • | 2.000 | 0.500 | 0.187 | 2.125 | 0.500 | 0.125 | – | – | – | – | – | – | 13 | 50 | 45 |
| 1060T | 0.750 | 2.125 • | 0.500 • | 0.250 • | 2.250 | 0.500 | 0.187 | 2.375 | 0.625 | 0.125 | – | – | – | – | – | – | 20 | 56 | 50 |
| 1070T | 0.750 | 2.500 • | 0.625 • | 0.312 • | 2.687 | 0.625 | 0.218 | 2.875 | 0.750 | 0.125 | – | – | – | – | – | – | 20 | 67 | 60 |
| 1080T | 1.062 | 3.000 • | 0.750 • | 0.375 • | 3.250 | 0.750 | 0.250 | 3.375 | 0.875 | 0.187 | – | – | – | – | – | – | 27 | 80 | 75 |
| 1090T | 1.062 | 3.500 • | 0.875 • | 0.437 • | 3.750 | 0.875 | 0.312 | 3.875 | 1.000 | 0.250 | – | – | – | – | – | – | 27 | 95 | 90 |
| 1100T | 1.625 | 4.000 • | 1.000 • | 0.500 • | 4.250 | 1.000 | 0.375 | 4.500 | 1.000 | 0.250 | – | – | – | – | – | – | 42 | 110 | 100 |
| 1110T | 1.625 | 4.500 • | 1.000 • | 0.500 • | 4.625 | 1.250 | 0.437 | 5.000 | 1.250 | 0.250 | – | – | – | – | – | – | 42 | 120 | 110 |
| 1120T | 2.375 | 5.000 • | 1.250 • | 0.625 • | 5.375 | 1.250 | 0.437 | 5.750 | 1.500 | 0.250 | – | – | – | – | – | – | 61 | 140 | 120 |
| 1130T | 2.625 | 6.000 • | 1.500 • | 0.750 • | 6.500 | 1.500 | 0.500 | 6.500 | 1.500 | 0.250 | – | – | – | – | – | – | 67 | 170 | 150 |
| 1140T | 2.625 | 7.000 | 1.750 | 0.875 | 7.250 • | 1.750 • | 0.750 • | 7.750 | 2.000 | 0.500 | – | – | – | – | – | – | 67 | 200 | 180 |
| 1150T | 4.250 | 7.500 | 1.750 | 0.875 | 8.000 • | 2.000 • | 0.750 • | – | – | – | – | – | – | – | – | – | 108 | 215 | 190 |
| 1160T | 4.750 | 8.500 | 2.000 | 1.000 | 9.000 • | 2.000 • | 0.750 • | – | – | – | – | – | – | – | – | – | 121 | 240 | 215 |
| 1170T | 5.250 | 9.750 | 2.500 | 1.250 | 10.000 • | 2.500 • | 0.875 • | – | – | – | 10.750 | 1.750 | 0.875 | 11.000 | 1.750 | 0.750 | 134 | 280 | 240 |
| 1180T | 6.000 | 10.750 | 2.500 | 1.250 | 11.000 • | 2.500 • | 0.875 • | – | – | – | 12.000 | 1.750 | 0.875 | 12.250 | 2.000 | 0.750 | 153 | 300 | 260 |
| 1190T | 6.000 | 11.750 | 3.000 | 1.500 | 12.000 • | 3.000 • | 1.000 • | – | – | – | 13.000 | 2.000 | 1.000 | 13.250 | 2.000 | 0.750 | 153 | 336 | 290 |
| 1200T | 7.000 | 12.750 | 3.000 | 1.500 | 13.000 • | 3.000 • | 1.000 • | – | – | – | 14.000 | 2.500 | 1.250 | 14.250 | 2.500 | 0.875 | 178 | 360 | 320 |

Y = Shaft keyway depth; X = Hub keyway depth; W = Keyway width
• Maximum bores using standard recommended keys on Table 13.
◊ Consult Martin.

## Table 9 – Taper Bushings for Type T Hubs

| Coupling Size | T Hub | | | |
|---|---|---|---|---|
| | Taper Bushing | | | L (in) |
| | Catalog Part No. | Bore Range (in) | Torque (lb-in) | |
| 1020T | – | – | – | – |
| 1030T | 1108 | 0.500 to 1.125 | 1,300 | 1.62 |
| 1040T | 1108 | 0.500 to 1.125 | 1,300 | 1.62 |
| 1050T | 1215 | 0.500 to 1.250 | 3,550 | 1.88 |
| 1060T | 1615 | 0.500 to 1.625 | 4,300 | 2.12 |
| 1070T | 2012 | 0.500 to 2.000 | 7,150 | 2.12 |
| 1080T | 2525 | 0.750 to 2.500 | 11,300 | 2.62 |
| 1090T | 3030 | 0.938 to 3.000 | 24,000 | 3.12 |
| 1100T | 3030 | 0.938 to 3.000 | 24,000 | 3.50 |
| 1110T | 3535 | 1.188 to 3.500 | 44,800 | 3.62 |
| 1120T | 4040 | 1.438 to 4.000 | 77,300 | 4.38 |
| 1130T | 4545 | 1.938 to 4.500 | 110,000 | 4.62 |
| 1140T | 5050 | 2.438 to 5.000 | 126,000 | 5.12 |
| 1150T | 5050 | 2.438 to 5.000 | 126,000 | 7.20 |
| 1160T | 5050 | 2.438 to 5.000 | 126,000 | 7.80 |
| 1170T | 7060 | 3.938 to 7.000 | 416,000 | 8.50 |
| 1180T | 8065 | 4.438 to 8.000 | 456,000 | 9.40 |
| 1190T | 8065 | 4.438 to 8.000 | 456,000 | 10.20 |
| 1200T | 10085 | 7.000 to 10.000 | 869,000 | 11.00 |



T Hub

Bushings require shaft keyways as calculated in Table 13.
Taper bores not recommended for shock load, reverse load, or 1.75+ coupling service factor applications.

## Table 10 – WR² Values (lb-in²)

WR2 values are based on hubs with no bore; seals, lube plugs and gaskets are not considered.

| Coupling Size | Coupling Type | | | | | |
|---|---|---|---|---|---|---|
| | T10 | T20 | T31 | | T35 | |
| | | | WR^2 (Min DBSE) | WR^2 Added per inch of DBSE | WR^2 (Min DBSE) | WR^2 Added per inch of DBSE |
| 1020T | 4.83 | 5.32 | 9.8 | 0.18 | 7.3 | 0.18 |
| 1030T | 7.61 | 7.99 | 15.3 | 0.42 | 11.5 | 0.42 |
| 1040T | 11.19 | 11.99 | 31.8 | 0.76 | 21.5 | 0.76 |
| 1050T | 24.85 | 25.76 | 62 | 1.4 | 43.4 | 1.4 |
| 1060T | 40.66 | 41.16 | 132 | 2.38 | 86.4 | 2.38 |
| 1070T | 63.18 | 61.68 | 175 | 4.06 | 119 | 4.06 |
| 1080T | 154 | 148 | 396 | 8.37 | 275 | 8.37 |
| 1090T | 269 | 272 | 805 | 16.2 | 537 | 16.2 |
| 1100T | 609 | 608 | 1756 | 27.2 | 1183 | 27.2 |
| 1110T | 923 | 930 | 2726 | 45.4 | 1825 | 45.4 |
| 1120T | 1755 | 1611 | 5341 | 70.9 | 3548 | 70.9 |
| 1130T | 3378 | 3568 | 8563 | 153 | 5970 | 153 |
| 1140T | 6306 | 6431 | 14871 | 283 | 10588 | 283 |
| 1150T | 11922 | 11243 | – | – | – | – |
| 1160T | 19876 | 20597 | – | – | – | – |
| 1170T | 35621 | 35625 | – | – | – | – |
| 1180T | 62553 | 63343 | – | – | – | – |
| 1190T | 89359 | 90487 | – | – | – | – |
| 1200T | 148676 | 150553 | – | – | – | – |

## Table 11 – Type T Coupling Puller Bolt Holes (in)

| Coupling Size | Coupling Type | |
|---|---|---|
| | B.C. | Tap Size (UNC) |
| 1020T | 1.531 | #6-32 x 0.38 |
| 1030T | 1.875 | #6-32 x 0.38 |
| 1040T | 2.125 | #10-24 x 0.38 |
| 1050T | 2.500 | #10-24 x 0.38 |
| 1060T | 2.875 | 0.250-20 x 0.38 |
| 1070T | 3.312 | 0.250-20 x 0.38 |
| 1080T | 3.937 | 0.250-20 x 0.38 |
| 1090T | 4.562 | 0.3125-18 x 0.44 |
| 1100T | 5.250 | 0.375-16 x 0.50 |
| 1110T | 5.875 | 0.4375-14 x 0.62 |
| 1120T | 6.625 | 0.4375-14 x 0.62 |
| 1130T | 7.750 | 0.625-11 x 0.82 |
| 1140T | 9.125 | 0.625-11 x 0.82 |
| 1150T | 10.375 | 0.750-10 x 0.94 |
| 1160T | 11.750 | 0.875-9 x 1.06 |
| 1170T | 13.250 | 1.125-7 x 1.25 |
| 1180T | 14.875 | 1.250-7 x 1.50 |
| 1190T | 16.250 | 1.500-6 x 1.75 |
| 1200T | 17.937 | 1.500-6 x 1.75 |

## Table 12 – Reduced Max Bores Interference Fit and Setscrew Over Keyway — All Type T Couplings

| Size | Bore |
|---|---|
| 1020T | 1.000 |
| 1030T | 1.250 |
| 1040T | 1.375 |
| 1050T | 1.750 |
| 1060T | 1.875 |
| 1070T | 2.250 |
| 1080T | 2.750 |
| 1090T | 3.250 |
| 1100T | 3.500 |
| 1110T | 4.000 |

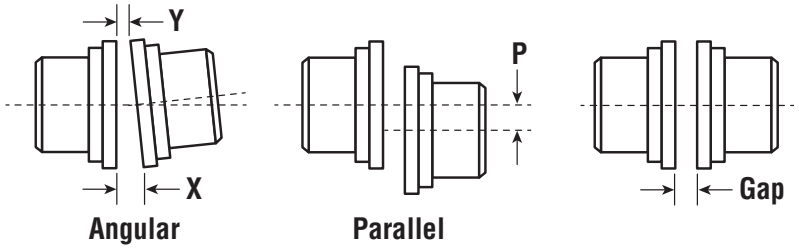
| Size | Bore |
|---|---|
| 1120T | 4.500 |
| 1130T | 5.500 |
| 1140T | 6.500 |
| 1150T | 7.000 |
| 1160T | 8.000 |
| 1170T | 9.000 |
| 1180T | 9.750 |
| 1190T | 10.750 |
| 1200T | 11.750 |

## Table 13 – Misalignment Capability (in)

Maximum life and minimum maintenance for the coupling and connected machinery will result if couplings are accurately aligned. Coupling life expectancy between initial alignment and maximum operating limits is a function of load, speed and lubrication. For applications requiring greater misalignment, refer application details to Martin.

**Angular misalignment** is expressed in degrees and as the difference between the value of X minus Y, as illustrated.

**Parallel misalignment** is the distance P between shaft center lines as shown.




| Coupling Size | Recommended Installation Maximum | | Maximum Operating | | Normal GAP +/- 10% | |
|---|---|---|---|---|---|---|
| | Parallel Offset -P | Angular (1/16°) X Minus Y | Parallel Offset -P | Angular (1/16°) X Minus Y | T10, T20, T35 | T31 |
| | T10, T20, T31, T35 | | T10, T20, T31, T35 | | | |
| 1020T | 0.006 | 0.002 | 0.012 | 0.009 | 0.125 | 0.188 |
| 1030T | 0.006 | 0.003 | 0.012 | 0.010 | 0.125 | 0.188 |
| 1040T | 0.006 | 0.003 | 0.012 | 0.013 | 0.125 | 0.188 |
| 1050T | 0.008 | 0.004 | 0.016 | 0.016 | 0.125 | 0.188 |
| 1060T | 0.008 | 0.004 | 0.016 | 0.018 | 0.125 | 0.188 |
| 1070T | 0.008 | 0.005 | 0.016 | 0.020 | 0.125 | 0.188 |
| 1080T | 0.008 | 0.006 | 0.016 | 0.024 | 0.125 | 0.188 |
| 1090T | 0.008 | 0.007 | 0.016 | 0.028 | 0.125 | 0.188 |
| 1100T | 0.010 | 0.008 | 0.020 | 0.032 | 0.188 | 0.250 |
| 1110T | 0.010 | 0.009 | 0.020 | 0.035 | 0.188 | 0.250 |
| 1120T | 0.011 | 0.010 | 0.022 | 0.040 | 0.250 | 0.375 |
| 1130T | 0.011 | 0.012 | 0.022 | 0.047 | 0.250 | 0.375 |
| 1140T | 0.011 | 0.013 | 0.022 | 0.053 | 0.250 | 0.375 |
| 1150T | 0.012 | 0.015 | 0.024 | 0.061 | 0.250 | 0.375 |
| 1160T | 0.012 | 0.017 | 0.024 | 0.070 | 0.250 | 0.375 |
| 1170T | 0.012 | 0.020 | 0.024 | 0.079 | 0.250 | 0.375 |
| 1180T | 0.015 | 0.022 | 0.030 | 0.089 | 0.250 | 0.375 |
| 1190T | 0.015 | 0.024 | 0.030 | 0.096 | 0.250 | 0.375 |
| 1200T | 0.015 | 0.027 | 0.030 | 0.107 | 0.250 | 0.375 |

## Table 14 – Recommended Commercial Keys for Bores with One Key (in/mm)

| Inches (Per ANSI B17.1 Standard) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Shaft Dia. | | Key | Shaft Dia. | | Key | Shaft Dia. | | Key | Shaft Dia. | | Key |
| Over | Through | | Over | Through | | Over | Through | | Over | Through | |
| 0.438 | 0.562 | 0.125 x 0.125 | 1.750 | 2.250 | 0.500 x 0.500 | 4.500 | 5.500 | 1.250 x 1.250 | 11.000 | 13.000 | 3.000 x 2.000 |
| 0.562 | 0.875 | 0.188 x 0.188 | 2.250 | 2.750 | 0.625 x 0.625 | 5.500 | 6.500 | 1.500 x 1.500 | 13.000 | 15.000 | 3.500 x 2.500 |
| 0.875 | 1.250 | 0.250 x 0.250 | 2.750 | 3.250 | 0.750 x 0.750 | 6.500 | 7.500 | 1.750 x 1.500 | 15.000 | 18.000 | 4.000 x 3.000 |
| 1.250 | 1.375 | 0.312 x 0.312 | 3.250 | 3.750 | 0.875 x 0.875 | 7.500 | 9.000 | 2.000 x 1.500 | 18.000 | 20.000 | 5.000 x 3.500 |
| 1.375 | 1.750 | 0.375 x 0.375 | 3.750 | 4.500 | 1.000 x 1.000 | 9.000 | 11.000 | 2.500 x 1.750 | – | – | – |
| Millimeters (Per ISO R773 Standard) | | | | | | | | | | | |
| 6 | 8 | 2 x 2 | 38 | 44 | 12 x 8 | 95 | 110 | 28 x 16 | 260 | 290 | 63 x 32 |
| 8 | 10 | 3 x 3 | 44 | 50 | 14 x 9 | 110 | 130 | 32 x 18 | 290 | 330 | 70 x 36 |
| 10 | 12 | 4 x 4 | 50 | 58 | 16 x 10 | 130 | 150 | 36 x 20 | 330 | 380 | 80 x 40 |
| 12 | 17 | 5 x 5 | 58 | 65 | 18 x 11 | 150 | 170 | 40 x 22 | 380 | 440 | 90 x 45 |
| 17 | 22 | 6 x 6 | 65 | 75 | 20 x 12 | 170 | 200 | 45 x 25 | 440 | 500 | 100 x 50 |
| 22 | 30 | 8 x 7 | 75 | 85 | 22 x 14 | 200 | 230 | 50 x 28 | – | – | – |
| 30 | 38 | 10 x 8 | 85 | 95 | 25 x 14 | 230 | 260 | 56 x 32 | – | – | – |

## Table 15 – Standard Bore Fits — Unless Otherwise Specified

| Model | Coupling Size | Coupling Type | Bore Fit |
|---|---|---|---|
| Blue-Flex® Grid Couplings | 1020 - 1090 | T10, T20 | Clearance |
| | 1100 and Larger | T10, T20 | Interference |

## Table 16 – Recommended Bores for Steel Hubs (in)

| Shaft Dia. | Clearance Fit | | Interference Fit | |
|---|---|---|---|---|
| | Hub Bore | Clearance | Hub Bore | Interference |
| **+.0000 - .0005** | **+.0010 - .0000** | **.0000 .0015** | **+.0005 - .0000** | **.0000 .0010** |
| 0.5000 | 0.5000 | | 0.4990 | |
| 0.5625 | 0.5625 | | 0.5615 | |
| 0.6250 | 0.6250 | | 0.6240 | |
| 0.6875 | 0.6875 | | 0.6865 | |
| 0.7500 | 0.7500 | | 0.7490 | |
| 0.8125 | 0.8125 | | 0.8115 | |
| 0.8750 | 0.8750 | | 0.8740 | |
| 0.9375 | 0.9375 | | 0.9365 | |
| 1.0000 | 1.0000 | | 0.9990 | |
| 1.0625 | 1.0625 | | 1.0615 | |
| 1.1250 | 1.1250 | | 1.1240 | |
| 1.1875 | 1.1875 | | 1.1865 | |
| 1.2500 | 1.2500 | | 1.2490 | |
| 1.3125 | 1.3125 | | 1.3115 | |
| 1.3750 | 1.3750 | | 1.3740 | |
| 1.4375 | 1.4375 | | 1.4365 | |
| 1.5000 | 1.5000 | | 1.4990 | |
| **+.0000 - .0010** | **+.0010 - .0000** | **.0000 .0020** | **+.0005 - .0000** | **.0000 .0015** |
| 1.5625 | 1.5625 | | 1.5610 | |
| 1.6250 | 1.6250 | | 1.6235 | |
| 1.6875 | 1.6875 | | 1.6860 | |
| 1.7500 | 1.7500 | | 1.7485 | |
| 1.8125 | 1.8125 | | 1.8110 | |
| 1.8750 | 1.8750 | | 1.8735 | |
| 1.9375 | 1.9375 | | 1.9360 | |
| 2.0000 | 2.0000 | | 1.9985 | |
| **+.0000 - .0010** | **+.0015 - .0000** | **.0000 .0025** | **+.0005 - .0000** | **.0000 .0015** |
| 2.0625 | 2.0625 | | 2.0610 | |
| 2.1250 | 2.1250 | | 2.1235 | |
| 2.1875 | 2.1875 | | 2.1860 | |
| **+.0000 - .0010** | **+.0015 - .0000** | **.0000 .0025** | **+.0010 - .0000** | **.0000 .0020** |
| 2.2500 | 2.2500 | | 2.2480 | |
| 3.3125 | 2.3125 | | 2.3105 | |
| 2.3750 | 2.3750 | | 2.3730 | |
| 2.4375 | 2.4375 | | 2.4355 | |
| 2.5000 | 2.5000 | | 2.4980 | |
| 2.5625 | 2.5625 | | 2.5605 | |
| 2.6250 | 2.6250 | | 2.6230 | |
| 2.6875 | 2.6875 | | 2.6855 | |
| 2.7500 | 2.7500 | | 2.7480 | |
| 2.8125 | 2.8125 | | 2.8105 | |
| 2.8750 | 2.8750 | | 2.8730 | |
| 2.9375 | 2.9375 | | 2.9355 | |
| 3.0000 | 3.0000 | | 2.9980 | |

| Shaft Dia. | Clearance Fit | | Interference Fit | |
|---|---|---|---|---|
| | Hub Bore | Clearance | Hub Bore | Interference |
| **+.0000 - .0010** | **+.0015 - .0000** | **.0000 .0025** | **+.0010 - .0000** | **.0005 .0025** |
| 3.0625 | 3.0625 | | 3.0600 | |
| 3.1250 | 3.1250 | | 3.1225 | |
| 3.1875 | 3.1875 | | 3.1850 | |
| 3.2500 | 3.2500 | | 3.2475 | |
| 3.3125 | 3.3125 | | 3.3100 | |
| 3.3750 | 3.3750 | | 3.3725 | |
| 3.4375 | 3.4375 | | 3.4350 | |
| 3.5000 | 3.5000 | | 3.4975 | |
| 3.5625 | 3.5625 | | 3.5600 | |
| 3.6250 | 3.6250 | | 3.6225 | |
| 3.6875 | 3.6875 | | 3.6850 | |
| 3.7500 | 3.7500 | | 3.7475 | |
| 3.8125 | 3.8125 | | 3.8100 | |
| 3.8750 | 3.8750 | | 3.8725 | |
| 3.9375 | 3.9375 | | 3.9350 | |
| 4.0000 | 4.0000 | | 3.9975 | |
| **+.0000 - .0010** | **+.0015 - .0000** | **.0000 .0025** | **+.0015 - .0000** | **.0010 .0035** |
| 4.0625 | 4.0625 | | 4.0590 | |
| 4.1250 | 4.1250 | | 4.1215 | |
| 4.1875 | 4.1875 | | 4.1840 | |
| 4.2500 | 4.2500 | | 4.2465 | |
| 4.3125 | 4.3125 | | 4.3090 | |
| 4.3750 | 4.3750 | | 4.3715 | |
| 4.4375 | 4.4375 | | 4.4340 | |
| 4.5000 | 4.5000 | | 4.4965 | |
| 4.5625 | 4.5625 | | 4.5590 | |
| 4.6250 | 4.6250 | | 4.6215 | |
| 4.6875 | 4.6875 | | 4.6840 | |
| 4.7500 | 4.7500 | | 4.7465 | |
| 4.8125 | 4.8125 | | 4.8090 | |
| 4.8750 | 4.8750 | | 4.8715 | |
| 4.9375 | 4.9375 | | 4.9340 | |
| 5.0000 | 5.0000 | | 4.9965 | |
| 5.0625 | 5.0625 | | 5.0585 | **.0015** |
| 5.1250 | 5.1250 | | 5.1210 | **.0040** |
| 5.1875 | 5.1875 | | 5.1835 | |
| 5.2500 | 5.2500 | | 5.2460 | |
| 5.3125 | 5.3125 | | 5.3085 | |
| 5.3750 | 5.3750 | | 5.3710 | |
| 5.4375 | 5.4375 | | 5.4335 | |
| 5.5000 | 5.5000 | | 5.4960 | |
| 5.5625 | 5.5625 | | 5.5585 | |
| 5.6250 | 5.6250 | | 5.6210 | |
| 5.6875 | 5.6875 | | 5.6835 | |
| 5.7500 | 5.7500 | | 5.7460 | |
| 5.8125 | 5.8125 | | 5.8085 | |
| 5.8750 | 5.8750 | | 5.8710 | |
| 5.9375 | 5.9375 | | 5.9335 | |
| 6.0000 | 6.0000 | | 5.9960 | |
| 6.2500 | 6.2500 | | 6.2460 | |
| 6.5000 | 6.5000 | | 6.4960 | |

| Shaft Dia. | Interference Fit | |
|---|---|---|
| | Hub Bore | Interference |
| **0000 - .0010** | **+.0015 - .0000** | **.0015 .0040** |
| 6.7500 | 6.7460 | |
| 7.0000 | 6.9960 | |
| **+.0000 - .0010** | **+.0020 - .0000** | **.0020 .0050** |
| 7.250 | 7.2450 | |
| 7.500 | 7.4950 | |
| 7.750 | 7.7450 | |
| 8.000 | 7.9950 | |
| 8.250 | 8.2445 | **.0025** |
| 8.500 | 8.4945 | **.0055** |
| 8.750 | 8.7445 | |
| 9.000 | 8.9945 | |
| 9.250 | 9.2440 | **.0030** |
| 9.500 | 9.4940 | **.0060** |
| 9.750 | 9.7440 | |
| 10.000 | 9.9940 | |
| 10.250 | 10.2435 | **.0035** |
| 10.500 | 10.4935 | **.0065** |
| 10.750 | 10.7435 | |
| 11.000 | 10.9935 | |
| 11.250 | 11.2430 | **.0040** |
| 11.500 | 11.4930 | **.0070** |
| 11.750 | 11.7430 | |
| 12.000 | 11.9930 | |
| 12.500 | 12.4925 | **.0045** |
| 13.000 | 12.9925 | **.0075** |
| 13.500 | 13.4920 | **.0050** |
| 14.000 | 13.9920 | **.0080** |
| 14.500 | 14.4915 | **.0055** |
| 15.000 | 14.9915 | **.0085** |
| **+.000 - .001** | **+.0025 - .0000** | **.0055 .0090** |
| 15.500 | 15.4910 | |
| 16.000 | 15.9910 | |
| 16.500 | 16.4905 | **.0060** |
| 17.000 | 16.9905 | **.0095** |
| 17.500 | 17.4895 | .0070 |
| 18.000 | 17.9895 | .0105 |
| 18.500 | 18.4890 | .0075 |
| 19.000 | 18.9890 | .0110 |
| 19.500 | 19.4880 | .0085 |
| 20.000 | 19.9880 | .0120 |

For shaft diameters larger than 20.000, use an average interference fit of 0.0005 per inch of shaft diameter within the following bore tolerances:

+.003, –.000 for over 20 to 30 dia. incl.
+.004, –.000 for over 30 to 40 dia. incl.

Tolerances and fits comply with, or are within, AGMA 9002 standard (Class 1 clearance fit).

## Table 17 – Recommended Bores for Metric Shafts per ISO/R775–1969 (ANSI/AGMA 9112)

| | Shaft Diameter | Clearance Fit | | Transitional Fit | | Interference Fit | |
|---|---|---|---|---|---|---|---|
| | | Hub Bore | Fit* | Hub Bore | Fit* | Hub Bore | Fit* |
| **MM** | **j6** | **F7** | **+.008** | **H7** | **-.008** | **M6** | **-.023** |
| | **+.008 / -.003** | **+.016 / +.034** | **+.037** | **+.000 / +.018** | **+.021** | **-.015 / -.004** | **-.001** |
| **12** | 0.4727 / 0.4724 | 0.4731 / 0.4737 | +.0003 | 0.4725 / 0.4731 | -.0003 | 0.4718 / 0.4723 | -.0009 |
| **14** | 0.5515 / 0.5511 | 0.5518 / 0.5525 | +.0015 | 0.5512 / 0.5519 | +.0008 | 0.5506 / 0.5511 | +.0000 |
| **16** | 0.6302 / 0.6298 | 0.6306 / 0.6312 | ↓ | 0.6300 / 0.6306 | ↓ | 0.6293 / 0.6298 | ↓ |
| **18** | 0.7089 / 0.7086 | 0.7093 / 0.7100 | | 0.7087 / 0.7093 | | 0.7080 / 0.7085 | |
| **MM** | **j6** | **F7** | **+.011** | **H7** | **-.009** | **M6** | **-.026** |
| | **+.009 / -.004** | **+.020 / +.041** | **+.045** | **+.000 / +.021** | **+.025** | **-.017 / -.004** | **-.000** |
| **19** | 0.7483 / 0.7479 | 0.7488 / 0.7496 | +.0004 | 0.7481 / 0.7488 | -.0004 | 0.7473 / 0.7479 | -.0010 |
| **20** | 0.7877 / 0.7873 | 0.7882 / 0.7890 | +.0018 | 0.7874 / 0.7882 | +.0010 | 0.7867 / 0.7873 | +.0000 |
| **22** | 0.8665 / 0.8660 | 0.8670 / 0.8677 | ↓ | 0.8662 / 0.8669 | ↓ | 0.8654 / 0.8660 | ↓ |
| **24** | 0.9452 / 0.9448 | 0.9457 / 0.9465 | | 0.9449 / 0.9457 | | 0.9442 / 0.9448 | |
| **25** | 0.9846 / 0.9841 | 0.9851 / 0.9858 | | 0.9843 / 0.9850 | | 0.9835 / 0.9841 | |
| **28** | 1.1027 / 1.1022 | 1.1032 / 1.1039 | | 1.1024 / 1.1032 | | 1.1017 / 1.1022 | |
| **30** | 1.1814 / 1.1810 | 1.1819 / 1.1827 | | 1.1811 / 1.1819 | | 1.1804 / 1.1810 | |
| **>30** | **k6** | **F7** | **+.007** | **H7** | **-.018** | **K6** | **-.031** |
| **MM** | **+.018 / +.002** | **+.025 / +.050** | **+.048** | **+.000 / +.025** | **+.023** | **- .013 / +.003** | **+.001** |
| **32** | 1.2605 / 1.2600 | 1.2609 / 1.2618 | +.0003 | 1.2599 / 1.2608 | -.0007 | 1.2593 / 1.2600 | -.0012 |
| **35** | 1.3786 / 1.3781 | 1.3790 / 1.3799 | +.0019 | 1.3780 / 1.3789 | +.0009 | 1.3774 / 1.3781 | +.0000 |
| **38** | 1.4967 / 1.4962 | 1.4971 / 1.4980 | ↓ | 1.4961 / 1.4970 | ↓ | 1.4955 / 1.4962 | ↓ |
| **40** | 1.5755 / 1.5750 | 1.5758 / 1.5767 | | 1.5748 / 1.5758 | | 1.5743 / 1.5750 | |
| **42** | 1.6542 / 1.6537 | 1.6546 / 1.6555 | | 1.6536 / 1.6545 | | 1.6530 / 1.6537 | |
| **45** | 1.7723 / 1.7718 | 1.7727 / 1.7736 | | 1.7717 / 1.7726 | | 1.7711 / 1.7718 | |
| **48** | 1.8904 / 1.8899 | 1.8908 / 1.8917 | | 1.8898 / 1.8907 | | 1.8892 / 1.8899 | |
| **50** | 1.9692 / 1.9686 | 1.9695 / 1.9704 | | 1.9685 / 1.9695 | | 1.9680 / 1.9687 | |
| **>50** | **m6** | **F7** | **+.000** | **H7** | **-.030** | **K6** | **-.051** |
| **MM** | **+.030 / +.011** | **+.030 / +.060** | **+.049** | **+.000 / +.030** | **+.019** | **- .021 / +.009** | **+.002** |
| **55** | 2.1665 / 2.1658 | 2.1666 / 2.1677 | +.0000 | 2.1654 / 2.1665 | -.0012 | 2.1645 / 2.1657 | -.0020 |
| **56** | 2.2059 / 2.2052 | 2.2059 / 2.2071 | +.0019 | 2.2047 / 2.2059 | +.0007 | 2.2039 / 2.2051 | -.0001 |
| **60** | 2.3634 / 2.3627 | 2.3634 / 2.3645 | ↓ | 2.3622 / 2.3634 | ↓ | 2.3614 / 2.3626 | ↓ |
| **63** | 2.4815 / 2.4808 | 2.4815 / 2.4827 | | 2.4803 / 2.4815 | | 2.4795 / 2.4807 | |
| **65** | 2.5602 / 2.5595 | 2.5603 / 2.5614 | | 2.5591 / 2.5602 | | 2.5582 / 2.5594 | |
| **70** | 2.7571 / 2.7564 | 2.7571 / 2.7582 | | 2.7559 / 2.7571 | | 2.7551 / 2.7563 | |
| **71** | 2.7964 / 2.7957 | 2.7965 / 2.7976 | | 2.7953 / 2.7964 | | 2.7944 / 2.7957 | |
| **75** | 2.9539 / 2.9532 | 2.9540 / 2.9551 | | 2.9528 / 2.9539 | | 2.9519 / 2.9531 | |
| **80** | 3.1508 / 3.1501 | 3.1508 / 3.1519 | | 3.1496 / 3.1508 | | 3.1488 / 3.1500 | |
| **>80** | **m6** | **F7** | **+.001** | **H7** | **-.035** | **M7** | **-.070** |
| **MM** | +035 / +.013 | +.036 / +.071 | +.058 | +.000 / +.035 | +.022 | -.035 / +.000 | -.013 |
| **85** | 3.3478 / 3.3470 | 3.3479 / 3.3492 | +.0000 | 3.3465 / 3.3478 | -.0014 | 3.3451 / 3.3465 | -.0028 |
| **90** | 3.5447 / 3.5438 | 3.5447 / 3.5461 | +.0023 | 3.5433 / 3.5447 | +.0009 | 3.5419 / 3.5433 | -.0005 |
| **95** | 3.7415 / 3.7407 | 3.7416 / 3.7429 | ↓ | 3.7402 / 3.7415 | ↓ | 3.7388 / 3.7402 | ↓ |
| **100** | 3.9384 / 3.9375 | 3.9384 / 3.9398 | | 3.9370 / 3.9384 | | 3.9356 / 3.9370 | |
| **>100** | **m6** | **F7** | | **H7** | | **P7** | **-.094** |
| **MM** | **+.035 / +.013** | **+.036 / +.071** | | **+.000 / +.035** | | **-.059 / -.024** | **-.037** |
| **110** | 4.3321 / 4.3312 | 4.3321 / 4.3335 | ↓ | 4.3307 / 4.3321 | ↓ | 4.3284 / 4.3298 | -.0037 |
| **120** | 4.7258 / 4.7249 | 4.7258 / 4.7272 | | 4.7244 / 4.7258 | | 4.7221 / 4.7235 | -.0015 |
| **>120** | **m6** | **F7** | **+.003** | **H7** | **-.040** | **P7** | **-.108** |
| **MM** | **+.040 / +.015** | **+.043 / +.083** | **+.068** | **+.000 / +.040** | **+.025** | **-.068 / -.028** | **-.043** |
| **125** | 4.9228 / 4.9219 | 4.9230 / 4.9245 | +.0001 | 4.9213 / 4.9228 | -.0016 | 4.9186 / 4.9202 | -.0043 |
| **130** | 5.1197 / 5.1187 | 5.1198 / 5.1214 | +.0027 | 5.1181 / 5.1197 | +.0010 | 5.1154 / 5.1170 | -.0017 |
| **140** | 5.5134 / 5.5124 | 5.5135 / 5.5151 | ↓ | 5.5118 / 5.5134 | ↓ | 5.5091 / 5.5107 | ↓ |
| **150** | 5.9071 / 5.9061 | 5.9072 / 5.9088 | | 5.9055 / 5.9071 | | 5.9028 / 5.9044 | |
| **160** | 6.3008 / 6.2998 | 6.3009 / 6.3025 | | 6.2992 / 6.3008 | | 6.2965 / 6.2981 | |
| **170** | 6.6945 / 6.6935 | 6.6946 / 6.6962 | | 6.6929 / 6.6945 | | 6.6902 / 6.6918 | |
| **180** | 7.0882 / 7.0872 | 7.0883 / 7.0899 | | 7.0866 / 7.0882 | | 7.0839 / 7.0855 | |
| **>180** | **m6** | **F7** | **+.004** | **H7** | **-.046** | **P7** | **-.125** |
| **MM** | **+.046 / +.017** | **+.050 / +.096** | **+.079** | **+.000 / +.046** | **+.029** | **-.079 / -.033** | **-.050** |
| **190** | 7.4821 / 7.4810 | 7.4823 / 7.4841 | +.0002 | 7.4803 / 7.4821 | -.0018 | 7.4772 / 7.4790 | -.0049 |
| **200** | 7.8758 / 7.8747 | 7.8760 / 7.8778 | +.0031 | 7.8740 / 7.8758 | +.0011 | 7.8709 / 7.8727 | -.0020 |

Dimensions in **BOLD** are in millimeters, rest is in inches.
* Positive values are clearance, negative values are interference. For reference only.

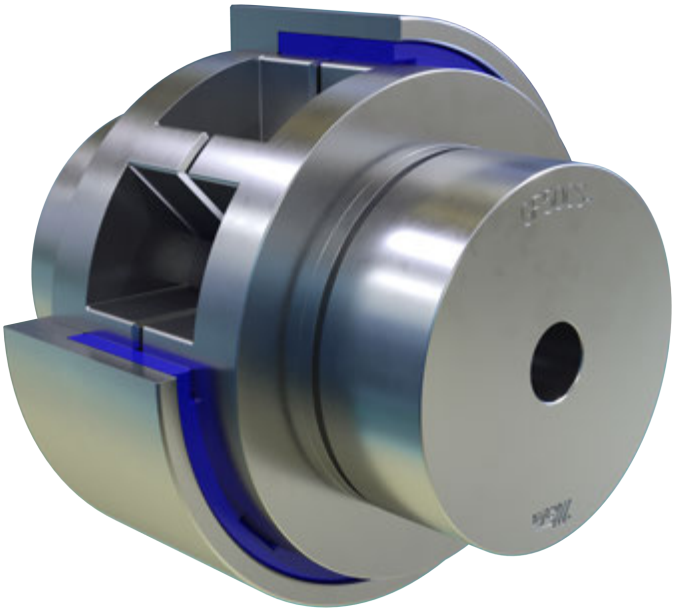
Continued on Continued on Page C-59

## Table 17 – Recommended Bores for Metric Shafts per ISO/R775–1969 (ANSI/AGMA 9112)

| | Shaft Diameter | Clearance Fit | | Transitional Fit | | Interference Fit | |
|---|---|---|---|---|---|---|---|
| | | Hub Bore | Fit* | Hub Bore | Fit* | Hub Bore | Fit* |
| **>200** | **m6** | **F7** | | **H7** | | **R7** | **-.155** |
| **MM** | **+.046 / +.017** | **+.050 / +.096** | | **+.000 / +.046** | | **-.109 / -.063** | **-.080** |
| **210** | 8.2695 / 8.2684 | 8.2697 / 8.2715 | | 8.2677 / 8.2695 | | 8.2634 / 8.2652 | -.0061 |
| **220** | 8.6632 / 8.6621 | 8.6634 / 8.6652 | | 8.6614 / 8.6632 | | 8.6571 / 8.6589 | -.0031 |
| **225** | 8.8601 / 8.8589 | 8.8602 / 8.8620 | | 8.8583 / 8.8601 | | 8.8540 / 8.8558 | |
| **>225** | **m6** | **F7** | | **H7** | | **R7** | **-.159** |
| **MM** | **+.046 / +.017** | **+.050 / +.096** | | **+.000 / +.046** | | **-.113 / -.067** | **-.084** |
| **230** | 9.0569 / 9.0558 | 9.0571 / 9.0589 | | 9.0551 / 9.0569 | | 9.0507 / 9.0525 | -.0063 |
| **240** | 9.4506 / 9.4495 | 9.4508 / 9.4526 | | 9.4488 / 9.4506 | | 9.4444 / 9.4462 | -.0033 |
| **250** | 9.8443 / 9.8432 | 9.8445 / 9.8463 | | 9.8425 / 9.8443 | | 9.8381 / 9.8399 | |
| **>250** | m6 | F7 | +.004 | H7 | -.052 | R7 | -.178 |
| **MM** | +.052 / +.020 | +.056 / +.108 | +.088 | +.000 / +.052 | +.032 | -.126 / -.074 | -.094 |
| **260** | 10.2383 / 10.2370 | 10.2384 / 10.2405 | +.0002 | 10.2362 / 10.2383 | -.0020 | 10.2313 / 10.2333 | -.0070 |
| **270** | 10.6320 / 10.6307 | 10.6321 / 10.6342 | +.0035 | 10.6299 / 10.6320 | +.0013 | 10.6250 / 10.6270 | -.0037 |
| **280** | 11.0257 / 11.0244 | 11.0258 / 11.0279 | | 11.0236 / 11.0257 | | 11.0187 / 11.0207 | |
| **>280** | m6 | F7 | | H7 | | R7 | -.182 |
| **MM** | +.052 / +.020 | +.056 / +.108 | | +.000 / +.052 | | -.130 / -.078 | -.098 |
| **290** | 11.4194 / 11.4181 | 11.4195 / 11.4216 | | 11.4173 / 11.4194 | | 11.4122 / 11.4143 | -.0072 |
| **300** | 11.8131 / 11.8118 | 11.8132 / 11.8153 | | 11.8110 / 11.8131 | | 11.8059 / 11.8080 | -.0039 |
| **310** | 12.2068 / 12.2055 | 12.2069 / 12.2090 | | 12.2047 / 12.2068 | | 12.1996 / 12.2017 | |
| **315** | 12.4036 / 12.4024 | 12.4038 / 12.4058 | | 12.4016 / 12.4036 | | 12.3965 / 12.3985 | |
| **>315** | m6 | F7 | +.005 | H7 | -.057 | R7 | -.201 |
| **MM** | .+057 / +.021 | +.062 / +.119 | +.098 | +.000 / +.057 | +.036 | -.144 / -.087 | -.108 |
| **320** | 12.6007 / 12.5993 | 12.6009 / 12.6031 | +.0008 | 12.5984 / 12.6007 | -.0022 | 12.5928 / 12.5950 | -.0079 |
| **330** | 12.9944 / 12.9930 | 12.9946 / 12.9968 | | 12.9921 / 12.9944 | +.0014 | 12.9865 / 12.9887 | -.0043 |
| **340** | 13.3881 / 13.3867 | 13.3883 / 13.3905 | | 13.3858 / 13.3881 | | 13.3802 / 13.3824 | |
| **350** | 13.7818 / 13.7804 | 13.7820 / 13.7842 | | 13.7795 / 13.7818 | | 13.7739 / 13.7761 | |
| **355** | 13.9786 / 13.9772 | 13.9788 / 13.9811 | | 13.9764 / 13.9786 | | 13.9707 / 13.9730 | |
| **>355** | m6 | F7 | | H7 | | R8 | -.260 |
| **MM** | +.057 / +.021 | +.062 / +.119 | | +.000 / +.057 | | -.203 / -.114 | -.135 |
| **360** | 14.1755 / 14.1741 | 14.1757 / 14.1779 | | 14.1732 / 14.1755 | | 14.1652 / 14.1687 | -.0102 |
| **370** | 14.5692 / 14.5678 | 14.5694 / 14.5716 | | 14.5669 / 14.5692 | | 14.5589 / 14.5624 | -.0053 |
| **380** | 14.9629 / 14.9615 | 14.9631 / 14.9653 | | 14.9606 / 14.9629 | | 14.9526 / 14.9561 | |
| **390** | 15.3566 / 15.3552 | 15.3568 / 15.3590 | | 15.3543 / 15.3566 | | 15.3463 / 15.3498 | |
| **400** | 15.7503 / 15.7489 | 15.7505 / 15.7527 | | 15.7480 / 15.7503 | | 15.7400 / 15.7435 | |
| **>400** | m6 | F7 | +.005 | H7 | -.063 | R8 | -.286 |
| **MM** | +.063 / +.023 | +.068 / +.131 | +.108 | +.000 / +.063 | +.040 | -.223 / -.126 | -.149 |
| **410** | 16.1442 / 16.1426 | 16.1444 / 16.1469 | +.0002 | 16.1417 / 16.1442 | -.0025 | 16.1330 / 16.1368 | -.0113 |
| **420** | 16.5379 / 16.5363 | 16.5381 / 16.5406 | +.0043 | 16.5354 / 16.5379 | +.0016 | 16.5267 / 16.5305 | -.0059 |
| **430** | 16.9316 / 16.9300 | 16.9318 / 16.9343 | | 16.9291 / 16.9316 | | 16.9204 / 16.9242 | |
| **440** | 17.3253 / 17.3237 | 17.3255 / 17.3280 | | 17.3228 / 17.3253 | | 17.3141 / 17.3179 | |
| **450** | 17.7190 / 17.7174 | 17.7192 / 17.7217 | | 17.7165 / 17.7190 | | 17.7078 / 17.7116 | |
| **>450** | m6 | F7 | | H7 | | R8 | -.292 |
| **MM** | +.063 / +.023 | +.068 / +.131 | | +.000 / +.063 | | -.229 / -.132 | -.155 |
| **460** | 18.1127 / 18.1111 | 18.1129 / 18.1154 | | 18.1102 / 18.1127 | | 18.1012 / 18.1050 | -.0115 |
| **470** | 18.5064 / 18.5048 | 18.5066 / 18.5091 | | 18.5039 / 18.5064 | | 18.4949 / 18.4987 | -.0061 |
| **480** | 18.9001 / 18.8985 | 18.9003 / 18.9028 | | 18.8976 / 18.9001 | | 18.8886 / 18.8924 | |
| **490** | 19.2938 / 19.2922 | 19.2940 / 19.2965 | | 19.2913 / 19.2938 | | 19.2823 / 19.2861 | |
| **500** | 19.6875 / 19.6859 | 19.6877 / 19.6902 | | 19.6850 / 19.6875 | | 19.6760 / 19.6798 | |

Dimensions in **BOLD** are in millimeters, rest is in inches.
* Positive values are clearance, negative values are interference. For reference only.

# Go-Flex® Couplings



Martin Go-Flex® couplings are one of the easiest to install, maintain, and replace!

A complete coupling consists of 2 hubs, available in carbon or stainless steel, a urethane split insert (choose from 5 types), and a cover – either a slide over cover retained by a snap ring, a vertically split for high-speed applications, or a horizontally split cover for extreme torque applications.

Once you have correctly selected and properly installed a Martin Go-Flex® coupling, the split insert is all you should have to replace. Replacement of the insert is easy and your equipment can be back up and running in minutes! Once the hubs are installed, they never need to be moved again.

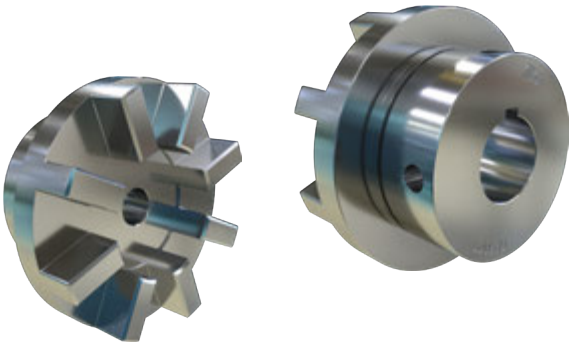
Remove only the cover, replace the insert, re-install the cover, and you are ready to go!

## Advantages

- Fast and easy insert replacement
- Low maintenance
- Minimal downtime
- No lubrication
- Urethane inserts available from standard to extreme duty, high temperature, and metal detectable
- Can be installed vertically or horizontally
- The teeth on the hubs do not touch or overlap thus if the insert fails, you do not have metal to metal contact that could potentially destroy the hubs
- Reversing applications
- No realignment required after insert replacement

# Go-Flex® Nomenclature

## HUBS (2 required)



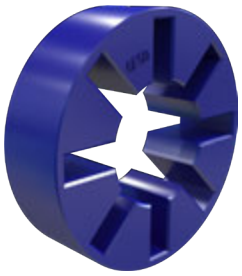
**Go-Flex®** **GF20CS1**

**Coupling Size**
**10** to **120**

**Material**
- **CS** Carbon Steel
- **SS** Stainless Steel

**Bore Size** (Add **-PHB** for Plain Bore Hub)
- **GF10 to GF50** Clearance fit bore standard keyway and 2 set screws
- **GF60 to GF120** Interference fit bore standard keyway and 1 setscrew

## INSERT



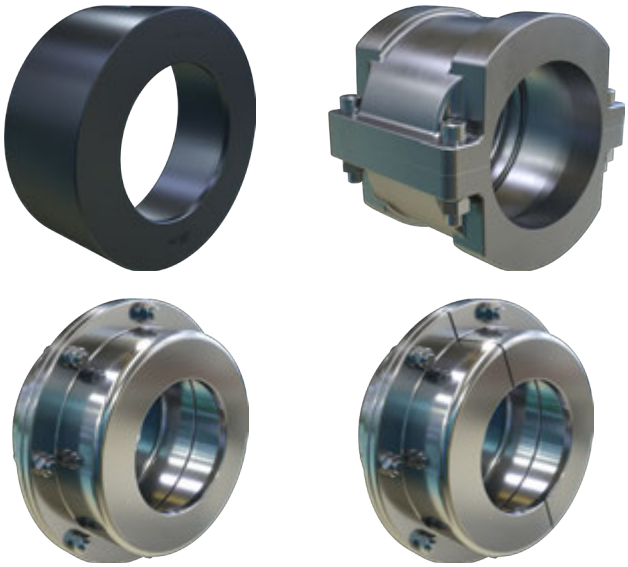
**Go-Flex®** **GF20SD-INS**

**Coupling Size**
**10** to **120**

**Insert Type**
- **SD** Standard Duty (Red)
- **MD** Medium Duty (Dark Blue)
- **XD** Extreme Duty (Black)
- **HT** Hi-Temp (White)
- **FG** Food Grade Metal Detectable (Light Blue)

**INSERT**

## COVER



**Go-Flex®** **GF20XP-CVR**

**Coupling Size**
**10** to **120**

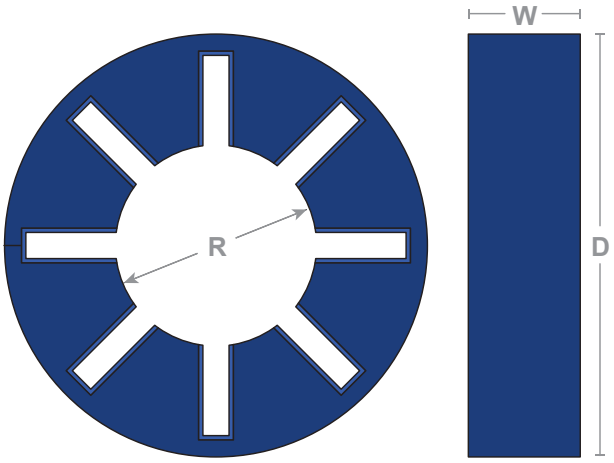
**Cover Type**
- **SD** Standard Duty (Carbon Steel)
- **SS** Standard Duty (Stainless Steel)
- **XP** Horizontal Split (Aluminum)
- **VS** Vertical Split
- **HS** Horizontal/Vertical Split

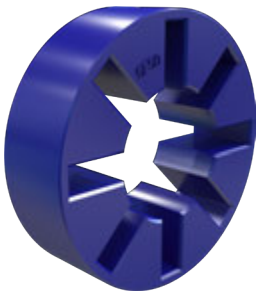
**Cover**

# Go-Flex®
# Inserts

## Martin Go-Flex®
## Insert Dimensions (in)

| Coupling Series | R | D | W | Wt. (lb) |
|---|---|---|---|---|
| GF10 | 1.23 | 2.23 | 0.63 | 0.05 |
| GF20 | 1.66 | 2.86 | 0.85 | 0.1 |
| GF30 | 2.16 | 3.80 | 1.23 | 0.3 |
| GF40 | 2.41 | 5.05 | 1.64 | 0.8 |
| GF50 | 3.05 | 6.44 | 2.02 | 1.45 |
| GF60 | 3.90 | 7.37 | 2.35 | 2.0 |
| GF70 | 4.13 | 8.20 | 2.32 | 3.0 |
| GF80 | 4.34 | 9.98 | 2.63 | 5.0 |
| GF90 | 6.19 | 11.30 | 2.96 | 6.0 |
| GF100 | 7.60 | 13.61 | 3.24 | 9.0 |
| GF110 | 9.15 | 15.93 | 3.67 | 13.0 |
| GF120 | 11.25 | 19.04 | 5.43 | 31.0 |



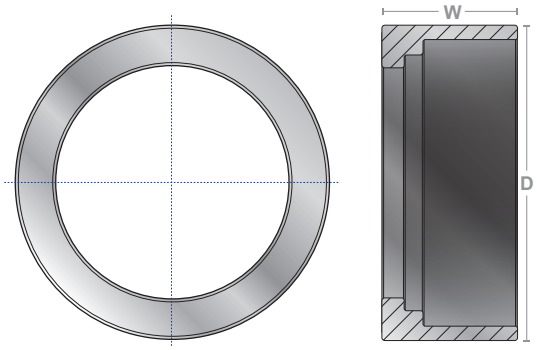


| Standard | Medium Torque | Extreme High Torque | Hi-Temp | Metal Detectable |
|---|---|---|---|---|
| **Operational temperature range of -60°F to 212°F** (-50°C to 100°C) | **Operational temperature range of -60°F to 212°F** (-50°C to 100°C) | **Operational temperature range of -60°F to 212°F** (-50°C to 100°C) | **Operational temperature range up to 300°F** (148°C) | **Operational temperature range of -60°F to 212°F** (-50°C to 100°C) |
| **Moderately soft urethane compound** | **Higher durometer urethane** resulting in a more rigid insert designed for higher torque applications than the regular insert | **Insert provides our highest torque ratings** | **Urethane compound made for Hi-temp applications** | **Metal Detectable Inserts are made with a FDA compliant additive that provides metal detectability** |
| **Applications** Vibration dampening, cushioning of shock loads, reversing, or quick starting and stopping of high inertial loads | **Applications** Moderate to high torque | **Applications** High torque | **Applications** Moderate to high torque | **Applications** Food and chemical Industries where plastic contamination compromises production |

# Go-Flex® Covers

## Martin Go-Flex® – Standard Cover

Designed for applications where low torque and/or high speed is present.

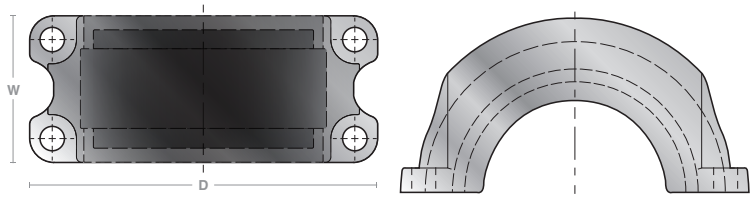



| Part Number | | Max. RPM◊ | W | D | Bolt Size |
|---|---|---|---|---|---|
| Carbon Steel | Stainless Steel | | | | |
| GF10SD-CVR | GF10SS-CVR | 12,000 | 0.95 | 2.49 | Retaining Ring |
| GF20SD-CVR | GF20SS-CVR | 9,000 | 1.35 | 3.16 | Retaining Ring |
| GF30SD-CVR | GF30SS-CVR | 7,000 | 1.95 | 4.21 | Retaining Ring |
| GF40SD-CVR | GF40SS-CVR | 6,000 | 2.38 | 5.48 | Retaining Ring |
| GF50SD-CVR | GF50SS-CVR | 4,800 | 2.96 | 7.00 | Retaining Ring |
| GF60SD-CVR | GF60SS-CVR | 4,200 | 3.27 | 8.00 | Retaining Ring |
| GF70SD-CVR | GF70SS-CVR | 3,800 | 3.50 | 8.88 | (8) M10-1.5 x 35MM |
| GF80SD-CVR | GF80SS-CVR | 3,400 | 4.05 | 10.77 | (8) M10-1.5 x 35MM |
| GF90SD-CVR | GF90SS-CVR | 3,000 | 4.88 | 12.13 | (8) M10-1.5 x 35MM |
| GF100SD-CVR | GF100SS-CVR | 2,400 | 5.00 | 14.38 | (8) M12-1.75 x 45MM |
| GF110SD-CVR | GF110SS-CVR | 2,000 | 5.50 | 16.75 | (8) M20-2.5 x 45MM |
| GF120SD-CVR | GF120SS-CVR | 1,800 | 7.94 | 20.10 | (8) M20-2.5 x 45MM |

G10 to GF 60 Cover are held into position with a retaining ring. GF70 covers are held into position with (8) bolts.

## Martin Go-Flex® – Horizontal Split Cover

Designed for all applications including high and/or low torque and high or low speeds while reducing axial loading.



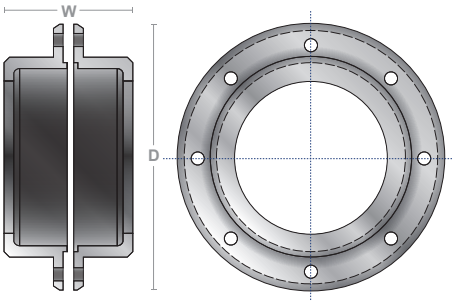

| Part Number | Max. RPM◊* | W | D | Bolt Size |
|---|---|---|---|---|
| GF20XP-CVR | 9,000 | 1.93 | 3.99 | (4) M6-1.00 x 25MM |
| GF30XP-CVR | 7,000 | 2.61 | 5.34 | (4) M10-1.5 x 35MM |
| GF40XP-CVR | 6,000 | 3.02 | 7.28 | (4) M12-1.75 x 45MM |
| GF50XP-CVR | 4,800 | 5.96 | 7.76 | (4) M12-1.75 x 60MM |
| GF60XP-CVR | 4,200 | 6.17 | 8.52 | (4) M16-2.0 x 65MM |
| GF70XP-CVR | 3,800 | 6.54 | 10.29 | (4) M20-2.5 x 60MM |
| GF80XP-CVR | 3,400 | 7.93 | 12.05 | (4) M20-2.5 x 60MM |

* With Extreme-Duty Insert.
Stainless Steel hardware provided with all High Performance Covers.

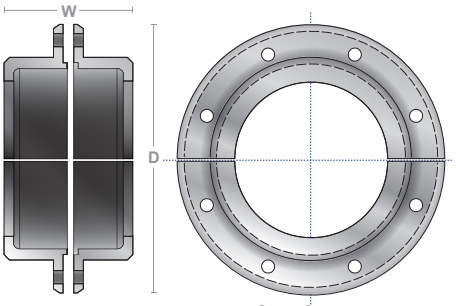
## Martin Go-Flex® – Vertical Split and Horizontal/Vertical Split Covers

Designed for high-Speed applications.

| Part Number | | Max. RPM◊ | W | D | Flange Bolt Size | Hub Bolt Size |
|---|---|---|---|---|---|---|
| Vertical Split | Horizontal/ Vertical Split | | | | | |
| GF20VS-CVR | GF20HS-CVR | 9,000 | 4.7 | 1.78 | (8) M6-1.00 x 20MM | Retaining Ring |
| GF30VS-CVR | GF30HS-CVR | 7,000 | 5.62 | 2.5 | (8) M6-1.00 x 20MM | Retaining Ring |
| GF40VS-CVR | GF40HS-CVR | 6,000 | 7.62 | 3.46 | (8) M10-1.5 x 20MM | Retaining Ring |
| GF50VS-CVR | GF50HS-CVR | 4,800 | 8.95 | 4.35 | (8) M10-1.5 x 35MM | Retaining Ring |
| GF60VS-CVR | GF60HS-CVR | 4,200 | 9.85 | 4.5 | (8) M10-1.5 x 35MM | Retaining Ring |
| GF70VS-CVR | GF70HS-CVR | 3,800 | 10.5 | 4.68 | (8) M10-1.5 x 35MM | (8) M10-1.5 x 35MM |
| GF80VS-CVR | GF80HS-CVR | 3,400 | 13.5 | 5.88 | (12) M12-1.75 x 45MM | (8) M10-1.5 x 35MM |
| GF90VS-CVR | GF90HS-CVR | 3,000 | 15.25 | 6.21 | (16) M12-1.75 x 45MM | (8) M10-1.5 x 35MM |
| GF100VS-CVR | GF100HS-CVR | 2,800 | 17.75 | 7.32 | (16) M12-1.75 x 50MM | (8) M12-1.75 x 45MM |
| GF110VS-CVR | GF110HS-CVR | 2,000 | 19.59 | 7.42 | (20) M12-1.75 x 45MM | (8) M20-2.5 x 45MM |
| GF120VS-CVR | GF120HS-CVR | 1,200 | 24.38 | 10.85 | (20) M12-1.75 x 45MM | (8) M20-2.5 x 45MM |




**Vertical Split Cover**




**Horizontal/Vertical Split Cover**

◊ For applications above listed RPM, consult Martin.

# Go-Flex®
# Quick Selection Guide

## Insert Features

| Standard-Duty (Red) | Medium-Duty (Dark Blue) | Extreme-Duty (Black) | High Temp (White) | Metal Detectable (Light Blue) |
|---|---|---|---|---|
| Max Temp: 212°F | Max Temp: 212°F | Max Temp: 212°F | Max Temp: 300°F | Max Temp: 212°F |
| Greatest Dampening | Lower Dampening | Lowest Dampening | Lower Dampening | Greatest Dampening |
| Lowest Torque | Higher Torque | Highest Torque | Higher Torque | Lowest Torque |

## High-Speed Standard Cover

| Max Bore | Coupling Series | Max Torque Rating (in. lb.) | | | | |
|---|---|---|---|---|---|---|
| 1-1/4 | GF10 | 377 | 792 | 792 | 792 | 365 |

## Horizontal Split, Vertical Split and Horizontal/Vertical Split Covers

| Max Bore | Coupling Series | Max Torque Rating (in. lb.) | | | | |
|---|---|---|---|---|---|---|
| 1-5/8 | GF20 | 1,254 | 2,457 | 3,789 | 2,457 | 1,254 |
| 2-1/4 | GF30 | 4,099 | 7,730 | 11,914 | 7,730 | 4,099 |
| 2-3/8 | GF40 | 8,630 | 17,099 | 25,870 | 17,099 | 8,630 |
| 3 | GF50 | 17,315 | 34,336 | 52,408 | 34,336 | 17,315 |
| 3-7/8 | GF60 | 30,353 | 58,137 | 87,110 | 58,137 | 30,353 |
| 4-1/8 | GF70 | 38,048 | 75,538 | 116,432 | 75,538 | 38,048 |
| 4-1/2 | GF80 | 75,000 | 145,000 | 220,000 | 145,000 | 75,000 |
| 5-1/2 | GF90 | 105,000 | 204,000 | 310,000 | 204,000 | 105,000 |
| 7 | GF100 | 175,000 | 345,000 | 550,000 | 345,000 | 175,000 |
| 8 | GF110 | 300,000 | 565,000 | 870,000 | 565,000 | 300,000 |
| 11 | GF120 | 599,700 | 1,120,000 | 1,680,000 | 1,120,000 | 599,700 |

## Formula Selection Method

Information required before a coupling can be selected:

- HP and RPM or torque of driver
- Shaft sizes of driver and driven equipment
- Corresponding keyways
- Application description to determine service factor
- Environmental conditions

**Step 1.** Determine the Nominal Torque (T) of your application

$$\text{in/lb} = T = \frac{(63025 \times HP)}{RPM}$$

**Step 2.** Refer to pages C-68 and 71 to determine Application Service Factor

**Step 3.** Calculate the Design Torque of your application.

Design Torque = Nominal Torque (T) x Application Service Factor

**Example:**

Driver: 5HP, 1800RPM electric motor

Driven: belt conveyor (refer to pages C-68 and 71)

$$\text{in/lbs} = T = \frac{(63025 \times 5HP)}{1800}$$

Nominal Torque (T) = 175 in/lbs

Design Torque = 175 (Nominal Torque) x 1.75 (Application Service Factor from pages C-68 and 71)

Design Torque = 306.25 in/lbs Torque

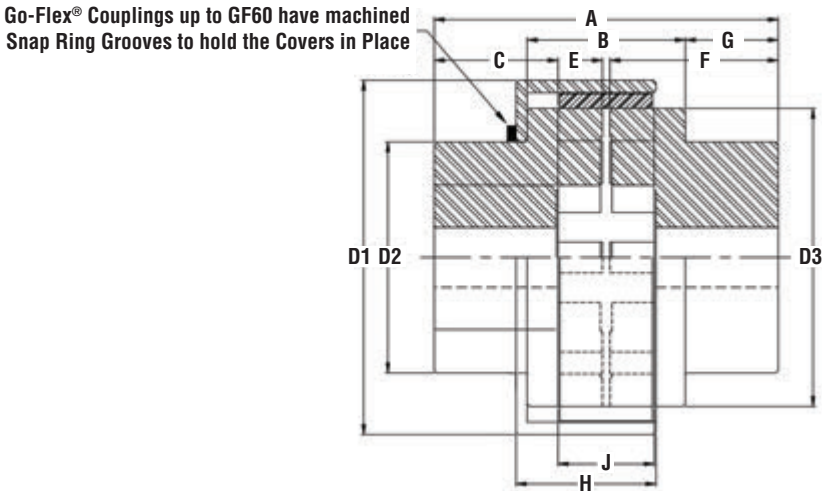
**Step 4.** Refer to page C-64 to select correct coupling size - ie. GF10

**Step 5.** Confirm that the shaft size of the driver and driven shafts are equal to or less than the maximum bore size (refer to coupling dimensional pages)

**Step 6.** Confirm environmental conditions to determine correct cover, hubs, and insert material (stainless steel or carbon steel hubs and cover, food grade, high temp or standard insert)

For reversing applications with high inertia loads, please consult Martin.

# Go-Flex® with Standard Cover Dimensions/Ratings




## Martin Go-Flex® Coupling with Standard Cover Dimensions/Ratings (Carbon Steel and Stainless Steel)

| Coupling Series | Pilot Bore Diameter | Maximum Bore Size ○ Square Key | Max RPM* | Maximum Torque (in-lbs)■ | A | B | D1 | D2 | D3 | C | E MIN | E MAX | F | G | H | J | Wt. ◊ (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GF10 | 1/2 | 1-1/4 | 12,000 | 792 | 2.8 | 1.03 | 2.49 | 2 | 2.07 | 1.08 | 0.062 | 0.092 | 1.37 | 0.88 | 0.95 | 0.66 | 4 |
| GF20 | 1/2 | 1-5/8 | 9,000 | 2,457 | 3.54 | 1.28 | 3.16 | 2.31 | 2.55 | 1.34 | 0.089 | 0.104 | 1.75 | 1.14 | 1.35 | 0.88 | 5 |
| GF30 | 3/4 | 2-1/4 | 7,000 | 7,730 | 4.86 | 2 | 4.21 | 3.19 | 3.37 | 1.81 | 0.1 | 0.13 | 2.39 | 1.42 | 1.95 | 1.25 | 11 |
| GF40 | 7/8 | 2-3/8 | 6,000 | 17,099 | 5.96 | 2.42 | 5.48 | 3.52 | 4.49 | 2.16 | 0.105 | 0.181 | 2.96 | 1.78 | 2.38 | 1.66 | 15 |
| GF50 | 1 | 3 | 4,800 | 34,336 | 7.07 | 3.48 | 7 | 4.25 | 5.92 | 2.46 | 0.18 | 0.211 | 3.4 | 1.76 | 2.96 | 2.19 | 37 |
| GF60 | 1 | 3-7/8 | 4,200 | 58,137 | 7.69 | 3.67 | 8 | 5.5 | 6.75 | 2.67 | 0.253 | 0.293 | 3.75 | 2 | 3.27 | 2.45 | 57 |
| GF70 | 1-1/2 | 4-1/8 | 3,800 | 75,538 | 8.51 | 3.96 | 8.88 | 5.79 | 7.48 | 3.1 | 0.17 | 0.209 | 4.21 | 2.33 | 3.5 | 2.49 | 71 |
| GF80 | 1-7/8 | 4-1/2 | 3,400 | 145,000 | 10.13 | 4.67 | 10.77 | 7 | 9.25 | 3.75 | 0.196 | 0.25 | 5 | 2.75 | 4.05 | 2.75 | 126 |
| GF90 | 1-7/8 | 5-1/2 | 3,000 | 204,000 | 12.29 | 5.09 | 12.13 | 7.81 | 10.5 | 4.6 | 0.237 | 0.349 | 6 | 3.6 | 4.88 | 3.04 | 216 |
| GF100 | 2-1/8 | 7 | 2,400 | 345,000 | 14.28 | 5.92 | 14.38 | 9.5 | 12.8 | 5.74 | 0.25 | 0.347 | 7.26 | 4.45 | 5 | 3.35 | 400 |
| GF110 | 2-1/8 | 8 | 2,000 | 565,000 | 16.2 | 6.2 | 16.75 | 11 | 15.09 | 6.18 | 0.167 | 0.309 | 7.98 | 5 | 5.5 | 3.99 | 532 |
| GF120 | 2-1/8 | 11 | 1,800 | 1,120,000 | 20.08 | 9.18 | 20.1 | 15 | 17.75 | 7.22 | 0.236 | 0.424 | 9.88 | 5.45 | 7.94 | 5.68 | 1116 |

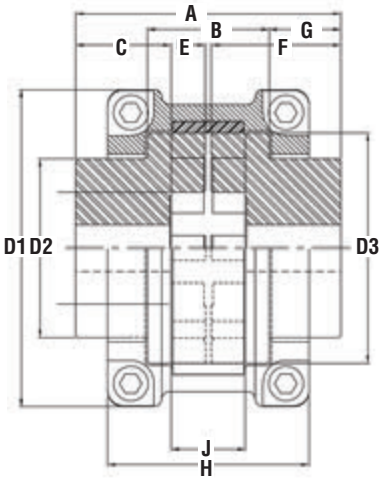
* For applications above listed RPM, consult Martin.
◊ All weights shown are approximate for a complete standard coupling assembly.
■ Maximum torque values (in-lbs) are based on use with black insert. Refer to page C-64 for complete torque ratings.
○ Maximum bore size has reduced keyway on sizes GF20, GF30, and GF40.

## Martin Go-Flex® Insert Maximum Torque Ratings (in-lb)

| Coupling Series | Standard-Duty Red | Medium-Duty Dark Blue | Extreme-Duty Black | High Temp White | Metal Detectable Light Blue |
|---|---|---|---|---|---|
| GF10 | 377 | 792 | - | 792 | 377 |
| GF20 | 1,254 | 2,457 | - | 2,457 | 1,254 |
| GF30 | 4,099 | 7,730 | - | 7,730 | 4,099 |
| GF40 | 8,630 | 17,099 | - | 17,099 | 8,630 |
| GF50 | 17,315 | 34,336 | - | 34,336 | 17,315 |
| GF60 | 30,353 | 58,137 | - | 58,137 | 30,353 |
| GF70 | 38,048 | 75,538 | - | 75,538 | 38,048 |
| GF80 | 75,000 | 145,000 | - | 145,000 | 75,000 |
| GF90 | 105,000 | 204,000 | - | 204,000 | 105,000 |
| GF100 | 175,000 | 345,000 | - | 345,000 | 175,000 |
| GF110 | 300,000 | 565,000 | - | 565,000 | 300,000 |
| GF120 | 599,700 | 1,120,000 | - | 1,120,000 | 599,700 |

**Note:**
**It is not recommended to use the Black insert with the Standard Cover. In high torque applications we recommend the use of the Horizontal Split Cover.**

# Go-Flex® with Horizontal Split Cover Dimensions/Ratings




## Martin Go-Flex® Coupling with Horizontal Split Cover Dimensions/Ratings (Carbon Steel Only)

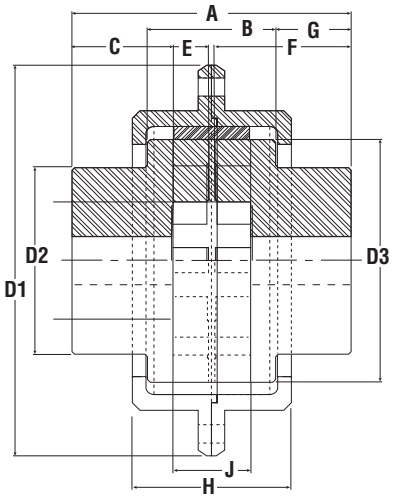
| Coupling Series | Pilot Bore Diameter | Maximum Bore Size ○ Square Key | Max RPM* | Maximum Torque (in-lbs)■ | A | B | D1 | D2 | D3 | C | E MIN | E MAX | F | G | H | J | Wt. ◊ (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GF20 | 1/2 | 1-5/8 | 9,000 | 2,457 | 3.54 | 1.28 | 3.99 | 2.31 | 2.55 | 1.34 | 0.089 | 0.104 | 1.75 | 1.14 | 1.93 | 0.88 | 5 |
| GF30 | 3/4 | 2-1/4 | 7,000 | 7,730 | 4.86 | 2 | 5.34 | 3.19 | 3.37 | 1.81 | 0.1 | 0.13 | 2.39 | 1.42 | 2.61 | 1.25 | 12 |
| GF40 | 7/8 | 2-3/8 | 6,000 | 17,099 | 5.96 | 2.42 | 7.28 | 3.52 | 4.49 | 2.16 | 0.105 | 0.14 | 2.96 | 1.78 | 3.02 | 1.66 | 17 |
| GF50 | 1 | 3 | 4,800 | 34,336 | 7.07 | 3.48 | 7.76 | 4.25 | 5.92 | 2.46 | 0.221 | 0.32 | 3.4 | 1.76 | 5.96 | 2.19 | 40 |
| GF60 | 1 | 3-7/8 | 4,200 | 58,137 | 7.69 | 3.67 | 8.52 | 5.5 | 6.75 | 2.67 | 0.253 | 0.314 | 3.75 | 2 | 6.17 | 2.45 | 59 |
| GF70 | 1-1/2 | 4-1/8 | 3,800 | 75,538 | 8.51 | 3.96 | 10.29 | 5.79 | 7.48 | 3.1 | 0.17 | 0.209 | 4.21 | 2.33 | 6.54 | 2.49 | 81 |
| GF80 | 1-7/8 | 4-1/2 | 3,400 | 145,000 | 10.13 | 4.67 | 12.02 | 7 | 9.25 | 3.75 | 0.196 | 0.335 | 5 | 2.75 | 7.92 | 2.75 | 138 |

* For applications above listed RPM, consult Martin.
◊ All weights shown are approximate for a complete standard coupling assembly.
■ Maximum torque values (in-lbs) are based on use with black insert. Refer to page C-64 for complete torque ratings.
○ Maximum bore size has reduced keyway on sizes GF20, GF30, and GF40.

## Martin Go-Flex® Insert Maximum Torque Ratings (in-lb)

| Coupling Series | Standard-Duty Red | Medium-Duty Dark Blue | Extreme-Duty Black | High Temp White | Metal Detectable Light Blue |
|---|---|---|---|---|---|
| GF20 | 1,254 | 2,457 | 3,789 | 2,457 | 1,254 |
| GF30 | 4,099 | 7,730 | 11,914 | 7,730 | 4,099 |
| GF40 | 8,630 | 17,099 | 25,870 | 17,099 | 8,630 |
| GF50 | 17,315 | 34,336 | 52,408 | 34,336 | 17,315 |
| GF60 | 30,353 | 58,137 | 87,110 | 58,137 | 30,353 |
| GF70 | 38,048 | 75,538 | 116,432 | 75,538 | 38,048 |
| GF80 | 75,000 | 145,000 | 220,000 | 145,000 | 75,000 |

# Go-Flex® with Vertical Split Dimensions/Ratings




## Martin Go-Flex® Coupling with Vertical Split Cover Dimensions/Ratings

| Coupling Series | Pilot Bore Diameter | Maximum Bore Size ○ Square Key | Max RPM* | Maximum Torque (in-lbs)■ | A | B | D1 | D2 | D3 | C | E MIN | E MAX | F | G | H | J | Wt. ◊ (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GF20 | 1/2 | 1-5/8 | 9,000 | 2,457 | 3.54 | 1.28 | 4.7 | 2.31 | 2.55 | 1.34 | 0.089 | 0.104 | 1.75 | 1.14 | 1.78 | 0.88 | 7 |
| GF30 | 3/4 | 2-1/4 | 7,000 | 7,730 | 4.86 | 2 | 5.62 | 3.19 | 3.37 | 1.81 | 0.1 | 0.13 | 2.39 | 1.42 | 2.5 | 1.25 | 13 |
| GF40 | 7/8 | 2-3/8 | 6,000 | 17,099 | 5.96 | 2.42 | 7.62 | 3.52 | 4.49 | 2.16 | 0.105 | 0.181 | 2.96 | 1.78 | 3.08 | 1.66 | 20 |
| GF50 | 1 | 3 | 4,800 | 34,336 | 7.07 | 3.48 | 8.95 | 4.25 | 5.92 | 2.46 | 0.221 | 0.32 | 3.4 | 1.76 | 4.36 | 2.19 | 47 |
| GF60 | 1 | 3-7/8 | 4,200 | 58,137 | 7.69 | 3.67 | 9.85 | 5.5 | 6.75 | 2.67 | 0.253 | 0.314 | 3.75 | 2 | 4.5 | 2.45 | 65 |
| GF70 | 1-1/2 | 4-1/8 | 3,800 | 75,538 | 8.51 | 3.96 | 10.5 | 5.79 | 7.48 | 3.1 | 0.17 | 0.209 | 4.21 | 2.33 | 4.67 | 2.49 | 80 |
| GF80 | 1-7/8 | 4-1/2 | 3,400 | 145,000 | 10.13 | 4.67 | 13.5 | 7 | 9.25 | 3.75 | 0.196 | 0.335 | 5 | 2.75 | 5.88 | 2.75 | 136 |
| GF90 | 1-7/8 | 5-1/2 | 3,000 | 204,000 | 12.29 | 5.09 | 15.25 | 7.81 | 10.5 | 4.6 | 0.237 | 0.349 | 6 | 3.6 | 6.21 | 3.04 | 226 |
| GF100 | 2-1/8 | 7 | 2,400 | 345,000 | 14.28 | 5.92 | 17.75 | 9.5 | 12.8 | 5.74 | 0.288 | 0.397 | 7.26 | 4.45 | 7.32 | 3.35 | 410 |
| GF110 | 2-1/8 | 8 | 2,000 | 565,000 | 16.2 | 6.2 | 19.56 | 11 | 15.09 | 6.18 | 0.167 | 0.309 | 7.98 | 5 | 7.42 | 3.99 | 542 |
| GF120 | 2-1/8 | 11 | 1,800 | 1,120,000 | 20.08 | 9.18 | 24.38 | 15 | 17.75 | 7.22 | 0.236 | 0.424 | 9.88 | 5.45 | 10.85 | 5.68 | 1136 |

* For applications above listed RPM, consult Martin.
◊ All weights shown are approximate for a complete standard coupling assembly.
■ Maximum torque values (in-lbs) are based on use with black insert. Refer to page C-64 for complete torque ratings.
○ Maximum bore size has reduced keyway on sizes GF20, GF30, and GF40.

## Martin Go-Flex® Insert Maximum Torque Ratings (in-lb)

| Coupling Series | Standard-Duty Red | Medium-Duty Dark Blue | Extreme-Duty Black | High Temp White | Metal Detectable Light Blue |
|---|---|---|---|---|---|
| GF20 | 1,254 | 2,457 | 3,789 | 2,457 | 1,254 |
| GF30 | 4,099 | 7,730 | 11,914 | 7,730 | 4,099 |
| GF40 | 8,630 | 17,099 | 25,870 | 17,099 | 8,630 |
| GF50 | 17,315 | 34,336 | 52,408 | 34,336 | 17,315 |
| GF60 | 30,353 | 58,137 | 87,110 | 58,137 | 30,353 |
| GF70 | 38,048 | 75,538 | 116,432 | 75,538 | 38,048 |
| GF80 | 75,000 | 145,000 | 220,000 | 145,000 | 75,000 |
| GF90 | 105,000 | 204,000 | 310,000 | 204,000 | 105,000 |
| GF100 | 175,000 | 345,000 | 550,000 | 345,000 | 175,000 |
| GF110 | 300,000 | 565,000 | 870,000 | 565,000 | 300,000 |
| GF120 | 599,700 | 1,120,000 | 1,680,000 | 1,120,000 | 599,700 |

# Go-Flex®
# Keyway Sizes and Tolerances

## Martin Go-Flex® Standard Bore Sizes

| Coupling Size | PB | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 | 1-3/16 | 1-1/4 | 1-3/8 | 1-7/16 | 1-1/2 | 1-5/8 | 1-3/4 | 1-7/8 | 1-15/16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GF10 | X | X | X | X | X | X | X | X | X | | | | | | | |
| GF20 | X | | X | X | X | X | X | X | X | X | X | X | X | | | |
| GF30 | X | | | | X | X | X | X | X | X | X | X | X | X | X | X |
| GF40 | X | | | | X | X | X | | X | X | X | X | X | X | X | X |
| GF50 | X | | | | | | | | | | | X | X | X | X | X |
| GF60 | X | | | | | | | | | | | | | | | |
| GF70 | X | | | | | | | | | | | | | | | |
| GF80 | X | | | | | | | | | | | | | | | |

## Martin Go-Flex® Standard Bore Sizes (cont'd)

| Coupling Size | 2 | 2-1/8 | 2-3/16 | 2-1/4 | 2-3/8 | 2-7/16 | 2-1/2 | 2-5/8 | 2-3/4 | 2-7/8 | 2-15/16 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GF10 | | | | | | | | | | | | |
| GF20 | | | | | | | | | | | | |
| GF30 | X | X | | | | | | | | | | |
| GF40 | X | X | X | X | X | | | | | | | |
| GF50 | X | X | | X | X | X | X | X | X | X | X | X |
| GF60 | | | | | | | | | | | | |
| GF70 | | | | | | | | | | | | |
| GF80 | | | | | | | | | | | | |

## Martin Go-Flex® Bore Tolerances and Keyway Sizes

| Shaft Diameter (Nom) | Keyway Size (Nom) | | Bore Tolerances | | | | Set Screw Size |
|---|---|---|---|---|---|---|---|
| | Width | Depth | Clearance Fit** | | Interference fit** | | |
| 1/2 - 9/16 | 1/8 | 1/16 | +.0015 | -0.0000 | -0.0005 | -0.0010 | 5/16 |
| 5/8 - 7/8 | 3/16 | 3/32 | +.0015 | -0.0000 | -0.0005 | -0.0010 | 5/16 |
| 15/16 - 1-1/4 | 1/4 | 1/8 | +.0015 | -0.0000 | -0.0005 | -0.0010 | 5/16 |
| 1-15/16 - 1-3/8 | 5/16 | 5/32 | +.0015 | -0.0000 | -0.0005 | -0.0010 | 5/16 |
| 1-7/16 - 1-3/4 | 3/8 | 3/16 | +.0015 | -0.0000 | -0.0005 | -0.0015 | 5/16 |
| 1-13/16 - 2-1/4 | 1/2 | 1/4 | +.0025 | -0.0000 | -0.0005 | -0.0015 | 3/8 |
| 2-5/16 - 2-3/4 | 5/8 | 5/16 | +.0025 | -0.0000 | -0.0010 | -0.0020 | 1/2 |
| 2-13/16 - 3-1/4 | 3/4 | 3/8 | +.0025 | -0.0000 | -0.0010 | -0.0020 | 5/8 |
| 3-5/16 - 3-3/4 | 7/8 | 7/16 | +.0025 | -0.0000 | -0.0015 | -0.0025 | 5/8 |
| 3-13/16 - 4-1/2 | 1 | 1/2 | +.0025 | -0.0000 | -0.0025 | -0.0035 | 5/8 |

** For Class 1 Fit

Reduced keyways in max bore hubs measure as follows: GF20X1-5/8 - 3/8 x 3/32 keyway; GF30X2-1/8 - 1/2 x 1/8 keyway; GF40X2-3/8 - 5/8 x 5/32 keyway.

# Torque Ratings

## Torque Ratings for Martin Go-Flex® Carbon Steel Couplings with Standard Cover

| Coupling Series | Insert Part Number | Insert Color | Continuous Torque (in-lb) | HP Ratings @ Various RPM (Service Factor = 1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 100 | 300 | 600 | 900 | 1200 | 1800 | 2400 | 3600 |
| GF10 | GF10SD-INS | Red | 365 | 1 | 2 | 3 | 5 | 7 | 10 | 14 | 21 |
| | GF10MD-INS | Blue | 792 | 1 | 4 | 8 | 11 | 15 | 23 | 30 | 45 |
| | GF10HT-INS | White | 792 | 1 | 4 | 8 | 11 | 15 | 23 | 30 | 45 |
| | GF10FG-INS | Light Blue | 365 | 1 | 2 | 3 | 5 | 7 | 10 | 14 | 21 |
| GF20 | GF20SD-INS | Red | 1,254 | 2 | 6 | 12 | 18 | 24 | 36 | 48 | 72 |
| | GF20MD-INS | Blue | 2,457 | 4 | 12 | 23 | 35 | 47 | 70 | 94 | 140 |
| | GF20HT-INS | White | 2,457 | 4 | 12 | 23 | 35 | 47 | 70 | 94 | 140 |
| | GF20FG-INS | Light Blue | 1,254 | 2 | 6 | 12 | 18 | 24 | 36 | 48 | 72 |
| GF30 | GF30SD-INS | Red | 4,099 | 7 | 20 | 39 | 59 | 78 | 117 | 156 | 234 |
| | GF30MD-INS | Blue | 7,730 | 12 | 37 | 74 | 110 | 147 | 221 | 294 | 442 |
| | GF30HT-INS | White | 7,730 | 12 | 37 | 74 | 110 | 147 | 221 | 294 | 442 |
| | GF30FG-INS | Light Blue | 4,099 | 7 | 20 | 39 | 59 | 78 | 117 | 156 | 234 |
| GF40 | GF40SD-INS | Red | 8,630 | 14 | 41 | 82 | 123 | 164 | 246 | 329 | 493 |
| | GF40MD-INS | Blue | 17,099 | 27 | 81 | 163 | 244 | 326 | 488 | 651 | 977 |
| | GF40HT-INS | White | 17,099 | 27 | 81 | 163 | 244 | 326 | 488 | 651 | 977 |
| | GF40FG-INS | Light Blue | 8,630 | 14 | 41 | 82 | 123 | 164 | 246 | 329 | 493 |
| GF50 | GF50SD-INS | Red | 17,315 | 27 | 82 | 165 | 247 | 330 | 495 | 659 | 989 |
| | GF50MD-INS | Blue | 34,336 | 54 | 163 | 327 | 490 | 654 | 981 | 1,308 | 1,961 |
| | GF50HT-INS | White | 34,336 | 54 | 163 | 327 | 490 | 654 | 981 | 1,308 | 1,961 |
| | GF50FG-INS | Light Blue | 17,315 | 27 | 82 | 165 | 247 | 330 | 495 | 659 | 989 |
| GF60 | GF60SD-INS | Red | 30,353 | 48 | 144 | 289 | 433 | 578 | 867 | 1,156 | 1,734 |
| | GF60MD-INS | Blue | 58,137 | 92 | 277 | 553 | 830 | 1,107 | 1,660 | 2,214 | 3,321 |
| | GF60HT-INS | White | 58,137 | 92 | 277 | 553 | 830 | 1,107 | 1,660 | 2,214 | 3,321 |
| | GF60FG-INS | Light Blue | 30,353 | 48 | 144 | 289 | 433 | 578 | 867 | 1,156 | 1,734 |
| GF70 | GF70SD-INS | Red | 38,048 | 60 | 181 | 362 | 543 | 724 | 1,087 | 1,449 | 2,173 |
| | GF70MD-INS | Blue | 75,538 | 120 | 360 | 719 | 1,079 | 1,438 | 2,157 | 2,877 | 4,315 |
| | GF70HT-INS | White | 75,538 | 120 | 360 | 719 | 1,079 | 1,438 | 2,157 | 2,877 | 4,315 |
| | GF70FG-INS | Light Blue | 38,048 | 60 | 181 | 362 | 543 | 724 | 1,087 | 1,449 | 2,173 |
| GF80 | GF80SD-INS | Red | 75,000 | 119 | 357 | 714 | 1,071 | 1,428 | 2,142 | 2,856 | - |
| | GF80MD-INS | Blue | 145,000 | 230 | 690 | 1,380 | 2,071 | 2,761 | 4,141 | 5,522 | - |
| | GF80HT-INS | White | 145,000 | 230 | 690 | 1,380 | 2,071 | 2,761 | 4,141 | 5,522 | - |
| | GF80FG-INS | Light Blue | 75,000 | 119 | 357 | 714 | 1,071 | 1,428 | 2,142 | 2,856 | - |
| GF90 | GF90SD-INS | Red | 105,000 | 167 | 500 | 1,000 | 1,499 | 1,999 | 2,999 | 3,998 | - |
| | GF90MD-INS | Blue | 204,000 | 324 | 971 | 1,942 | 2,913 | 3,884 | 5,826 | 7,768 | - |
| | GF90HT-INS | White | 204,000 | 324 | 971 | 1,942 | 2,913 | 3,884 | 5,826 | 7,768 | - |
| | GF90FG-INS | Light Blue | 105,000 | 167 | 500 | 1,000 | 1,499 | 1,999 | 2,999 | 3,998 | - |
| GF100 | GF100SD-INS | Red | 175,000 | 278 | 833 | 1,666 | 2,499 | 3,332 | 4,998 | 6,664 | - |
| | GF100MD-INS | Blue | 345,000 | 547 | 1,642 | 3,284 | 4,927 | 6,569 | 9,853 | 13,138 | - |
| | GF100HT-INS | White | 345,000 | 547 | 1,642 | 3,284 | 4,927 | 6,569 | 9,853 | 13,138 | - |
| | GF100FG-INS | Light Blue | 175,000 | 278 | 833 | 1,666 | 2,499 | 3,332 | 4,998 | 6,664 | - |
| GF110 | GF110SD-INS | Red | 300,000 | 476 | 1,428 | 2,856 | 4,284 | 5,712 | 8,568 | - | - |
| | GF110MD-INS | Blue | 565,000 | 896 | 2,689 | 5,379 | 8,068 | 10,758 | 16,136 | - | - |
| | GF110HT-INS | White | 565,000 | 896 | 2,689 | 5,379 | 8,068 | 10,758 | 16,136 | - | - |
| | GF110FG-INS | Light Blue | 300,000 | 476 | 1,428 | 2,856 | 4,284 | 5,712 | 8,568 | - | - |
| GF120 | GF120SD-INS | Red | 599,700 | 952 | 2,855 | 5,709 | 8,564 | 11,418 | 17,127 | - | - |
| | GF120MD-INS | Blue | 1,120,000 | 1,777 | 5,331 | 10,662 | 15,994 | 21,325 | 31,987 | - | - |
| | GF120HT-INS | White | 1,120,000 | 1,777 | 5,331 | 10,662 | 15,994 | 21,325 | 31,987 | - | - |
| | GF120FG-INS | Light Blue | 599,700 | 952 | 2,855 | 5,709 | 8,564 | 11,418 | 17,127 | - | - |

Martin Go-Flex® flexible couplings can sustain momentary peak torque loads in excess of 200% of its maximum torque rating.

# Torque Ratings

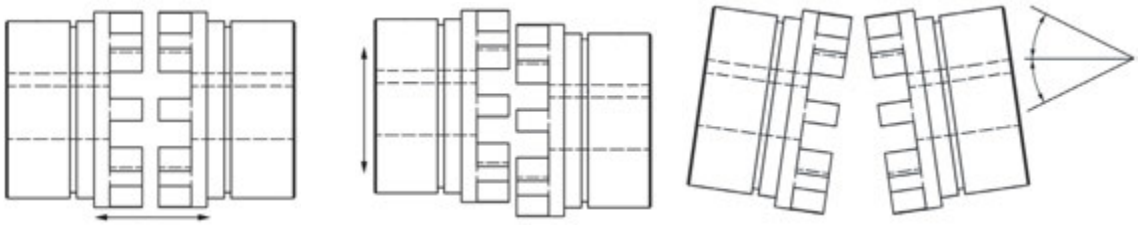
## Torque Ratings for Martin Go-Flex® Carbon Steel Couplings with Horizontal Split, Vertical Split and Horizontal/ Vertical Split Cover

| Coupling Series | Insert Part Number | Insert Color | Continuous Torque (in-lb) | HP Ratings @ Various RPM (Service Factor = 1) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 100 | 300 | 600 | 900 | 1200 | 1800 | 2400 | 3600 |
| GF20 | GF20SD-INS | Red | 1,254 | 2 | 6 | 12 | 18 | 24 | 36 | 48 | 72 |
| | GF20MD-INS | Blue | 2,457 | 4 | 12 | 23 | 35 | 47 | 70 | 94 | 140 |
| | GF20XD-INS | Black | 3,789 | 6 | 18 | 36 | 54 | 72 | 108 | 144 | 216 |
| | GF20HT-INS | White | 2,457 | 4 | 12 | 23 | 35 | 47 | 70 | 94 | 140 |
| | GF20FG-INS | Light Blue | 1,254 | 2 | 6 | 12 | 18 | 24 | 36 | 48 | 72 |
| GF30 | GF30SD-INS | Red | 4,099 | 7 | 20 | 39 | 59 | 78 | 117 | 156 | 234 |
| | GF30MD-INS | Blue | 7,730 | 12 | 37 | 74 | 110 | 147 | 221 | 294 | 442 |
| | GF30XD-INS | Black | 11,914 | 19 | 57 | 113 | 170 | 227 | 340 | 454 | 681 |
| | GF30HT-INS | White | 7,730 | 12 | 37 | 74 | 110 | 147 | 221 | 294 | 442 |
| | GF30FG-INS | Light Blue | 4,099 | 7 | 20 | 39 | 59 | 78 | 117 | 156 | 234 |
| GF40 | GF40SD-INS | Red | 8,630 | 14 | 41 | 82 | 123 | 164 | 246 | 329 | 493 |
| | GF40MD-INS | Blue | 17,099 | 27 | 81 | 163 | 244 | 326 | 488 | 651 | 977 |
| | GF40XD-INS | Black | 25,870 | 41 | 123 | 246 | 369 | 493 | 739 | 985 | 1,478 |
| | GF40HT-INS | White | 17,099 | 27 | 81 | 163 | 244 | 326 | 488 | 651 | 977 |
| | GF40FG-INS | Light Blue | 8,630 | 14 | 41 | 82 | 123 | 164 | 246 | 329 | 493 |
| GF50 | GF50SD-INS | Red | 17,315 | 27 | 82 | 165 | 247 | 330 | 495 | 659 | 989 |
| | GF50MD-INS | Blue | 34,336 | 54 | 163 | 327 | 490 | 654 | 981 | 1,308 | 1,961 |
| | GF50XD-INS | Black | 52,408 | 83 | 249 | 499 | 748 | 998 | 1,497 | 1,996 | 2,994 |
| | GF50HT-INS | White | 34,336 | 54 | 163 | 327 | 490 | 654 | 981 | 1,308 | 1,961 |
| | GF50FG-INS | Light Blue | 17,315 | 27 | 82 | 165 | 247 | 330 | 495 | 659 | 989 |
| GF60 | GF60SD-INS | Red | 30,353 | 48 | 144 | 289 | 433 | 578 | 867 | 1,156 | 1,734 |
| | GF60MD-INS | Blue | 58,137 | 92 | 277 | 553 | 830 | 1,107 | 1,660 | 2,214 | 3,321 |
| | GF60XD-INS | Black | 87,110 | 138 | 415 | 829 | 1,244 | 1,659 | 2,488 | 3,317 | 4,976 |
| | GF60HT-INS | White | 58,137 | 92 | 277 | 553 | 830 | 1,107 | 1,660 | 2,214 | 3,321 |
| | GF60FG-INS | Light Blue | 30,353 | 48 | 144 | 289 | 433 | 578 | 867 | 1,156 | 1,734 |
| GF70 | GF70SD-INS | Red | 38,048 | 60 | 181 | 362 | 543 | 724 | 1,087 | 1,449 | 2,173 |
| | GF70MD-INS | Blue | 75,538 | 120 | 360 | 719 | 1,079 | 1,438 | 2,157 | 2,877 | 4,315 |
| | GF70XD-INS | Black | 116,432 | 185 | 554 | 1,108 | 1,663 | 2,217 | 3,325 | 4,434 | 6,651 |
| | GF70HT-INS | White | 75,538 | 120 | 360 | 719 | 1,079 | 1,438 | 2,157 | 2,877 | 4,315 |
| | GF70FG-INS | Light Blue | 38,048 | 60 | 181 | 362 | 543 | 724 | 1,087 | 1,449 | 2,173 |
| GF80 | GF80SD-INS | Red | 75,000 | 119 | 357 | 714 | 1,071 | 1,428 | 2,142 | 2,856 | - |
| | GF80MD-INS | Blue | 145,000 | 230 | 690 | 1,380 | 2,071 | 2,761 | 4,141 | 5,522 | - |
| | GF80XD-INS | Black | 220,000 | 349 | 1,047 | 2,094 | 3,142 | 4,189 | 6,283 | 8,378 | - |
| | GF80HT-INS | White | 145,000 | 230 | 690 | 1,380 | 2,071 | 2,761 | 4,141 | 5,522 | - |
| | GF80FG-INS | Light Blue | 75,000 | 119 | 357 | 714 | 1,071 | 1,428 | 2,142 | 2,856 | - |
| GF90 | GF90SD-INS | Red | 105,000 | 167 | 500 | 1,000 | 1,499 | 1,999 | 2,999 | 3,998 | - |
| | GF90MD-INS | Blue | 204,000 | 324 | 971 | 1,942 | 2,913 | 3,884 | 5,826 | 7,768 | - |
| | GF90XD-INS | Black | 310,000 | 492 | 1,476 | 2,951 | 4,427 | 5,902 | 8,854 | 11,805 | - |
| | GF90HT-INS | White | 204,000 | 324 | 971 | 1,942 | 2,913 | 3,884 | 5,826 | 7,768 | - |
| | GF90FG-INS | Light Blue | 105,000 | 167 | 500 | 1,000 | 1,499 | 1,999 | 2,999 | 3,998 | - |
| GF100 | GF100SD-INS | Red | 175,000 | 278 | 833 | 1,666 | 2,499 | 3,332 | 4,998 | 6,664 | - |
| | GF100MD-INS | Blue | 345,000 | 547 | 1,642 | 3,284 | 4,927 | 6,569 | 9,853 | 13,138 | - |
| | GF100XD-INS | Black | 550,000 | 873 | 2,618 | 5,236 | 7,854 | 10,472 | 15,708 | 20,944 | - |
| | GF100HT-INS | White | 345,000 | 547 | 1,642 | 3,284 | 4,927 | 6,569 | 9,853 | 13,138 | - |
| | GF100FG-INS | Light Blue | 175,000 | 278 | 833 | 1,666 | 2,499 | 3,332 | 4,998 | 6,664 | - |
| GF110 | GF110SD-INS | Red | 300,000 | 476 | 1,428 | 2,856 | 4,284 | 5,712 | 8,568 | - | - |
| | GF110MD-INS | Blue | 565,000 | 896 | 2,689 | 5,379 | 8,068 | 10,758 | 16,136 | - | - |
| | GF110XD-INS | Black | 870,000 | 1,380 | 4,141 | 8,282 | 12,424 | 16,565 | 24,847 | - | - |
| | GF110HT-INS | White | 565,000 | 896 | 2,689 | 5,379 | 8,068 | 10,758 | 16,136 | - | - |
| | GF110FG-INS | Light Blue | 300,000 | 476 | 1,428 | 2,856 | 4,284 | 5,712 | 8,568 | - | - |
| GF120 | GF120SD-INS | Red | 599,700 | 952 | 2,855 | 5,709 | 8,564 | 11,418 | - | - | - |
| | GF120MD-INS | Blue | 1,120,000 | 1,777 | 5,331 | 10,662 | 15,994 | 21,325 | - | - | - |
| | GF120XD-INS | Black | 1,680,000 | 2,666 | 7,997 | 15,994 | 23,990 | 31,987 | - | - | - |
| | GF120HT-INS | White | 1,120,000 | 1,777 | 5,331 | 10,662 | 15,994 | 21,325 | - | - | - |
| | GF120FG-INS | Light Blue | 599,700 | 952 | 2,855 | 5,709 | 8,564 | 11,418 | - | - | - |

Martin Go-Flex® flexible couplings can sustain momentary peak torque loads in excess of 200% of its maximum torque rating.

# Misalignment Tolerances

## Martin Go-Flex® Couplings Misalignment Tolerances



| Coupling Series | Axial Misalignment Tolerance (in) | Radial Misalignment Tolerance (in) | Angular Misalignment Tolerance |
|---|---|---|---|
| GF10 | 0.078 | 0.020 | 2° |
| GF20 | 0.116 | 0.039 | 2° |
| GF30 | 0.116 | 0.039 | 2° |
| GF40 | 0.116 | 0.039 | 2° |
| GF50 | 0.156 | 0.058 | 2° |
| GF60 | 0.175 | 0.058 | 1.3° |
| GF70 | 0.234 | 0.058 | 1.3° |
| GF80 | 0.234 | 0.058 | 1° |
| GF90 | 0.234 | 0.058 | 1° |
| GF100 | 0.312 | 0.058 | 1° |
| GF110 | 0.312 | 0.078 | 1° |
| GF120 | 0.312 | 0.078 | 1° |

# Go-Flex® Service Factors

| Application | Factor |
|---|---|
| **AERATORS** | 2.5 |
| **AGGREGATE PROCESSING, CEMENT, MINING KILNS** | |
| Direct or on Line Shaft of Reducer | |
| With Final Drive Machined Spur Gears | 2.25 |
| With Single Helical or Herringbone Gears | 2.0 |
| Crushers, Ore or Stone | 2.75 |
| Dryer, Rotary | 2.0 |
| Grizzly | 2.25 |
| Hammermill or Hog | 2.0 |
| Tumbling Mill or Barrel | 2.0 |
| **AGITATORS** | |
| Vertical, Horizontal, Screw, Propeller, Paddle | 1.25 |
| **BARGE HAUL PULLER** | 1.75 |
| **BLOWERS** | |
| Centrifugal | 1.5 |
| Lobe or Vane | 1.5 |
| **BREWING AND DISTILLING** | |
| Bottle and Can Filling Machines | 1.5 |
| Brew Kettle | 1.25 |
| Cookers, Continuous Duty | 1.5 |
| Lauter Tub | 1.75 |
| Mash Tub | 1.5 |
| Scale Hopper, Frequent Peaks | 2.0 |
| **CLARIFIER OR CLASSIFIER** | 1.25 |
| **CLAY WORKING INDUSTRY** | |
| Brick Press, Briquette Machine, Clay Working Machine, Pug Mill | 2.0 |
| **COMPRESSORS** | |
| Centrifugal | 1.25 |
| Rotary, Lobe or Vane | 1.5 |
| Rotary, Screw | 1.5 |
| Reciprocating | |
| Direct Connected | Refer to Factory |
| Without Flywheels | |
| With Flywheel and Gear between Compressor and Prime Monitor | |
| 1 Cylinder, Single Acting | 3.0 |
| 1 Cylinder, Double Acting | 3.0 |
| 2 Cylinders, Single Acting | 3.0 |
| 2 Cylinders Double Acting | 3.0 |
| 3 Cylinders Single Acting | 3.0 |
| 3 Cylinders, Double Acting | 2.0 |
| 4 Or More Cyl Single Acting | 2.5 |
| 4 Or More Cyl Double Acting | 2.5 |

| Application | Factor |
|---|---|
| **CONVEYORS** | |
| Apron, Assembly, Belt, Chain, Flight, Screw | 1.75 |
| Bucket | 1.75 |
| Live Roll, Shaker and Reciprocating | 3.0 |
| Bridge, Travel or Trolley | 2.50 |
| **DREDGERS** | |
| Cable Reel | 2.0 |
| Conveyors | 1.50 |
| Cutter Head, Jig Drive | 2.5 |
| Maneuvering Winch | 1.75 |
| Pumps (Uniform Load) | 1.75 |
| Screen Drive, Stacker | 2.0 |
| Utility Winch | 2.0 |
| **DYNAMOMETER** | 1.5 |
| **ELEVATORS - BUCKET, CENTRIFUGAL DISCHARGE** | 1.75 |
| **EXCITER, GENERATOR** | 1.5 |
| **EXTRUDER, PLASTIC** | 1.5 |
| **FANS** | |
| Centrifugal | 1.25 |
| Cooing Tower | 2.0 |
| Forced Draft-Across the Line Start | 1.75 |
| **FOOD INDUSTRY** | |
| Beet Slicer | 2.0 |
| Bottling, Can, Filling Machine | 1.5 |
| Cereal Cooker | 1.5 |
| Dough Mixer, Meat Grinder | 2.0 |
| Forced Draft Motor driven thru fluid or Electric Slip Clutch | 1.25 |
| Gas Recirculating | 1.50 |
| Induced Draft with damper control or blade cleaner | 1.50 |
| Induced Draft without controls | 2.0 |
| **FEEDERS** | |
| Apron, Belt, Disc, Screw | 1.25 |
| Reciprocating | 2.5 |
| **GENERATORS** | |
| Even Load | 1.25 |
| Hoist or Railway Service | 1.75 |
| Welder Load | 2.0 |
| **HAMMERMILL** | 1.75 |
| **LAUNDRY WASHER OR TUMBLER** | 2.0 |
| **LINE SHAFTS ANY PROCESSING MACHINERY** | 1.5 |
| **LUMBER** | |
| Band Resaw | 2.0 |
| Circular Resaw, Cutoff | 2.0 |
| Edger, Head Rig, Hog | 2.5 |
| Gang Saw (Reciprocating) | 3.0 |

| Application | Factor |
|---|---|
| Log Haul | 2.5 |
| Planer | 2.0 |
| Rolls, Non-Reversing | 1.5 |
| Rolls, Reversing | 2.5 |
| Sawdust Conveyor | 1.5 |
| Slab Conveyor | 2.0 |
| Sorting Table | 1.75 |
| Trimmer | 2.0 |
| **MACHINE TOOLS** | |
| Auxiliary and Traverse Drive | 1.0 |
| Bending Roll, Notching Press, Punch, Press, Planer, Plate Reversing | 1.75 |
| Main Drive | 1.5 |
| **METAL ROLLING MILLS** | |
| Coilers (Up or Down) Cold Mill Only | 1.75 |
| Coilers (Up or Down) Hot Mill Only | 2.25 |
| Coke Plants | |
| Pusher Ram Drive | 2.75 |
| Door Opener | 2.25 |
| Pusher or Larry Car Traction Drive | 3.25 |
| Continuous Caster | 2.0 |
| Cold Mills | |
| Strip Mills | Refer to Factory |
| Temper Mills | |
| Cooling Beds | 1.75 |
| Drawbench | 2.25 |
| Feed Rolls - Blooming Mills | 3.25 |
| Furnace Pushers | 2.25 |
| Hot and Cold Saws | 2.25 |
| Hot Mills | |
| Strip or Sheet Mills | Refer to Factory |
| Reversing Blooming | |
| Slabbing Mills | |
| Edger Drives | |
| Ingot Cars | 2.25 |
| Manipulators | 3.25 |
| Merchant Mills | Refer to Factory |
| Mill Tables | |
| Roughing Breakdown Mills | 3.25 |
| Hot Bed or Transfer (non-reversing) | 1.75 |
| Runout (reversing) | 3.25 |
| Runout (non-reversing, non-plugging) | 2.25 |
| Reel Drives | 2.0 |
| Rod Mills | Refer to Factory |
| Screwdown | 2.25 |
| Seamless Tube Mills | |
| Piercer | 3.25 |

* For reversing applications with high inertia loads, please consult Martin.

# Go-Flex®
# Service Factors (Cont'd)

| Application | Factor |
|---|---|
| Thrust Block | 2.25 |
| Tube Conveyor Rolls | 2.25 |
| Reeler | 2.25 |
| Kick Out | 2.25 |
| Shear, Croppers | Refer to Factory |
| Sideguards | 3.25 |
| Skelp Mills | Refer to Factory |
| Slitters (Steel Mill only) | 2.0 |
| Soaking Pit Cover Drives | |
| Lift | 1.25 |
| Travel | 2.25 |
| Straighteners | 2.25 |
| Unscramblers (Billet Bundle Busters) | 2.25 |
| Wire Drawing Machinery | 2.0 |
| **MIXERS (ALSO SEE AGITATORS)** | |
| Concrete | 1.75 |
| Muller | 1.5 |
| **OIL INDUSTRY** | |
| Chiller | 1.50 |
| Oilwell Pumping (not over 150% peak torque) | 2.5 |
| Paraffin Filter Press | 1.75 |
| Rotary Kiln | 2.5 |
| **PAPER MILLS** | |
| Barker, Auxiliary, Hydraulic | 2.5 |
| Barker, Mechanical | 2.5 |
| Barker, Drum L.S. shaft of reducer with final drive- | |
| Helical or Herringbone Gear | 2.5 |
| Machined Spur Gear | 3.0 |
| Cast Tooth Spur Gear | 3.0 |
| Beater and Pulper | 2.0 |
| Bleachers, Coaters | 1.5 |
| Calendar and Super Calendar | 2.0 |
| Chipper | 3.0 |
| Converting Machine | 1.5 |
| Couch | 2.0 |
| Cutter, Felt Whipper | 2.25 |
| Cylinder, Dryer | 2.0 |
| Felt Stretcher | 1.75 |
| Fourdrinier | 2.0 |
| Jordan | 2.5 |
| Log Haul | 2.5 |
| Line Shaft | 1.75 |
| Press | 2.0 |
| Pulp Grinder | 2.0 |
| Reel, Rewinder, Winder | 2.0 |
| Stock Chest, Washer, Thickener | 1.75 |

| Application | Factor |
|---|---|
| Stock Pumps, Centrifugal | |
| Constant Speed | 1.25 |
| Frequent Speed Changes Under Load | 1.5 |
| Suction Roll | 2.0 |
| **PRESS, PRINTING** | 1.5 |
| **PUG MILL** | 1.75 |
| **PULVERIZERS** | |
| Hammermill and Hog | 1.75 |
| Roller | 1.5 |
| **PUMPS CENTRIFUGAL** | |
| Constant Speed | 1.0 |
| Frequent Speed Changes Under Load | 1.75 |
| Descaling, with Accumulators | 1.75 |
| Gear, Rotary, or Vane | 1.75 |
| **PUMPS RECIPROCATING** | |
| 1 Cyl., single or double acting | 3.0 |
| 2 Cyl., single acting | 2.5 |
| 2 Cyl., double acting | 2.0 |
| 3 or more cylinders | 2.0 |
| **RUBBER INDUSTRY** | |
| Calendar | 2.25 |
| Cracker, Plasticolour | 2.5 |
| Extruder | 2.0 |
| Tire and Tube Press Opener (peak torque) | 1.5 |
| Warming Mill | |
| One or two mills in line | 2.0 |
| Three or more mills in line | 2.5 |
| Washer | 2.75 |
| **SCREENS** | |
| Air Washing | 1.5 |
| Grizzly | 2.5 |
| Rotary Coal or Sand | 2.0 |
| Vibrating | 2.5 |
| Water | 1.5 |
| **SEWAGE DISPOSAL EQUIPMENT** | |
| Bar Screen, Chemical Feeders, Collectors, | |
| Dewatering Screen, Grit Collector | 1.5 |
| Mill Stands, Turbine Driven with all Helical or Herringbone Gears | 1.75 |
| Electric Drive or Steam Engine Drive with Helical or Herringbone | 2.0 |
| **STOKER** | 1.0 |
| **SUGAR INDUSTRY** | |
| Cone Carrier and Leveler | 2.25 |
| Cane Knife and Crusher | 2.5 |
| Mill Stands, Turbine Driver with all helical or Herringbone Gears | 1.75 |

| Application | Factor |
|---|---|
| Electric Drive or Steam Engine Drive with helical, Herringbone, or Spur Gears with any Prime Mover | 2.0 |
| **TEXTILE INDUSTRY** | |
| Batcher | 1.5 |
| Calendar, Card Machine | 1.75 |
| Cloth Finishing Machine | 1.75 |
| Dry Can, Loom | 1.75 |
| Dyeing Machinery | 1.5 |
| Knitting Machine | Refer to Factory |
| Mangle, Napper, Soaper | 1.5 |
| Spinner, Tenter Frame, Winder | 1.75 |
| **TUMBLING BARREL** | 2.0 |
| **WINCH, MANEUVERING - DREDGE, MARINE** | 1.5 |
| **WINDLASS** | 1.5 |

## Engine Service Factors

Service Factors for engine drives are those required for applications where good flywheel regulation prevents torque fluctuation greater than 20%. For drives where torque fluctuations are greater or where the operation is near a serious critical or torsional vibration, a mass elastic study is necessary.

To determine an engine drive service factor, first determine the application service factor for motors. Then, use that to find the correct engine service factor in the table below. When the application service factor for motors is greater than 2.0 or where 1, 2, or 3 cylinder engines are involved, please contact customer service with complete application details for engineering review.

| Application Service Factor | Engine Factor | |
|---|---|---|
| | 4 to 5 Cylinders | 6+ Cylinders |
| 1.0 | 2.0 | 1.5 |
| 1.25 | 2.25 | 1.75 |
| 1.5 | 2.5 | 2.0 |
| 1.75 | 2.75 | 2.25 |
| 2.0 | 3.0 | 2.5 |

* For reversing applications with high inertia loads, please consult Martin.

# Go-Flex®
# Compatibility Chart

**A = Little to No Effect** **B = Minor to Moderate Effect** **C = Severe Effect to Destruction** **N = No Data; Test Prior to Use**

| | |
|---|---|
| Acetaldehyde | C |
| Acetamide | N |
| Acetic Acid | C |
| Acetic Anhydride | C |
| Acetone | C |
| Acetyl Bromide | C |
| Acetyl Chloride | C |
| Acetylene | C |
| Adipic Acid | A |
| Aero Shell Grease | B |
| Aero Lubriplate | A |
| Aero Safe 2300 | N |
| Aerozene 50 | N |
| Aluminum Acetate | N |
| Aluminum Bromide | N |
| Aluminum Chloride | B |
| Aluminum Sulfate | B |
| Ammonia | B |
| Ammonium Carbonate | B |
| Ammonium Chloride | N |
| Ammonium Hydroxide | B |
| Ammonium Nitrate | B |
| Ammonium Persulfate | B |
| Ammonium Sulfate | B |
| Ammonium Sulfide | B |
| Ammonium Thiocynate | B |
| Amonnium Acetate | C |
| Amyl Acetate | C |
| Amyl Alcohol | C |
| Aniline | C |
| Aniline Hydrochloride | C |
| Animal Fats and Oils | B |
| Antimony Salts | B |
| Aqua Regia | C |
| Arsenic Salts | B |
| ASTM Oil #1 | A |
| ASTM Oil #2 | B |
| ASTM Oil #3 | B |
| ASTM Reference Fuel | A |
| ASTM Reference Fuel | B |
| Atlantic Oil | A |
| Barium Carbonate | B |
| Barium Hydroxide | A |
| Beer | A |
| Benzaldehyde | B |
| Benzene | C |
| Benzoic Acid | B |
| Black Sulphate Liquors | N |
| Bleach Solutions | N |
| Boric Acid | A |

| | |
|---|---|
| Brake Fluid | N |
| Bromine | B |
| Bunker Oil | A |
| Butane | A |
| Butyl Acetate | C |
| Butyl Alcohol | B |
| Calcium Carbonate | B |
| Calcium Chloride | A |
| Calcium Hydroxide | A |
| Calcium Nitrate | B |
| Calcium Sulfate | B |
| Carbon Dioxide | A |
| Carbon Disulfide | B |
| Carbon Monoxide | A |
| Carbon Tetrachloride | C |
| Chlorine | N |
| Chloroacetic Acid | C |
| Chloroform | C |
| Chromic Acid | C |
| Chromium Potassium Sulfate | B |
| Citric Acid | B |
| Corn Oil | A |
| Cottonseed Oil | A |
| Cresol | C |
| Crude Oil | B |
| Cupric Chloride | A |
| Cupric Nitrate | B |
| Cupric Sulfate | B |
| Cutting Oil | B |
| Cyclohexane | B |
| Cyclohexanone | C |
| Dibutyl Phthalate | C |
| Dichlorobenzene | C |
| Diesel Fuel | B |
| Diester Oil | B |
| Dimethyl Acetamide | C |
| Dimethyl Formamide | C |
| Dodecyl Mercaptan | B |
| DTE Oil | B |
| Dibutyl Ether | B |
| EP Lubes | A |
| Esso #90 Lube Oil | A |
| Ether | B |
| Ethyl Acetate | C |
| Ethyl Alcohol (Ethanol) | C |
| Formic Acid | C |
| Freon, 12 or 113 | A |
| Fuel Oil | B |
| Gasoline | B |
| Glucose | A |

| | |
|---|---|
| Glue | N |
| Glycerin | A |
| Heptane | A |
| Hexane | A |
| Hydrazine | C |
| Hydrobromic Acid | B |
| Hydrocarbon Oil | A |
| Hydrochloric Acid | B |
| Hydrofluoric Acid | B |
| Hydrogen | A |
| Hydrogen Peroxide | B |
| Hydrogen Sulfide | C |
| Hydrologic Acid | B |
| Iodine | A |
| Isobutyl Alcohol | N |
| Isopropyl Chloride | N |
| Isopropyl Ether | B |
| Isopropyl Alcohol (Propanol) | B |
| JP4 Oil | B |
| JP5 and 6 Oil | C |
| Kerosene | B |
| Lactic Acid | B |
| Lead Acetate | B |
| Linseed Oil | B |
| Liquefied Petroleum Gas | A |
| Lubrication Oil | B |
| Lye | N |
| Magnesium Chloride | N |
| Magnesium Hydroxide | A |
| Magnesium Salts | B |
| Malaic Acid | C |
| Mercury | B |
| Methyl Alcohol (methanol) | A |
| Methyl Ethyl Ketone | C |
| Methylene Chloride | C |
| MIL-D-5606 Oil | C |
| MIL-L-7808 Oil | B |
| Mineral Oil | A |
| Mineral Spirits | N |
| Naphthalene | B |
| Natural Gas | B |
| Nickel Salts | C |
| Oxygen | A |
| Ozone | A |
| Paimitic Acid | A |
| Paint Thinner | B |
| Peanut Oil | A |
| Perchloric Acid | C |
| Perchloroethylene | C |
| Petroleum | B |

| | |
|---|---|
| Phenol (carbolic acid) | C |
| Phosphoric Acid | C |
| Potassium Cyanide | A |
| Potassium Salts | B |
| Propane | B |
| Propyl Alcohol | B |
| Propylene Glycol | B |
| Pydraul Oil | C |
| SAE #10 Oil | A |
| Seawater | A |
| Silicic Acid | B |
| Silver Nitrate | B |
| Skydrol Oil | C |
| Soap | B |
| Sodium Acetate | A |
| Sodium Bicarbonate | B |
| Sodium Borate | B |
| Sodium Carbonate | B |
| Sodium Chloride | B |
| Sodium Cyanide | B |
| Sodium Hydrosulfite | B |
| Sodium Hydroxide | B |
| Sodium Hypochlorite | C |
| Sodium Nitrate | B |
| Sodium Silicate | A |
| Sodium Sulfate | B |
| Sodium Sulfide | B |
| Steam | C |
| Styrene | B |
| Sulfur Dioxide | B |
| Sulfuric Acid | C |
| Tannic Acid | A |
| Tartaric Acid | A |
| Toluene | C |
| Transformer Oil | B |
| Turpentine | C |
| Urea | B |
| Varnish | B |
| Water | B |

# Go-Flex® Coupling Installation Instructions

Please follow the step by step installation instructions to properly install Martin Go-Flex® Couplings:

**Required components:**

2 Hubs

1 Insert

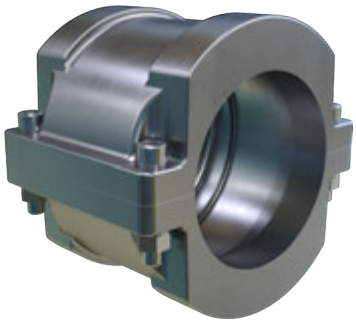
1 Cover with hardware: Identify what style cover you are using as this will determine the proper installation procedure.

**There are three types of covers (Figure 1**):

1. **Standard Cover (SD)**: for coupling sizes GF10 through GF70 a standard snap ring secures cover in place.
2. **Horizontal Split Cover (XP)**: It is a free floating cover that encapsulates the insert and the shoulder of both hubs. Each cover assembly comes with four socket head cap screws to secure the two halves together.
3. **Vertical Split Cover (VS):** GF20 through GF70 use eight bolts around the rim to secure the two halves together, GF80 through GF100 use 16 bolts with lock washers to secure the covers to one of the hubs.
4. **Horizontal/Vertical Split Cover (HS):** GF20 through GF70 use eight bolts around the rim to secure the 4 parts. Together, GF80 through GF100 use 16 bolts with lock washers to secure the covers to one of the hubs.

**Figure 1. Martin Go-Flex® covers and types**

**Standard Duty Cover**



**Horizontal Split Cover**

**Vertical Split Cover**

**Horizontal/Vertical Split Cover**

# Go-Flex® Coupling Installation Instructions

## Installation Instructions:

1. Confirm bore sizes of each coupling half and the corresponding shaft diameter to ensure that you have the proper bore size.
2. Ensure that the shafts are clean and free from burrs.
3. Verify cover style:
   - When using a **Standard Duty Cover (SD)**, it should be located on the driven shaft. If space is limited, then it can be mounted on the drive shaft. Slide snap ring first, then **Standard Duty Cover (SD)** with larger opening facing the shaft separation.
   - When using an **Horizontal Split Cover (XP)**, proceed to step 4.
   - When using a **Vertical Split Cover (VS)**, Install one cover half on each shaft with flange side facing the shaft separation prior to installing the hubs.
   - If using a **Vertical Split Cover (VS), GF70 or larger**, use bolts and washers to secure in place. Slide one bolt into place until installation is complete.
4. Installing the first hub: It should be mounted so that the end of the shaft is flush with surface A as shown in Figure 2. It is acceptable for the shaft to extend past A as long as it is not past the teeth shown as B.

   Please note: Standard hubs are supplied with a clearance fit and should slide onto the shaft without excessive force. If the hubs have been ordered with interference fit (shrink fit), then heat the coupling halves to approximately 572°F (300°C) before installing on shafts.
5. With the insert in place, install the second hub. This will help establish set the hubs at the minimum hub gap (E min) dimension to ensure proper clearance. Please see Table 1 on the next page for specific E min and E max dimensions.
6. Now ensure both hubs are securely tightened to the shafts.
7. Check coupling for misalignment and align as necessary. Please refer to page C-72 Martin Big Catalog for misalignment tolerances.
8. Installation of cover:
   - **Standard Duty Cover (SD)**: slide the cover over hub and insert until the step in the cover contacts the shoulder of the hub. Use snap ring pliers to slide snap ring over hub and into snap ring groove in hub to hold the cover in place for GF10 through GF60. GF70 and above use the bolts and washer to secure the cover to the hub. Reference Table 2 for recommended tightening torque..
   - **Horizontal Split Cover (HP)**: place each half over the insert and shoulder on hubs. Secure the two housing halves together by using the included hardware set supplied. Reference Table 2 for recommended tightening torque.
   - **Vertical Split Cover (VS):** slide the two cover halves over the hub and insert until faces meet. Install the radial outer bolts used to secure the two halves together. If cover uses a snap ring, use snap ring pliers to slide snap ring over hub and into snap ring groove in hub to hold the cover in place. For GF70 or larger, use bolts and washers to secure the cover to one hub. Reference Table 2 for recommended tightening torque.
   - **Horizontal/Vertical Split Cover (HS):** place each part around the hub and Install the radial outer bolts used to secure the parts together. If cover uses a snap ring, use snap ring pliers to slide snap ring over hub and into snap ring groove in hub to hold the cover in place. For GF70 or larger, use bolts and washers to secure the cover to one hub. Reference Table 2 for recommended tightening torque.

## Maximum RPM and Balance:

The Martin Go-Flex® Coupling inherently has good dynamic balance due to our manufacturing process. In high speed applications, it is important that the key used to attach hubs to shaft is the same length as the hub. The set screws should also be changed to full length to fill the hole. Please refer to Table 1 on the next page for maximum RPM ratings.

# Go-Flex® Coupling Installation Instructions

**Figure 2. Martin Go-Flex® shaft-to-hub alignment.**
See page C-72 for Misalignment Tolerances.

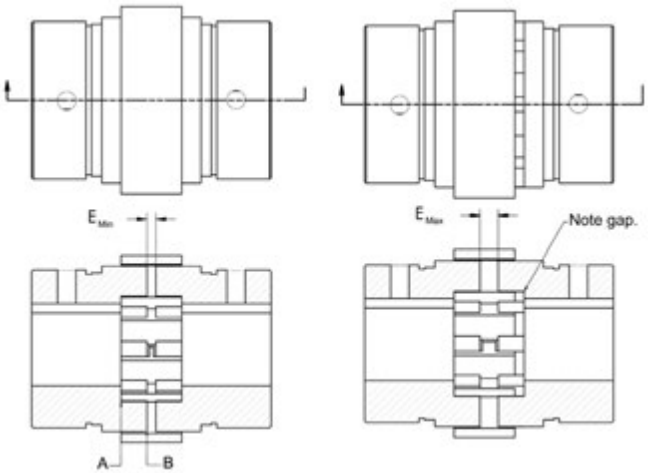



**Table 1. EMIN and EMAX Dimensions**

| Coupling Series | Maximum RPM* | Standard Split Cover | | Horizontal Split Cover | | Vertical and Horizontal/Vertical Split Covers | |
|---|---|---|---|---|---|---|---|
| | | EMIN | EMAX | EMIN | EMAX | EMIN | EMAX |
| GF10 | 4000 | 0.062 | 0.092 | — | — | — | — |
| GF20 | 4000 | 0.036 | 0.110 | 0.036 | 0.220 | 0.036 | 0.126 |
| GF30 | 4000 | 0.080 | 0.205 | 0.080 | 0.160 | 0.080 | 0.140 |
| GF40 | 4000 | 0.035 | 0.208 | 0.035 | 0.160 | 0.035 | 0.220 |
| GF50 | 4000 | 0.140 | 0.290 | 0.140 | 0.370 | 0.140 | 0.380 |
| GF60 | 4000 | 0.188 | 0.208 | 0.188 | 0.368 | 0.188 | 0.348 |
| GF70 | 3800 | 0.100 | 0.230 | 0.100 | 0.318 | 0.100 | 0.258 |
| GF80 | 3400 | 0.125 | 0.250 | 0.204 | 0.375 | 0.204 | 0.375 |
| GF90 | 3000 | 0.194 | 0.388 | — | — | 0.189 | 0.410 |
| GF100 | 2400 | 0.241 | 0.278 | — | — | 0.242 | 0.454 |
| GF110 | 2000 | 0.121 | 0.305 | — | — | 0.121 | 0.380 |
| GF120 | 1800 | 0.158 | 0.505 | — | — | 0.147 | 0.492 |

For applications over 4000 RPM, consult Martin.

**Table 2. Tightening Torque Chart**

| Coupling Size | Standard Split Cover | Horizontal Split Cover | Vertical and Horizontal/Vertical Split Covers | |
|---|---|---|---|---|
| | Cover Bolt Torque (in-lbs) | Cover Bolt Torque (in-lbs) | Cover Bolt Torque (in-lbs) | Cover Side Bolt Torque (in-lbs) |
| GF10 | Snap Ring | - | - | - |
| GF20 | Snap Ring | 300 | 150 | Snap Ring |
| GF30 | Snap Ring | 600 | 150 | Snap Ring |
| GF40 | Snap Ring | 1000 | 775 | Snap Ring |
| GF50 | Snap Ring | 1000 | 775 | Snap Ring |
| GF60 | Snap Ring | 2500 | 775 | Snap Ring |
| GF70 | 775 | 2500 | 775 | 775 |
| GF80 | 775 | 2500 | 1300 | 775 |
| GF90 | 775 | - | 1300 | 775 |
| GF100 | 1300 | - | 1300 | 1300 |
| GF110 | 1300 | - | 1300 | 1300 |
| GF120 | 1300 | - | 1300 | 1300 |

# BELT DRIVE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# Belt Drives

Martin v-belt sheaves meet the toughest demands of industry, while continuing the martin tradition of providing the utmost in service and maintaining unsurpassed manufacturing standards.

Totally committed to meeting the individual needs of customers, Martin Sprocket & Gear now serves the v-belt industry with extensive stock inventories, the capacity to meet large quantity requirements and the versatility to respond quickly to made-to-order applications.

## Nomenclature

### QD

| HI-CAP® WEDGE (Also Referred To As "Narrow") | | CONVENTIONAL (Also Referred To As "Classical") | |
|---|---|---|---|
| **2 3V 220 JA** | | **12 D 580 P** | |
| **2** | Number of Grooves | **12** | Number of Grooves |
| **3V** | Belt Cross Section | **D** | Belt Cross Section |
| **220** | 2.2" Outside Diameter | **580** | 58.0" Pitch Diameter |
| **JA** | Bushing Required | **P** | Bushing Required |

### Taper Bushed

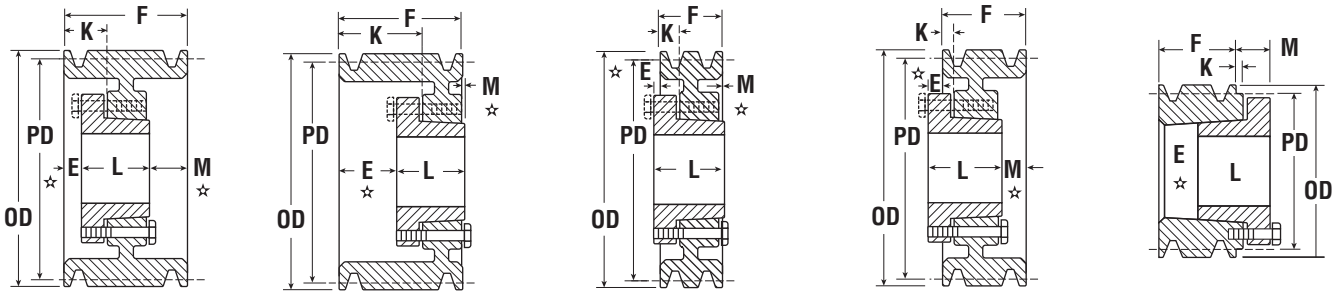
| HI-CAP® WEDGE (Also Referred To As "Narrow") | | CONVENTIONAL (Also Referred To As "Classical") | |
|---|---|---|---|
| **10 8V 5300 TB** | | **1 B 34 TB** | |
| **10** | Number of Grooves | **1** | Number of Grooves |
| **8V** | Belt Cross Section | **B** | Belt Cross Section |
| **5300** | 53" Outside Diameter | **34** | 3.4" Pitch Diameter (B-Belt) |
| **TB** | Taper Bushing Required | **TB** | Taper Bushing Required |

### MST®

| HI-CAP® WEDGE (Also Referred To As "Narrow") | | CONVENTIONAL (Also Referred To As "Classical") | |
|---|---|---|---|
| **6 5V 925 R** | | **3 C 110 Q** | |
| **6** | Number of Grooves | **3** | Number of Grooves |
| **5V** | Belt Cross Section | **C** | Belt Cross Section |
| **925** | 9.25" Outside Diameter | **110** | 11.0" Pitch Diameter (B-Belt) |
| **R** | Taper Bushing Required | **TQ** | Taper Bushing Required |

Call Martin for your made-to-order and large quantity requirements.

# Hi-Cap Wedge Stock QD Sheaves 3V




Type A Type B Type C Type D Type E

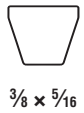
Dimensions for Martin sheaves are listed in the following tables with QD bushings in place. The type of sheave shown below is indicated by a letter, and the construction is indicated by a number, as shown on facing page.

## QD Sheaves – 3V

| 1 Groove* | | | | | | | | | | | 2 Grooves | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 11/16 | | | | | | | | | | | F = 1 3/32 | | | | | | | | |
| Part Number | OD | PD 3V Belt | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 1 3V 220 JA | 2.20 | 2.20 | E-1 | JA | 1.25 | .5625 | 0.4375 | 1 | 0.9375 | 0.7 | 2 3V 220 JA | E-1 | JA | 1.25 | 0.9688 | 0.4375 | 1 | 0.9375 | 0.9 |
| 1 3V 235 JA | 2.35 | 2.35 | E-1 | JA | 1.25 | 0.5625 | 0.4375 | 1 | 0.9375 | 0.8 | 2 3V 235 JA | E-1 | JA | 1.25 | 0.9688 | 0.4375 | 1 | 0.9375 | 1.0 |
| 1 3V 250 JA | 2.50 | 2.50 | E-1 | JA | 1.25 | 0.5625 | 0.4375 | 1 | 0.9375 | 0.8 | 2 3V 250 JA | E-1 | JA | 1.25 | 0.9688 | 0.4375 | 1 | 0.9375 | 1.2 |
| 1 3V 265 JA | 2.65 | 2.65 | C-1 | JA | 1.25 | 0.375 | 0.125 | 1 | – | 0.9 | 2 3V 265 JA | D-1 | JA | 1.25 | 0.375 | 0.125 | 1 | 0.4063 | 1.3 |
| 1 3V 280 JA | 2.80 | 2.80 | C-1 | JA | 1.25 | 0.375 | 0.125 | 1 | – | 0.9 | 2 3V 280 JA | D-1 | JA | 1.25 | 0.375 | 0.125 | 1 | 0.4063 | 1.4 |
| 1 3V 300 JA | 3 | 3 | C-1 | JA | 1.25 | 0.375 | 0.125 | 1 | – | 1.0 | 2 3V 300 JA | D-1 | JA | 1.25 | 0.375 | 0.125 | 1 | 0.4063 | 1.6 |
| 1 3V 315 JA | 3.15 | 3.15 | C-1 | JA | 1.25 | 0.375 | 0.125 | 1 | – | 1.0 | 2 3V 315 JA | D-1 | JA | 1.25 | 0.375 | 0.125 | 1 | 0.4063 | 1.8 |
| 1 3V 335 JA | 3.35 | 3.35 | C-1 | JA | 1.25 | 0.375 | 0.125 | 1 | – | 1.1 | 2 3V 335 SH | D-1 | SH | 1.6875 | 0.4219 | 0.1406 | 1.25 | 0.2031 | 2.0 |
| 1 3V 365 SH | 3.65 | 3.65 | D-1 | SH | 1.6875 | 0.5625 | – | 1.25 | 0.0625 | 1.3 | 2 3V 365 SH | D-1 | SH | 1.6875 | 0.4219 | 0.1406 | 1.25 | 0.2031 | 2.4 |
| 1 3V 412 SH | 4.12 | 4.12 | D-1 | SH | 1.6875 | 0.5625 | – | 1.25 | 0.0625 | 1.7 | 2 3V 412 SH | D-1 | SH | 1.6875 | 0.2813 | 0.2813 | 1.25 | 0.0625 | 2.7 |
| 1 3V 450 SH | 4.50 | 4.50 | D-2 | SH | 1.6875 | 0.5625 | – | 1.25 | 0.0625 | 2.1 | 2 3V 450 SH | D-1 | SH | 1.6875 | 0.25 | 0.3125 | 1.25 | 0.0313 | 2.9 |
| 1 3V 475 SH | 4.75 | 4.75 | D-2 | SH | 1.6875 | 0.5625 | – | 1.25 | 0.0625 | 2.5 | 2 3V 475 SH | D-1 | SH | 1.6875 | 0.25 | 0.3125 | 1.25 | 0.0313 | 3.1 |
| 1 3V 500 SH | 5 | 5 | D-2 | SH | 1.6875 | 0.5625 | – | 1.25 | 0.0625 | 2.8 | 2 3V 500 SH | D-1 | SH | 1.6875 | 0.25 | 0.3125 | 1.25 | 0.0313 | 3.6 |
| 1 3V 530 SH | 5.30 | 5.30 | D-2 | SH | 1.6875 | 0.5625 | – | 1.25 | 0.0625 | 3.2 | 2 3V 530 SH | D-1 | SH | 1.6875 | 0.25 | 0.3125 | 1.25 | 0.0313 | 4.5 |
| 1 3V 560 SH | 5.60 | 5.60 | D-2 | SH | 1.6875 | 0.5625 | – | 1.25 | 0.0625 | 3.2 | 2 3V 560 SH | D-1 | SH | 1.6875 | 0.25 | 0.3125 | 1.25 | 0.0313 | 5.0 |
| 1 3V 600 SH | 6 | 6 | D-2 | SH | 1.6875 | 0.5625 | – | 1.25 | 0.0625 | 3.5 | 2 3V 600 SH | D-1 | SH | 1.6875 | 0.25 | 0.3125 | 1.25 | 0.0313 | 5.5 |
| 1 3V 650 SH | 6.50 | 6.50 | D-3 | SH | 1.6875 | 0.5625 | – | 1.25 | 0.0625 | 3.9 | 2 3V 650 SDS | D-3 | SDS | 2 | 0.3125 | 0.3125 | 1.315 | 0.0313 | 5.8 |
| 1 3V 690 SH | 6.90 | 6.90 | D-3 | SH | 1.6875 | 0.5625 | – | 1.25 | 0.0625 | 4.5 | 2 3V 690 SDS | D-3 | SDS | 2 | 0.3125 | 0.3125 | 1.315 | 0.0313 | 6.6 |
| 1 3V 800 SDS | 8 | 8 | C-3 | SDS | 2 | 0.625 | – | 1.315 | – | 5.5 | 2 3V 800 SDS | D-3 | SDS | 2 | 0.3125 | 0.3125 | 1.315 | 0.0313 | 7.0 |
| 1 3V 1060 SDS | 10.60 | 10.60 | C-3 | SDS | 2 | 0.625 | – | 1.315 | – | 8.0 | 2 3V 1060 SK | C-3 | SK | 2.625 | 0.4375 | 0.25 | 1.875 | 0.4063 | 10.0 |
| 1 3V 1400 SK | 14 | 14 | C-3 | SK | 2.625 | 0.6875 | – | 1.875 | – | 13.5 | 2 3V 1400 SK | C-3 | SK | 2.625 | 0.4375 | 0.25 | 1.875 | 0.4063 | 16.0 |
| 1 3V 1900 SK | 19 | 19 | C-3 | SK | 2.625 | 0.6875 | – | 1.875 | – | 17.0 | 2 3V 1900 SK | C-3 | SK | 2.625 | 0.4375 | 0.25 | 1.875 | 0.4063 | 25.0 |
| – | 25 | 25 | – | – | – | – | – | – | – | – | 2 3V 2500 SF | C-3 | SF | 2.9375 | 0.4375 | 0.25 | 2 | 0.5313 | 28.0 |

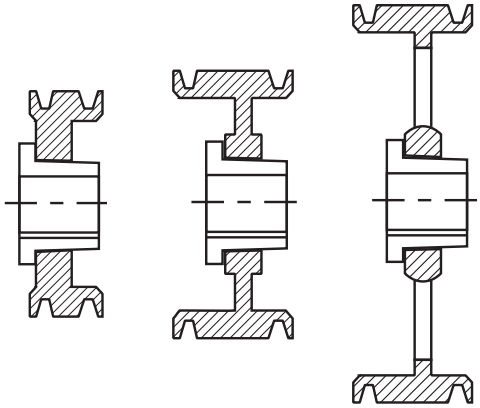
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
* F = 0.75" for 1 3V 800 SDS and 1 3V 1060 SDS, F = 13/16" for 1 3V 1400 SK and 1 3V 1900 SK.
★ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

# 3V Hi-Cap Wedge Stock QD Sheaves



3/8 × 5/16

**3V**



**1 = Solid** **2 = Web** **3 = Arm/Spoke**

Let Martin quote your made-to-order and large quantity requirements.

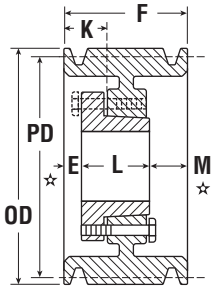
## QD Sheaves – 3V

| 3 Grooves | | | | | | | | | | | 4 Grooves | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 1 ½ | | | | | | | | | | | F = 1 29/32 | | | | | | | | |
| Part Number | OD | PD 3V Belt | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 3 3V 250 JA | 2.50 | 2.50 | E-1 | JA | 1.25 | 1.625 | 0.4375 | 1 | 0.9375 | 1.6 | – | – | – | – | – | – | – | – | – |
| 3 3V 265 JA | 2.65 | 2.65 | D-1 | JA | 1.25 | 0.375 | 0.125 | 1 | 0.8125 | 1.8 | 4 3V 265 JA | D-1 | JA | 1.250 | 0.375 | 0.125 | 1 | 1.2188 | 1.3 |
| 3 3V 280 JA | 2.80 | 2.80 | D-1 | JA | 1.25 | 0.375 | 0.125 | 1 | 0.8125 | 2.0 | 4 3V 280 JA | D-1 | JA | 1.250 | 0.375 | 0.125 | 1 | 1.2188 | 1.6 |
| 3 3V 300 SH | 3 | 3 | E-1 | SH | 1.6875 | 1.0625 | - | 1.25 | 0.5625 | 2.2 | 4 3V 300 SH | E-1 | SH | 1.6875 | 1.4688 | 0.3125 | 1.25 | 0.875 | 1.9 |
| 3 3V 315 SH | 3.15 | 3.15 | E-1 | SH | 1.6875 | 1.0625 | 0.3125 | 1.25 | 0.875 | 2.5 | 4 3V 315 SH | E-1 | SH | 1.6875 | 1.4688 | 0.3125 | 1.25 | 0.875 | 2.2 |
| 3 3V 335 SH | 3.35 | 3.35 | D-1 | SH | 1.6875 | 0.4375 | 0.125 | 1.25 | 0.625 | 2.8 | 4 3V 335 SH | D-1 | SH | 1.6875 | 0.4375 | 0.125 | 1.25 | 1.0313 | 2.5 |
| 3 3V 365 SH | 3.65 | 3.65 | D-1 | SH | 1.6875 | 0.4375 | 0.125 | 1.25 | 0.625 | 3.0 | 4 3V 365 SH | D-1 | SH | 1.6875 | 0.4375 | 0.125 | 1.25 | 1.0313 | 2.8 |
| 3 3V 412 SH | 4.12 | 4.12 | A-1 | SH | 1.6875 | 0.125 | 0.6875 | 1.25 | 0.0625 | 3.3 | 4 3V 412 SH | A-1 | SH | 1.6875 | 0.25 | 0.8125 | 1.25 | 0.3438 | 3.2 |
| 3 3V 450 SDS | 4.50 | 4.50 | A-1 | SDS | 2 | 0.0625 | 0.6875 | 1.315 | 0.0625 | 3.5 | 4 3V 450 SDS | A-1 | SDS | 2 | 0.1875 | 0.8125 | 1.315 | 0.3438 | 3.5 |
| 3 3V 475 SDS | 4.75 | 4.75 | A-1 | SDS | 2 | 0.0625 | 0.6875 | 1.315 | 0.0625 | 3.7 | 4 3V 475 SDS | A-1 | SDS | 2 | 0.1875 | 0.8125 | 1.315 | 0.3438 | 4.0 |
| 3 3V 500 SDS | 5 | 5 | A-1 | SDS | 2 | 0.0625 | 0.6875 | 1.315 | 0.0625 | 4.0 | 4 3V 500 SDS | A-1 | SDS | 2 | 0.1875 | 0.8125 | 1.315 | 0.3438 | 4.5 |
| 3 3V 530 SDS | 5.30 | 5.30 | A-1 | SDS | 2 | 0.0625 | 0.6875 | 1.315 | 0.0625 | 4.3 | 4 3V 530 SDS | A-1 | SDS | 2 | 0.1875 | 0.8125 | 1.315 | 0.3438 | 5.0 |
| 3 3V 560 SDS | 5.60 | 5.60 | A-1 | SDS | 2 | 0.0625 | 0.6875 | 1.315 | 0.0625 | 4.9 | 4 3V 560 SDS | A-1 | SDS | 2 | 0.1875 | 0.8125 | 1.315 | 0.3438 | 5.7 |
| 3 3V 600 SDS | 6 | 6 | A-1 | SDS | 2 | 0.0625 | 0.6875 | 1.315 | 0.0625 | 5.9 | 4 3V 600 SK | D-1 | SK | 2.625 | 0.0625 | 0.625 | 1.875 | 0.0313 | 7.5 |
| 3 3V 650 SDS | 6.50 | 6.50 | A-3 | SDS | 2 | 0.0625 | 0.6875 | 1.315 | 0.0625 | 6.3 | 4 3V 650 SK | A-1 | SK | 2.625 | 0.0625 | 0.625 | 1.875 | 0.0313 | 8.0 |
| 3 3V 690 SDS | 6.90 | 6.90 | A-3 | SDS | 2 | 0.0625 | 0.6875 | 1.315 | 0.0625 | 6.8 | 4 3V 690 SK | A-1 | SK | 2.625 | 0.0625 | 0.625 | 1.875 | 0.0313 | 10.0 |
| 3 3V 800 SK | 8 | 8 | C-2 | SK | 2.625 | 0.4375 | 0.25 | 1.875 | – | 10.6 | 4 3V 800 SK | D-2 | SK | 2.625 | 0.0625 | 0.625 | 1.875 | 0.0313 | 12.0 |
| 3 3V 1060 SK | 10.60 | 10.60 | C-3 | SK | 2.625 | 0.4375 | 0.25 | 1.875 | – | 12.0 | 4 3V 1060 SK | D-3 | SK | 2.625 | 0.0625 | 0.625 | 1.875 | 0.0313 | 16.0 |
| 3 3V 1400 SK | 14 | 14 | C-3 | SK | 2.625 | 0.4375 | 0.25 | 1.875 | – | 20.0 | 4 3V 1400 SK | D-3 | SK | 2.625 | 0.0625 | 0.625 | 1.875 | 0.0313 | 22.0 |
| 3 3V 1900 SF | 19 | 19 | C-3 | SF | 2.9375 | 0.4375 | 0.25 | 2 | 0.125 | 33.0 | 4 3V 1900 SF | C-3 | SF | 2.9375 | 0.0625 | 0.625 | 2 | 0.0938 | 37.0 |
| 3 3V 2500 SF | 25 | 25 | C-3 | SF | 2.9375 | 0.4375 | 0.25 | 2 | 0.125 | 45.0 | 4 3V 2500 SF | C-3 | SF | 2.9375 | 0.0625 | 0.625 | 2 | 0.0938 | 53.0 |
| 3 3V 3350 SF | 33.50 | 33.50 | C-3 | SF | 2.9375 | 0.4375 | 0.25 | 2 | 0.125 | 75.0 | 4 3V 3350 E | C-3 | E | 3.5 | 0.375 | 0.5 | 2.625 | 0.3438 | 80.0 |

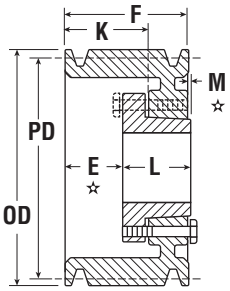
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.

★ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

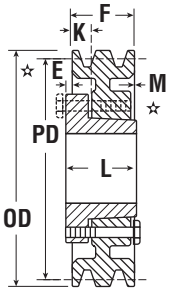
# Hi-Cap Wedge Stock QD Sheaves 3V



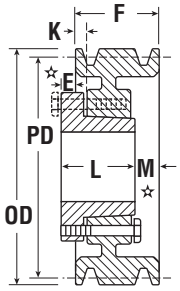
Type A



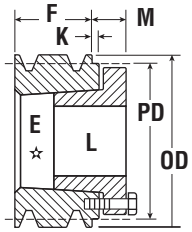
Type B



Type C



Type D



Type E

## QD Sheaves – 3V

| 5 Grooves* | | | | | | | | | | | 6 Grooves | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 2 5/16 | | | | | | | | | | | F = 2 23/32 | | | | | | | | |
| Part Number | OD | PD 3V Belt | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 5 3V 475 SDS | 4.75 | 4.75 | A-2 | SDS | 2 | 0.1875 | 0.8125 | 1.315 | 0.75 | 4.5 | 6 3V 475 SK | D-1 | SK | 2.625 | 0.5625 | 0.125 | 1.815 | 1.3438 | 6.0 |
| 5 3V 500 SDS | 5 | 5 | A-2 | SDS | 2 | 0.1875 | 0.8125 | 1.315 | 0.75 | 5.3 | 6 3V 500 SK | D-1 | SK | 2.625 | 0.5625 | 0.125 | 1.815 | 1.3438 | 6.5 |
| 5 3V 530 SK | 5.30 | 5.30 | A-1 | SK | 2.625 | 0.25 | 0.9375 | 1.815 | 0.125 | 5.8 | 6 3V 530 SK | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.815 | 0.1563 | 6.8 |
| 5 3V 560 SK | 5.60 | 5.60 | A-1 | SK | 2.625 | 0.25 | 0.9375 | 1.815 | 0.125 | 7.0 | 6 3V 560 SK | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.815 | 0.1563 | 8.0 |
| 5 3V 600 SK | 6 | 6 | A-1 | SK | 2.625 | 0.25 | 0.9375 | 1.815 | 0.125 | 8.3 | 6 3V 600 SK | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.815 | 0.1563 | 9.0 |
| 5 3V 650 SK | 6.50 | 6.50 | A-1 | SK | 2.625 | 0.25 | 0.9375 | 1.815 | 0.125 | 9.0 | 6 3V 650 SK | A-2 | SK | 2.625 | 0.625 | 1.3125 | 1.815 | 0.1563 | 10.0 |
| 5 3V 690 SK | 6.90 | 6.90 | A-1 | SK | 2.625 | 0.25 | 0.9375 | 1.815 | 0.125 | 12.0 | 6 3V 690 SK | A-2 | SK | 2.625 | 0.625 | 1.3125 | 1.815 | 0.1563 | 11.5 |
| 5 3V 800 SK | 8 | 8 | A-2 | SK | 2.625 | 0.25 | 0.9375 | 1.815 | 0.125 | 13.0 | 6 3V 800 SK | A-2 | SK | 2.625 | 0.1875 | 0.875 | 1.815 | 0.5938 | 17.0 |
| 5 3V 1060 SK | 10.60 | 10.60 | A-3 | SK | 2.625 | 0.25 | 0.9375 | 1.815 | 0.125 | 17.0 | 6 3V 1060 SF | A-2 | SF | 2.9375 | 0.1875 | 0.875 | 2 | 0.4688 | 25.0 |
| 5 3V 1400 SF | 14 | 14 | A-3 | SK | 2.9375 | 0.1875 | 0.875 | 2 | 0.0625 | 27.0 | 6 3V 1400 SF | A-3 | SF | 2.9375 | 0.1875 | 0.875 | 2 | 0.4688 | 34.0 |
| 5 3V 1900 SF | 19 | 19 | A-3 | SK | 2.9375 | 0.1875 | 0.875 | 2 | 0.0625 | 40.0 | 6 3V 1900 E | B-3 | E | 3.5 | 0.125 | 1 | 2.625 | 0.0313 | 45.0 |
| 5 3V 2500 E | 25 | 25 | C-3 | E | 3.5 | 0.25 | 0.625 | 2.625 | 0.0625 | 69.0 | 6 3V 2500 E | B-3 | E | 3.5 | 0.125 | 1 | 2.625 | 0.0313 | 75.0 |
| 5 3V 3350 E | 33.50 | 33.50 | C-3 | E | 3.5 | 0.25 | 0.625 | 2.625 | 0.0625 | 97.0 | 6 3V 3350 E | B-3 | E | 3.5 | 0.125 | 1 | 2.625 | 0.0313 | 98.0 |

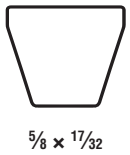
## QD Sheaves – 3V

| 8 Grooves* | | | | | | | | | | | 10 Grooves | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 3 17/32 | | | | | | | | | | | F = 4 11/32 | | | | | | | | |
| Part Number | OD | PD 3V Belt | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 8 3V 475 SK | 4.75 | 4.75 | D-1 | SK | 2.625 | 0.5625 | 0.125 | 1.815 | 2.1563 | 6.0 | 10 3V 475 SK | D-1 | SK | 2.625 | 0.5625 | 0.125 | 1.815 | 2.9688 | 7.0 |
| 8 3V 500 SK | 5 | 5 | D-1 | SK | 2.625 | 0.5625 | 0.125 | 1.815 | 2.1563 | 6.9 | 10 3V 500 SK | D-1 | SK | 2.625 | 0.5625 | 0.125 | 1.815 | 2.9688 | 8.6 |
| 8 3V 530 SK | 5.30 | 5.30 | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.815 | 0.9688 | 7.8 | 10 3V 530 SK | A-1 | SK | 2.625 | 0.75 | 1.4375 | 1.815 | 1.6563 | 9.0 |
| 8 3V 560 SK | 5.60 | 5.60 | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.815 | 0.9688 | 9.0 | 10 3V 560 SK | A-1 | SK | 2.625 | 0.75 | 1.4375 | 1.815 | 1.6563 | 10.0 |
| 8 3V 600 SK | 6 | 6 | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.815 | 0.9688 | 10.0 | 10 3V 600 SK | A-1 | SK | 2.625 | 0.75 | 1.4375 | 1.815 | 1.6563 | 11.0 |
| 8 3V 650 SK | 6.50 | 6.50 | A-2 | SK | 2.625 | 0.625 | 1.3125 | 1.815 | 0.9688 | 12.9 | 10 3V 650 SK | A-2 | SK | 2.625 | 0.75 | 1.4375 | 1.815 | 1.6563 | 14.0 |
| 8 3V 690 SK | 6.90 | 6.90 | A-2 | SK | 2.625 | 0.625 | 1.3125 | 1.815 | 0.9688 | 14.0 | 10 3V 690 SK | A-2 | SK | 2.625 | 0.75 | 1.4375 | 1.815 | 1.6563 | 16.0 |
| 8 3V 800 SF | 8 | 8 | A-1 | SF | 2.9375 | 0.4375 | 1.125 | 2 | 1.0313 | 20.0 | 10 3V 800 SF | A-1 | SF | 2.9375 | 0.8125 | 1.5 | 2 | 1.4688 | 22.0 |
| 8 3V 1060 SF | 10.60 | 10.60 | A-2 | SF | 2.9375 | 0.4375 | 1.125 | 2 | 1.0313 | 28.0 | 10 3V 1060 E | A-2 | E | 3.5 | 0.375 | 1.25 | 2.625 | 1.3438 | 33.0 |
| 8 3V 1400 E | 14 | 14 | A-3 | E | 3.5 | 0.375 | 1.25 | 2.625 | 0.5313 | 40.0 | 10 3V 1400 E | A-3 | E | 3.5 | 0.375 | 1.25 | 2.625 | 1.3438 | 43.0 |
| 8 3V 1900 E | 19 | 19 | A-3 | E | 3.5 | 0.375 | 1.25 | 2.625 | 0.5313 | 62.0 | 10 3V 1900 E | A-3 | E | 3.5 | 0.375 | 1.25 | 2.625 | 1.3438 | 66.0 |
| 8 3V 2500 E | 25 | 25 | A-3 | E | 3.5 | 0.375 | 1.25 | 2.625 | 0.5313 | 87.0 | 10 3V 2500 F | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 0.4063 | 98.0 |
| 8 3V 3350 F | 33.50 | 33.50 | B-3 | F | 3.9375 | 0.0625 | 1.0625 | 3.625 | 0.1563 | 152.0 | 10 3V 3350 F | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 0.4063 | 178.0 |

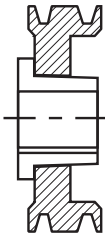
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.

★ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

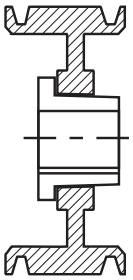
# 5V Hi-Cap Wedge Stock QD Sheaves



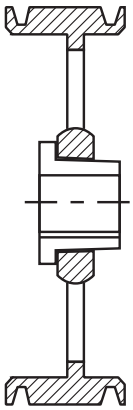

**5V**



**1 = Solid**



**2 = Web**



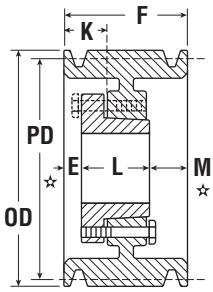
**3 = Arm/Spoke**

## QD Sheaves – 5V

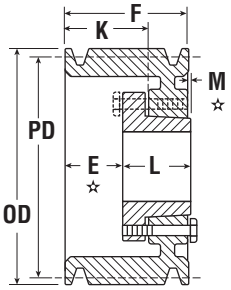
| 2 Grooves F = 1 11/16 | | | | | | | | | | | 3 Grooves F = 2 3/8 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD 5V Belt | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 2 5V 440 SH | 4.40 | 4.40 | A-1 | SH | 1.6875 | 0.3125 | 0.875 | 1.25 | 0.0625 | 4.0 | 3 5V 440 SDS | E-1 | SDS | 2 | 1.625 | – | 1.315 | 0.625 | 5.5 |
| 2 5V 465 SDS | 4.65 | 4.65 | A-1 | SDS | 2 | 0.9375 | – | 1.315 | 0.625 | 4.5 | 3 5V 465 SDS | E-1 | SDS | 2 | 1.625 | – | 1.315 | 0.625 | 6.5 |
| 2 5V 490 SDS | 4.90 | 4.90 | A-1 | SDS | 2 | 0.0625 | 0.6875 | 1.315 | 0.25 | 5.0 | 3 5V 490 SDS | A-1 | SDS | 2 | 0.4375 | 1.0625 | 1.315 | 0.5625 | 7.0 |
| 2 5V 520 SDS | 5.20 | 5.20 | A-1 | SDS | 2 | 0.0625 | 0.6875 | 1.315 | 0.25 | 5.5 | 3 5V 520 SDS | A-1 | SDS | 2 | 0.4375 | 1.0625 | 1.315 | 0.5625 | 7.5 |
| 2 5V 550 SDS | 5.5 | 5.5 | A-1 | SDS | 2 | 0.0625 | 0.6875 | 1.315 | 0.25 | 6.0 | 3 5V 550 SDS | A-1 | SDS | 2 | 0.4375 | 1.0625 | 1.315 | 0.5625 | 8.0 |
| 2 5V 590 SDS | 5.90 | 5.90 | A-1 | SDS | 2 | 0.0625 | 0.6875 | 1.315 | 0.25 | 7.0 | 3 5V 590 SDS | A-1 | SDS | 2 | 0.4375 | 1.0625 | 1.315 | 0.5625 | 8.5 |
| 2 5V 630 SK | 6.30 | 6.30 | C-1 | SK | 2.625 | 0.25 | 0.4375 | 1.875 | – | 8.0 | 3 5V 630 SK | A-1 | SK | 2.625 | 0.375 | 1.0625 | 1.875 | 0.0625 | 11.0 |
| 2 5V 670 SK | 6.70 | 6.70 | C-1 | SK | 2.625 | 0.25 | 0.4375 | 1.875 | – | 10.0 | 3 5V 670 SK | A-1 | SK | 2.625 | 0.375 | 1.0625 | 1.875 | 0.0625 | 11.5 |
| 2 5V 710 SK | 7.10 | 7.10 | C-1 | SK | 2.625 | 0.25 | 0.4375 | 1.875 | – | 11.0 | 3 5V 710 SF | A-1 | SF | 2.9375 | 0.3125 | 1 | 2 | – | 13.0 |
| 2 5V 750 SK | 7.5 | 7.5 | C-1 | SK | 2.625 | 0.25 | 0.4375 | 1.875 | – | 13.0 | 3 5V 750 SF | A-1 | SF | 2.9375 | 0.3125 | 1 | 2 | – | 14.0 |
| 2 5V 800 SK | 8 | 8 | C-1 | SK | 2.625 | 0.25 | 0.4375 | 1.875 | – | 14.0 | 3 5V 800 SF | A-1 | SF | 2.9375 | 0.3125 | 1 | 2 | – | 15.0 |
| 2 5V 850 SK | 8.5 | 8.5 | C-1 | SK | 2.625 | 0.25 | 0.4375 | 1.875 | – | 15.0 | 3 5V 850 SF | A-1 | SF | 2.9375 | 0.3125 | 1 | 2 | – | 16.0 |
| 2 5V 900 SK | 9 | 9 | C-2 | SK | 2.625 | 0.25 | 0.4375 | 1.875 | – | 16.0 | 3 5V 900 SF | A-2 | SF | 2.9375 | 0.3125 | 1 | 2 | – | 17.0 |
| 2 5V 925 SK | 9.25 | 9.25 | C-2 | SK | 2.625 | 0.25 | 0.4375 | 1.875 | – | 16.5 | 3 5V 925 SF | A-2 | SF | 2.9375 | 0.3125 | 1 | 2 | – | 18.0 |
| 2 5V 975 SK | 9.75 | 9.75 | C-3 | SK | 2.625 | 0.25 | 0.4375 | 1.875 | – | 17.0 | 3 5V 975 SF | A-2 | SF | 2.9375 | 0.3125 | 1 | 2 | – | 19.0 |
| 2 5V 1030 SK | 10.30 | 10.30 | C-3 | SK | 2.625 | 0.25 | 0.4375 | 1.875 | – | 18.0 | 3 5V 1030 SF | A-2 | SF | 2.9375 | 0.3125 | 1 | 2 | – | 22.0 |
| 2 5V 1090 SK | 10.90 | 10.90 | C-3 | SK | 2.625 | 0.25 | 0.4375 | 1.875 | – | 19.0 | 3 5V 1090 SF | A-2 | SF | 2.9375 | 0.3125 | 1 | 2 | – | 25.0 |
| 2 5V 1130 SK | 11.30 | 11.30 | C-3 | SK | 2.625 | 0.25 | 0.4375 | 1.875 | – | 19.5 | 3 5V 1130 SF | A-2 | SF | 2.9375 | 0.3125 | 1 | 2 | – | 25.0 |
| 2 5V 1180 SK | 11.80 | 11.80 | C-3 | SK | 2.625 | 0.25 | 0.4375 | 1.875 | – | 20.0 | 3 5V 1180 SF | A-2 | SF | 2.9375 | 0.3125 | 1 | 2 | – | 29.0 |
| 2 5V 1250 SF | 12.5 | 12.5 | C-3 | SF | 2.9375 | 0.25 | 0.4375 | 2 | 0.125 | 25.0 | 3 5V 1250 E | C-2 | E | 3.5 | 0.125 | 0.75 | 2.625 | 0.125 | 32.0 |
| 2 5V 1320 SF | 13.20 | 13.20 | C-3 | SF | 2.9375 | 0.25 | 0.4375 | 2 | 0.125 | 27.0 | 3 5V 1320 E | C-3 | E | 3.5 | 0.125 | 0.75 | 2.625 | 0.125 | 38.0 |
| 2 5V 1400 SF | 14 | 14 | C-3 | SF | 2.9375 | 0.25 | 0.4375 | 2 | 0.125 | 28.0 | 3 5V 1400 E | C-3 | E | 3.5 | 0.125 | 0.75 | 2.625 | 0.125 | 43.0 |
| 2 5V 1500 SF | 15 | 15 | C-3 | SF | 2.9375 | 0.25 | 0.4375 | 2 | 0.125 | 30.0 | 3 5V 1500 E | C-3 | E | 3.5 | 0.125 | 0.75 | 2.625 | 0.125 | 44.0 |
| 2 5V 1600 SF | 16 | 16 | C-3 | SF | 2.9375 | 0.25 | 0.4375 | 2 | 0.125 | 34.0 | 3 5V 1600 E | C-3 | E | 3.5 | 0.125 | 0.75 | 2.625 | 0.125 | 46.0 |
| 2 5V 1870 SF | 18.70 | 18.70 | C-3 | SF | 2.9375 | 0.25 | 0.4375 | 2 | 0.125 | 49.0 | 3 5V 1870 E | C-3 | E | 3.5 | 0.125 | 0.75 | 2.625 | 0.125 | 60.0 |
| 2 5V 2120 SF | 21.20 | 21.20 | C-3 | SF | 2.9375 | 0.25 | 0.4375 | 2 | 0.125 | 50.0 | 3 5V 2120 E | C-3 | E | 3.5 | 0.125 | 0.75 | 2.625 | 0.125 | 68.0 |
| 2 5V 2360 E | 23.60 | 23.60 | C-3 | E | 3.5 | 0.625 | 0.25 | 2.625 | 0.3125 | 72.0 | 3 5V 2360 E | C-3 | E | 3.5 | 0.125 | 0.75 | 2.625 | 0.125 | 80.0 |
| 2 5V 2800 E | 28 | 28 | C-3 | E | 3.5 | 0.625 | 0.25 | 2.625 | 0.3125 | 80.0 | 3 5V 2800 E | C-3 | E | 3.5 | 0.125 | 0.75 | 2.625 | 0.125 | 92.0 |
| – | 31.5 | 31.5 | – | – | – | – | – | – | – | – | 3 5V 3150 F | C-3 | F | 3.9375 | 0.4375 | 0.5625 | 3.625 | 0.8125 | 136.0 |
| – | 37.5 | 37.5 | – | – | – | – | – | – | – | – | 3 5V 3750 F | C-3 | F | 3.9375 | 0.4375 | 0.5625 | 3.625 | 0.8125 | 156.0 |
| – | 50 | 50 | – | – | – | – | – | – | – | – | 3 5V 5000 F | C-3 | F | 3.9375 | 0.4375 | 0.5625 | 3.625 | 0.8125 | 210.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
★ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

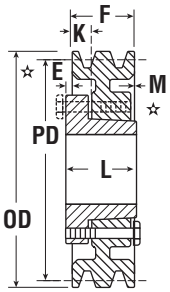
# Hi-Cap Wedge Stock QD Sheaves 5V



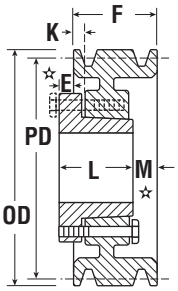

Type A



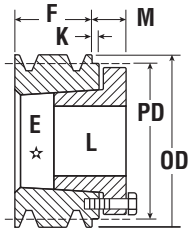

Type B




Type C




Type D



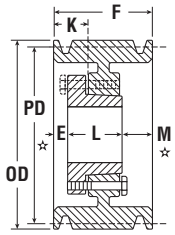

Type E

## QD Sheaves – 5V

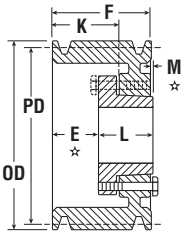
| 4 Grooves F = 3 1/16 | | | | | | | | | | | 5 Grooves F = 3 3/4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD 5V Belt | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 4 5V 440 SD | 4.40 | 4.40 | E-1 | SD | 2 | 1.875 | – | 1.815 | 0.625 | 5.0 | 5 5V 440 SD | E-1 | SD | 2 | 2.5625 | - | 1.8125 | 0.625 | 6.0 |
| 4 5V 465 SD | 4.65 | 4.65 | E-1 | SD | 2 | 1.875 | – | 1.815 | 0.625 | 6.0 | 5 5V 465 SD | E-1 | SD | 2 | 2.5625 | 1.3125 | 1.8125 | 0.625 | 7.0 |
| 4 5V 490 SD | 4.90 | 4.90 | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.815 | 0.5625 | 7.0 | 5 5V 490 SD | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.8125 | 1.25 | 8.0 |
| 4 5V 520 SD | 5.20 | 5.20 | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.815 | 0.5625 | 8.0 | 5 5V 520 SD | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.8125 | 1.25 | 9.0 |
| 4 5V 550 SD | 5.5 | 5.5 | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.815 | 0.5625 | 9.0 | 5 5V 550 SD | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.8125 | 1.25 | 10.0 |
| 4 5V 590 SD | 5.90 | 5.90 | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.815 | 0.5625 | 10.8 | 5 5V 590 SK | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.9375 | 1.1875 | 11.0 |
| 4 5V 630 SK | 6.30 | 6.30 | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.875 | 0.5 | 12.0 | 5 5V 630 SK | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.9375 | 1.1875 | 12.0 |
| 4 5V 670 SK | 6.70 | 6.70 | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.875 | 0.5 | 14.0 | 5 5V 670 SF | A-1 | SF | 2.9375 | 0.625 | 1.3125 | 2.0625 | 1.0625 | 13.0 |
| 4 5V 710 SF | 7.10 | 7.10 | A-1 | SF | 2.9375 | 0.375 | 1.0625 | 2 | 0.625 | 15.0 | 5 5V 710 SF | A-1 | SF | 2.9375 | 0.6875 | 1.375 | 2.0625 | 1 | 14.0 |
| 4 5V 750 SF | 7.5 | 7.5 | A-1 | SF | 2.9375 | 0.375 | 1.0625 | 2 | 0.625 | 16.0 | 5 5V 750 SF | A-1 | SF | 2.9375 | 0.6875 | 1.375 | 2.0625 | 1 | 16.0 |
| 4 5V 800 E | 8 | 8 | B-1 | E | 3.5 | 0.5625 | 1.4375 | 2.625 | 0.125 | 19.0 | 5 5V 800 E | A-1 | E | 3.5 | 0.875 | 1.75 | 2.625 | 0.25 | 19.0 |
| 4 5V 850 E | 8.5 | 8.5 | B-1 | E | 3.5 | 0.5625 | 1.4375 | 2.625 | 0.125 | 23.0 | 5 5V 850 E | A-1 | E | 3.5 | 0.875 | 1.75 | 2.625 | 0.25 | 22.0 |
| 4 5V 900 E | 9 | 9 | B-1 | E | 3.5 | 0.5625 | 1.4375 | 2.625 | 0.125 | 25.0 | 5 5V 900 E | A-1 | E | 3.5 | 0.875 | 1.75 | 2.625 | 0.25 | 26.0 |
| 4 5V 925 E | 9.25 | 9.25 | B-1 | E | 3.5 | 0.5625 | 1.4375 | 2.625 | 0.125 | 26.0 | 5 5V 925 E | A-1 | E | 3.5 | 0.875 | 1.75 | 2.625 | 0.25 | 28.0 |
| 4 5V 975 E | 9.75 | 9.75 | B-1 | E | 3.5 | 0.5625 | 1.4375 | 2.625 | 0.125 | 28.0 | 5 5V 975 E | A-1 | E | 3.5 | 0.875 | 1.75 | 2.625 | 0.25 | 30.0 |
| 4 5V 1030 E | 10.30 | 10.30 | B-1 | E | 3.5 | 0.5625 | 1.4375 | 2.625 | 0.125 | 30.0 | 5 5V 1030 E | A-1 | E | 3.5 | 0.875 | 1.75 | 2.625 | 0.25 | 33.0 |
| 4 5V 1090 E | 10.90 | 10.90 | B-2 | E | 3.5 | 0.5625 | 1.4375 | 2.625 | 0.125 | 39.0 | 5 5V 1090 E | A-1 | E | 3.5 | 0.875 | 1.75 | 2.625 | 0.25 | 41.0 |
| 4 5V 1130 E | 11.30 | 11.30 | B-2 | E | 3.5 | 0.5625 | 1.4375 | 2.625 | 0.125 | 40.0 | 5 5V 1130 E | A-1 | E | 3.5 | 0.875 | 1.75 | 2.625 | 0.25 | 42.0 |
| 4 5V 1180 E | 11.80 | 11.80 | B-2 | E | 3.5 | 0.5625 | 1.4375 | 2.625 | 0.125 | 41.0 | 5 5V 1180 E | A-1 | E | 3.5 | 0.875 | 1.75 | 2.625 | 0.25 | 44.0 |
| 4 5V 1250 E | 12.5 | 12.5 | B-3 | E | 3.5 | 0.5625 | 1.4375 | 2.625 | 0.125 | 43.0 | 5 5V 1250 E | A-3 | E | 3.5 | 0.875 | 1.75 | 2.625 | 0.25 | 45.0 |
| 4 5V 1320 E | 13.20 | 13.20 | B-3 | E | 3.5 | 0.5625 | 1.4375 | 2.625 | 0.125 | 45.0 | 5 5V 1320 E | A-3 | E | 3.5 | 0.875 | 1.75 | 2.625 | 0.25 | 46.0 |
| 4 5V 1400 E | 14 | 14 | B-3 | E | 3.5 | 0.5625 | 1.4375 | 2.625 | 0.125 | 46.0 | 5 5V 1400 E | A-3 | E | 3.5 | 0.875 | 1.75 | 2.625 | 0.25 | 47.0 |
| 4 5V 1500 E | 15 | 15 | B-3 | E | 3.5 | 0.5625 | 1.4375 | 2.625 | 0.125 | 47.0 | 5 5V 1500 E | A-3 | E | 3.5 | 0.875 | 1.75 | 2.625 | 0.25 | 53.0 |
| 4 5V 1600 E | 16 | 16 | B-3 | E | 3.5 | 0.5625 | 1.4375 | 2.625 | 0.125 | 49.0 | 5 5V 1600 E | A-3 | E | 3.5 | 0.875 | 1.75 | 2.625 | 0.25 | 56.0 |
| 4 5V 1870 E | 18.7 | 18.7 | A-3 | E | 3.5 | 0.375 | 1.25 | 2.625 | 0.0625 | 71.0 | 5 5V 1870 F | B-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 0.1875 | 96.0 |
| 4 5V 2120 E | 21.20 | 21.20 | A-3 | E | 3.5 | 0.375 | 1.25 | 2.625 | 0.0625 | 72.0 | 5 5V 2120 F | B-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 0.1875 | 98.0 |
| 4 5V 2360 F | 23.60 | 23.60 | C-3 | F | 3.9375 | 0.125 | 0.875 | 3.625 | 0.4375 | 111.0 | 5 5V 2360 F | B-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 0.1875 | 120.0 |
| 4 5V 2800 F | 28 | 28 | C-3 | F | 3.9375 | 0.125 | 0.875 | 3.625 | 0.4375 | 118.0 | 5 5V 2800 F | B-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 0.1875 | 135.0 |
| 4 5V 3150 F | 31.5 | 31.5 | C-3 | F | 3.9375 | 0.125 | 0.875 | 3.625 | 0.4375 | 146.7 | 5 5V 3150 J | C-3 | J | 4.5 | 0.1875 | 1 | 4.5 | 0.5625 | 188.0 |
| 4 5V 3750 F | 37.5 | 37.5 | C-3 | F | 3.9375 | 0.125 | 0.875 | 3.625 | 0.4375 | 178.0 | 5 5V 3750 J | C-3 | J | 4.5 | 0.1875 | 1 | 4.5 | 0.5625 | 224.0 |
| 4 5V 5000 J | 50 | 50 | C-3 | J | 4.5 | 0.5 | 0.6875 | 4.5 | 0.9375 | 266.0 | 5 5V 5000 J | C-3 | J | 4.5 | 0.1875 | 1 | 4.5 | 0.5625 | 308.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
★ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

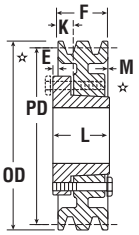
# 5V Hi-Cap Wedge Stock QD Sheaves



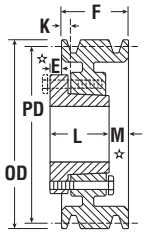

Type A



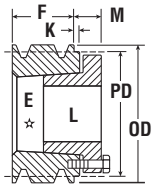

Type B




Type C



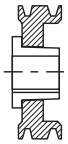

Type D



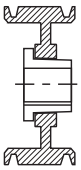

Type E

5/8 × 17/32

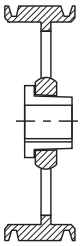
5V



1 = Solid



2 = Web



3 = Arm/Spoke

## QD Sheaves – 5V

| 6 Grooves | | | | | | | | | | | 7 Grooves | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 4 7/16 | | | | | | | | | | | F = 5 1/8 | | | | | | | | |
| Part Number | OD | PD 5V Belt | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 6 5V 440 SD | 4.40 | 4.40 | E-1 | SD | 2 | 3.25 | – | 1.8125 | 0.625 | 7.0 | – | – | – | – | – | – | – | – | – |
| 6 5V 465 SD | 4.65 | 4.65 | E-1 | SD | 2 | 3.25 | – | 1.8125 | 0.625 | 7.8 | – | – | – | – | – | – | – | – | – |
| 6 5V 490 SD | 4.90 | 4.90 | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.8125 | 1.9375 | 9.0 | – | – | – | – | – | – | – | – | – |
| 6 5V 520 SD | 5.20 | 5.20 | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.8125 | 1.9375 | 10.8 | – | – | – | – | – | – | – | – | – |
| 6 5V 550 SD | 5.5 | 5.5 | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.8125 | 1.9375 | 11.3 | – | – | – | – | – | – | – | – | – |
| 6 5V 590 SK | 5.90 | 5.90 | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.875 | 1.875 | 12.0 | – | – | – | – | – | – | – | – | – |
| 6 5V 630 SK | 6.30 | 6.30 | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.875 | 1.875 | 13.0 | – | – | – | – | – | – | – | – | – |
| 6 5V 670 SF | 6.70 | 6.70 | A-1 | SF | 2.9375 | 0.9375 | 1.625 | 2 | 1.4375 | 14.0 | – | – | – | – | – | – | – | – | – |
| 6 5V 710 SF | 7.10 | 7.10 | A-1 | SF | 2.9375 | 0.9375 | 1.625 | 2 | 1.4375 | 15.0 | 7 5V 710 SF | A–1 | SF | 2.9375 | 0.9375 | 1.625 | 2 | 2.125 | 17.0 |
| 6 5V 750 SF | 7.5 | 7.5 | A-1 | SF | 2.9375 | 0.9375 | 1.625 | 2 | 1.4375 | 17.0 | 7 5V 750 SF | A–1 | SF | 2.9375 | 0.9375 | 1.625 | 2 | 2.125 | 19.0 |
| 6 5V 800 E | 8 | 8 | A-1 | E | 3.5 | 1.125 | 2 | 2.625 | 0.6875 | 20.0 | 7 5V 800 E | A–1 | E | 3.5 | 1.125 | 2 | 2.625 | 1.375 | 22.0 |
| 6 5V 850 E | 8.5 | 8.5 | A-1 | E | 3.5 | 1.125 | 2 | 2.625 | 0.6875 | 25.0 | 7 5V 850 E | A–1 | E | 3.5 | 1.125 | 2 | 2.625 | 1.375 | 26.0 |
| 6 5V 900 E | 9 | 9 | A-1 | E | 3.5 | 1.125 | 2 | 2.625 | 0.6875 | 28.0 | 7 5V 900 E | A–1 | E | 3.5 | 1.125 | 2 | 2.625 | 1.375 | 29.0 |
| 6 5V 925 E | 9.25 | 9.25 | A-1 | E | 3.5 | 1.125 | 2 | 2.625 | 0.6875 | 29.0 | 7 5V 925 E | A–1 | E | 3.5 | 1.125 | 2 | 2.625 | 1.375 | 33.0 |
| 6 5V 975 E | 9.75 | 9.75 | A-1 | E | 3.5 | 1.125 | 2 | 2.625 | 0.6875 | 31.0 | 7 5V 975 E | A–1 | E | 3.5 | 1.125 | 2 | 2.625 | 1.375 | 37.0 |
| 6 5V 1030 E | 10.30 | 10.30 | A-1 | E | 3.5 | 1.125 | 2 | 2.625 | 0.6875 | 33.0 | 7 5V 1030 F | B–1 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 0.125 | 49.0 |
| 6 5V 1090 E | 10.90 | 10.90 | A-1 | E | 3.5 | 1.125 | 2 | 2.625 | 0.6875 | 38.0 | 7 5V 1090 F | B–1 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 0.125 | 56.0 |
| 6 5V 1130 E | 11.30 | 11.30 | A-1 | E | 3.5 | 1.125 | 2 | 2.625 | 0.6875 | 41.0 | 7 5V 1130 F | B–1 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 0.125 | 61.0 |
| 6 5V 1180 E | 11.80 | 11.80 | A-1 | E | 3.5 | 1.125 | 2 | 2.625 | 0.6875 | 43.0 | 7 5V 1180 F | B–2 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 0.125 | 56.0 |
| 6 5V 1250 F | 12.5 | 12.5 | B-3 | F | 3.9375 | 1.0625 | 2.0625 | 3.625 | 0.25 | 45.0 | 7 5V 1250 F | B–3 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 0.125 | 53.0 |
| 6 5V 1320 F | 13.20 | 13.20 | B-3 | F | 3.9375 | 1.0625 | 2.0625 | 3.625 | 0.25 | 48.0 | 7 5V 1320 F | B–3 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 0.125 | 52.0 |
| 6 5V 1400 F | 14 | 14 | B-3 | F | 3.9375 | 1.0625 | 2.0625 | 3.625 | 0.25 | 59.0 | 7 5V 1400 F | B–3 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 0.125 | 62.0 |
| 6 5V 1500 F | 15 | 15 | B-3 | F | 3.9375 | 1.0625 | 2.0625 | 3.625 | 0.25 | 64.0 | 7 5V 1500 F | B–3 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 0.125 | 67.0 |
| 6 5V 1600 F | 16 | 16 | B-3 | F | 3.9375 | 1.0625 | 2.0625 | 3.625 | 0.25 | 68.0 | 7 5V 1600 F | B–3 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 0.125 | 77.0 |
| 6 5V 1870 F | 18.70 | 18.70 | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 0.5 | 83.8 | 7 5V 1870 F | A–3 | F | 3.9375 | 0.375 | 1.3125 | 3.625 | 1.125 | 99.0 |
| 6 5V 2120 F | 21.20 | 21.20 | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 0.5 | 110.0 | 7 5V 2120 J | C–3 | J | 4.5 | 0.1875 | 1.3125 | 4.5 | 0.4375 | 138.0 |
| 6 5V 2360 J | 23.60 | 23.60 | B-3 | J | 4.5 | 0.125 | 1.3125 | 4.5 | 0.1875 | 148.0 | 7 5V 2360 J | C–3 | J | 4.5 | 0.1875 | 1.3125 | 4.5 | 0.4375 | 174.0 |
| 6 5V 2800 J | 28 | 28 | B-3 | J | 4.5 | 0.125 | 1.3125 | 4.5 | 0.1875 | 169.0 | 7 5V 2800 J | C–3 | J | 4.5 | 0.1875 | 1.3125 | 4.5 | 0.4375 | 169.0 |
| 6 5V 3150 J | 31.5 | 31.5 | B-3 | J | 4.5 | 0.125 | 1.3125 | 4.5 | 0.1875 | 206.0 | 7 5V 3150 J | C–3 | J | 4.5 | 0.1875 | 1.3125 | 4.5 | 0.4375 | 241.0 |
| 6 5V 3750 J | 37.5 | 37.5 | B-3 | J | 4.5 | 0.125 | 1.3125 | 4.5 | 0.1875 | 241.0 | 7 5V 3750 M | C–3 | M | 5.5 | 0.5625 | 1.9375 | 6.75 | 2.1875 | 300.0 |
| 6 5V 5000 M | 50 | 50 | C-3 | M | 5.5 | 0.125 | 0.5 | 6.75 | 1.375 | 388.0 | 7 5V 5000 M | C–3 | M | 5.5 | 0.875 | 0.5 | 6.75 | 0.75 | 408.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.

★ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

# Hi-Cap Wedge Stock QD Sheaves 5V

## QD Sheaves – 5V

| 8 Grooves | | | | | | | | | | | 9 Grooves | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 5 13/16 | | | | | | | | | | | F = 6 ½ | | | | | | | | |
| Part Number | OD | PD 5V Belt | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 8 5V 710 SF | 7.10 | 7.10 | A-1 | SF | 2.9375 | 1.4375 | 2.125 | 2 | 2.3125 | 19.0 | – | – | – | – | – | – | – | – | – |
| 8 5V 750 SF | 7.5 | 7.5 | A-1 | SF | 2.9375 | 1.4375 | 2.125 | 2 | 2.3125 | 20.0 | – | – | – | – | – | – | – | – | – |
| 8 5V 800 E | 8 | 8 | A-1 | E | 3.5 | 1.625 | 2.5 | 2.625 | 1.5625 | 25.0 | 9 5V 800 E | A-1 | E | 3.5 | 1.625 | 2.5 | 2.625 | 2.25 | 26.0 |
| 8 5V 850 E | 8.5 | 8.5 | A-1 | E | 3.5 | 1.625 | 2.5 | 2.625 | 1.5625 | 29.0 | 9 5V 850 E | A-1 | E | 3.5 | 1.625 | 2.5 | 2.625 | 2.25 | 30.0 |
| 8 5V 900 E | 9 | 9 | A-1 | E | 3.5 | 1.625 | 2.5 | 2.625 | 1.5625 | 32.0 | 9 5V 900 E | A-1 | E | 3.5 | 1.625 | 2.5 | 2.625 | 2.25 | 33.0 |
| 8 5V 925 F | 9.25 | 9.25 | A-1 | F | 3.5 | 1.5625 | 2.5625 | 3.625 | 0.625 | 39.0 | 9 5V 925 F | A-1 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 1.25 | 33.0 |
| 8 5V 975 F | 9.75 | 9.75 | A-1 | F | 3.9375 | 1.5625 | 2.5625 | 3.625 | 0.625 | 42.0 | 9 5V 975 F | A-1 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 1.25 | 45.0 |
| 8 5V 1030 F | 10.30 | 10.30 | A-1 | F | 3.9375 | 1.5625 | 2.5625 | 3.625 | 0.625 | 52.0 | 9 5V 1030 F | A-1 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 1.25 | 54.0 |
| 8 5V 1090 F | 10.90 | 10.90 | A-1 | F | 3.9375 | 1.5625 | 2.5625 | 3.625 | 0.625 | 59.0 | 9 5V 1090 F | A-1 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 1.25 | 62.0 |
| 8 5V 1130 F | 11.30 | 11.30 | A-1 | F | 3.9375 | 1.5625 | 2.5625 | 3.625 | 0.625 | 62.0 | 9 5V 1130 F | A-1 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 1.25 | 67.0 |
| 8 5V 1180 F | 11.80 | 11.80 | A-1 | F | 3.9375 | 1.5625 | 2.5625 | 3.625 | 0.625 | 64.0 | 9 5V 1180 F | A-1 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 1.25 | 73.0 |
| 8 5V 1250 F | 12.5 | 12.5 | A-3 | F | 3.9375 | 1.5625 | 2.5625 | 3.625 | 0.625 | 66.0 | 9 5V 1250 F | A-3 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 1.25 | 61.0 |
| 8 5V 1320 F | 13.20 | 13.20 | A-3 | F | 3.9375 | 1.5625 | 2.5625 | 3.625 | 0.625 | 68.0 | 9 5V 1320 F | A-3 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 1.25 | 60.0 |
| 8 5V 1400 F | 14 | 14 | A-3 | F | 3.9375 | 1.5625 | 2.5625 | 3.625 | 0.625 | 70.0 | 9 5V 1400 F | A-3 | F | 3.9375 | 1.625 | 2.5625 | 3.625 | 1.25 | 70.0 |
| 8 5V 1500 F | 15 | 15 | A-3 | F | 3.9375 | 1.5625 | 2.5625 | 3.625 | 0.625 | 73.0 | 9 5V 1500 J | B-2 | J | 4.5 | 2.4375 | 3.5625 | 4.5 | 0.4375 | 95.0 |
| 8 5V 1600 F | 16 | 16 | A-3 | F | 3.9375 | 1.5625 | 1.5625 | 3.625 | 0.625 | 89.0 | 9 5V 1600 J | B-2 | J | 4.5 | 2.4375 | 3.5625 | 4.5 | 0.4375 | 103.0 |
| 8 5V 1870 J | 18.70 | 18.70 | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 0.9375 | 132.0 | 9 5V 1870 J | A-3 | J | 4.5 | 0.4375 | 1.5625 | 4.5 | 1.5625 | 140.0 |
| 8 5V 2120 J | 21.20 | 21.20 | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 0.9375 | 150.0 | 9 5V 2120 J | A-3 | J | 4.5 | 0.4375 | 1.5625 | 4.5 | 1.5625 | 152.0 |
| 8 5V 2360 J | 23.60 | 23.60 | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 0.9375 | 162.0 | 9 5V 2360 J | A-3 | J | 4.5 | 0.4375 | 1.5625 | 4.5 | 1.5625 | 176.0 |
| 8 5V 2800 J | 28 | 28 | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 0.9375 | 191.0 | 9 5V 2800 M | B-3 | M | 5.5 | 0.5625 | 1.9375 | 6.75 | 0.8125 | 265.0 |
| 8 5V 3150 M | 31.5 | 31.5 | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.4375 | 298.0 | 9 5V 3150 M | B-3 | M | 5.5 | 0.5625 | 1.9375 | 6.75 | 0.8125 | 313.0 |
| 8 5V 3750 M | 37.5 | 37.5 | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.4375 | 319.0 | 9 5V 3750 M | B-3 | M | 5.5 | 0.5625 | 1.9375 | 6.75 | 0.8125 | 409.0 |
| 8 5V 5000 M | 50 | 50 | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.4375 | 497.0 | 9 5V 5000 M | B-3 | M | 5.5 | 0.5625 | 1.9375 | 6.75 | 0.8125 | 483.0 |

| 10 Grooves | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| F = 7 3/16 | | | | | | | | | | |
| Part Number | OD | PD 5V Belt | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 10 5V 800 E | 8 | 8 | A-1 | E | 3.5 | 2.375 | 3.25 | 2.625 | 2.1875 | 27.0 |
| 10 5V 850 E | 8.5 | 8.5 | A-1 | E | 3.5 | 2.375 | 3.25 | 2.625 | 2.1875 | 32.0 |
| 10 5V 900 F | 9 | 9 | A-1 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 1.25 | 41.0 |
| 10 5V 925 F | 9.25 | 9.25 | A-1 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 1.25 | 47.0 |
| 10 5V 975 F | 9.75 | 9.75 | A-1 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 1.25 | 58.0 |
| 10 5V 1030 F | 10.30 | 10.30 | A-1 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 1.25 | 66.0 |
| 10 5V 1090 F | 10.90 | 10.90 | A-1 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 1.25 | 75.0 |
| 10 5V 1130 F | 11.30 | 11.30 | A-1 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 1.25 | 79.0 |
| 10 5V 1180 F | 11.80 | 11.80 | A-1 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 1.25 | 80.0 |
| 10 5V 1250 J | 12.5 | 12.5 | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 0.3125 | 82.0 |
| 10 5V 1320 J | 13.20 | 13.20 | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 0.3125 | 85.0 |
| 10 5V 1400 J | 14 | 14 | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 0.3125 | 90.0 |
| 10 5V 1500 J | 15 | 15 | A-2 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 0.3125 | 92.0 |
| 10 5V 1600 J | 16 | 16 | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 0.3125 | 102.0 |
| 10 5V 1870 J | 18.70 | 18.70 | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 2.1875 | 150.0 |
| 10 5V 2120 J | 21.20 | 21.20 | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 2.1875 | 164.0 |
| 10 5V 2360 M | 23.60 | 23.60 | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 0.0625 | 258.0 |
| 10 5V 2800 M | 28 | 28 | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 0.0625 | 278.0 |
| 10 5V 3150 M | 31.5 | 31.5 | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 0.0625 | 318.0 |
| 10 5V 3750 M | 37.5 | 37.5 | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 0.0625 | 340.0 |
| 10 5V 5000 M | 50 | 50 | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 0.0625 | 538.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.

★ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

# 8V Hi-Cap Wedge Stock QD Sheaves

## QD Sheaves – 8V

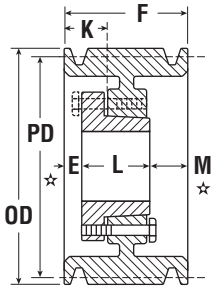
| 4 Grooves F = 4 7/8 | | | | | | | | | | | 5 Grooves F = 6 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD 8V Belt | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 4 8V 1250 F | 12.5 | 12.5 | A-1 | F | 3.9375 | 0.1875 | 1.1875 | 3.625 | 1.0625 | 63.0 | 5 8V 1250 F | A-1 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 1.0625 | 68.0 |
| 4 8V 1320 F | 13.2 | 13.2 | A-2 | F | 3.9375 | 0.1875 | 1.1875 | 3.625 | 1.0625 | 66.0 | 5 8V 1320 F | A-2 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 1.0625 | 75.0 |
| 4 8V 1400 F | 14 | 14 | A-2 | F | 3.9375 | 0.1875 | 1.1875 | 3.625 | 1.0625 | 70.0 | 5 8V 1400 F | A-2 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 1.0625 | 78.0 |
| 4 8V 1500 F | 15 | 15 | A-2 | F | 3.9375 | 0.1875 | 1.1875 | 3.625 | 1.0625 | 74.0 | 5 8V 1500 F | A-2 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 1.0625 | 94.0 |
| 4 8V 1600 F | 16 | 16 | A-2 | F | 3.9375 | 0.1875 | 1.1875 | 3.625 | 1.0625 | 82.0 | 5 8V 1600 F | A-2 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 1.0625 | 101.0 |
| 4 8V 1700 F | 17 | 17 | A-3 | F | 3.9375 | 0.1875 | 1.1875 | 3.625 | 1.0625 | 94.0 | 5 8V 1700 J | A-3 | J | 4.5 | 0.8125 | 2 | 4.5 | 0.6875 | 111.0 |
| 4 8V 1800 F | 18 | 18 | A-3 | F | 3.9375 | 0.1875 | 1.1875 | 3.625 | 1.0625 | 99.0 | 5 8V 1800 J | A-3 | J | 4.5 | 0.8125 | 2 | 4.5 | 0.6875 | 130.0 |
| 4 8V 1900 F | 19 | 19 | A-3 | F | 3.9375 | 0.1875 | 1.1875 | 3.625 | 1.0625 | 105.0 | 5 8V 1900 J | A-3 | J | 4.5 | 0.8125 | 2 | 4.5 | 0.6875 | 135.0 |
| 4 8V 2000 J | 20 | 20 | A-3 | J | 4.5 | 0.25 | 1.4375 | 4.5 | 0.125 | 141.0 | 5 8V 2000 J | A-3 | J | 4.5 | 0.8125 | 2 | 4.5 | 0.6875 | 152.0 |
| 4 8V 2120 J | 21.2 | 21.2 | A-3 | J | 4.5 | 0.25 | 1.4375 | 4.5 | 0.125 | 150.0 | 5 8V 2120 J | A-3 | J | 4.5 | 0.8125 | 2 | 4.5 | 0.6875 | 153.0 |
| 4 8V 2240 J | 22.4 | 22.4 | A-3 | J | 4.5 | 0.25 | 1.4375 | 4.5 | 0.125 | 177.0 | 5 8V 2240 M | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.25 | 223.0 |
| 4 8V 2480 M | 24.8 | 24.8 | C-3 | M | 5.5 | 0.625 | 0.8125 | 6.75 | 1.25 | 223.0 | 5 8V 2480 M | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.25 | 234.0 |
| 4 8V 3000 M | 30 | 30 | C-3 | M | 5.5 | 0.625 | 0.8125 | 6.75 | 1.25 | 285.0 | 5 8V 3000 M | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.25 | 294.0 |
| 4 8V 3550 M | 35.5 | 35.5 | C-3 | M | 5.5 | 0.625 | 0.8125 | 6.75 | 1.25 | 305.0 | 5 8V 3550 M | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.25 | 325.0 |
| 4 8V 4000 M | 40 | 40 | C-3 | M | 5.5 | 0.625 | 0.8125 | 6.75 | 1.25 | 355.0 | 5 8V 4000 M | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.25 | 430.0 |
| 4 8V 4450 M | 44.5 | 44.5 | C-3 | M | 5.5 | 0.625 | 0.8125 | 6.75 | 1.25 | 369.0 | 5 8V 4450 N | C-3 | N | 6 | 0.8125 | 0.9375 | 8.125 | 1.3125 | 485.0 |
| 4 8V 5300 M | 53 | 53 | C-3 | M | 5.5 | 0.375 | 0.8125 | 6.75 | 1.25 | 478.0 | 5 8V 5300 N | C-3 | N | 6 | 0.8125 | 0.9375 | 8.125 | 1.3125 | 672.0 |

| 6 Grooves F = 7 1/8 | | | | | | | | | | | 8 Grooves F = 9 3/16 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD 8V Belt | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 6 8V 1250 F | 12.5 | 12.5 | A-1 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 2.1875 | 86.0 | 8 8V 1250 J | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 2.5 | 108.0 |
| 6 8V 1320 F | 13.2 | 13.2 | A-1 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 2.1875 | 94.0 | 8 8V 1320 J | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 2.5 | 118.0 |
| 6 8V 1400 F | 14 | 14 | A-1 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 2.1875 | 108.0 | 8 8V 1400 J | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 2.5 | 131.0 |
| 6 8V 1500 J | 15 | 15 | A-1 | J | 4.5 | 1.375 | 2.5625 | 4.5 | 1.25 | 138.0 | 8 8V 1500 J | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 2.5 | 151.0 |
| 6 8V 1600 J | 16 | 16 | A-1 | J | 4.5 | 1.375 | 2.5625 | 4.5 | 1.25 | 142.0 | 8 8V 1600 J | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 2.5 | 155.0 |
| 6 8V 1700 J | 17 | 17 | A-2 | J | 4.5 | 1.375 | 2.5625 | 4.5 | 1.25 | 144.0 | 8 8V 1700 M | A-2 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 0.125 | 188.0 |
| 6 8V 1800 J | 18 | 18 | A-2 | J | 4.5 | 1.375 | 2.5625 | 4.5 | 1.25 | 160.0 | 8 8V 1800 M | A-2 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 0.125 | 202.0 |
| 6 8V 1900 J | 19 | 19 | A-2 | J | 4.5 | 1.375 | 2.5625 | 4.5 | 1.25 | 172.0 | 8 8V 1900 M | A-2 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 0.125 | 221.0 |
| 6 8V 2000 M | 20 | 20 | B-2 | M | 5.5 | 1.5 | 2.9375 | 6.75 | 1.125 | 204.0 | 8 8V 2000 M | A-2 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 0.125 | 236.0 |
| 6 8V 2120 M | 21.2 | 21.2 | B-2 | M | 5.5 | 1.5 | 2.9375 | 6.75 | 1.125 | 226.0 | 8 8V 2120 M | A-2 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 0.125 | 267.0 |
| 6 8V 2240 M | 22.4 | 22.4 | B-3 | M | 5.5 | 1.5 | 2.9375 | 6.75 | 1.125 | 235.0 | 8 8V 2240 M | A-3 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 0.125 | 284.0 |
| 6 8V 2480 M | 24.8 | 24.8 | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 0.125 | 246.0 | 8 8V 2480 N | A-2 | N | 6 | 0.5 | 2.25 | 8.125 | 0.75 | 418.0 |
| 6 8V 3000 M | 30 | 30 | B-3 | M | 6 | 0.5 | 1.9375 | 6.75 | 0.125 | 306.0 | 8 8V 3000 N | A-3 | N | 6 | 0.5 | 2.25 | 8.125 | 0.75 | 447.0 |
| 6 8V 3550 N | 35.5 | 35.5 | C-3 | N | 6 | 0.625 | 1.125 | 8.125 | 0.375 | 466.0 | 8 8V 3550 N | A-3 | N | 6 | 0.5 | 2.25 | 8.125 | 0.75 | 553.0 |
| 6 8V 4000 N | 40 | 40 | C-3 | N | 6 | 0.625 | 1.125 | 8.125 | 0.375 | 548.0 | 8 8V 4000 N | A-3 | N | 6 | 0.5 | 2.25 | 8.125 | 0.75 | 648.0 |
| 6 8V 4450 N | 44.5 | 44.5 | C-3 | N | 6 | 0.625 | 1.125 | 8.125 | 0.375 | 590.0 | 8 8V 4450 P | B-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 0.625 | 679.0 |
| 6 8V 5300 N | 53 | 53 | C-3 | N | 6 | 0.625 | 1.125 | 8.125 | 0.375 | 658.0 | 8 8V 5300 P | B-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 0.625 | 946.0 |
| 6 8V 6300 P | 63 | 63 | C-3 | P | 6.75 | - | 2 | 9.375 | 1.875 | 860.0 | 8 8V 6300 P | B-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 0.25 | 1372.0 |
| 6 8V 7100 P | 71 | 71 | B-3 | P | 6.75 | - | 2 | 9.375 | 1.875 | 1272.0 | 8 8V 7100 W | C-3 | W | 8.5 | 0.875 | 1.375 | 11.375 | 0.75 | 1680.0 |

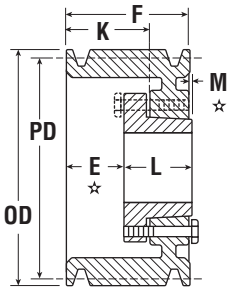
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.

★ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

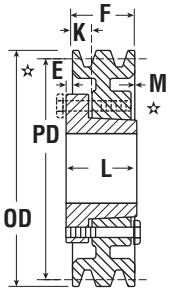
# Hi-Cap Wedge Stock QD Sheaves 8V



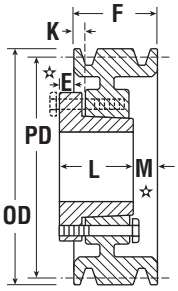

Type A



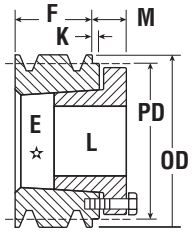

Type B



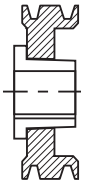

Type C



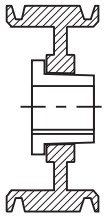

Type D



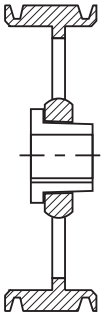

Type E



1 = Solid



2 = Web



3 = Arm/Spoke

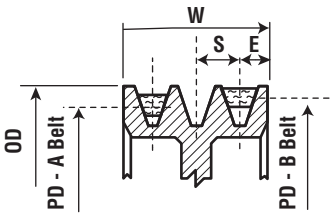
## QD Sheaves – 8V

| 10 Grooves F = 11 5/8 | | | | | | | | | | | 12 Grooves F = 14 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD 8V Belt | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 10 8V 1250 J | 12.5 | 12.5 | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 4.75 | 122.0 | 12 8V 1250 M | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 4.625 | 161.0 |
| 10 8V 1320 J | 13.2 | 13.2 | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 4.75 | 140.0 | 12 8V 1320 M | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 4.625 | 185.0 |
| 10 8V 1400 J | 14 | 14 | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 4.75 | 152.0 | 12 8V 1400 M | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 4.625 | 211.0 |
| 10 8V 1500 M | 15 | 15 | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 2.375 | 212.0 | 12 8V 1500 M | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 4.625 | 234.0 |
| 10 8V 1600 M | 16 | 16 | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 2.375 | 219.0 | 12 8V 1600 M | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 4.625 | 285.0 |
| 10 8V 1700 M | 17 | 17 | A-2 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 2.375 | 228.0 | 12 8V 1700 M | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 4.625 | 324.0 |
| 10 8V 1800 M | 18 | 18 | A-2 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 2.375 | 236.0 | 12 8V 1800 M | A-2 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 4.625 | 330.0 |
| 10 8V 1900 M | 19 | 19 | A-2 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 2.375 | 260.0 | 12 8V 1900 N | A-2 | N | 6 | 0.5 | 2.25 | 8.125 | 5.25 | 338.0 |
| 10 8V 2000 M | 20 | 20 | A-2 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 2.375 | 280.0 | 12 8V 2000 N | A-2 | N | 6 | 0.5 | 2.25 | 8.125 | 5.25 | 365.0 |
| 10 8V 2120 M | 21.2 | 21.2 | A-2 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 2.375 | 298.0 | 12 8V 2120 N | A-2 | N | 6 | 0.5 | 2.25 | 8.125 | 5.25 | 382.0 |
| 10 8V 2240 N | 22.4 | 22.4 | A-2 | N | 6 | 0.5 | 2.25 | 8.125 | 3 | 366.0 | 12 8V 2240 N | A-2 | N | 6 | 0.5 | 2.25 | 8.125 | 5.25 | 399.0 |
| 10 8V 2480 N | 24.8 | 24.8 | A-2 | N | 6 | 0.5 | 2.25 | 8.125 | 3 | 454.0 | 12 8V 2480 N | A-2 | N | 6 | 0.5 | 2.25 | 8.125 | 5.25 | 454.0 |
| 10 8V 3000 N | 30 | 30 | A-3 | N | 6 | 0.5 | 2.25 | 8.125 | 3 | 468.0 | 12 8V 3000 P | A-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 3.875 | 605.0 |
| 10 8V 3550 P | 35.5 | 35.5 | A-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 1.625 | 784.0 | 12 8V 3550 P | A-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 3.875 | 706.0 |
| 10 8V 4000 P | 40 | 40 | A-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 1.625 | 826.0 | 12 8V 4000 P | A-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 3.875 | 766.0 |
| 10 8V 4450 P | 44.5 | 44.5 | A-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 1.625 | 996.0 | 12 8V 4450 P | A-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 3.875 | 910.0 |
| 10 8V 5300 P | 53 | 53 | A-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 0.25 | 1010.0 | 12 8V 5300 W | A-3 | W | 8.5 | 0.625 | 2.875 | 11.375 | 2.25 | 1333.0 |
| 10 8V 6300 W | 63 | 63 | A-3 | W | 8.5 | 0.625 | 2.875 | 11.375 | – | 1443.0 | 12 8V 6300 W | A-3 | W | 8.5 | 0.625 | 2.875 | 11.375 | 2.25 | 1777.0 |
| 10 8V 7100 W | 71 | 71 | A-3 | W | 8.5 | 0.625 | 2.875 | 11.375 | – | 1842.0 | 12 8V 7100 W | A-3 | W | 8.5 | 0.625 | 2.875 | 11.375 | 2.25 | 2002.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.

★ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

# A-B Combination Groove Conventional Stock QD Sheaves




Drawing shows position of A and B belts in groove when used in QD Sheaves

### Combination Groove Dimensions

| Belt Selection | E | S | OD |
|---|---|---|---|
| AB | .5 | .75 | PD B + .35 |

W = S (N-1) + 2E
N = No. of Grooves

Drawing shows position of "A" and "B" belts in groove.

½ × 5⁄16

**A**

21⁄32 × 13⁄32

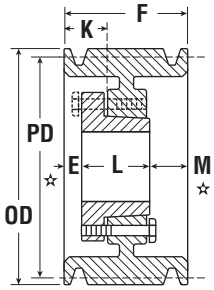
**B**

## QD Sheaves – A-B

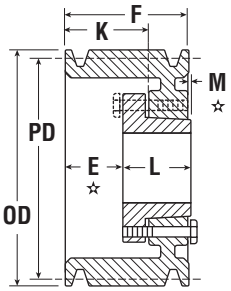
| 1 Groove | | | | | | | | | | | | 2 Grooves | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 7/8 thru 1 B 68 SDS / F = 1 others | | | | | | | | | | | | F = 1¾ | | | | | | | | |
| Part Number | PD A Belt | PD B Belt | OD | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 1 B 34 SH | 3.0 | 3.4 | 3.75 | D-1 | SH | 1.6875 | 0.5625 | – | 1.25 | 0.125 | 1.4 | 2 B 34 SH | E-1 | SH | 1.25 | 1 | – | 1.3125 | 0.5625 | 2.8 |
| 1 B 36 SH | 3.2 | 3.6 | 3.95 | D-1 | SH | 1.6875 | 0.5625 | – | 1.25 | 0.125 | 1.6 | 2 B 36 SH | D-1 | SH | 1.25 | 0.375 | 0.1875 | 1.3125 | 0.8125 | 2.8 |
| 1 B 38 SH | 3.4 | 3.8 | 4.15 | D-1 | SH | 1.6875 | 0.5625 | – | 1.25 | 0.125 | 1.2 | 2 B 38 SH | D-1 | SH | 1.25 | 0.375 | 0.1875 | 1.3125 | 0.8125 | 3.3 |
| 1 B 40 SH | 3.6 | 4.0 | 4.35 | C-1 | SH | 1.6875 | 0.25 | 0.3125 | 1.25 | 0.1875 | 2.2 | 2 B 40 SH | A-1 | SH | 1.25 | 0.125 | 0.6875 | 1.3125 | 0.3125 | 3.4 |
| 1 B 42 SH | 3.8 | 4.2 | 4.55 | C-1 | SH | 1.6875 | 0.25 | 0.3125 | 1.25 | 0.1875 | 6.9 | 2 B 42 SH | A-1 | SH | 1.25 | 0.125 | 0.6875 | 1.3125 | 0.3125 | 3.8 |
| 1 B 44 SH | 4.0 | 4.4 | 4.75 | C-1 | SH | 1.6875 | 0.25 | 0.3125 | 1.25 | 0.1875 | 2.9 | 2 B 44 SH | A-1 | SH | 1.25 | 0.125 | 0.6875 | 1.3125 | 0.3125 | 4.6 |
| 1 B 46 SDS | 4.2 | 4.6 | 4.95 | C-1 | SDS | 2 | 0.3125 | 0.3125 | 1.315 | 0.1875 | 2.6 | 2 B 46 SDS | A-2 | SDS | 1.315 | 0.0625 | 0.6875 | 1.375 | 0.3125 | 4.3 |
| 1 B 48 SDS | 4.4 | 4.8 | 5.15 | C-1 | SDS | 2 | 0.3125 | 0.3125 | 1.315 | 0.1875 | 3.1 | 2 B 48 SDS | A-2 | SDS | 1.315 | 0.0625 | 0.6875 | 1.375 | 0.3125 | 4.8 |
| 1 B 50 SDS | 4.6 | 5.0 | 5.35 | C-1 | SDS | 2 | 0.3125 | 0.3125 | 1.315 | 0.1875 | 3.5 | 2 B 50 SDS | A-2 | SDS | 1.315 | 0.0625 | 0.6875 | 1.375 | 0.3125 | 5.5 |
| 1 B 52 SDS | 4.8 | 5.2 | 5.55 | C-1 | SDS | 2 | 0.3125 | 0.3125 | 1.315 | 0.1875 | 3.7 | 2 B 52 SDS | A-2 | SDS | 1.315 | 0.0625 | 0.6875 | 1.375 | 0.3125 | 5.8 |
| 1 B 54 SDS | 5.0 | 5.4 | 5.75 | C-1 | SDS | 2 | 0.3125 | 0.3125 | 1.315 | 0.1875 | 4.0 | 2 B 54 SDS | A-2 | SDS | 1.315 | 0.0625 | 0.6875 | 1.375 | 0.3125 | 6.1 |
| 1 B 56 SDS | 5.2 | 5.6 | 5.95 | C-1 | SDS | 2 | 0.3125 | 0.3125 | 1.315 | 0.1875 | 4.2 | 2 B 56 SDS | A-2 | SDS | 1.315 | 0.0625 | 0.6875 | 1.375 | 0.3125 | 6.6 |
| 1 B 58 SDS | 5.4 | 5.8 | 6.15 | C-1 | SDS | 2 | 0.3125 | 0.3125 | 1.315 | 0.1875 | 4.5 | 2 B 58 SDS | A-1 | SDS | 1.315 | 0.0625 | 0.6875 | 1.375 | 0.3125 | 7.2 |
| 1 B 60 SDS | 5.6 | 6.0 | 6.35 | C-1 | SDS | 2 | 0.3125 | 0.3125 | 1.315 | 0.1875 | 4.9 | 2 B 60 SDS | A-2 | SDS | 1.315 | 0.0625 | 0.6875 | 1.375 | 0.3125 | 7.6 |
| 1 B 62 SDS | 5.8 | 6.2 | 6.55 | C-2 | SDS | 2 | 0.3125 | 0.3125 | 1.315 | 0.1875 | 5.5 | 2 B 62 SDS | A-2 | SDS | 1.315 | 0.0625 | 0.6875 | 1.375 | 0.3125 | 7.0 |
| 1 B 64 SDS | 6.0 | 6.4 | 6.75 | C-2 | SDS | 2 | 0.3125 | 0.3125 | 1.315 | 0.1875 | 5.7 | 2 B 64 SDS | A-2 | SDS | 1.315 | 0.0625 | 0.6875 | 1.375 | 0.3125 | 7.0 |
| 1 B 66 SDS | 6.2 | 6.6 | 6.95 | C-2 | SDS | 2 | 0.3125 | 0.3125 | 1.315 | 0.1875 | 5.9 | 2 B 66 SDS | A-2 | SDS | 1.315 | 0.0625 | 0.6875 | 1.375 | 0.3125 | 9.0 |
| 1 B 68 SDS | 6.4 | 6.8 | 7.15 | C-2 | SDS | 2 | 0.3125 | 0.3125 | 1.315 | 0.1875 | 4.8 | 2 B 68 SDS | A-2 | SDS | 1.315 | 0.0625 | 0.6875 | 1.375 | 0.3125 | 9.2 |
| 1 B 70 SDS | 6.6 | 7.0 | 7.35 | C-2 | SDS | 2 | 0.5 | 0.125 | 1.315 | 0.125 | 5.8 | 2 B 70 SK | D-2 | SK | 2.625 | 0.25 | 0.4375 | 1.9375 | 0.0625 | 8.8 |
| 1 B 74 SDS | 7.0 | 7.4 | 7.75 | C-2 | SDS | 2 | 0.5 | 0.125 | 1.315 | 0.125 | 6.4 | 2 B 74 SK | D-2 | SK | 2.625 | 0.25 | 0.4375 | 1.9375 | 0.0625 | 11.0 |
| 1 B 80 SDS | 7.6 | 8.0 | 8.35 | C-3 | SDS | 2 | 0.5 | 0.125 | 1.315 | 0.125 | 6.8 | 2 B 80 SK | D-2 | SK | 2.625 | 0.25 | 0.4375 | 1.9375 | 0.0625 | 12.6 |
| 1 B 86 SDS | 8.2 | 8.6 | 8.95 | C-3 | SDS | 2 | 0.5 | 0.125 | 1.315 | 0.125 | 7.2 | 2 B 86 SK | D-2 | SK | 2.625 | 0.25 | 0.4375 | 1.9375 | 0.0625 | 12.0 |
| 1 B 94 SDS | 9.0 | 9.4 | 9.75 | C-3 | SDS | 2 | 0.5 | 0.125 | 1.315 | 0.125 | 8.0 | 2 B 94 SK | D-1 | SK | 2.625 | 0.25 | 0.4375 | 1.9375 | 0.0625 | 13.4 |
| 1 B 110 SDS | 10.6 | 11.0 | 11.35 | C-3 | SDS | 2 | 0.5 | 0.125 | 1.315 | 0.125 | 9.0 | 2 B 110 SK | D-3 | SK | 2.625 | 0.25 | 0.4375 | 1.9375 | 0.0625 | 16.4 |
| 1 B 124 SDS | 12.0 | 12.4 | 12.75 | C-3 | SDS | 2 | 0.5 | 0.125 | 1.315 | 0.125 | 11.0 | 2 B 124 SK | D-3 | SK | 2.625 | 0.25 | 0.4375 | 1.9375 | 0.0625 | 19.2 |
| 1 B 136 SDS | 13.2 | 13.6 | 13.95 | C-3 | SDS | 2 | 0.5 | 0.125 | 1.315 | 0.125 | 12.0 | 2 B 136 SK | D-3 | SK | 2.625 | 0.25 | 0.4375 | 1.9375 | 0.0625 | 19.0 |
| 1 B 154 SK | 15.0 | 15.4 | 15.75 | C-3 | SK | 2.625 | 0.5625 | 0.125 | 1.875 | 0.375 | 13.0 | 2 B 154 SK | D-3 | SK | 2.625 | 0.25 | 0.4375 | 1.9375 | 0.0625 | 22.0 |
| 1 B 160 SK | 15.6 | 16.0 | 16.35 | C-3 | SK | 2.625 | 0.5625 | 0.125 | 1.875 | 0.375 | 15.0 | 2 B 160 SK | D-3 | SK | 2.625 | 0.25 | 0.4375 | 1.9375 | 0.0625 | 26.0 |
| 1 B 184 SK | 18.0 | 18.4 | 18.75 | C-3 | SK | 2.625 | 0.5625 | 0.125 | 1.875 | 0.375 | 19.0 | 2 B 184 SK | D-3 | SK | 2.625 | 0.25 | 0.4375 | 1.9375 | 0.0625 | 30.0 |
| 1 B 200 SK | 19.6 | 20.0 | 20.35 | C-3 | SK | 2.625 | 0.5625 | 0.125 | 1.875 | 0.375 | 25.0 | 2 B 200 SF | D-3 | SF | 2.9375 | 0.3125 | 0.375 | 2.0625 | – | 35.0 |
| – | 24.6 | 25.0 | 25.35 | – | – | – | – | – | – | – | – | 2 B 250 SF | D-3 | SF | 2.9375 | 0.3125 | 0.375 | 2.0625 | – | 57.0 |
| – | 29.6 | 30.0 | 30.35 | – | – | – | – | – | – | – | – | 2 B 300 SF | D-3 | SF | 2.9375 | 0.3125 | 0.375 | 2.0625 | – | 80.0 |
| – | 37.6 | 38.0 | 38.35 | – | – | – | – | – | – | – | – | 2 B 380 SF | D-3 | SF | 2.9375 | 0.3125 | 0.375 | 2.0625 | – | 99.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
★ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

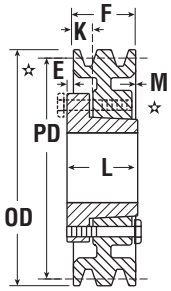
# Combination Groove Conventional Stock QD Sheaves A-B



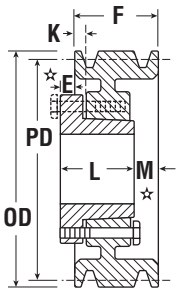
Type A



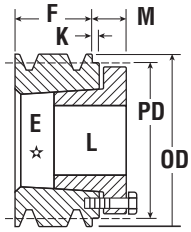
Type B



Type C



Type D



Type E

## QD Sheaves – A-B

| 3 Grooves F = 2½ | | | | | | | | | | | | 4 Grooves F = 3¼ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | PD A Belt | PD B Belt | OD | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 3 B 34 SH | 3.0 | 3.4 | 3.75 | E-1 | SH | 1.6875 | 1.75 | – | 1.25 | 0.5625 | 3.4 | 4 B 34 SD | E-1 | SD | 2 | 2.375 | 0.3125 | 1.815 | 0.9375 | 4.0 |
| 3 B 36 SH | 3.2 | 3.6 | 3.95 | E-1 | SH | 1.6875 | 0.375 | 0.1875 | 1.25 | 1.1875 | 3.8 | 4 B 36 SD | E-1 | SD | 2 | 2.375 | 0.3125 | 1.815 | 0.9375 | 5.0 |
| 3 B 38 SH | 3.4 | 3.8 | 4.15 | E-1 | SH | 1.6875 | 0.375 | 0.1875 | 1.25 | 1.1875 | 4.0 | 4 B 38 SD | E-1 | SD | 2 | 2.375 | 0.3125 | 1.815 | 0.9375 | 5.5 |
| 3 B 40 SH | 3.6 | 4.0 | 4.35 | A-1 | SH | 1.6875 | 0.5 | 0.6875 | 1.25 | 0.6875 | 4.5 | 4 B 40 SD | E-1 | SD | 2 | 2.0625 | – | 1.815 | 0.625 | 6.0 |
| 3 B 42 SH | 3.8 | 4.2 | 4.55 | A-1 | SH | 1.6875 | 0.5 | 0.6875 | 1.25 | 0.6875 | 5.0 | 4 B 42 SD | E-1 | SD | 2 | 2.0625 | – | 1.815 | 0.625 | 7.0 |
| 3 B 44 SH | 4.0 | 4.4 | 4.75 | A-1 | SH | 1.6875 | 0.5 | 0.6875 | 1.25 | 0.6875 | 5.5 | 4 B 44 SD | E-1 | SD | 2 | 2.0625 | – | 1.815 | 0.625 | 7.3 |
| 3 B 46 SD | 4.2 | 4.6 | 4.95 | A-1 | SD | 2 | 0.438 | 0.6875 | 1.815 | 0.25 | 6.0 | 4 B 46 SD | A-1 | SD | 2 | 0.6875 | 0.9375 | 1.815 | 0.75 | 7.6 |
| 3 B 48 SD | 4.4 | 4.8 | 5.15 | A-1 | SD | 2 | 0.438 | 0.6875 | 1.815 | 0.25 | 6.5 | 4 B 48 SD | A-1 | SD | 2 | 0.6875 | 0.9375 | 1.815 | 0.75 | 8.0 |
| 3 B 50 SD | 4.6 | 5.0 | 5.35 | A-1 | SD | 2 | 0.438 | 0.6875 | 1.815 | 0.25 | 7.0 | 4 B 50 SD | A-1 | SD | 2 | 0.6875 | 0.9375 | 1.815 | 0.75 | 9.0 |
| 3 B 52 SD | 4.8 | 5.2 | 5.55 | A-1 | SD | 2 | 0.438 | 0.6875 | 1.815 | 0.25 | 8.0 | 4 B 52 SD | A-1 | SD | 2 | 0.6875 | 0.9375 | 1.815 | 0.75 | 10.0 |
| 3 B 54 SD | 5.0 | 5.4 | 5.75 | A-1 | SD | 2 | 0.438 | 0.6875 | 1.815 | 0.25 | 8.5 | 4 B 54 SD | A-1 | SD | 2 | 0.6875 | 0.9375 | 1.815 | 0.75 | 10.5 |
| 3 B 56 SD | 5.2 | 5.6 | 5.95 | A-1 | SD | 2 | 0.438 | 0.6875 | 1.815 | 0.25 | 9.0 | 4 B 56 SD | A-1 | SD | 2 | 0.6875 | 0.9375 | 1.815 | 0.75 | 11.0 |
| 3 B 58 SD | 5.4 | 5.8 | 6.15 | A-1 | SD | 2 | 0.438 | 0.6875 | 1.815 | 0.25 | 10.0 | 4 B 58 SD | A-1 | SD | 2 | 0.6875 | 0.9375 | 1.815 | 0.75 | 12.0 |
| 3 B 60 SD | 5.6 | 6.0 | 6.35 | A-1 | SD | 2 | 0.438 | 0.6875 | 1.815 | 0.25 | 11.0 | 4 B 60 SD | A-1 | SD | 2 | 0.6875 | 0.9375 | 1.815 | 0.75 | 12.5 |
| 3 B 62 SD | 5.8 | 6.2 | 6.55 | A-1 | SD | 2 | 0.438 | 0.6875 | 1.815 | 0.25 | 12.0 | 4 B 62 SD | A-1 | SD | 2 | 0.6875 | 0.9375 | 1.815 | 0.75 | 13.0 |
| 3 B 64 SD | 6.0 | 6.4 | 6.75 | A-1 | SD | 2 | 0.438 | 0.6875 | 1.815 | 0.25 | 12.3 | 4 B 64 SD | A-1 | SD | 2 | 0.6875 | 0.9375 | 1.815 | 0.75 | 14.0 |
| 3 B 66 SD | 6.2 | 6.6 | 6.95 | A-1 | SD | 2 | 0.438 | 0.6875 | 1.815 | 0.25 | 12.6 | 4 B 66 SD | A-1 | SD | 2 | 0.6875 | 0.9375 | 1.815 | 0.75 | 14.5 |
| 3 B 68 SD | 6.4 | 6.8 | 7.15 | A-1 | SD | 2 | 0.438 | 0.6875 | 1.815 | 0.25 | 13.0 | 4 B 68 SD | A-1 | SD | 2 | 0.6875 | 0.9375 | 1.815 | 0.75 | 15.0 |
| 3 B 70 SK | 6.6 | 7.0 | 7.35 | A-1 | SK | 2.625 | – | 0.6875 | 1.875 | 0.56 | 14.0 | 4 B 70 SK | A-1 | SK | 2.625 | 0.3125 | 1 | 1.875 | 1 | 15.5 |
| 3 B 74 SK | 7.0 | 7.4 | 7.75 | A-1 | SK | 2.625 | – | 0.6875 | 1.875 | 0.56 | 15.0 | 4 B 74 SK | A-1 | SK | 2.625 | 0.3125 | 1 | 1.875 | 1 | 16.0 |
| 3 B 80 SK | 7.6 | 8.0 | 8.35 | A-1 | SK | 2.625 | – | 0.6875 | 1.875 | 0.56 | 16.0 | 4 B 80 SK | A-1 | SK | 2.625 | 0.3125 | 1 | 1.875 | 1 | 17.0 |
| 3 B 86 SK | 8.2 | 8.6 | 8.95 | A-1 | SK | 2.625 | – | 0.6875 | 1.875 | 0.56 | 17.0 | 4 B 86 SK | A-3 | SK | 2.625 | 0.3125 | 1 | 1.875 | 1 | 18.0 |
| 3 B 94 SK | 9.0 | 9.4 | 9.75 | A-1 | SK | 2.625 | – | 0.6875 | 1.875 | 0.56 | 18.0 | 4 B 94 SK | A-3 | SK | 2.625 | 0.3125 | 1 | 1.875 | 1 | 19.0 |
| 3 B 110 SK | 10.6 | 11.0 | 11.35 | A-3 | SK | 2.625 | – | 0.6875 | 1.875 | 0.56 | 19.0 | 4 B 110 SK | A-3 | SK | 2.625 | 0.3125 | 1 | 1.875 | 1 | 24.0 |
| 3 B 124 SK | 12.0 | 12.4 | 12.75 | A-3 | SK | 2.625 | – | 0.6875 | 1.875 | 0.56 | 23.0 | 4 B 124 SK | A-3 | SK | 2.625 | 0.3125 | 1 | 1.875 | 1 | 26.0 |
| 3 B 136 SK | 13.2 | 13.6 | 13.95 | A-3 | SK | 2.625 | – | 0.6875 | 1.875 | 0.56 | 24.1 | 4 B 136 SK | A-3 | SK | 2.625 | 0.3125 | 1 | 1.875 | 1 | 28.0 |
| 3 B 154 SK | 15.0 | 15.4 | 15.75 | A-3 | SK | 2.625 | – | 0.6875 | 1.875 | 0.56 | 28.0 | 4 B 154 SF | A-3 | SF | 2.9375 | 0.3125 | 1 | 2 | 0.875 | 41.0 |
| 3 B 160 SK | 15.6 | 16.0 | 16.35 | A-3 | SK | 2.625 | – | 0.6875 | 1.875 | 0.56 | 29.0 | 4 B 160 SF | A-3 | SF | 2.9375 | 0.3125 | 1 | 2 | 0.875 | 42.0 |
| 3 B 184 SK | 18.0 | 18.4 | 18.75 | A-3 | SK | 2.625 | – | 0.6875 | 1.875 | 0.56 | 37.0 | 4 B 184 SF | A-3 | SF | 2.9375 | 0.3125 | 1 | 2 | 0.875 | 48.0 |
| 3 B 200 SF | 19.6 | 20.0 | 20.35 | D-3 | SF | 2.9375 | 0.0625 | 0.625 | 2 | 0.5 | 39.0 | 4 B 200 SF | A-3 | SF | 2.9375 | 0.3125 | 1 | 2 | 0.875 | 58.0 |
| 3 B 250 SF | 24.6 | 25.0 | 25.35 | D-3 | SF | 2.9375 | 0.0625 | 0.625 | 2 | 0.5 | 67.0 | 4 B 250 E | A-3 | E | 3.5 | 0.125 | 1 | 2.6250 | 0.5 | 78.0 |
| 3 B 300 SF | 29.6 | 30.0 | 30.35 | D-3 | SF | 2.9375 | 0.0625 | 0.625 | 2 | 0.5 | 74.0 | 4 B 300 E | A-3 | E | 3.5 | 0.125 | 1 | 2.6250 | 0.5 | 93.0 |
| 3 B 380 E | 37.6 | 38.0 | 38.35 | D-3 | E | 3.5 | 0.25 | 0.625 | 2.625 | 0.125 | 122.0 | 4 B 380 E | A-3 | E | 3.5 | 0.125 | 1 | 2.6250 | 0.5 | 138.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.

★ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

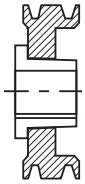
# A-B Combination Groove Conventional Stock QD Sheaves

½ × 5⁄16

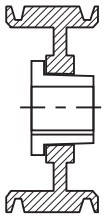
**A**

21⁄32 × 13⁄32

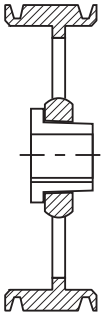
**B**



**1 = Solid**



**2 = Web**



**3 = Arm/Spoke**

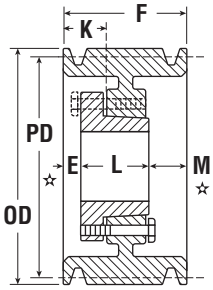
## QD Sheaves – A-B

| 5 Grooves F = 4 | | | | | | | | | | | | 6 Grooves F = 4 ¾ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | PD A Belt | PD B Belt | OD | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 5 B 34 SD | 3.0 | 3.4 | 3.75 | E-1 | SD | 2 | 3.25 | 0.4375 | 1.815 | 1.0625 | 5.0 | 6 B 34 SD | E-1 | SD | 2 | 3.875 | 0.3125 | 1.815 | 0.9375 | 6.0 |
| 5 B 36 SD | 3.2 | 3.6 | 3.95 | E-1 | SD | 2 | 3.25 | 0.4375 | 1.815 | 1.0625 | 6.0 | 6 B 36 SD | E-1 | SD | 2 | 3.875 | 0.3125 | 1.815 | 0.8125 | 7.0 |
| 5 B 38 SD | 3.4 | 3.8 | 4.15 | E-1 | SD | 2 | 3.125 | 0.3125 | 1.815 | 1.3125 | 6.5 | 6 B 38 SD | E-1 | SD | 2 | 3.875 | 0.3125 | 1.815 | 0.8125 | 7.5 |
| 5 B 40 SD | 3.6 | 4.0 | 4.35 | E-1 | SD | 2 | 2.813 | – | 1.815 | 0.625 | 7.0 | 6 B 40 SD | E-1 | SD | 2 | 3.5625 | – | 1.815 | 0.625 | 8.0 |
| 5 B 42 SD | 3.8 | 4.2 | 4.55 | E-1 | SD | 2 | 2.8125 | – | 1.815 | 0.625 | 7.5 | 6 B 42 SD | E-1 | SD | 2 | 3.5625 | – | 1.815 | 0.625 | 9.0 |
| 5 B 44 SD | 4.0 | 4.4 | 4.75 | E-1 | SD | 2 | 2.8125 | – | 1.815 | 0.625 | 8.0 | 6 B 44 SD | E-1 | SD | 2 | 3.5625 | – | 1.815 | 0.625 | 9.5 |
| 5 B 46 SD | 4.2 | 4.6 | 4.95 | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.815 | 1.5 | 9.0 | 6 B 46 SD | A-1 | SD | 2 | 3.5625 | 1.1875 | 1.815 | 2.375 | 10.0 |
| 5 B 48 SD | 4.4 | 4.8 | 5.15 | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.815 | 1.5 | 9.5 | 6 B 48 SD | A-1 | SD | 2 | 2.25 | 1.1875 | 1.815 | 2.375 | 10.5 |
| 5 B 50 SD | 4.6 | 5.0 | 5.35 | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.815 | 1.5 | 10.0 | 6 B 50 SD | A-1 | SD | 2 | 2.25 | 1.1875 | 1.815 | 2.375 | 11.0 |
| 5 B 52 SD | 4.8 | 5.2 | 5.55 | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.815 | 1.5 | 10.5 | 6 B 52 SD | A-1 | SD | 2 | 2.25 | 1.1875 | 1.815 | 2.375 | 11.5 |
| 5 B 54 SK | 5.0 | 5.4 | 5.75 | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.875 | 1.4375 | 11.0 | 6 B 54 SK | A-1 | SK | 2.63 | 0.625 | 1.3125 | 1.875 | 2.1875 | 12.0 |
| 5 B 56 SK | 5.2 | 5.6 | 5.95 | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.875 | 1.4375 | 11.5 | 6 B 56 SK | A-1 | SK | 2.63 | 0.625 | 1.3125 | 1.875 | 2.1875 | 13.0 |
| 5 B 58 SK | 5.4 | 5.8 | 6.15 | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.875 | 1.4375 | 12.0 | 6 B 58 SK | A-1 | SK | 2.63 | 0.625 | 1.3125 | 1.875 | 2.1875 | 14.0 |
| 5 B60 SK | 5.6 | 6.0 | 6.35 | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.875 | 1.4375 | 13.0 | 6 B60 SK | A-1 | SK | 2.63 | 0.625 | 1.3125 | 1.875 | 2.1875 | 15.0 |
| 5 B62 SK | 5.8 | 6.2 | 6.55 | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.875 | 1.4375 | 14.0 | 6 B62 SK | A-1 | SK | 2.63 | 0.625 | 1.3125 | 1.875 | 2.1875 | 16.0 |
| 5 B64 SK | 6.0 | 6.4 | 6.75 | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.875 | 1.4375 | 15.0 | 6 B64 SK | A-1 | SK | 2.63 | 0.625 | 1.3125 | 1.875 | 2.1875 | 17.0 |
| 5 B66 SK | 6.2 | 6.6 | 6.95 | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.875 | 1.4375 | 16.0 | 6 B66 SK | A-1 | SK | 2.63 | 0.625 | 1.3125 | 1.875 | 2.1875 | 18.0 |
| 5 B68 SK | 6.4 | 6.8 | 7.15 | A-1 | SK | 2.625 | 0.625 | 1.3125 | 1.875 | 1.4375 | 17.0 | 6 B68 SK | A-1 | SK | 2.63 | 0.625 | 1.3125 | 1.875 | 2.1875 | 19.0 |
| 5 B 70 SF | 6.6 | 7.0 | 7.35 | A-1 | SF | 2.9375 | 0.625 | 1.3125 | 2 | 1.3125 | 18.0 | 6 B 70 SF | A-1 | SF | 2.94 | 1 | 1.6875 | 2 | 1.6875 | 19.5 |
| 5 B 74 SF | 7.0 | 7.4 | 7.75 | A-1 | SF | 2.9375 | 0.625 | 1.3125 | 2 | 1.3125 | 20.0 | 6 B 74 SF | A-1 | SF | 2.94 | 1 | 1.6875 | 2 | 1.6875 | 22.0 |
| 5 B 80 SF | 7.6 | 8.0 | 8.35 | A-1 | SF | 2.9375 | 0.625 | 1.3125 | 2 | 1.3125 | 23.0 | 6 B 80 SF | A-1 | SF | 2.94 | 1 | 1.6875 | 2 | 1.6875 | 25.0 |
| 5 B 86 SF | 8.2 | 8.6 | 8.95 | A-2 | SF | 2.9375 | 0.625 | 1.3125 | 2 | 1.3125 | 24.0 | 6 B 86 SF | A-2 | SF | 2.94 | 1 | 1.6875 | 2 | 1.6875 | 28.0 |
| 5 B 94 SF | 9.0 | 9.4 | 9.75 | A-2 | SF | 2.9375 | 0.625 | 1.3125 | 2 | 1.3125 | 26.0 | 6 B 94 SF | A-2 | SF | 2.94 | 1 | 1.6875 | 2 | 1.6875 | 29.0 |
| 5 B 110 SF | 10.6 | 11.0 | 11.35 | A-2 | SF | 2.9375 | 0.625 | 1.3125 | 2 | 1.3125 | 32.0 | 6 B 110 SF | A-2 | SF | 2.94 | 1 | 1.6875 | 2 | 1.6875 | 30.0 |
| 5 B 124 SF | 12.0 | 12.4 | 12.75 | A-3 | SF | 2.9375 | 0.625 | 1.3125 | 2 | 1.3125 | 35.0 | 6 B 124 SF | A-3 | SF | 2.94 | 1 | 1.6875 | 2 | 1.6875 | 40.0 |
| 5 B 136 SF | 13.2 | 13.6 | 13.95 | A-3 | SF | 2.9375 | 0.625 | 1.3125 | 2 | 1.3125 | 36.0 | 6 B 136 SF | A-3 | SF | 2.94 | 1 | 1.6875 | 2 | 1.6875 | 45.0 |
| 5 B 154 SF | 15.0 | 15.4 | 15.75 | A-3 | SF | 2.9375 | 0.625 | 1.3125 | 2 | 1.3125 | 46.0 | 6 B 154 SF | A-3 | SF | 2.94 | 1 | 1.6875 | 2 | 1.6875 | 46.0 |
| 5 B 160 SF | 15.6 | 16.0 | 16.35 | A-3 | SF | 2.9375 | 0.625 | 1.3125 | 2 | 1.3125 | 48.0 | 6 B 160 SF | A-3 | SF | 2.94 | 1 | 1.6875 | 2 | 1.6875 | 50.0 |
| 5 B 184 SF | 18.0 | 18.4 | 18.75 | A-3 | SF | 2.9375 | 0.625 | 1.3125 | 2 | 1.3125 | 50.0 | 6 B 184 SF | A-3 | SF | 2.94 | 1 | 1.6875 | 2 | 1.6875 | 60.0 |
| 5 B 200 E | 19.6 | 20.0 | 20.35 | A-3 | E | 3.5 | 0.375 | 1.250 | 2.625 | 1 | 72.0 | 6 B 200 E | A-3 | E | 3.5 | 0.5 | 1.375 | 2.625 | 1.625 | 78.0 |
| 5 B 250 E | 24.6 | 25.0 | 25.35 | A-3 | E | 3.5 | 0.375 | 1.250 | 2.625 | 1 | 90.0 | 6 B 250 E | A-3 | E | 3.5 | 0.5 | 1.375 | 2.625 | 1.625 | 98.0 |
| 5 B 300 E | 29.6 | 30.0 | 30.35 | A-3 | E | 3.5 | 0.375 | 1.250 | 2.625 | 1 | 108.0 | 6 B 300 E | A-3 | E | 3.5 | 0.5 | 1.375 | 2.625 | 1.625 | 109.0 |
| 5 B 380 E | 37.6 | 38.0 | 38.35 | A-3 | E | 3.5 | 0.375 | 1.250 | 2.625 | 1 | 145.0 | 6 B 380 E | A-3 | E | 3.5 | 0.5 | 1.375 | 2.625 | 1.625 | 173.0 |

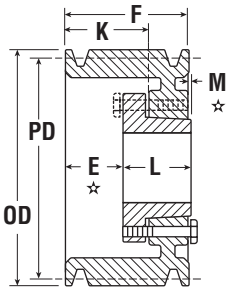
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.

★ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

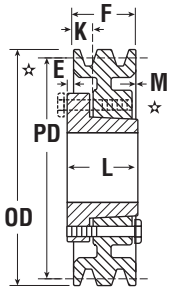
# Combination Groove Conventional Stock QD Sheaves A-B



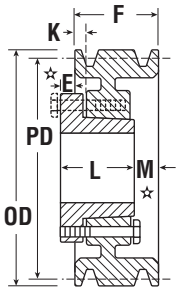

Type A



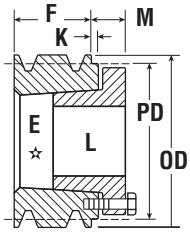

Type B




Type C




Type D



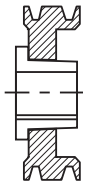

Type E

½ × 5⁄16

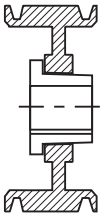
A

21⁄32 × 13⁄32

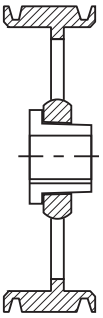
B



1 = Solid



2 = Web



3 = Arm/Spoke

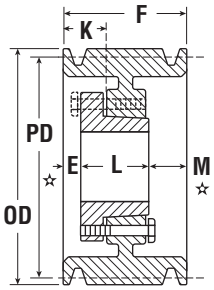
## QD Sheaves – A-B

| 8 Grooves F = 6 ¼ | | | | | | | | | | | | 10 Grooves F = 7 ¾ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | PD A Belt | PD B Belt | OD | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 8 B 54 SK | 5.0 | 5.4 | 5.75 | A-1 | SK | 2.625 | 1.125 | 1.8125 | 1.875 | 3.1875 | 14.0 | 10 B 54 SK | A-1 | SK | 2.625 | 1.875 | 2.5625 | 1.875 | 3.9375 | 15.0 |
| 8 B 56 SK | 5.2 | 5.6 | 5.95 | A-1 | SK | 2.625 | 1.125 | 1.8125 | 1.875 | 3.1875 | 16.0 | 10 B 56 SK | A-1 | SK | 2.625 | 1.875 | 2.5625 | 1.875 | 3.9375 | 18.0 |
| 8 B 58 SK | 5.4 | 5.8 | 6.15 | A-1 | SK | 2.625 | 1.125 | 1.8125 | 1.875 | 3.1875 | 16.5 | 10 B 58 SK | A-1 | SK | 2.625 | 1.875 | 2.5625 | 1.875 | 3.9375 | 20.0 |
| 8 B 60 SF | 5.6 | 6.0 | 6.35 | A-1 | SF | 2.9375 | 1.125 | 1.8125 | 2 | 3.0625 | 17.0 | 10 B 60 SF | A-1 | SF | 2.9375 | 1.875 | 2.5625 | 2 | 3.8125 | 22.0 |
| 8 B 62 SF | 5.8 | 6.2 | 6.55 | A-1 | SF | 2.9375 | 1.125 | 1.8125 | 2 | 3.0625 | 18.0 | 10 B 62 SF | A-1 | SF | 2.9375 | 1.875 | 2.5625 | 2 | 3.8125 | 24.0 |
| 8 B 64 SF | 6.0 | 6.4 | 6.75 | A-1 | SF | 2.9375 | 1.125 | 1.8125 | 2 | 3.0625 | 18.5 | 10 B 64 SF | A-1 | SF | 2.9375 | 1.875 | 2.5625 | 2 | 3.8125 | 25.0 |
| 8 B 66 SF | 6.2 | 6.6 | 6.95 | A-1 | SF | 2.9375 | 1.125 | 1.8125 | 2 | 3.0625 | 21.0 | 10 B 66 SF | A-1 | SF | 2.9375 | 1.875 | 2.5625 | 2 | 3.8125 | 26.0 |
| 8 B 68 SF | 6.4 | 6.8 | 7.15 | A-1 | SF | 2.9375 | 1.125 | 1.8125 | 2 | 3.0625 | 22.0 | 10 B 68 SF | A-1 | SF | 2.9375 | 1.875 | 2.5625 | 2 | 3.8125 | 27.0 |
| 8 B 70 SF | 6.6 | 7.0 | 7.35 | A-1 | SF | 2.9375 | 1.125 | 1.8125 | 2 | 3.0625 | 22.5 | 10 B 70 SF | A-1 | SF | 2.9375 | 1.875 | 2.5625 | 2 | 3.8125 | 28.0 |
| 8 B 74 SF | 7.0 | 7.4 | 7.75 | A-1 | SF | 2.9375 | 1.125 | 1.8125 | 2 | 3.0625 | 25.0 | 10 B 74 SF | A-1 | SF | 2.9375 | 1.875 | 2.5625 | 2 | 3.8125 | 31.0 |
| 8 B 80 SF | 7.6 | 8.0 | 8.35 | A-1 | SF | 2.9375 | 1.125 | 1.8125 | 2 | 3.0625 | 29.0 | 10 B 80 SF | A-1 | SF | 2.9375 | 1.875 | 2.5625 | 2 | 3.8125 | 35.0 |
| 8 B 86 E | 8.2 | 8.6 | 8.95 | A-1 | E | 3.5 | 1.5 | 2.375 | 2.625 | 2.125 | 34.0 | 10 B 86 E | A-1 | E | 3.5 | 2.25 | 3.125 | 2.625 | 2.875 | 38.0 |
| 8 B 94 E | 9.0 | 9.4 | 9.75 | A-1 | E | 3.5 | 1.5 | 2.375 | 2.625 | 2.125 | 40.0 | 10 B 94 E | A-1 | E | 3.5 | 2.25 | 3.125 | 2.625 | 2.875 | 45.0 |
| 8 B 110 E | 10.6 | 11.0 | 11.35 | A-2 | E | 3.5 | 1.5 | 2.375 | 2.625 | 2.125 | 47.0 | 10 B 110 E | A-2 | E | 3.5 | 2.25 | 3.125 | 2.625 | 2.875 | 53.0 |
| 8 B 124 E | 12.0 | 12.4 | 12.75 | A-3 | E | 3.5 | 1.5 | 2.375 | 2.625 | 2.125 | 52.0 | 10 B 124 E | A-3 | E | 3.5 | 2.25 | 3.125 | 2.625 | 2.875 | 63.0 |
| 8 B 136 E | 13.2 | 13.6 | 13.95 | A-3 | E | 3.5 | 1.5 | 2.375 | 2.625 | 2.125 | 60.0 | 10 B 136 F | A-3 | F | 3.9375 | 1.0625 | 2.0625 | 3.625 | 3.0625 | 78.0 |
| 8 B 154 E | 15.0 | 15.4 | 15.75 | A-3 | E | 3.5 | 1.5 | 2.375 | 2.625 | 2.125 | 82.0 | 10 B 154 F | A-3 | F | 3.9375 | 1.0625 | 2.0625 | 3.625 | 3.0625 | 90.0 |
| 8 B 160 E | 15.6 | 16.0 | 16.35 | A-3 | E | 3.5 | 1.5 | 2.375 | 2.625 | 2.125 | 90.0 | 10 B 160 F | A-3 | F | 3.9375 | 1.0625 | 2.0625 | 3.625 | 3.0625 | 96.0 |
| 8 B 184 F | 18.0 | 18.4 | 18.75 | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 2.3125 | 110.0 | 10 B 184 F | A-3 | F | 3.9375 | 1.0625 | 2.0625 | 3.625 | 3.0625 | 113.0 |
| 8 B 200 F | 19.6 | 20.0 | 20.35 | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 2.3125 | 122.0 | 10 B 200 F | A-3 | F | 3.9375 | 1.0625 | 2.0625 | 3.625 | 3.0625 | 114.0 |
| 8 B 250 F | 24.6 | 25.0 | 25.35 | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 2.3125 | 138.0 | 10 B 250 F | A-3 | F | 3.9375 | 1.0625 | 2.0625 | 3.625 | 3.0625 | 138.0 |
| 8 B 300 F | 29.6 | 30.0 | 30.35 | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 2.3125 | 168.0 | 10 B 300 F | A-3 | F | 3.9375 | 1.0625 | 2.0625 | 3.625 | 3.0625 | 200.0 |
| 8 B 380 F | 37.6 | 38.0 | 38.35 | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 2.3125 | 222.0 | 10 B 380 J | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 2.875 | 279.0 |

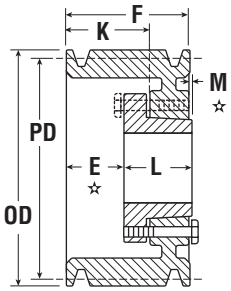
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.

★ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

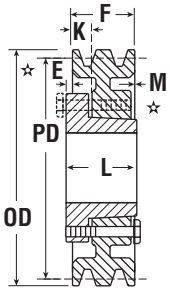
# C Conventional Stock QD Sheaves



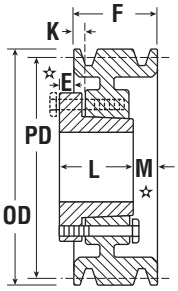

Type A



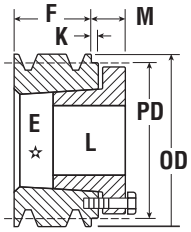

Type B



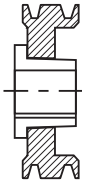

Type C



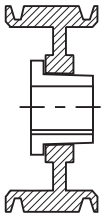

Type D



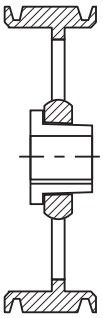

Type E



1 = Solid



2 = Web



3 = Arm/Spoke

7/8 × 17/32

C

## QD Sheaves – C

| 1 Groove | | | | | | | | | | | 2 Grooves | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F =1 3/8 | | | | | | | | | | | F = 2 3/8 | | | | | | | | |
| Part Number | PD C Belt | OD | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 1 C 60 SK | 6.0 | 6.4 | C-1 | SK | 2.625 | 0.5625 | 0.125 | 1.875 | 0 | 9.4 | 2 C 60 SF | A-1 | SF | 2.9375 | 0.188 | 0.875 | 2 | 0.125 | 8.0 |
| 1 C 70 SF | 7.0 | 7.4 | C-1 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 9.8 | 2 C 70 SF | A-1 | SF | 2.9375 | 0.125 | 0.8125 | 2 | 0.1875 | 12.0 |
| 1 C 75 SF | 7.5 | 7.9 | C-1 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 11.0 | 2 C 75 SF | A-1 | SF | 2.9375 | 0.125 | 0.8125 | 2 | 0.1875 | 15.0 |
| 1 C 80 SF | 8.0 | 8.4 | C-1 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 13.0 | 2 C 80 SF | A-1 | SF | 2.9375 | 0.125 | 0.8125 | 2 | 0.1875 | 16.0 |
| 1 C 85 SF | 8.5 | 8.9 | C-1 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 13.3 | 2 C 85 SF | A-1 | SF | 2.9375 | 0.125 | 0.8125 | 2 | 0.1875 | 19.0 |
| 1 C 90 SF | 9.0 | 9.4 | C-3 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 13.5 | 2 C 90 SF | A-2 | SF | 2.9375 | 0.125 | 0.8125 | 2 | 0.1875 | 19.5 |
| 1 C 95 SF | 9.5 | 9.9 | C-3 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 13.8 | 2 C 95 SF | A-2 | SF | 2.9375 | 0.125 | 0.8125 | 2 | 0.1875 | 21.0 |
| 1 C 100 SF | 10.0 | 10.4 | C-3 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 14.0 | 2 C 100 SF | A-2 | SF | 2.9375 | 0.125 | 0.8125 | 2 | 0.1875 | 22.0 |
| 1 C 105 SF | 10.5 | 10.9 | C-3 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 15.0 | 2 C 105 SF | A-2 | SF | 2.9375 | 0.125 | 0.8125 | 2 | 0.1875 | 25.0 |
| 1 C 110 SF | 11.0 | 11.4 | C-3 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 15.8 | 2 C 110 SF | A-3 | SF | 2.9375 | 0.125 | 0.8125 | 2 | 0.1875 | 26.0 |
| 1 C 120 SF | 12.0 | 12.4 | C-3 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 17.0 | 2 C 120 SF | D-3 | SF | 2.9375 | 0.125 | 0.5625 | 2 | 0.4375 | 29.0 |
| 1 C 130 SF | 13.0 | 13.4 | C-3 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 18.0 | 2 C 130 SF | D-3 | SF | 2.9375 | 0.125 | 0.5625 | 2 | 0.4375 | 31.0 |
| 1 C 140 SF | 14.0 | 14.4 | C-3 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 20.0 | 2 C 140 SF | D-3 | SF | 2.9375 | 0.125 | 0.5625 | 2 | 0.4375 | 35.0 |
| 1 C 150 SF | 15.0 | 15.4 | C-3 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 21.0 | 2 C 150 SF | D-3 | SF | 2.9375 | 0.125 | 0.5625 | 2 | 0.4375 | 39.0 |
| 1 C 160 SF | 16.0 | 16.4 | C-3 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 24.0 | 2 C 160 SF | D-3 | SF | 2.9375 | 0.125 | 0.5625 | 2 | 0.4375 | 43.0 |
| 1 C 180 SF | 18.0 | 18.4 | C-3 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 27.0 | 2 C 180 SF | D-3 | SF | 2.9375 | 0.125 | 0.5625 | 2 | 0.4375 | 48.0 |
| 1 C 200 SF | 20.0 | 20.4 | C-3 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 31.0 | 2 C 200 SF | D-3 | SF | 2.9375 | 0.125 | 0.5625 | 2 | 0.4375 | 55.0 |
| 1 C 240 SF | 24.0 | 24.4 | C-3 | SF | 2.9375 | 0.5625 | 0.125 | 2 | 0.125 | 37.0 | 2 C 240 SF | D-3 | SF | 2.9375 | 0.125 | 0.5625 | 2 | 0.4375 | 65.0 |
| – | 27.0 | 27.4 | – | – | – | – | – | – | – | – | 2 C 270 F | C-3 | F | 3.9375 | 0.6875 | 0.3125 | 3.625 | 0.5625 | 107.0 |
| – | 30.0 | 30.4 | – | – | – | – | – | – | – | – | 2 C 300 F | C-3 | F | 3.9375 | 0.6875 | 0.3125 | 3.625 | 0.5625 | 115.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.
★ E and M dimensions are nominal and will vary depending on shaft tolerances. Type E sheaves are drilled for reverse mounting only.

# Conventional Stock QD Sheaves C

## 3 Grooves — F =3 ⅜

| Part Number | PD C Belt | OD | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 C 50 SD | 5.0 | 5.4 | A-1 | SD | 2 | 0.63 | 1.250 | 1.815 | 1 | 8.0 |
| 3 C 54 SD | 5.4 | 5.8 | A-1 | SD | 2 | 0.7 | 1.3 | 1.815 | 0.9 | 9.0 |
| 3 C 55 SD | 5.5 | 5.9 | A-1 | SD | 2 | 0.7 | 1.3 | 1.815 | 0.9 | 10.0 |
| 3 C 56 SD | 5.6 | 6.0 | A-1 | SD | 2 | 0.7 | 1.3 | 1.815 | 0.9 | 11.0 |
| 3 C 60 SF | 6.0 | 6.4 | A-1 | SF | 2.9375 | 0.2 | 0.9 | 2 | 1.1 | 12.0 |
| 3 C 70 SF | 7.0 | 7.4 | A-1 | SF | 2.9375 | 0.6 | 1.3 | 2 | 0.7 | 14.0 |
| 3 C 75 SF | 7.5 | 7.9 | A-1 | SF | 2.9375 | 0.6 | 1.3 | 2 | 0.7 | 17.0 |
| 3 C 80 E | 8.0 | 8.4 | B-1 | E | 3.5 | 0.9 | 1.8 | 2.625 | 0.1 | 19.0 |
| 3 C 85 E | 8.5 | 8.9 | B-1 | E | 3.5 | 0.9 | 1.8 | 2.625 | 0.1 | 22.0 |
| 3 C 90 E | 9.0 | 9.4 | B-1 | E | 3.5 | 0.9 | 1.8 | 2.625 | 0.1 | 26.0 |
| 3 C 95 E | 9.5 | 9.9 | B-1 | E | 3.5 | 0.9 | 1.8 | 2.625 | 0.1 | 29.0 |
| 3 C 100 E | 10.0 | 10.4 | B-1 | E | 3.5 | 0.9 | 1.8 | 2.625 | 0.1 | 27.0 |
| 3 C 105 E | 10.5 | 10.9 | B-2 | E | 3.5 | 0.9 | 1.8 | 2.625 | 0.1 | 31.0 |
| 3 C 110 E | 11.0 | 11.4 | B-2 | E | 3.5 | 0.9 | 1.8 | 2.625 | 0.1 | 38.0 |
| 3 C 120 E | 12.0 | 12.4 | B-3 | E | 3.5 | 0.9 | 1.8 | 2.625 | 0.1 | 40.0 |
| 3 C 130 E | 13.0 | 13.4 | B-3 | E | 3.5 | 0.9 | 1.8 | 2.625 | 0.1 | 43.0 |
| 3 C 140 E | 14.0 | 14.4 | B-3 | E | 3.5 | 0.9 | 1.8 | 2.625 | 0.1 | 46.0 |
| 3 C 150 E | 15.0 | 15.4 | B-3 | E | 3.5 | 0.9 | 1.8 | 2.625 | 0.1 | 52.0 |
| 3 C 160 E | 16.0 | 16.4 | B-3 | E | 3.5 | 0.9 | 1.8 | 2.625 | 0.1 | 58.0 |
| 3 C 180 E | 18.0 | 18.4 | B-3 | E | 3.5 | 0.9 | 1.8 | 2.625 | 0.1 | 67.0 |
| 3 C 200 E | 20.0 | 20.4 | A-3 | E | 3.5 | 0.1 | 1.0 | 2.625 | 0.6 | 70.0 |
| 3 C 240 E | 24.0 | 24.4 | A-3 | E | 3.5 | 0.1 | 1.0 | 2.625 | 0.6 | 90.0 |
| 3 C 270 F | 27.0 | 27.4 | C-3 | F | 3.94 | 0.2 | 1.2 | 3.625 | 0.1 | 124.0 |
| 3 C 300 F | 30.0 | 30.4 | C-3 | F | 3.94 | 0.2 | 1.2 | 3.625 | 0.1 | 130.0 |
| 3 C 360 F | 36.0 | 36.4 | C-3 | F | 3.94 | 0.2 | 1.2 | 3.625 | 0.1 | 166.0 |
| 3 C 440 F | 44.0 | 44.4 | C-3 | F | 3.94 | 0.2 | 1.2 | 3.625 | 0.1 | 208.0 |
| 3 C 500 F | 50.0 | 50.4 | C-3 | F | 3.94 | 0.2 | 1.2 | 3.625 | 0.1 | 250.0 |

## 4 Grooves — F = 4 ⅜

| Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|
| 4 C 50 SD | A-1 | SD | 2 | 0.625 | 1.25 | 1.815 | 1.9375 | 10.0 |
| 4 C 54 SD | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.815 | 1.875 | 12.0 |
| 4 C 55 SD | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.815 | 1.875 | 12.4 |
| 4 C 56 SD | A-1 | SD | 2 | 0.6875 | 1.3125 | 1.815 | 1.875 | 12.4 |
| 4 C 60 SF | A-1 | SF | 2.9375 | 0.1875 | 0.875 | 2 | 2.125 | 12.6 |
| 4 C 70 SF | A-2 | SF | 2.9375 | 0.875 | 1.1875 | 2 | 1.4375 | 13.0 |
| 4 C 75 SF | A-2 | SF | 2.9375 | 0.875 | 1.1875 | 2 | 1.4375 | 19.0 |
| 4 C 80 E | A-2 | E | 3.5 | 1.125 | 2 | 2.625 | 0.625 | 24.0 |
| 4 C 85 E | A-1 | E | 3.5 | 1.125 | 2 | 2.625 | 0.625 | 27.0 |
| 4 C 90 E | A-1 | E | 3.5 | 1.125 | 2 | 2.625 | 0.625 | 30.0 |
| 4 C 95 E | A-1 | E | 3.5 | 1.125 | 2 | 2.625 | 0.625 | 33.0 |
| 4 C 100 E | A-1 | E | 3.5 | 1.125 | 2 | 2.625 | 0.625 | 35.0 |
| 4 C 105 E | A-2 | E | 3.5 | 1.125 | 2 | 2.625 | 0.625 | 40.0 |
| 4 C 110 E | A-1 | E | 3.5 | 1.125 | 2 | 2.625 | 0.625 | 45.0 |
| 4 C 120 E | A-1 | E | 3.5 | 1.125 | 2 | 2.625 | 0.625 | 48.0 |
| 4 C 130 E | A-3 | E | 3.5 | 1.125 | 2 | 2.625 | 0.625 | 49.0 |
| 4 C 140 E | A-3 | E | 3.5 | 1.125 | 2 | 2.625 | 0.625 | 56.0 |
| 4 C 150 E | A-3 | E | 3.5 | 1.125 | 2 | 2.625 | 0.625 | 62.0 |
| 4 C 160 E | A-3 | E | 3.5 | 1.125 | 2 | 2.625 | 0.625 | 68.0 |
| 4 C 180 E | A-3 | E | 3.5 | 1.125 | 2 | 2.625 | 0.625 | 74.0 |
| 4 C 200 E | A-3 | E | 3.5 | 0.625 | 2 | 2.625 | 1.125 | 81.0 |
| 4 C 240 F | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 0.4375 | 120.0 |
| 4 C 270 F | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 0.4375 | 138.0 |
| 4 C 300 F | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 0.4375 | 166.0 |
| 4 C 360 F | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 0.4375 | 176.0 |
| 4 C 440 J | B-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 0.5 | 254.0 |
| 4 C 500 J | B-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 0.5 | 318.0 |

## 5 Grooves — F =5 ⅜

| Part Number | PD C Belt | OD | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|
| 5 C 60 SF | 6.0 | 6.4 | A-1 | SF | 2.9375 | 0.375 | 0.875 | 2 | 3.125 | 14.0 |
| 5 C 70 SF | 7.0 | 7.4 | A-1 | SF | 2.9375 | 1.25 | 1.9375 | 2 | 2.0625 | 19.0 |
| 5 C 75 SF | 7.5 | 7.9 | A-1 | SF | 2.9375 | 1.25 | 1.9375 | 2 | 2.0625 | 22.0 |
| 5 C 80 E | 8.0 | 8.4 | A-1 | E | 3.5 | 1.5 | 2.375 | 2.625 | 1.25 | 28.0 |
| 5 C 85 E | 8.5 | 8.9 | A-1 | E | 3.5 | 1.5 | 2.375 | 2.625 | 1.25 | 31.0 |
| 5 C 90 E | 9.0 | 9.4 | A-1 | E | 3.5 | 1.5 | 2.375 | 2.625 | 1.25 | 32.0 |
| 5 C 95 E | 9.5 | 9.9 | A-1 | E | 3.5 | 1.5 | 2.375 | 2.625 | 1.25 | 36.0 |
| 5 C 100 E | 10 | 10.4 | A-2 | E | 3.5 | 1.5 | 2.375 | 2.625 | 1.25 | 38.0 |
| 5 C 105 E | 10.5 | 10.9 | A-2 | E | 3.5 | 1.5 | 2.375 | 2.625 | 1.25 | 43.0 |
| 5 C 110 E | 11 | 11.4 | A-1 | E | 3.5 | 1.5 | 2.375 | 2.625 | 1.25 | 50.0 |
| 5 C 120 E | 12 | 12.4 | A-1 | E | 3.5 | 1.5 | 2.375 | 2.625 | 1.25 | 55.0 |
| 5 C 130 E | 13 | 13.4 | A-3 | E | 3.5 | 1.5 | 2.375 | 2.625 | 1.25 | 58.0 |
| 5 C 140 E | 14 | 14.4 | A-3 | E | 3.5 | 1.5 | 2.375 | 2.625 | 1.25 | 61.0 |
| 5 C 150 E | 15 | 15.4 | A-3 | E | 3.5 | 1.5 | 2.375 | 2.625 | 1.25 | 69.0 |
| 5 C 160 E | 16 | 16.4 | A-3 | E | 3.5 | 1.5 | 2.375 | 2.625 | 1.25 | 75.0 |
| 5 C 180 E | 18 | 18.4 | A-3 | E | 3.5 | 1.5 | 2.375 | 2.625 | 1.25 | 85.0 |
| 5 C 200 F | 20 | 20.4 | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 1.4375 | 108.0 |
| 5 C 240 F | 24 | 24.4 | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 1.4375 | 124.0 |
| 5 C 270 F | 27 | 27.4 | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 1.4375 | 154.0 |
| 5 C 300 F | 30 | 30.4 | A-3 | F | 3.9375 | 0.3125 | 1.3125 | 3.625 | 1.4375 | 174.0 |
| 5 C 360 J | 36 | 36.4 | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 0.5 | 226.0 |
| 5 C 440 J | 44 | 44.4 | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 0.5 | 289.0 |
| 5 C 500 J | 50 | 50.4 | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 0.5 | 316.0 |

## 6 Grooves — F = 6 ⅜

| Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|
| 6 C 60 SF | A-1 | SF | 2.9375 | 0.1875 | 0.875 | 2 | 4.125 | 16.0 |
| 6 C 70 SF | A-1 | SF | 2.9375 | 1.25 | 1.9375 | 2 | 3.0625 | 22.0 |
| 6 C 75 SF | A-1 | SF | 2.9375 | 1.25 | 1.9375 | 2 | 3.0625 | 25.0 |
| 6 C 80 E | A-1 | E | 3.5 | 1.5 | 2.3750 | 2.625 | 2.25 | 31.0 |
| 6 C 85 E | A-1 | E | 3.5 | 1.5 | 2.3750 | 2.625 | 2.25 | 35.0 |
| 6 C 90 F | A-1 | F | 3.9375 | 1.4375 | 2.4375 | 3.625 | 1.3125 | 40.0 |
| 6 C 95 F | A-1 | F | 3.9375 | 1.4375 | 2.4375 | 3.625 | 1.3125 | 44.0 |
| 6 C 100 F | A-1 | F | 3.9375 | 1.4375 | 2.4375 | 3.625 | 1.3125 | 50.0 |
| 6 C 105 F | A-1 | F | 3.9375 | 1.4375 | 2.4375 | 3.625 | 1.3125 | 56.0 |
| 6 C 110 F | A-1 | F | 3.9375 | 1.4375 | 2.4375 | 3.625 | 1.3125 | 60.0 |
| 6 C 120 F | A-1 | F | 3.9375 | 1.4375 | 2.4375 | 3.625 | 1.3125 | 65.0 |
| 6 C 130 F | A-3 | F | 3.9375 | 1.4375 | 2.4375 | 3.625 | 1.3125 | 67.0 |
| 6 C 140 F | A-3 | F | 3.9375 | 1.4375 | 2.4375 | 3.625 | 1.3125 | 75.0 |
| 6 C 150 F | A-3 | F | 3.9375 | 1.4375 | 2.4375 | 3.625 | 1.3125 | 91.0 |
| 6 C 160 F | A-3 | F | 3.9375 | 1.4375 | 2.4375 | 3.625 | 1.3125 | 93.0 |
| 6 C 180 F | A-3 | F | 3.9375 | 1.4375 | 2.4375 | 3.625 | 1.3125 | 106.0 |
| 6 C 200 F | A-3 | F | 3.9375 | 1.3125 | 1.9375 | 3.625 | 1.8125 | 125.0 |
| 6 C 240 F | A-3 | F | 3.9375 | 1.3125 | 1.9375 | 3.625 | 1.8125 | 162.0 |
| 6 C 270 J | A-3 | J | 3.9375 | 0.375 | 1.5625 | 4.5 | 1.5 | 190.0 |
| 6 C 300 J | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 1.5 | 229.0 |
| 6 C 360 J | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 1.5 | 270.0 |
| 6 C 440 J | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 1.5 | 301.0 |
| 6 C 500 M | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 0.875 | 444.0 |

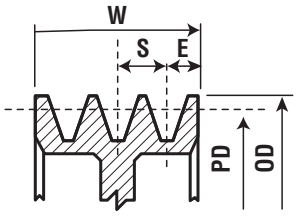
# C Conventional Stock QD Sheaves

## QD Sheaves – C

| 8 Grooves | | | | | | | | | | | 10 Grooves | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F =8 3/8 | | | | | | | | | | | F = 10 3/8 | | | | | | | | |
| Part Number | PD C Belt | OD | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 8 C 70 SF | 7 | 7.4 | A-1 | SF | 2.9375 | 2.3125 | 3 | 2 | 4 | 35.0 | – | – | – | – | – | – | – | – | – |
| 8 C 80 E | 8 | 8.4 | A-1 | E | 3.5 | 2.375 | 3.25 | 2.625 | 3.375 | 36.6 | 10 C 80 E | A-1 | E | 4 | 2.375 | 3.25 | 2.625 | 5.375 | 42.8 |
| 8 C 85 E | 8.5 | 8.9 | A-1 | E | 3.5 | 2.375 | 3.25 | 2.625 | 3.375 | 41.0 | 10 C 85 E | A-1 | E | 4 | 2.375 | 3.25 | 2.625 | 5.375 | 48.5 |
| 8 C 90 F | 9 | 9.4 | A-1 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 2.4375 | 50.0 | 10 C 90 J | A-1 | J | 5 | 2.375 | 3.5625 | 4.5 | 3.5 | 54.0 |
| 8 C 95 F | 9.5 | 9.9 | A-1 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 2.4375 | 51.0 | 10 C 95 J | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 3.5 | 60.0 |
| 8 C 100 F | 10 | 10.4 | A-1 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 2.4375 | 60.0 | 10 C 100 J | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 3.5 | 68.0 |
| 8 C 105 F | 10.5 | 10.9 | A-1 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 2.4375 | 67.0 | 10 C 105 J | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 3.5 | 75.0 |
| 8 C 110 F | 11 | 11.4 | A-1 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 2.4375 | 74.0 | 10 C 110 J | A-1 | J | 4.5 | 2.375 | 4 | 4.5 | 3.5 | 90.0 |
| 8 C 120 F | 12 | 12.4 | A-1 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 2.4375 | 87.0 | 10 C 120 J | A-1 | J | 4.5 | 2.375 | 4 | 4.5 | 3.5 | 106.0 |
| 8 C 130 F | 13 | 13.4 | A-3 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 2.4375 | 94.0 | 10 C 130 J | A-2 | J | 4.5 | 2.375 | 4 | 4.5 | 3.5 | 110.0 |
| 8 C 140 F | 14 | 14.4 | A-3 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 2.4375 | 99.0 | 10 C 140 J | A-2 | J | 4.5 | 2.375 | 4 | 4.5 | 3.5 | 124.0 |
| 8 C 150 F | 15 | 15.4 | A-2 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 2.4375 | 111.0 | 10 C 150 J | A-2 | J | 4.5 | 2.375 | 4 | 4.5 | 3.5 | 138.0 |
| 8 C 160 F | 16 | 16.4 | A-3 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 2.4375 | 112.0 | 10 C 160 J | A-3 | J | 4.5 | 2.375 | 4 | 4.5 | 3.5 | 139.0 |
| 8 C 180 F | 18 | 18.4 | A-3 | F | 3.9375 | 2.3125 | 3.3125 | 3.625 | 2.4375 | 116.0 | 10 C 180 J | A-3 | J | 4.5 | 2.375 | 4 | 4.5 | 3.5 | 168.0 |
| 8 C 200 J | 20 | 20.4 | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 3.5 | 146.0 | 10 C 200 J | A-3 | J | 4.5 | 2.375 | 4 | 4.5 | 3.5 | 182.0 |
| 8 C 240 J | 24 | 24.4 | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 3.5 | 195.0 | 10 C 240 M | A-3 | M | 5.5 | 0.500 | 2 | 6.75 | 3.125 | 272.0 |
| 8 C 270 J | 27 | 27.4 | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 3.5 | 216.0 | – | – | – | – | – | – | – | – | – |
| 8 C 300 J | 30 | 30.4 | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 3.5 | 268.0 | 10 C 300 M | A-3 | M | 5.5 | 0.500 | 2 | 6.75 | 3.125 | 355.0 |
| 8 C 360 M | 36 | 36.4 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.125 | 364.0 | 10 C 360 M | A-3 | M | 5.5 | 0.500 | 2 | 6.75 | 3.125 | 455.0 |
| 8 C 440 M | 44 | 44.4 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.125 | 413.0 | 10 C 440 M | A-3 | M | 5.5 | 0.500 | 2 | 6.75 | 3.125 | 544.0 |
| 8 C 500 M | 50 | 50.4 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.125 | 474.0 | 10 C 500 M | A-3 | M | 5.5 | 0.500 | 2 | 6.75 | 3.125 | 622.0 |

| 12 Grooves | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| F =12 3/8 | | | | | | | | | | |
| Part Number | PD C Belt | OD | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 12 C 90 J | 9 | 9.4 | A-1 | J | 4.5 | 2.875 | 4.0625 | 4.5 | 5 | 63.0 |
| 12 C 95 J | 9.5 | 9.9 | A-1 | J | 4.5 | 2.875 | 4.0625 | 4.5 | 5 | 75.0 |
| 12 C 100 J | 10 | 10.4 | A-1 | J | 4.5 | 2.875 | 4.0625 | 4.5 | 5 | 84.0 |
| 12 C 105 J | 10.5 | 10.9 | A-1 | J | 4.5 | 2.875 | 4.0625 | 4.5 | 5 | 86.0 |
| 12 C 110 J | 11 | 11.4 | A-1 | J | 4.5 | 2.875 | 4.0625 | 4.5 | 5 | 97.0 |
| 12 C 120 J | 12 | 12.4 | A-1 | J | 4.5 | 2.875 | 4.0625 | 4.5 | 5 | 119.0 |
| 12 C 130 J | 13 | 13.4 | A-2 | J | 4.5 | 2.875 | 4.0625 | 4.5 | 5 | 125.0 |
| 12 C 140 J | 14 | 14.4 | A-2 | J | 4.5 | 2.875 | 4.0625 | 4.5 | 5 | 139.0 |
| 12 C 150 J | 15 | 15.4 | A-2 | J | 4.5 | 2.875 | 4.0625 | 4.5 | 5 | 156.0 |
| 12 C 160 J | 16 | 16.4 | A-3 | J | 4.5 | 2.875 | 4.0625 | 4.5 | 5 | 175.0 |
| 12 C 180 J | 18 | 18.4 | A-3 | J | 4.5 | 2.875 | 4.0625 | 4.5 | 5 | 185.0 |
| 12 C 200 M | 20 | 20.4 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 5.125 | 228.0 |
| 12 C 240 M | 24 | 24.4 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 5.125 | 287.0 |
| 12 C 300 M | 30 | 30.4 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 5.125 | 350.0 |
| 12 C 360 M | 36 | 36.4 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 5.125 | 430.0 |
| 12 C 440 M | 44 | 44.4 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 5.125 | 565.0 |
| 12 C 500 M | 50 | 50.4 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 5.125 | 595.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.




### Combination Groove Dimensions

| Belt Selection | E | S | OD |
|---|---|---|---|
| C | .6875 | 1 | PD B + .40 |

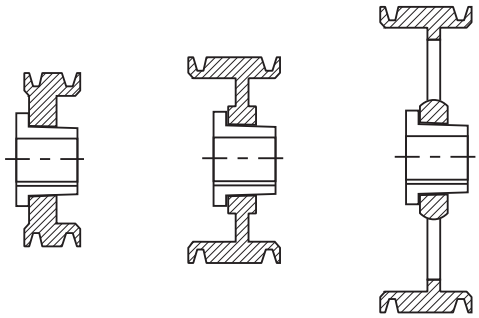
W = S(N-1) + 2E
N = No. of Grooves

## QD Sheaves – D

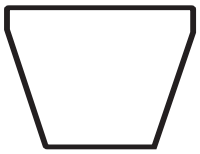
| 3 Grooves F =4 5/8 | | | | | | | | | | | 4 Grooves F = 6 3/16 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | PD D Belt | OD | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 3 D 120 F | 12 | 12.6 | A-2 | F | 3.9375 | 0.5 | 1.5 | 3.625 | 0.5 | 58.0 | 4 D 120 F | A-2 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 1.125 | 68.0 |
| 3 D 130 F | 13 | 13.6 | A-2 | F | 3.9375 | 0.5 | 1.5 | 3.625 | 0.5 | 63.0 | 4 D 130 F | A-2 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 1.125 | 78.0 |
| 3 D 135 F | 13.5 | 14.1 | A-2 | F | 3.9375 | 0.5 | 1.5 | 3.625 | 0.5 | 68.0 | 4 D 135 F | A-2 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 1.125 | 82.0 |
| 3 D 140 F | 14 | 14.6 | A-2 | F | 3.9375 | 0.5 | 1.5 | 3.625 | 0.5 | 71.0 | 4 D 140 F | A-2 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 1.125 | 91.0 |
| 3 D 145 F | 14.5 | 15.1 | A-2 | F | 3.9375 | 0.5 | 1.5 | 3.625 | 0.5 | 82.0 | 4 D 145 F | A-2 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 1.125 | 93.0 |
| 3 D 150 F | 15 | 15.6 | A-2 | F | 3.9375 | 0.5 | 1.5 | 3.625 | 0.5 | 86.0 | 4 D 150 F | A-2 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 1.125 | 99.0 |
| 3 D 155 F | 15.5 | 16.1 | A-2 | F | 3.9375 | 0.5 | 1.5 | 3.625 | 0.5 | 93.0 | 4 D 155 F | A-2 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 1.125 | 111.0 |
| 3 D 160 F | 16 | 16.6 | A-2 | F | 3.9375 | 0.5 | 1.5 | 3.625 | 0.5 | 95.0 | 4 D 160 F | A-2 | F | 3.9375 | 1.3125 | 2.3125 | 3.625 | 1.125 | 122.0 |
| – | – | – | – | – | – | – | – | – | – | – | 4 D 170 J | A-2 | J | 4.5 | 1.375 | 2.3125 | 4.5 | 0.1875 | 136.0 |
| 3 D 180 J | 18 | 18.6 | A-3 | J | 4.5 | – | 1.1875 | 4.5 | 0.125 | 105.0 | 4 D 180 J | A-3 | J | 4.5 | 1.375 | 2.3125 | 4.5 | 0.1875 | 141.0 |
| 3 D 200 J | 20 | 20.6 | A-2 | J | 4.5 | – | 1.1875 | 4.5 | 0.125 | 148.0 | 4 D 200 J | A-2 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 1.1875 | 167.0 |
| 3 D 220 J | 22 | 22.6 | A-3 | J | 4.5 | – | 1.1875 | 4.5 | 0.125 | 164.0 | 4 D 220 J | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 1.1875 | 183.0 |
| 3 D 270 J | 27 | 27.6 | A-3 | J | 4.5 | – | 1.1875 | 4.5 | 0.125 | 180.0 | 4 D 270 J | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 1.1875 | 222.0 |
| 3 D 330 J | 33 | 33.6 | A-3 | J | 4.5 | – | 1.1875 | 4.5 | 0.125 | 195.0 | 4 D 330 M | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.1875 | 315.0 |
| 3 D 400 J | 40 | 40.6 | A-3 | J | 4.5 | – | 1.1875 | 4.5 | 0.125 | 260.0 | 4 D 400 M | B-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.1875 | 337.0 |

| 5 Grooves F =7 1/2 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | PD D Belt | OD | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 5 D 120 F | 12 | 12.6 | A-2 | F | 3.9375 | 2.0625 | 3.0625 | 3.625 | 1.8125 | 87.0 |
| 5 D 130 F | 13 | 13.6 | A-2 | F | 3.9375 | 2.0625 | 3.0625 | 3.625 | 1.8125 | 88.0 |
| 5 D 135 F | 13.5 | 14.1 | A-2 | F | 3.9375 | 2.0625 | 3.0625 | 3.625 | 1.8125 | 92.0 |
| 5 D 140 F | 14 | 14.6 | A-2 | F | 3.9375 | 2.0625 | 3.0625 | 3.625 | 1.8125 | 96.0 |
| 5 D 145 F | 14.5 | 15.1 | A-2 | F | 3.9375 | 2.0625 | 3.0625 | 3.625 | 1.8125 | 111.0 |
| 5 D 150 F | 15 | 15.6 | A-2 | F | 3.9375 | 2.0625 | 3.0625 | 3.625 | 1.8125 | 115.0 |
| 5 D 155 F | 15.5 | 16.1 | A-2 | F | 3.9375 | 2.0625 | 3.0625 | 3.625 | 1.8125 | 121.0 |
| 5 D 160 F | 16 | 16.6 | A-2 | F | 3.9375 | 2.0625 | 3.0625 | 3.625 | 1.8125 | 128.0 |
| 5 D 170 J | 17 | 17.6 | A-2 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 2.625 | 135.0 |
| 5 D 180 J | 18 | 18.6 | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 2.625 | 148.0 |
| 5 D 200 J | 20 | 20.6 | A-3 | J | 4.5 | 0.375 | 1.5625 | 4.5 | 2.625 | 184.0 |
| 5 D 220 J | 22 | 22.6 | A-3 | J | 4.5 | 0.38 | 1.5625 | 4.5 | 2.625 | 202.0 |
| 5 D 270 M | 27 | 27.6 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 0.25 | 250.0 |
| 5 D 330 M | 33 | 33.6 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 0.25 | 280.0 |
| 5 D 400 M | 40 | 40.6 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 0.25 | 380.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-3 and B-4 for additional bushing dimensions.

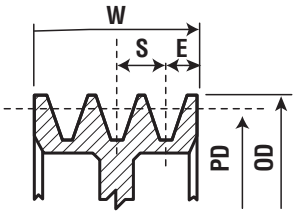


1 = Solid 2 = Web 3 = Arm/Spoke



1¼ × ¾

D

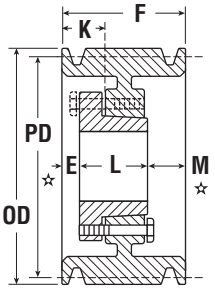



### Combination Groove Dimensions

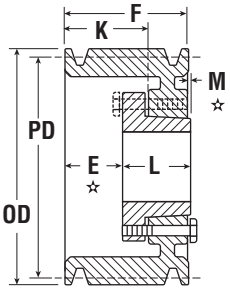
| Belt Selection | E | S | OD |
|---|---|---|---|
| D | .875 | 1.4375 | PD B + .60 |

W = S(N-1) + 2E
N = No. of Grooves

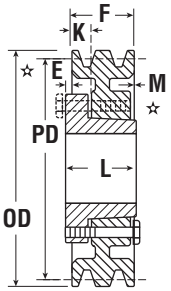
# D Conventional Stock QD Sheaves



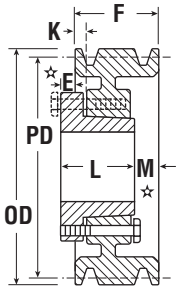

Type A




Type B




Type C



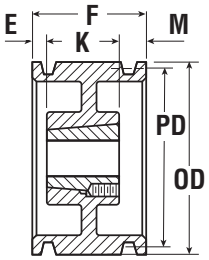

Type D

## QD Sheaves – D

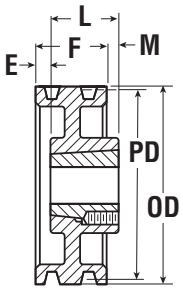
| 6 Grooves | | | | | | | | | | | 8 Grooves | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F =8 15/16 | | | | | | | | | | | F = 11 13/16 | | | | | | | | |
| Part Number | PD / D Belt | OD | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 6 D 120 J | 12 | 12.6 | A-1 | J | 4.5 | 2.125 | 3.3125 | 4.5 | 2.3125 | 104.0 | 8 D 120 J | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 4.9375 | 126.0 |
| 6 D 130 J | 13 | 13.6 | A-1 | J | 4.5 | 2.125 | 3.3125 | 4.5 | 2.3125 | 122.0 | 8 D 130 J | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 4.9375 | 147.0 |
| 6 D 135 J | 13.5 | 14.1 | A-1 | J | 4.5 | 2.125 | 3.3125 | 4.5 | 2.3125 | 125.0 | 8 D 135 J | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 4.9375 | 150.0 |
| 6 D 140 J | 14 | 14.6 | A-2 | J | 4.5 | 2.125 | 3.3125 | 4.5 | 2.3125 | 128.0 | 8 D 140 J | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 4.9375 | 155.0 |
| 6 D 145 J | 14.5 | 15.1 | A-2 | J | 4.5 | 2.125 | 3.3125 | 4.5 | 2.3125 | 130.0 | 8 D 145 J | A-1 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 4.9375 | 160.0 |
| 6 D 150 J | 15 | 15.6 | A-2 | J | 4.5 | 2.125 | 3.3125 | 4.5 | 2.3125 | 136.0 | 8 D 150 J | A-2 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 4.9375 | 176.0 |
| 6 D 155 J | 15.5 | 16.1 | A-2 | J | 4.5 | 2.125 | 3.3125 | 4.5 | 2.3125 | 139.0 | 8 D 155 J | A-2 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 4.9375 | 180.0 |
| 6 D 160 J | 16 | 16.6 | A-2 | J | 4.5 | 2.125 | 3.3125 | 4.5 | 2.3125 | 141.0 | 8 D 160 J | A-2 | J | 4.5 | 2.375 | 3.5625 | 4.5 | 4.9375 | 200.0 |
| 6 D 170 J | 17 | 17.6 | A-2 | J | 4.5 | 2.125 | 3.3125 | 4.5 | 2.3125 | 154.0 | 8 D 170 M | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 2.5625 | 225.0 |
| 6 D 180 J | 18 | 18.6 | A-2 | J | 4.5 | 2.125 | 3.3125 | 4.5 | 2.3125 | 172.0 | 8 D 180 M | A-2 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 2.5625 | 250.0 |
| 6 D 200 J | 20 | 20.6 | A-2 | J | 4.5 | 2.125 | 3.3125 | 4.5 | 2.3125 | 183.0 | 8 D 200 M | A-2 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 2.5625 | 270.0 |
| 6 D 220 M | 22 | 22.6 | A-2 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.6875 | 272.0 | 8 D 220 M | A-2 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 4.5625 | 316.0 |
| 6 D 270 M | 27 | 27.6 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.6875 | 280.0 | 8 D 270 M | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 4.5625 | 440.0 |
| 6 D 330 M | 33 | 33.6 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.6875 | 356.0 | 8 D 330 M | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 4.5625 | 458.0 |
| 6 D 400 M | 40 | 40.6 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.6875 | 415.0 | 8 D 400 N | A-3 | N | 5.5 | 0.5 | 2.25 | 8.125 | 3.1875 | 638.0 |
| 6 D 440 M | 44 | 44.6 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.6875 | 536.0 | 8 D 440 N | A-3 | N | 6 | 0.5 | 2.25 | 8.125 | 3.1875 | 616.0 |
| 6 D 480 M | 48 | 48.6 | A-3 | M | 5.5 | 0.5 | 1.9375 | 6.75 | 1.6875 | 572.0 | 8 D 480 N | A-3 | N | 6 | 0.5 | 2.25 | 8.125 | 3.1875 | 755.0 |
| 6 D 580 N | 58 | 58.6 | A-3 | N | 6 | 0.5 | 2.25 | 8.125 | 0.3125 | 1006.0 | 8 D 580 N | A-3 | N | 6 | 0.5 | 2.25 | 8.125 | 3.1875 | 1112.0 |

| 10 Grooves | | | | | | | | | | | 12 Grooves | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 14 11/16 | | | | | | | | | | | F = 17 9/16 | | | | | | | | |
| Part Number | PD / D Belt | OD | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E ★ | K | L Length Thru Bore | M ★ | Wt. Less Bush |
| 10 D 120 M | 12 | 12.6 | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 5.4375 | 158.0 | 12 D 120 M | A-1 | M | 5.5 | 3.5 | 4.9375 | 6.75 | 7.3125 | 158.0 |
| 10 D 125 M | 12.5 | 13.1 | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 5.4375 | 178.0 | – | – | – | – | – | – | – | – | – |
| 10 D 130 M | 13 | 13.6 | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 5.4375 | 196.0 | 12 D 130 M | A-1 | M | 5.5 | 3.5 | 4.9375 | 6.75 | 7.3125 | 219.0 |
| 10 D 135 M | 13.5 | 14.1 | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 5.4375 | 207.0 | 12 D 135 M | A-1 | M | 5.5 | 3.5 | 4.9375 | 6.75 | 7.3125 | 242.0 |
| 10 D 140 M | 14 | 14.6 | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 5.4375 | 225.0 | 12 D 140 M | A-1 | M | 5.5 | 3.5 | 4.9375 | 6.75 | 7.3125 | 246.0 |
| 10 D 145 M | 14.5 | 15.1 | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 5.4375 | 238.0 | 12 D 145 M | A-1 | M | 5.5 | 3.5 | 4.9375 | 6.75 | 7.3125 | 266.0 |
| 10 D 150 M | 15 | 15.6 | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 5.4375 | 260.0 | 12 D 150 M | A-1 | M | 5.5 | 3.5 | 4.9375 | 6.75 | 7.3125 | 287.0 |
| 10 D 155 M | 15.5 | 16.1 | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 5.4375 | 279.0 | 12 D 155 M | A-1 | M | 5.5 | 3.5 | 4.9375 | 6.75 | 7.3125 | 308.0 |
| 10 D 160 M | 16 | 16.6 | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 5.4375 | 292.0 | 12 D 160 M | A-1 | M | 5.5 | 3.5 | 4.9375 | 6.75 | 7.3125 | 325.0 |
| 10 D 170 M | 17 | 17.6 | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 5.4375 | 330.0 | 12 D 170 M | A-1 | M | 5.5 | 3.5 | 4.9375 | 6.75 | 7.3125 | 330.0 |
| 10 D 180 M | 18 | 18.6 | A-1 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 5.4375 | 340.0 | 12 D 180 M | A-1 | M | 5.5 | 3.5 | 4.9375 | 6.75 | 7.3125 | 340.0 |
| 10 D 200 M | 20 | 20.6 | A-2 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 5.4375 | 355.0 | 12 D 200 M | A-2 | M | 5.5 | 3.5 | 4.9375 | 6.75 | 7.3125 | 355.0 |
| 10 D 220 M | 22 | 22.6 | A-3 | M | 5.5 | 1.5 | 2.9375 | 6.75 | 6.4375 | 348.0 | 12 D 220 M | A-2 | M | 5.5 | 2.5 | 3.9375 | 6.75 | 8.3125 | 392.0 |
| 10 D 270 M | 27 | 27.6 | A-3 | M | 5.5 | 1.5 | 2.9375 | 6.75 | 6.4375 | 434.0 | 12 D 270 M | A-3 | N | 6 | 2.5 | 4.25 | 8.125 | 6.9375 | 505.0 |
| 10 D 330 N | 33 | 33.6 | A-3 | N | 6 | 1.5 | 3.25 | 8.125 | 5.0625 | 502.0 | 12 D 330 M | A-3 | N | 6 | 2.5 | 4.25 | 8.125 | 6.9375 | 619.0 |
| 10 D 400 N | 40 | 40.6 | A-3 | N | 6 | 1.5 | 3.25 | 8.125 | 5.0625 | 727.0 | 12 D 400 P | A-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 7.5625 | 946.0 |
| 10 D 480 P | 48 | 48.6 | A-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 4.6875 | 755.0 | 12 D 480 P | A-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 7.5625 | 1155.0 |
| 10 D 580 P | 58 | 58.6 | A-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 4.6875 | 1286.0 | 12 D 580 P | A-3 | P | 6.75 | 0.625 | 2.625 | 9.375 | 7.8125 | 1576.0 |

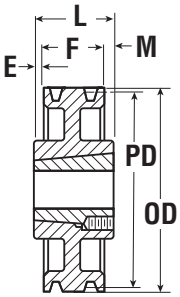
# Hi-Cap Wedge Stock Taper Bushed Sheaves 3V




Type A

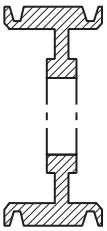



Type B

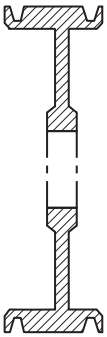



Type C

1 = Solid



2 = Web



3 = Arm/Spoke

$^3/_8 \times {}^5/_{16}$

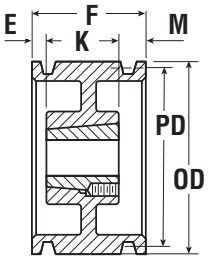
3V

## Taper Bushed Sheaves – 3V

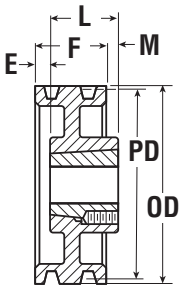
| 1 Groove | | | | | | | | | | 2 Grooves | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 11/16 * | | | | | | | | | | F = 1 3/32 | | | | | | | |
| Part Number | Diameter OD | Diameter Pitch 3V | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| 1 3V 265 TB | 2.65 | 2.65 | A-1 | 1108 | 1.125 | 0.21875 | 0.875 | – | 0.8 | 2 3V 265 TB | A-1 | 1108 | 1.125 | 0.21875 | 0.875 | – | 0.8 |
| 1 3V 280 TB | 2.8 | 2.8 | A-1 | 1108 | 1.125 | 0.21875 | 0.875 | – | 0.9 | 2 3V 280 TB | A-1 | 1108 | 1.125 | 0.21875 | 0.875 | – | 0.9 |
| 1 3V 300 TB | 3 | 3 | A-1 | 1108 | 1.125 | 0.21875 | 0.875 | – | 1.0 | 2 3V 300 TB | A-1 | 1210 | 1.25 | 0.5 | 1 | – | 1.4 |
| 1 3V 315 TB | 3.15 | 3.15 | A-1 | 1108 | 1.125 | 0.21875 | 0.875 | – | 1.3 | 2 3V 315 TB | A-1 | 1210 | 1.25 | 0.5 | 1 | – | 1.6 |
| 1 3V 335 TB | 3.35 | 3.35 | A-1 | 1610 | 1.625 | – | 1 | – | 1.5 | 2 3V 335 TB | A-1 | 1610 | 1.625 | 0.5 | 1 | – | 1.7 |
| 1 3V 365 TB | 3.65 | 3.65 | A-1 | 1610 | 1.625 | – | 1 | – | 2.0 | 2 3V 365 TB | A-1 | 1610 | 1.625 | 0.5 | 1.5 | – | 2.0 |
| 1 3V 412 TB | 4.12 | 4.12 | B-1 | 1610 | 1.625 | – | 1 | 0.40625 | 2.3 | 2 3V 412 TB | A-1 | 1610 | 1.625 | – | 1 | – | 2.1 |
| 1 3V 450 TB | 4.5 | 4.5 | B-1 | 1610 | 1.625 | – | 1 | 0.40625 | 3.0 | 2 3V 450 TB | A-1 | 1610 | 1.625 | – | 1 | – | 2.7 |
| 1 3V 475 TB | 4.75 | 4.75 | B-1 | 1610 | 1.625 | – | 1 | 0.40625 | 3.3 | 2 3V 475 TB | A-1 | 1610 | 1.625 | – | 1 | – | 3.0 |
| 1 3V 500 TB | 5 | 5 | B-1 | 1610 | 1.625 | – | 1 | 0.40625 | 3.5 | 2 3V 500 TB | A-1 | 1610 | 1.625 | – | 1 | – | 4.0 |
| 1 3V 530 TB | 5.3 | 5.3 | B-1 | 1610 | 1.625 | – | 1 | 0.40625 | 3.8 | 2 3V 530 TB | A-1 | 1610 | 1.625 | – | 1 | – | 5.0 |
| 1 3V 560 TB | 5.6 | 5.6 | B-1 | 1610 | 1.625 | – | 1 | 0.40625 | 4.0 | 2 3V 560 TB | A-1 | 1610 | 1.625 | – | 1 | – | 6.0 |
| 1 3V 600 TB | 6 | 6 | B-1 | 1610 | 1.625 | – | 1 | 0.40625 | 5.0 | 2 3V 600 TB | A-1 | 1610 | 1.625 | – | 1 | – | 7.0 |
| 1 3V 650 TB | 6.5 | 6.5 | B-1 | 1610 | 1.625 | – | 1 | 0.40625 | 6.0 | 2 3V 650 TB | A-1 | 1610 | 1.625 | – | 1 | – | 8.0 |
| 1 3V 690 TB | 6.9 | 6.9 | B-1 | 1610 | 1.625 | – | 1 | 0.40625 | 7.0 | 2 3V 690 TB | A-1 | 1610 | 1.625 | – | 1 | – | 9.0 |
| 1 3V 800 TB | 8 | 8 | B-2 | 2517 | 2.5 | – | 1.75 | 1.0625 | 9.0 | 2 3V 800 TB | B-2 | 2517 | 2.5 | – | 1.75 | 0.65625 | 10.0 |
| 1 3V 1060 TB | 10.6 | 10.6 | B-2 | 2517 | 2.5 | – | 1.75 | 1.0625 | 13.0 | 2 3V 1060 TB | B-2 | 2517 | 2.5 | – | 1.75 | 0.65625 | 14.0 |
| 1 3V 1400 TB* | 14 | 14 | B-3 | 2517 | 2.5 | – | 1.75 | 0.9375 | 15.0 | 2 3V 1400 TB | B-3 | 2517 | 2.5 | – | 1.75 | 0.65625 | 18.0 |
| 1 3V 1900 TB* | 19 | 19 | B-3 | 3020 | 3 | – | 2 | 1.1875 | 27.0 | 2 3V 1900 TB | B-3 | 3020 | 3 | – | 2 | 0.65625 | 32.0 |
| – | 25 | 25 | – | – | – | – | – | – | – | 2 3V 2500 TB | C-3 | 3020 | 3 | 0.125 | 2 | 0.65625 | 45.0 |

* F= 11/16" thru 1 3V 1400 TB
F= 13/16" thru 1 3V 1400 TB and 1 3V 1900 TB

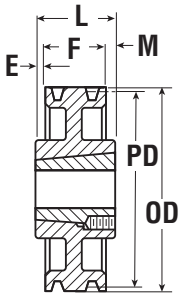
# 3V Hi-Cap Wedge Stock Taper Bushed Sheaves




Type A

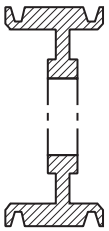



Type B

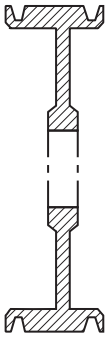



Type C

1 = Solid



2 = Web



3 = Arm/Spoke

$^{3}/_{8} \times {}^{5}/_{16}$

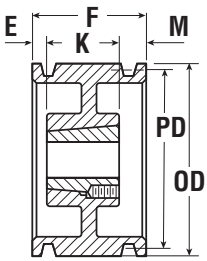
3V

## Taper Bushed Sheaves – 3V

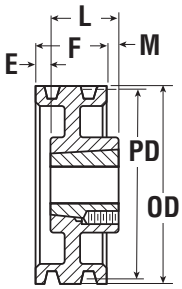
| 3 Grooves | | | | | | | | | | 4 Grooves | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 1 ½ | | | | | | | | | | F = 1 29/32 | | | | | | | |
| Part Number | Diameter OD | Diameter Pitch 3V | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| 3 3V 265 TB | 2.65 | 2.6 | A-1 | 1108 | 1.125 | .625 | .875 | – | 1.0 | 4 3V 265 TB | A-1 | 1108 | 1.125 | 1.0313 | .875 | – | 1.2 |
| 3 3V 280 TB | 2.8 | 2.75 | A-1 | 1108 | 1.125 | .625 | .875 | – | 1.1 | 4 3V 280 TB | A-1 | 1108 | 1.125 | 1.0313 | .875 | – | 1.3 |
| 3 3V 300 TB | 3 | 2.95 | A-1 | 1210 | 1.25 | .9063 | 1 | – | 1.8 | 4 3V 300 TB | A-1 | 1210 | 1.25 | 1.3125 | 1 | – | 2.1 |
| 3 3V 315 TB | 3.15 | 3.1 | A-1 | 1210 | 1.25 | .9063 | 1 | – | 2.0 | 4 3V 315 TB | A-1 | 1210 | 1.25 | 1.3125 | 1 | – | 2.2 |
| 3 3V 335 TB | 3.35 | 3.3 | A-1 | 1610 | 1.625 | .9063 | 1 | – | 2.3 | 4 3V 335 TB | A-1 | 1610 | 1.625 | 1.3125 | 1 | – | 2.4 |
| 3 3V 365 TB | 3.65 | 3.6 | A-1 | 1610 | 1.625 | .9063 | 1 | – | 2.6 | 4 3V 365 TB | A-1 | 1610 | 1.625 | .9063 | 1 | – | 2.8 |
| 3 3V 412 TB | 4.12 | 4.07 | A-1 | 1610 | 1.625 | .5 | 1 | – | 3.0 | 4 3V 412 TB | A-1 | 1610 | 1.625 | .9063 | 1 | – | 3.0 |
| 3 3V 450 TB | 4.5 | 4.45 | A-1 | 1610 | 1.625 | .5 | 1 | – | 3.2 | 4 3V 450 TB | A-1 | 1610 | 1.625 | .9063 | 1 | – | 4.0 |
| 3 3V 475 TB | 4.75 | 4.7 | A-1 | 1610 | 1.625 | .5 | 1 | – | 4.0 | 4 3V 475 TB | A-1 | 1610 | 1.625 | .9063 | 1 | – | 5.0 |
| 3 3V 500 TB | 5 | 4.95 | A-1 | 1610 | 1.625 | .5 | 1 | – | 4.5 | 4 3V 500 TB | A-1 | 1610 | 1.625 | .9063 | 1 | – | 5.5 |
| 3 3V 530 TB | 5.3 | 5.25 | A-1 | 1610 | 1.625 | .5 | 1 | – | 5.0 | 4 3V 530 TB | A-1 | 1610 | 1.625 | .9063 | 1 | – | 6.0 |
| 3 3V 560 TB | 5.6 | 5.55 | A-1 | 1610 | 1.625 | .5 | 1 | – | 6.0 | 4 3V 560 TB | A-1 | 1610 | 1.625 | .9063 | 1 | – | 7.0 |
| 3 3V 600 TB | 6.0 | 5.95 | B-1 | 2517 | 2.5 | .1563 | 1.75 | .4063 | 7.0 | 4 3V 600 TB | A-1 | 2517 | 2.5 | .1563 | 1.75 | – | 8.0 |
| 3 3V 650 TB | 6.5 | 6.45 | B-1 | 2517 | 2.5 | .1563 | 1.75 | .4063 | 9.0 | 4 3V 650 TB | A-1 | 2517 | 2.5 | .1563 | 1.75 | – | 10.0 |
| 3 3V 690 TB | 6.9 | 6.85 | B-1 | 2517 | 2.5 | .1563 | 1.75 | .4063 | 10.0 | 4 3V 690 TB | A-1 | 2517 | 2.5 | .1563 | 1.75 | – | 12.0 |
| 3 3V 800 TB | 8 | 7.95 | B-1 | 2517 | 2.5 | .1563 | 1.75 | .4063 | 15.0 | 4 3V 800 TB | A-1 | 2517 | 2.5 | .1563 | 1.75 | – | 18.0 |
| 3 3V 1060 TB | 10.6 | 10.55 | B-2 | 2517 | 2.5 | - | 1.75 | .25 | 18.0 | 4 3V 1060 TB | A-2 | 2517 | 2.5 | .1563 | 1.75 | – | 19.0 |
| 3 3V 1400 TB | 14 | 13.95 | B-3 | 2517 | 2.5 | - | 1.75 | .25 | 20.0 | 4 3V 1400 TB | A-3 | 2517 | 2.5 | - | 1.75 | 0.1563 | 22.0 |
| 3 3V 1900 TB | 19 | 18.95 | B-3 | 3020 | 3 | - | 2 | .5 | 36.0 | 4 3V 1900 TB | C-3 | 3020 | 3 | - | 2 | 0.0938 | 45.0 |
| 3 3V 2500 TB | 25 | 24.95 | B-3 | 3020 | 3 | - | 2 | .5 | 47.0 | 4 3V 2500 TB | C-3 | 3020 | 3 | - | 2 | 0.0938 | 63.0 |
| 3 3V 3350 TB | 33.5 | 33.45 | B-3 | 3020 | 3 | .2500 | 2 | .25 | 76.0 | 4 3V 3350 TB | C-3 | 3030 | 3 | .5469 | 3 | 0.5469 | 80.0 |

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

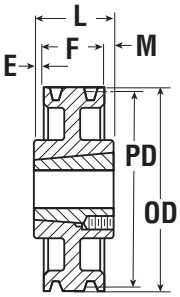
# Hi-Cap Wedge Stock Taper Bushed Sheaves 3V




Type A




Type B



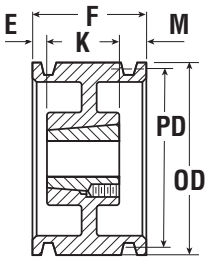

Type C

## Taper Bushed Sheaves – 3V

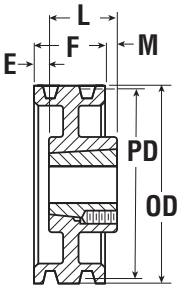
| 5 Grooves | | | | | | | | | | 6 Grooves | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 2 5/16 | | | | | | | | | | F = 2 23/32 | | | | | | | |
| Part Number | Diameter OD | Diameter Pitch 3V | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| 5 3V 450 TB | 4.50 | 4.50 | A-1 | 1615 | 1.63 | – | 1.5 | .8125 | 4.0 | – | – | – | – | – | – | – | – |
| 5 3V 475 TB | 4.75 | 4.75 | A-1 | 2517 | 2.5 | .5625 | 1.75 | – | 4.0 | 6 3V 475 TB | A-1 | 2517 | 2.5 | .9688 | 1.75 | – | 4.4 |
| 5 3V 500 TB | 5.00 | 5.00 | A-1 | 2517 | 2.5 | .5625 | 1.75 | – | 4.8 | 6 3V 500 TB | A-1 | 2517 | 2.5 | .9688 | 1.75 | – | 5.4 |
| 5 3V 530 TB | 5.30 | 5.30 | A-1 | 2517 | 2.5 | .5625 | 1.75 | – | 5.9 | 6 3V 530 TB | A-1 | 2517 | 2.5 | .9688 | 1.75 | – | 6.5 |
| 5 3V 560 TB | 5.60 | 5.60 | A-1 | 2517 | 2.5 | .5625 | 1.75 | – | 7.0 | 6 3V 560 TB | A-1 | 2517 | 2.5 | .9688 | 1.75 | – | 7.7 |
| 5 3V 600 TB | 6.00 | 6.00 | A-1 | 2517 | 2.5 | .5625 | 1.75 | – | 8.0 | 6 3V 600 TB | A-1 | 2517 | 2.5 | .9688 | 1.75 | – | 9.5 |
| 5 3V 650 TB | 6.50 | 6.50 | A-1 | 2517 | 2.5 | .5625 | 1.75 | – | 11.0 | 6 3V 650 TB | A-1 | 2517 | 2.5 | .9688 | 1.75 | – | 12.0 |
| 5 3V 690 TB | 6.90 | 6.90 | A-1 | 2517 | 2.5 | .5625 | 1.75 | – | 13.0 | 6 3V 690 TB | A-1 | 2517 | 2.5 | .9688 | 1.75 | – | 13.0 |
| 5 3V 800 TB | 8.00 | 8.00 | A-1 | 2517 | 2.5 | .5625 | 1.75 | – | 19.0 | 6 3V 800 TB | A-1 | 2517 | 2.5 | .9688 | 1.75 | – | 2.0 |
| 5 3V 1060 TB | 10.60 | 10.60 | A-2 | 2517 | 2.5 | .5625 | 1.75 | – | 21.0 | 6 3V 1060 TB | A-2 | 2517 | 2.5 | .9688 | 1.75 | – | 21.0 |
| 5 3V 1400 TB | 14.00 | 14.00 | A-3 | 2517 | 2.5 | – | 1.75 | .5625 | 3.0 | 6 3V 1400 TB | A-3 | 2517 | 2.5 | .2188 | 1.75 | – | 3.0 |
| 5 3V 1900 TB | 19.00 | 19.00 | A-3 | 3030 | 3 | – | 2 | .3125 | 51.0 | 6 3V 1900 TB | B-3 | 3020 | 3 | – | 2 | .7188 | 51.0 |
| 5 3V 2500 TB | 25.00 | 25.00 | B-3 | 3030 | 3 | – | 3 | .6875 | 76.0 | 6 3V 2500 TB | B-3 | 3030 | 3 | – | 3 | .2813 | 81.0 |
| 5 3V 3350 TB | 33.50 | 33.50 | C-3 | 3030 | 3 | .3438 | 3 | .3438 | 97.0 | 6 3V 3350 TB | C-3 | 3030 | 3 | .1406 | 3 | .1406 | 11.0 |

| 8 Grooves | | | | | | | | | | 10 Grooves | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 3 17/32 | | | | | | | | | | F = 4 11/32 | | | | | | | |
| Part Number | Diameter OD | Diameter Pitch 3V | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| 8 3V 475 TB | 4.75 | 4.75 | A-1 | 2517 | 2.5 | 1.78 | 1.75 | – | 5.0 | 10 3V 475 TB | A-1 | 2517 | 2.5 | 2.5938 | 1.75 | – | 6.0 |
| 8 3V 5 TB | 5 | 5 | A-1 | 2517 | 2.5 | 1.78 | 1.75 | – | 6.0 | 10 3V 5 TB | A-1 | 2517 | 2.5 | 2.5938 | 1.75 | – | 7.0 |
| 8 3V 530 TB | 5.3 | 5.3 | A-1 | 2517 | 2.5 | 1.03 | 1.75 | .75 | 7.8 | 10 3V 530 TB | A-1 | 2517 | 2.5 | 1.8438 | 1.75 | .75 | 8.0 |
| 8 3V 560 TB | 5.6 | 5.6 | A-1 | 2517 | 2.5 | .25 | 1.75 | 1.5313 | 9.0 | 10 3V 560 TB | A-1 | 2517 | 2.5 | .5 | 1.75 | .7188 | 9.0 |
| 8 3V 6 TB | 6 | 6 | A-1 | 2517 | 2.5 | .25 | 1.75 | 1.5313 | 11.0 | 10 3V 6 TB | A-1 | 2517 | 2.5 | .5 | 1.75 | .7188 | 12.0 |
| 8 3V 650 TB | 6.5 | 6.5 | A-1 | 2517 | 2.5 | .25 | 1.75 | 1.5313 | 13.0 | 10 3V 650 TB | A-1 | 2517 | 2.5 | .5 | 1.75 | .7188 | 14.0 |
| 8 3V 690 TB | 6.9 | 6.9 | A-1 | 2517 | 2.5 | .25 | 1.75 | 1.5313 | 15.0 | 10 3V 690 TB | A-1 | 2517 | 2.5 | .5 | 1.75 | .7188 | 17.0 |
| 8 3V 8 TB | 8 | 8 | A-1 | 3020 | 3 | .5 | 2 | 1.0313 | 19.0 | 10 3V 8 TB | A-1 | 3020 | 3 | .25 | 2 | .7188 | 22.0 |
| 8 3V 1060 TB | 10.6 | 10.6 | A-2 | 3020 | 3 | .5 | 2 | 1.0313 | 26.0 | 10 3V 1060 TB | A-2 | 3020 | 3 | .8438 | 2 | 1.5 | 32.0 |
| 8 3V 14 TB | 14 | 14 | A-3 | 3020 | 3 | .6563 | 2 | 0.875 | 52.0 | 10 3V 14 TB | A-2 | 3535 | 3.5 | – | 3.5 | .8438 | 59.0 |
| 8 3V 19 TB | 19 | 19 | A-3 | 3535 | 3.5 | – | 3.5 | 0.0313 | 63.0 | 10 3V 19 TB | A-3 | 3535 | 3.5 | – | 3.5 | .8438 | 71.0 |
| 8 3V 25 TB | 25 | 25 | A-3 | 3535 | 3.5 | – | 3.5 | 0.0313 | 89.0 | 10 3V 25 TB | A-3 | 4040 | 4 | – | 4 | .3438 | 121.0 |
| 8 3V 3350 TB | 33.5 | 33.5 | C-3 | 4040 | 4 | .2344 | 4 | 0.2344 | 131.0 | 10 3V 3350 TB | A-3 | 4040 | 4 | .1719 | 4 | .3438 | 172.0 |

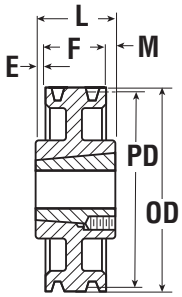
# 5V Hi-Cap Wedge Stock Taper Bushed Sheaves




Type A




Type B

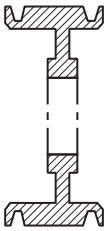



Type C

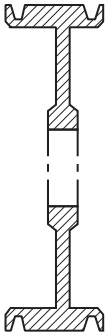
5/8 × 17/32

5V

1=SOLID



2=WEB



3=ARM/SPOKE

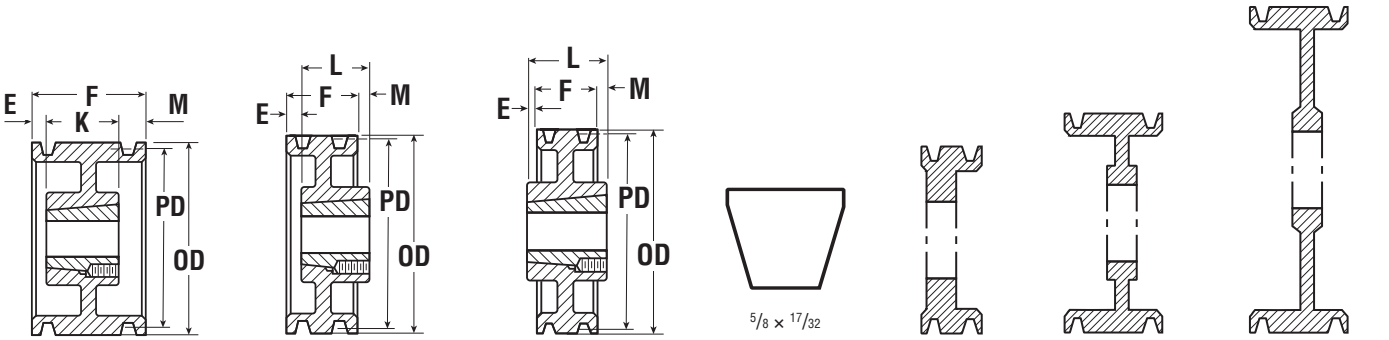
## Taper Bushed Sheaves – 5V

| 2 Grooves F = 1 11/16 | | | | | | | | | | 3 Grooves F = 2 3/8 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | Diameter OD | Diameter Pitch 5V | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| *2 5V 440 TB | 4.4 | 4.4 | A–1 | 1610 | 1.625 | .0625 | 1 | .625 | 3.0 | *3 5V 440 TB | A–1 | 1610 | 1.625 | 1.375 | 1 | – | 4.0 |
| *2 5V 465 TB | 4.65 | 4.65 | A–1 | 1610 | 1.625 | .0625 | 1 | .625 | 3.0 | *3 5V 465 TB | A–1 | 1610 | 1.625 | .0625 | 1 | 1.3125 | 5.0 |
| *2 5V 490 TB | 4.9 | 4.9 | A–1 | 1610 | 1.625 | .0625 | 1 | .625 | 4.0 | *3 5V 490 TB | A–1 | 1610 | 1.625 | .0625 | 1 | 1.3125 | 5.0 |
| *2 5V 520 TB | 5.2 | 5.2 | A–1 | 1610 | 1.625 | .0625 | 1 | .625 | 4.2 | *3 5V 520 TB | A–1 | 1610 | 1.625 | .0625 | 1 | 1.3125 | 6.0 |
| *2 5V 550 TB | 5.5 | 5.5 | A–1 | 1610 | 1.625 | .0625 | 1 | .625 | 5.2 | *3 5V 550 TB | A–1 | 1610 | 1.625 | .0625 | 1 | 1.3125 | 6.0 |
| *2 5V 590 TB | 5.9 | 5.9 | A–1 | 1610 | 1.625 | .0625 | 1 | .625 | 5.6 | *3 5V 590 TB | A–1 | 2517 | 2.5 | – | 1.75 | .625 | 7.0 |
| *2 5V 630 TB | 6.3 | 6.3 | A–1 | 1610 | 1.625 | – | 1 | .6875 | 7.6 | *3 5V 630 TB | A–1 | 2517 | 2.5 | – | 1.75 | .625 | 9.0 |
| *2 5V 670 TB | 6.7 | 6.7 | A–1 | 1610 | 1.625 | – | 1 | .6875 | 9.4 | *3 5V 670 TB | A–1 | 2517 | 2.5 | – | 1.75 | .625 | 10.0 |
| 2 5V 710 TB | 7.1 | 7.1 | B–1 | 2517 | 2.5 | .0625 | 1.75 | – | 10.0 | 3 5V 710 TB | A–1 | 2517 | 2.5 | .625 | 1.75 | – | 11.0 |
| 2 5V 750 TB | 7.5 | 7.5 | B–1 | 2517 | 2.5 | .0625 | 1.75 | – | 13.0 | 3 5V 750 TB | A–1 | 2517 | 2.5 | .625 | 1.75 | – | 14.0 |
| 2 5V 800 TB | 8 | 8 | B–1 | 2517 | 2.5 | .0625 | 1.75 | – | 14.0 | 3 5V 800 TB | A–1 | 2517 | 2.5 | .625 | 1.75 | – | 16.0 |
| 2 5V 850 TB | 8.5 | 8.5 | B–2 | 2517 | 2.5 | .0625 | 1.75 | – | 15.0 | 3 5V 850 TB | A–2 | 2517 | 2.5 | .625 | 1.75 | – | 17.0 |
| 2 5V 900 TB | 9 | 9 | B–2 | 2517 | 2.5 | .0625 | 1.75 | – | 16.0 | 3 5V 900 TB | A–2 | 2517 | 2.5 | .625 | 1.75 | – | 19.0 |
| 2 5V 925 TB | 9.25 | 9.25 | B–2 | 3020 | 3 | – | 2 | .3125 | 17.0 | 3 5V 925 TB | A–1 | 3020 | 3 | – | 2 | .375 | 23.0 |
| 2 5V 975 TB | 9.75 | 9.75 | B–2 | 3020 | 3 | – | 2 | .3125 | 18.0 | 3 5V 975 TB | A–1 | 3020 | 3 | – | 2 | .375 | 24.0 |
| 2 5V 1030 TB | 10.3 | 10.3 | B–2 | 3020 | 3 | – | 2 | .3125 | 20.0 | 3 5V 1030 TB | A–2 | 3020 | 3 | – | 2 | .375 | 27.0 |
| 2 5V 1090 TB | 10.9 | 10.9 | B–2 | 3020 | 3 | – | 2 | .3125 | 22.0 | 3 5V 1090 TB | A–2 | 3020 | 3 | – | 2 | .375 | 28.0 |
| 2 5V 1130 TB | 11.3 | 11.3 | B–2 | 3020 | 3 | – | 2 | .3125 | 25.0 | 3 5V 1130 TB | A–2 | 3020 | 3 | – | 2 | .375 | 30.0 |
| 2 5V 1180 TB | 11.8 | 11.8 | B–2 | 3020 | 3 | – | 2 | .3125 | 26.0 | 3 5V 1180 TB | A–2 | 3020 | 3 | – | 2 | .375 | 32.0 |
| 2 5V 1250 TB | 12.5 | 12.5 | B–2 | 3020 | 3 | – | 2 | .3125 | 28.0 | 3 5V 1250 TB | A–2 | 3020 | 3 | – | 2 | .375 | 34.0 |
| 2 5V 1320 TB | 13.2 | 13.2 | B–3 | 3020 | 3 | – | 2 | .3125 | 29.0 | 3 5V 1320 TB | A–3 | 3020 | 3 | – | 2 | .375 | 36.0 |
| 2 5V 1400 TB | 14 | 14 | B–3 | 3020 | 3 | – | 2 | .3125 | 33.0 | 3 5V 1400 TB | A–3 | 3020 | 3 | – | 2 | .375 | 41.0 |
| 2 5V 1500 TB | 15 | 15 | B–3 | 3020 | 3 | – | 2 | .3125 | 35.0 | 3 5V 1500 TB | A–3 | 3020 | 3 | – | 2 | .375 | 50.0 |
| 2 5V 1600 TB | 16 | 16 | B–3 | 3020 | 3 | – | 2 | .3125 | 45.0 | 3 5V 1600 TB | A–3 | 3020 | 3 | – | 2 | .375 | 52.0 |
| 2 5V 1870 TB | 18.7 | 18.7 | C–3 | 3020 | 3 | – | 2 | .3125 | 50.1 | 3 5V 1870 TB | B–3 | 3535 | 3.5 | – | 3.5 | 1.125 | 65.0 |
| 2 5V 2120 TB | 21.2 | 21.2 | C–3 | 3535 | 3.5 | .375 | 3.5 | 1.4375 | 60.0 | 3 5V 2120 TB | C–3 | 3535 | 3.5 | – | 3.5 | 1.125 | 68.0 |
| 2 5V 2360 TB | 23.6 | 23.6 | C–3 | 3535 | 3.5 | 1/4 | 3.5 | 1.5625 | 68.0 | 3 5V 2360 TB | B–3 | 3535 | 3.5 | – | 3.5 | 1.125 | 99.0 |
| 2 5V 2800 TB | 28 | 28 | C–3 | 3535 | 3.5 | .375 | 3.5 | 1.4375 | 96.0 | 3 5V 2800 TB | C–3 | 3535 | 3.5 | .3438 | 3.5 | 25/32 | 96.0 |
| – | – | – | – | – | – | – | – | – | – | 3 5V 3750 TB | C–3 | 4040 | 4 | .5 | 4 | 1.125 | 172.0 |
| – | – | – | – | – | – | – | – | – | – | 3 5V 5000 TB | C–3 | 4040 | 4 | .5 | 4 | 1.125 | 201.0 |

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

* 5VX Belts only on these sizes.

# Hi-Cap Wedge Stock Taper Bushed Sheaves 5V




Type A | Type B | Type C | 5V | 1=SOLID | 2=WEB | 3=ARM/SPOKE

## Taper Bushed Sheaves – 5V

| 4 Grooves F = 3 1/16 | | | | | | | | | | 5 Grooves F = 3 3/4 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | Diameter OD | Diameter Pitch 5V | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| *4 5V 440 TB | 4.4 | 4.4 | A–1 | 1610 | 1.625 | 2.0625 | 1 | – | 6.0 | – | – | – | – | – | – | – | – |
| *4 5V 465 TB | 4.65 | 4.65 | A–1 | 1610 | 1.625 | 2.0625 | 1 | – | 6.0 | – | – | – | – | – | – | – | – |
| *4 5V 490 TB | 4.9 | 4.9 | A–1 | 1610 | 1.625 | 2.0625 | 1 | – | 6.0 | – | – | – | – | – | – | – | – |
| *4 5V 520 TB | 5.2 | 5.2 | A–1 | 1610 | 1.625 | 2.0625 | 1 | – | 7.0 | – | – | – | – | – | – | – | – |
| *4 5V 550 TB | 5.5 | 5.5 | A–1 | 2517 | 2.5 | 1.3125 | 1.75 | – | 8.0 | – | – | – | – | – | – | – | – |
| *4 5V 590 TB | 5.9 | 5.9 | A–1 | 2517 | 2.5 | 1.3125 | 1.75 | – | 10.0 | *5 5V 590 TB | A–1 | 2517 | 2.5 | .5625 | 1.75 | 1.4375 | 11.0 |
| *4 5V 630 TB | 6.3 | 6.3 | A–1 | 2517 | 2.5 | – | 1.75 | 1.3125 | 11.0 | * 5 5V 630 TB | A–1 | 2517 | 2.5 | .5625 | 1.75 | 1.4375 | 12.0 |
| *4 5V 670 TB | 6.7 | 6.7 | A–1 | 2517 | 2.5 | – | 1.75 | 1.3125 | 12.0 | * 5 5V 670 TB | A–1 | 2517 | 2.5 | .5625 | 1.75 | 1.4375 | 13.0 |
| 4 5V 710 TB | 7.1 | 7.1 | A–1 | 2517 | 2.5 | 1.3125 | 1.75 | – | 14.0 | 5 5V 710 TB | A–1 | 3020 | 3 | .5 | 2 | 1.25 | 15.0 |
| 4 5V 750 TB | 7.5 | 7.5 | A–1 | 2517 | 2.5 | 1.3125 | 1.75 | – | 16.0 | 5 5V 750 TB | A–1 | 3020 | 3 | .5 | 2 | 1.25 | 17.0 |
| 4 5V 800 TB | 8 | 8 | A–1 | 2517 | 2.5 | 1.3125 | 1.75 | – | 17.0 | 5 5V 800 TB | A–1 | 3020 | 3 | .5 | 2 | 1.25 | 20.0 |
| 4 5V 850 TB | 8.5 | 8.5 | A–2 | 2517 | 2.5 | 1.3125 | 1.75 | – | 18.0 | 5 5V 850 TB | A–1 | 3020 | 3 | .5 | 2 | 1.25 | 22.0 |
| 4 5V 900 TB | 9 | 9 | A–2 | 2517 | 2.5 | 1.3125 | 1.75 | – | 19.0 | 5 5V 900 TB | A–1 | 3020 | 3 | .5 | 2 | 1.25 | 30.0 |
| 4 5V 925 TB | 9.25 | 9.25 | A–1 | 3020 | 3 | .5 | 2 | .5625 | 22.0 | 5 5V 925 TB | A–1 | 3020 | 3 | .5 | 2 | 1.25 | 36.0 |
| 4 5V 975 TB | 9.75 | 9.75 | A–1 | 3020 | 3 | .5 | 2 | .5625 | 27.0 | 5 5V 975 TB | A–1 | 3020 | 3 | .5 | 2 | 1.25 | 37.0 |
| 4 5V 1030 TB | 10.3 | 10.3 | A–2 | 3020 | 3 | .5 | 2 | .5625 | 28.0 | 5 5V 1030 TB | A–2 | 3020 | 3 | .5 | 2 | 1.25 | 38.0 |
| 4 5V 1090 TB | 10.9 | 10.9 | A–2 | 3020 | 3 | .5 | 2 | .5625 | 31.0 | 5 5V 1090 TB | A–2 | 3020 | 3 | .5 | 2 | 1.25 | 39.0 |
| 4 5V 1130 TB | 11.3 | 11.3 | A–1 | 3020 | 3 | – | 2 | 1.0625 | 32.0 | 5 5V 1130 TB | A–1 | 3020 | 3 | .5 | 2 | 1.25 | 38.0 |
| 4 5V 1180 TB | 11.8 | 11.8 | A–2 | 3020 | 3 | .5 | 2 | .5625 | 35.0 | 5 5V 1180 TB | A–2 | 3020 | 3 | .5 | 2 | 1.25 | 40.0 |
| 4 5V 1250 TB | 12.5 | 12.5 | A–2 | 3020 | 3 | – | 2 | 1.0625 | 44.0 | 5 5V 1250 TB | A–2 | 3535 | 3.5 | – | 3.5 | .25 | 50.0 |
| 4 5V 1320 TB | 13.2 | 13.2 | A–3 | 3020 | 3 | – | 2 | 1.0625 | 42.0 | 5 5V 1320 TB | A–2 | 3535 | 3.5 | – | 3.5 | .25 | 56.0 |
| 4 5V 1400 TB | 14 | 14 | B–3 | 3535 | 3.5 | – | 3.5 | .4375 | 53.0 | 5 5V 1400 TB | A–3 | 3535 | 3.5 | – | 3.5 | .25 | 58.0 |
| 4 5V 1500 TB | 15 | 15 | B–3 | 3535 | 3.5 | – | 3.5 | .4375 | 54.0 | 5 5V 1500 TB | A–3 | 3535 | 3.5 | – | 3.5 | .25 | 65.0 |
| 4 5V 1600 TB | 16 | 16 | B–3 | 3535 | 3.5 | – | 3.5 | .4375 | 60.0 | 5 5V 1600 TB | A–3 | 3535 | 3.5 | – | 3.5 | .25 | 70.0 |
| 4 5V 1870 TB | 18.7 | 18.7 | C–3 | 3535 | 3.5 | .4375 | 3.5 | – | 63.0 | 5 5V 1870 TB | A–3 | 3535 | 3.5 | – | 3.5 | .25 | 84.0 |
| 4 5V 2120 TB | 21.2 | 21.2 | B–3 | 3535 | 3.5 | – | 3.5 | .4375 | 72.0 | 5 5V 2120 TB | B–3 | 4040 | 4 | – | 4 | .25 | 115.0 |
| 4 5V 2360 TB | 23.6 | 23.6 | C–3 | 3535 | 3.5 | – | 3.5 | .4375 | 79.0 | 5 5V 2360 TB | C–3 | 4040 | 4 | – | 4 | .25 | 92.0 |
| 4 5V 2800 TB | 28 | 28 | B–3 | 3535 | 3.5 | – | 3.5 | .4375 | 125.0 | 5 5V 2800 TB | B–3 | 4040 | 4 | – | 4 | .25 | 160.0 |
| 4 5V 3150 TB | 31.5 | 31.5 | C–3 | 3535 | 3.5 | – | 3.5 | .4375 | 114.0 | 5 5V 3150 TB | A–3 | 4040 | 4 | – | 4 | .25 | 155.0 |
| 4 5V 3750 TB | 37.5 | 37.5 | B-3 | 4040 | 4 | - | 4 | .9375 | 189.0 | 5 5V 3750 TB | B-3 | 4040 | 4 | - | 4 | .25 | 182.0 |
| 4 5V 5000 TB | 50 | 50 | B-3 | 4040 | 4 | - | 4 | .9375 | 371.0 | 5 5V 5000 TB | B-3 | 4545 | 4.5 | - | 4.5 | .75 | 288.0 |

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

* 5VX Belts only on these sizes.

# 5V Hi-Cap Wedge Stock Taper Bushed Sheaves

| 6 Grooves | | | | | | | | | | 8 Grooves | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 4 7/16 | | | | | | | | | | F = 5 13/16 | | | | | | | |
| Part Number | Diameter OD | Diameter Pitch 5V | Type | Bush | Bush Max Bore | E | L LTB | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L LTB | M | Wt. Less Bush |
| *6 5V 590 TB | 5.9 | 5.9 | A–1 | 2517 | 2.5 | 1.125 | 1.75 | 1.5625 | 13.0 | – | – | – | – | – | – | – | – |
| *6 5V 630 TB | 6.3 | 6.3 | A–1 | 2517 | 2.5 | .8125 | 1.75 | 1.875 | 13.0 | – | – | – | – | – | – | – | – |
| *6 5V 670 TB | 6.7 | 6.7 | A–1 | 2517 | 2.5 | .8125 | 1.75 | 1.875 | 15.0 | – | – | – | – | – | – | – | – |
| 6 5V 710 TB | 7.1 | 7.1 | A–1 | 3020 | 3 | .75 | 2 | 1.6875 | 17.0 | 8 5V 710 TB | A–1 | 3030 | 3 | 1 | 3 | 1.8125 | 24.0 |
| 6 5V 750 TB | 7.5 | 7.5 | A–1 | 3020 | 3 | .75 | 2 | 1.6875 | 20.0 | 8 5V 750 TB | A–1 | 3030 | 3 | 1 | 3 | 1.8125 | 27.0 |
| 6 5V 800 TB | 8 | 8 | A–1 | 3020 | 3 | .75 | 2 | 1.6875 | 24.0 | 8 5V 800 TB | A–1 | 3030 | 3 | 1 | 3 | 1.8125 | 33.0 |
| 6 5V 850 TB | 8.5 | 8.5 | A–1 | 3020 | 3 | .75 | 2 | 1.6875 | 28.0 | 8 5V 850 TB | A–1 | 3030 | 3 | 1 | 3 | 1.8125 | 39.0 |
| 6 5V 900 TB | 9 | 9 | A–1 | 3020 | 3 | .75 | 2 | 1.6875 | 32.0 | 8 5V 900 TB | A–1 | 3535 | 3.5 | 1 | 3.5 | 1.3125 | 44.0 |
| 6 5V 925 TB | 9.25 | 9.25 | A–1 | 3535 | 3.5 | – | 3.5 | .9375 | 39.0 | 8 5V 925 TB | A–1 | 3535 | 3.5 | 1 | 3.5 | 1.3125 | 48.0 |
| 6 5V 975 TB | 9.75 | 9.75 | A–1 | 3535 | 3.5 | – | 3.5 | .9375 | 50.0 | 8 5V 975 TB | A–1 | 3535 | 3.5 | 1 | 3.5 | 1.3125 | 55.0 |
| 6 5V 1030 TB | 10.3 | 10.3 | A–1 | 3535 | 3.5 | – | 3.5 | .9375 | 58.0 | 8 5V 1030 TB | A–1 | 3535 | 3.5 | 1 | 3.5 | 1.3125 | 64.0 |
| 6 5V 1090 TB | 10.9 | 10.9 | A–1 | 3535 | 3.5 | – | 3.5 | .9375 | 60.0 | 8 5V 1090 TB | A–1 | 3535 | 3.5 | 1 | 3.5 | 1.3125 | 68.0 |
| – | 11.3 | 11.3 | – | – | – | – | – | – | – | 8 5V 1130 TB | A–1 | 3535 | 3.5 | 1 | 3.5 | 1.3125 | 57.0 |
| 6 5V 1180 TB | 11.8 | 11.8 | A–2 | 3535 | 3.5 | – | 3.5 | .9375 | 62.0 | 8 5V 1180 TB | A–1 | 3535 | 3.5 | 1 | 3.5 | 1.3125 | 74.0 |
| 6 5V 1250 TB | 12.5 | 12.5 | A–2 | 3535 | 3.5 | – | 3.5 | .9375 | 65.0 | 8 5V 1250 TB | A–1 | 4040 | 4 | .25 | 4 | 1.5625 | 82.0 |
| 6 5V 1320 TB | 13.2 | 13.2 | A–2 | 3535 | 3.5 | – | 3.5 | .9375 | 68.0 | 8 5V 1320 TB | A–1 | 4040 | 4 | .25 | 4 | 1.5625 | 87.0 |
| 6 5V 1400 TB | 14 | 14 | A–2 | 3535 | 3.5 | – | 3.5 | .9375 | 72.0 | 8 5V 1400 TB | A–2 | 4040 | 4 | .25 | 4 | 1.5625 | 90.0 |
| 6 5V 1500 TB | 15 | 15 | A–2 | 4040 | 4 | – | 4 | .4375 | 91.0 | 8 5V 1500 TB | A–2 | 4040 | 4 | .25 | 4 | 1.5625 | 97.0 |
| 6 5V 1600 TB | 16 | 16 | A–3 | 4040 | 4 | – | 4 | .4375 | 97.0 | 8 5V 1600 TB | A–3 | 4040 | 4 | .25 | 4 | 1.5625 | 106.0 |
| 6 5V 1870 TB | 18.7 | 18.7 | A–2 | 4040 | 4 | – | 4 | .4375 | 97.0 | 8 5V 1870 TB | A–3 | 4040 | 4 | .25 | 4 | 1.5625 | 112.0 |
| 6 5V 2120 TB | 21.2 | 21.2 | A–3 | 4040 | 4 | – | 4 | .4375 | 123.0 | 8 5V 2120 TB | A–3 | 4040 | 4 | .25 | 4 | 1.5625 | 144.0 |
| 6 5V 2360 TB | 23.6 | 23.6 | A–3 | 4040 | 4 | – | 4 | .4375 | 124.0 | 8 5V 2360 TB | A–3 | 4040 | 4 | .25 | 4 | 1.5625 | 145.0 |
| 6 5V 2800 TB | 28 | 28 | A–3 | 4040 | 4 | – | 4 | .4375 | 176.0 | 8 5V 2800 TB | A–3 | 4545 | 4.5 | .25 | 4.5 | 1.0625 | 206.0 |
| 6 5V 3150 TB | 31.5 | 31.5 | A–3 | 4040 | 4 | – | 4 | .4375 | 171.0 | 8 5V 3150 TB | A–3 | 4545 | 4.5 | .25 | 4.5 | 1.0625 | 228.0 |
| 6 5V 3750 TB | 37.5 | 37.5 | B–3 | 4545 | 4.5 | – | 4.5 | .0625 | 254.0 | 8 5V 3750 TB | A–3 | 4545 | 4.5 | .25 | 4.5 | 1.0625 | 271.0 |
| 6 5V 5000 TB | 50 | 50 | B–3 | 4545 | 4.5 | – | 4.5 | .0625 | 386.0 | 8 5V 5000 TB | A–3 | 4545 | 4.5 | .25 | 4.5 | 1.0625 | 458.0 |

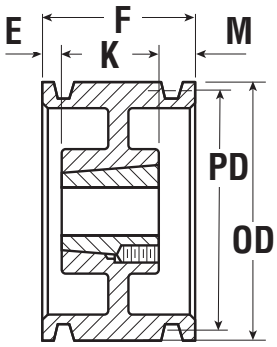
| 10 Grooves | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| F = 7 3/16 | | | | | | | | | |
| Part Number | Diameter OD | Diameter Pitch 5V | Type | Bush | Bush Max Bore | E | L LTB | M | Wt. Less Bush |
| 10 5V 800 TB | 8 | 8 | A-1 | 3030 | 3 | 1 | 3 | 3.1875 | 36.0 |
| 10 5V 850 TB | 8.5 | 8.5 | A-1 | 3030 | 3 | 1 | 3 | 3.1875 | 42.0 |
| 10 5V 900 TB | 9 | 9 | A-1 | 3535 | 3.5 | 1 | 3.5 | 2.6575 | 47.0 |
| 10 5V 925 TB | 9.25 | 9.25 | A-1 | 4040 | 4 | 1 | 4 | 2.1875 | 50.0 |
| 10 5V 975 TB | 9.75 | 9.75 | A-1 | 4040 | 4 | 1 | 4 | 2.1875 | 58.0 |
| 10 5V 1030 TB | 10.3 | 10.3 | A-1 | 4040 | 4 | 1 | 4 | 2.1875 | 69.0 |
| 10 5V 1090 TB | 10.9 | 10.9 | A-1 | 4040 | 4 | 1 | 4 | 2.1875 | 79.0 |
| 10 5V 1130 TB | 11.3 | 11.3 | A-1 | 4040 | 4 | 1 | 4 | 2.1875 | 80.0 |
| 10 5V 1180 TB | 11.8 | 11.8 | A-1 | 4040 | 4 | 1 | 4 | 2.1875 | 96.0 |
| 10 5V 1250 TB | 12.5 | 12.5 | A-2 | 4040 | 4 | .75 | 4 | 2.4375 | 116.0 |
| 10 5V 1320 TB | 13.2 | 13.2 | A-2 | 4040 | 4 | .75 | 4 | 2.4375 | 130.0 |
| 10 5V 1400 TB | 14 | 14 | A-2 | 4545 | 4.5 | .75 | 4.5 | 1.9375 | 150.0 |
| 10 5V 1500 TB | 15 | 15 | A-2 | 4545 | 4.5 | .75 | 4.5 | 1.9375 | 155.0 |
| 10 5V 1600 TB | 16 | 16 | A-2 | 4545 | 4.5 | .75 | 4.5 | 1.9375 | 160.0 |
| 10 5V 1870 TB | 18.7 | 18.7 | A-2 | 4545 | 4.5 | .5 | 4.5 | 2.1875 | 116.0 |
| 10 5V 2120 TB | 21.2 | 21.2 | A-3 | 4545 | 4.5 | .75 | 4.5 | 1.9375 | 210.0 |
| 10 5V 2360 TB | 23.6 | 23.6 | A-2 | 4545 | 4.5 | .5 | 4.5 | 2.1875 | 191.0 |
| 10 5V 2800 TB | 28 | 28 | A-3 | 4545 | 4.5 | .75 | 4.5 | 1.9375 | 248.0 |
| 10 5V 3150 TB | 31.5 | 31.5 | A-3 | 4545 | 4.5 | .75 | 4.5 | 1.9375 | 259.0 |
| 10 5V 3750 TB | 37.5 | 37.5 | A-3 | 4545 | 4.5 | .75 | 4.5 | 1.9375 | 375.0 |
| 10 5V 5000 TB | 50 | 50 | A-3 | 5050 | 5 | .75 | 5 | 1.4375 | 502.0 |

5/8 × 17/32

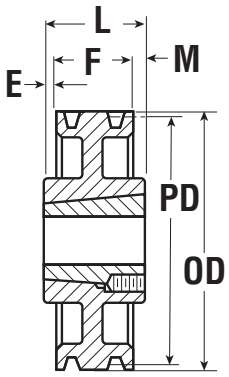
**5V**

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.
* 5VX Belts only on these sizes.

# Hi-Cap Wedge Stock Taper Bushed Sheaves 8V

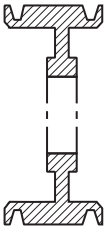



Type A

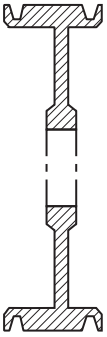



Type C

1=SOLID



2=WEB



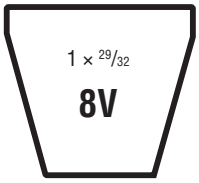
3=ARM/SPOKE

## Taper Bushed Sheaves – 8V

| 4 Grooves | | | | | | | | | | 5 Grooves | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 4 7/8 | | | | | | | | | | F = 6 | | | | | | | |
| Part Number | Diameter OD | Diameter Pitch 8V | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| 4 8V 1250 TB | 12.5 | 12.5 | A-1 | 4040 | 4 | – | 4 | .875 | 88.0 | 5 8V 1250 TB | A-1 | 4040 | 4 | .1875 | 4 | 1.8125 | 100.0 |
| 4 8V 1320 TB | 13.2 | 13.2 | A-1 | 4040 | 4 | – | 4 | .875 | 102.0 | 5 8V 1320 TB | A-1 | 4040 | 4 | .1875 | 4 | 1.8125 | 115.0 |
| 4 8V 1400 TB | 14 | 14 | A-1 | 4040 | 4 | – | 4 | .875 | 123.0 | 5 8V 1400 TB | A-1 | 4040 | 4 | .1875 | 4 | 1.8125 | 133.0 |
| 4 8V 1500 TB | 15 | 15 | A-1 | 4040 | 4 | – | 4 | .875 | 145.0 | 5 8V 1500 TB | A-1 | 4040 | 4 | .1875 | 4 | 1.8125 | 156.0 |
| 4 8V 1600 TB | 16 | 16 | A-2 | 4040 | 4 | – | 4 | .875 | 111.0 | 5 8V 1600 TB | A-1 | 4040 | 4 | .5 | 4 | 1.5 | 181.0 |
| 4 8V 1700 TB | 17 | 17 | A-2 | 4040 | 4 | – | 4 | .875 | 120.0 | 5 8V 1700 TB | A-2 | 4545 | 4.5 | – | 4.5 | 1.5 | 146.0 |
| 4 8V 1800 TB | 18 | 18 | A-2 | 4040 | 4 | – | 4 | .875 | 130.0 | 5 8V 1800 TB | A-2 | 4545 | 4.5 | – | 4.5 | 1.5 | 156.0 |
| 4 8V 1900 TB | 19 | 19 | A-2 | 4040 | 4 | – | 4 | .875 | 140.0 | 5 8V 1900 TB | A-2 | 4545 | 4.5 | – | 4.5 | 1.5 | 176.0 |
| 4 8V 2000 TB | 20 | 20 | A-2 | 4545 | 4.5 | – | 4.5 | .375 | 151.0 | 5 8V 2000 TB | A-2 | 4545 | 4.5 | – | 4.5 | 1.5 | 186.0 |
| 4 8V 2120 TB | 21.2 | 21.2 | A-3 | 4545 | 4.5 | – | 4.5 | .375 | 154.0 | 5 8V 2120 TB | A-3 | 4545 | 4.5 | – | 4.5 | 1.5 | 195.0 |
| 4 8V 2240 TB | 22.4 | 22.4 | A-3 | 4545 | 4.5 | – | 4.5 | .375 | 185.0 | 5 8V 2240 TB | A-3 | 4545 | 4.5 | – | 4.5 | 1.5 | 200.0 |
| 4 8V 2480 TB | 24.8 | 24.8 | D-3 | 5050 | 5 | .9375 | 5 | .8125 | 191.0 | 5 8V 2480 TB | A-3 | 5050 | 5 | – | 5 | 1.5 | 206.0 |
| 4 8V 3000 TB | 30 | 30 | C-3 | 5050 | 5 | – | 5 | .125 | 246.0 | 5 8V 3000 TB | A-3 | 5050 | 5 | – | 5 | 1 | 278.0 |
| 4 8V 3550 TB | 35.5 | 35.5 | D-3 | 5050 | 5 | 1.125 | 5 | 1 | 278.0 | 5 8V 3550 TB | A-3 | 5050 | 5 | – | 5 | 1 | 399.0 |
| 4 8V 4000 TB | 40 | 40 | B-3 | 5050 | 5 | – | 5 | .125 | 292.0 | 5 8V 4000 TB | A-3 | 5050 | 5 | – | 5 | 1 | 350.0 |
| 4 8V 4450 TB | 44.5 | 44.5 | D-3 | 5050 | 5 | .25 | 5 | .125 | 367.0 | 5 8V 4450 TB | A-3 | 5050 | 5 | – | 5 | 1 | 572.0 |
| 4 8V 5300 TB | 53 | 53 | B-3 | 5050 | 5 | – | 5 | .125 | 573.0 | 5 8V 5300 TB | A-3 | 5050 | 5 | – | 5 | 1 | 565.0 |

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

# 8V Hi-Cap Wedge Stock Taper Bushed Sheaves



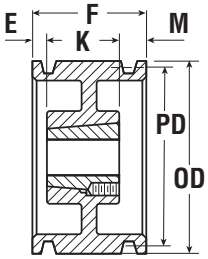

## Taper Bushed Sheaves – 8V

| 6 Grooves F = 7 1/8 | | | | | | | | | | 8 Grooves F = 9 3/8 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | Diameter OD | Diameter Pitch 8V | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| 6 8V 1250 TB | 12.5 | 12.5 | A-1 | 4040 | 4 | 1 | 4 | 2.125 | 100.0 | 8 8V 1250 TB | A-1 | 4545 | 4.5 | 1.5 | 4.5 | 3.375 | 125.0 |
| 6 8V 1320 TB | 13.2 | 13.2 | A-1 | 4040 | 4 | 1 | 4 | 2.125 | 124.0 | 8 8V 1320 TB | A-1 | 4545 | 4.5 | 1.5 | 4.5 | 3.375 | 135.0 |
| 6 8V 1400 TB | 14 | 14 | A-1 | 4040 | 4 | 1 | 4 | 2.125 | 142.0 | 8 8V 1400 TB | A-1 | 4545 | 4.5 | 1.5 | 4.5 | 3.375 | 156.0 |
| 6 8V 1500 TB | 15 | 15 | A-1 | 4545 | 4.5 | .5 | 4.5 | 2.125 | 153.0 | 8 8V 1500 TB | A-1 | 4545 | 4.5 | 1.5 | 4.5 | 3.375 | 160.0 |
| 6 8V 1600 TB | 16 | 16 | A-2 | 4545 | 4.5 | .5 | 4.5 | 2.125 | 170.0 | 8 8V 1600 TB | A-2 | 4545 | 4.5 | 1.5 | 4.5 | 3.375 | 166.0 |
| 6 8V 1700 TB | 17 | 17 | A-2 | 4545 | 4.5 | .5 | 4.5 | 2.125 | 175.0 | 8 8V 1700 TB | A-2 | 5050 | 5 | 1 | 5 | 3.375 | 265.0 |
| 6 8V 1800 TB | 18 | 18 | A-2 | 4545 | 4.5 | .5 | 4.5 | 2.125 | 180.0 | 8 8V 1800 TB | A-2 | 5050 | 5 | 1 | 5 | 3.375 | 204.0 |
| 6 8V 1900 TB | 19 | 19 | A-2 | 4545 | 4.5 | .5 | 4.5 | 2.125 | 182.0 | 8 8V 1900 TB | A-2 | 5050 | 5 | 1 | 5 | 3.375 | 228.0 |
| 6 8V 2000 TB | 20 | 20 | A-2 | 5050 | 5 | .5 | 5 | 1.625 | 226.0 | 8 8V 2000 TB | A-2 | 5050 | 5 | 1 | 5 | 3.375 | 234.0 |
| 6 8V 2120 TB | 21.2 | 21.2 | A-3 | 5050 | 5 | .5 | 5 | 1.625 | 246.0 | 8 8V 2120 TB | A-3 | 5050 | 5 | 1 | 5 | 3.375 | 246.0 |
| 6 8V 2240 TB | 22.4 | 22.4 | A-3 | 5050 | 5 | .5 | 5 | 1.625 | 267.0 | 8 8V 2240 TB | A-3 | 5050 | 5 | 1 | 5 | 3.375 | 300.0 |
| 6 8V 2480 TB | 24.8 | 24.8 | D-3 | 5050 | 5 | .125 | 5 | 2.25 | 236.0 | 8 8V 2480 TB | A-3 | 5050 | 5 | 2.125 | 5 | 2.25 | 285.0 |
| 6 8V 3000 TB | 30 | 30 | A-3 | 5050 | 5 | .5 | 5 | 1.625 | 398.0 | 8 8V 3000 TB | A-3 | 5050 | 5 | 1 | 5 | 3.375 | 384.0 |
| 6 8V 3550 TB | 35.5 | 35.5 | A-3 | 5050 | 5 | .5 | 5 | 1.625 | 363.0 | 8 8V 3550 TB | A-3 | 5050 | 5 | 1 | 5 | 3.375 | 441.0 |
| 6 8V 4000 TB | 40 | 40 | A-3 | 5050 | 5 | .5 | 5 | 1.625 | 468.0 | 8 8V 4000 TB | A-3 | 5050 | 5 | 1 | 5 | 3.375 | 556.0 |
| 6 8V 4450 TB | 44.5 | 44.5 | A-3 | 5050 | 5 | .5 | 5 | 1.625 | 485.0 | 8 8V 4450 TB | A-3 | 5050 | 5 | 1 | 5 | 3.375 | 596.0 |
| 6 8V 5300 TB | 53 | 53 | A-3 | 5050 | 5 | .5 | 5 | 1.625 | 658.0 | 8 8V 5300 TB | A-3 | 6050 | 6 | 1 | 5 | 3.375 | 1040.0 |

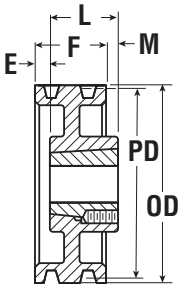
| 10 Grooves F = 11 5/8 | | | | | | | | | | 12 Grooves F = 13 7/8 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | Diameter OD | Diameter Pitch 8V | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| – | – | – | – | – | – | – | – | – | – | 12 8V 1250 TB | A-1 | 5050 | 5 | 3.1875 | 5 | 5.6875 | 153.0 |
| 10 8V 1320 TB | 13.2 | 13.2 | A-1 | 4545 | 4.5 | 1 | 4.5 | 6.125 | 150.0 | 12 8V 1320 TB | A-1 | 5050 | 5 | 3 | 5 | 5.875 | 180.0 |
| 10 8V 1400 TB | 14 | 14 | A-1 | 4545 | 4.5 | 1 | 4.5 | 6.125 | 180.0 | 12 8V 1400 TB | A-1 | 5050 | 5 | 3.1875 | 5 | 5.6875 | 186.0 |
| 10 8V 1500 TB | 15 | 15 | A-1 | 5050 | 5 | 1 | 5 | 5.625 | 211.0 | 12 8V 1500 TB | A-2 | 5050 | 5 | 1.875 | 5 | 7 | 221.0 |
| 10 8V 1600 TB | 16 | 16 | A-1 | 5050 | 5 | 1 | 5 | 5.625 | 220.0 | 12 8V 1600 TB | A-2 | 5050 | 5 | 1.875 | 5 | 7 | 247.0 |
| 10 8V 1700 TB | 17 | 17 | A-2 | 5050 | 5 | 2.25 | 5 | 4.375 | 228.0 | 12 8V 1700 TB | A-2 | 5050 | 5 | 3.5 | 5 | 5.375 | 267.0 |
| 10 8V 1800 TB | 18 | 18 | A-2 | 5050 | 5 | 2.25 | 5 | 4.375 | 244.0 | 12 8V 1800 TB | A-2 | 5050 | 5 | 3.5313 | 5 | 5.3438 | 274.0 |
| 10 8V 1900 TB | 19 | 19 | A-2 | 5050 | 5 | 2.25 | 5 | 4.375 | 260.0 | 12 8V 1900 TB | A-2 | 5050 | 5 | 2.25 | 5 | 6.625 | 306.0 |
| 10 8V 2000 TB | 20 | 20 | A-2 | 5050 | 5 | 2.25 | 5 | 4.375 | 270.0 | 12 8V 2000 TB | A-3 | 5050 | 5 | 2.25 | 5 | 6.625 | 249.0 |
| 10 8V 2120 TB | 21.2 | 21.2 | A-2 | 5050 | 5 | 2.25 | 5 | 4.375 | 282.0 | 12 8V 2120 TB | A-3 | 5050 | 5 | 2.25 | 5 | 6.625 | 294.0 |
| 10 8V 2240 TB | 22.4 | 22.4 | A-3 | 5050 | 5 | 2.25 | 5 | 4.375 | 312.0 | 12 8V 2240 TB | A-3 | 5050 | 5 | 2.25 | 5 | 6.625 | 337.0 |
| 10 8V 2480 TB | 24.8 | 24.8 | A-3 | 5050 | 5 | 2.375 | 5 | 4.25 | 328.0 | 12 8V 2480 TB | A-3 | 5050 | 5 | 5.375 | 5 | 3.5 | 380.0 |
| 10 8V 3000 TB | 30 | 30 | A-3 | 5050 | 5 | 2.25 | 5 | 4.375 | 448.0 | 12 8V 3000 TB | A-3 | 6050 | 6 | 4 | 5 | 4.875 | 482.0 |
| 10 8V 3550 TB | 35.5 | 35.5 | A-3 | 6050 | 6 | 2.25 | 5 | 4.375 | 517.0 | 12 8V 3550 TB | A-3 | 6050 | 6 | 4 | 5 | 4.875 | 597.0 |
| 10 8V 4000 TB | 40 | 40 | A-3 | 6050 | 6 | 2.25 | 5 | 4.375 | 550.0 | 12 8V 4000 TB | A-3 | 6050 | 6 | 4 | 5 | 4.875 | 911.5 |
| 10 8V 4450 TB | 44.5 | 44.5 | A-3 | 6050 | 6 | 2.25 | 5 | 4.375 | 701.0 | 12 8V 4450 TB | A-3 | 6050 | 6 | 4 | 5 | 4.875 | 814.0 |
| 10 8V 5300 TB | 53 | 53 | A-3 | 6050 | 6 | 2.25 | 5 | 4.375 | 870.0 | 12 8V 5300 TB | A-3 | 7060 | 6 | 5 | 5 | 2.875 | 1077.0 |

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

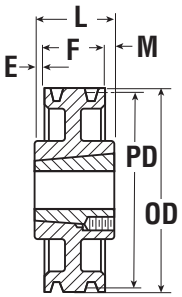
# Combination Groove Conventional Taper Bushed Stock Sheaves A-B




Type A




Type B




Type C

## Taper Bushed Sheaves – A-B

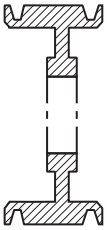
| 1 Groove | | | | | | | | | | | 2 Grooves | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 1* | | | | | | | | | | | F = 1 ¾ | | | | | | | |
| Part Number | Diameter A Belt | Diameter B Belt | OD | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| 1 B 34 TB | 3 | 3.4 | 3.75 | A-1 | 1210 | 1.25 | – | 1 | – | 2.2 | 2 B 34 TB | A-1 | 1210 | 1.25 | .75 | 1 | – | 2.2 |
| 1 B 36 TB | 3.2 | 3.6 | 3.95 | A-1 | 1210 | 1.25 | – | 1 | – | 2.6 | 2 B 36 TB | A-1 | 1210 | 1.25 | .75 | 1 | – | 2.6 |
| 1 B 38 TB | 3.4 | 3.8 | 4.15 | A-1 | 1610 | 1.625 | – | 1 | – | 2.8 | 2 B 38 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 2.8 |
| 1 B 40 TB | 3.6 | 4 | 4.35 | A-1 | 1610 | 1.625 | – | 1 | – | 3.0 | 2 B 40 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 3.0 |
| 1 B 42 TB | 3.8 | 4.2 | 4.55 | A-1 | 1610 | 1.625 | – | 1 | – | 3.5 | 2 B 42 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 4.0 |
| 1 B 44 TB | 4 | 4.4 | 4.75 | A-1 | 1610 | 1.625 | – | 1 | – | 3.8 | 2 B 44 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 4.5 |
| 1 B 46 TB | 4.2 | 4.6 | 4.95 | A-1 | 1610 | 1.625 | – | 1 | – | 4.0 | 2 B 46 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 5.0 |
| 1 B 48 TB | 4.4 | 4.8 | 5.15 | A-1 | 1610 | 1.625 | – | 1 | – | 4.5 | 2 B 48 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 5.5 |
| 1 B 50 TB | 4.6 | 5 | 5.35 | A-1 | 1610 | 1.625 | – | 1 | – | 4.8 | 2 B 50 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 6.0 |
| 1 B 52 TB | 4.8 | 5.2 | 5.55 | A-1 | 1610 | 1.625 | – | 1 | – | 5.0 | 2 B 52 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 6.5 |
| 1 B 54 TB | 5 | 5.4 | 5.75 | A-1 | 1610 | 1.625 | – | 1 | – | 5.5 | 2 B 54 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 7.0 |
| 1 B 56 TB | 5.2 | 5.6 | 5.95 | A-1 | 1610 | 1.625 | – | 1 | – | 6.0 | 2 B 56 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 8.2 |
| 1 B 58 TB | 5.4 | 5.8 | 6.15 | A-1 | 1610 | 1.625 | – | 1 | – | 6.3 | 2 B 58 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 8.6 |
| 1 B 60 TB | 5.6 | 6 | 6.35 | A-1 | 1610 | 1.625 | – | 1 | – | 6.7 | 2 B 60 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 8.8 |
| 1 B 62 TB | 5.8 | 6.2 | 6.55 | A-1 | 1610 | 1.625 | – | 1 | – | 7.0 | 2 B 62 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 9.0 |
| 1 B 64 TB | 6 | 6.4 | 6.75 | A-1 | 1610 | 1.625 | – | 1 | – | 8.0 | 2 B 64 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 10.0 |
| 1 B 66 TB | 6.2 | 6.6 | 6.95 | A-1 | 1610 | 1.625 | – | 1 | – | 8.5 | 2 B 66 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 10.5 |
| 1 B 68 TB | 6.4 | 6.8 | 7.15 | A-1 | 1610 | 1.625 | – | 1 | – | 9.0 | 2 B 68 TB | A-1 | 1610 | 1.625 | .75 | 1 | – | 11.0 |
| 1 B 70 TB | 6.6 | 7 | 7.35 | B-1 | 2517 | 2.5 | – | 1.75 | .75 | 8.5 | – | – | – | – | – | – | – | – |
| 1 B 74 TB | 7 | 7.4 | 7.75 | B-1 | 2517 | 2.5 | – | 1.75 | .75 | 9.4 | 2 B 74 TB | A-1 | 2517 | 2.5 | – | 1.75 | – | 16.0 |
| 1 B 86 TB | 8.2 | 8.6 | 8.95 | B-2 | 2517 | 2.5 | – | 1.75 | .75 | 12.0 | 2 B 86 TB | A-2 | 2517 | 2.5 | – | 1.75 | – | 18.0 |
| 1 B 94 TB | 9 | 9.4 | 9.75 | B-2 | 2517 | 2.5 | – | 1.75 | .75 | 14.0 | 2 B 94 TB | A-2 | 2517 | 2.5 | – | 1.75 | – | 20.0 |
| 1 B 110 TB | 10.6 | 11 | 11.35 | B-2 | 2517 | 2.5 | – | 1.75 | .75 | 15.6 | 2 B 110 TB | A-2 | 2517 | 2.5 | – | 1.75 | – | 25.0 |
| 1 B 124 TB | 12 | 12.4 | 12.75 | C-3 | 2517 | 2.5 | .25 | 1.75 | .5 | 16.2 | 2 B 124 TB | A-3 | 2517 | 2.5 | – | 1.75 | – | 27.0 |
| 1 B 136 TB | 13.2 | 13.6 | 13.95 | C-3 | 2517 | 2.5 | .25 | 1.75 | .5 | 17.2 | 2 B 136 TB | C-3 | 2517 | 2.5 | – | 1.75 | – | 24.0 |
| 1 B 154 TB | 15 | 15.4 | 15.75 | C-3 | 2517 | 2.5 | .25 | 1.75 | .5 | 18.0 | 2 B 154 TB | A-3 | 2517 | 2.5 | – | 1.75 | – | 31.0 |
| 1 B 160 TB | 16 | 16.4 | 16.35 | C-3 | 2517 | 2.5 | .375 | 1.75 | .375 | 24.1 | 2 B 160 TB | C-3 | 2517 | 2.5 | – | 1.75 | – | 26.0 |
| 1 B 184 TB | 18 | 18.4 | 18.75 | C-3 | 2517 | 2.5 | .1875 | 1.75 | .4375 | 31.2 | 2 B 184 TB | A-3 | 2517 | 2.5 | – | 1.75 | – | 33.0 |
| – | 19.6 | 20.0 | 20.35 | – | – | – | – | – | – | – | 2 B 200 TB | C-3 | 3020 | 3 | – | 2 | .25 | 49.0 |
| – | 24.6 | 25.0 | 25.35 | – | – | – | – | – | – | – | 2 B 250 TB | C-3 | 3020 | 3 | – | 2 | .25 | 65.0 |
| – | 29.6 | 30.0 | 30.35 | – | – | – | – | – | – | – | 2 B 300 TB | C-3 | 3020 | 3 | – | 2 | .25 | 75.0 |
| – | 37.6 | 38.0 | 38.35 | – | – | – | – | – | – | – | 2 B 380 TB | C-3 | 3020 | 3 | – | 2 | .25 | 112.0 |

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

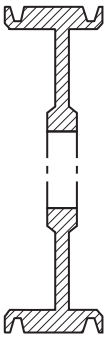
* F = 1" 1 B 154 TB
F = 1.125" for 1 B 184 TB

# A-B Combination Groove Conventional Taper Bushed Stock Sheaves

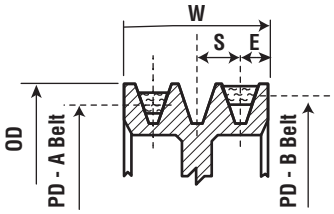
1=SOLID



2=WEB



3=ARM/SPOKE




### Combination Groove Dimensions

| Belt Selection | E | S | OD |
|---|---|---|---|
| AB | .5 | .75 | PD B + .35 |

W = S (N-1) + 2E
N = No. of Grooves

Drawing shows position of "A" and "B" belts in groove.

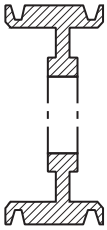
## Taper Bushed Sheaves – A-B

| 3 Grooves F = 2 ½ | | | | | | | | | | | 4 Grooves F = 3 ¼ | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | Diameter A Belt | Diameter B Belt | OD | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| 3 B 34 TB | 3 | 3.4 | 3.75 | A–1 | 1210 | 1.25 | 1.5 | 1 | – | 3.0 | 4 B 34 TB | A–1 | 1210 | 1.25 | 2.25 | 1 | – | 3.0 |
| 3 B 36 TB | 3.2 | 3.6 | 3.95 | A–1 | 1210 | 1.25 | 1.5 | 1 | – | 3.5 | 4 B 36 TB | A–1 | 1210 | 1.25 | 2.25 | 1 | – | 3.5 |
| 3 B 38 TB | 3.4 | 3.8 | 4.15 | A–1 | 1610 | 1.625 | 1.5 | 1 | – | 4.0 | 4 B 38 TB | A–1 | 1610 | 1.625 | 2.25 | 1 | – | 4.0 |
| 3 B 40 TB | 3.6 | 4 | 4.35 | A–1 | 1610 | 1.625 | 1.5 | 1 | – | 5.0 | 4 B 40 TB | A–1 | 1610 | 1.625 | 2.25 | 1 | – | 5.0 |
| 3 B 42 TB | 3.8 | 4.2 | 4.55 | A–1 | 1610 | 1.625 | 1.5 | 1 | – | 6.0 | 4 B 42 TB | A–1 | 1610 | 1.625 | 2.25 | 1 | – | 5.5 |
| 3 B 44 TB | 4 | 4.4 | 4.75 | A–1 | 1610 | 1.625 | 1.5 | 1 | – | 6.5 | 4 B 44 TB | A–1 | 1610 | 1.625 | 2.25 | 1 | – | 6.0 |
| 3 B 46 TB | 4.2 | 4.6 | 4.95 | A–1 | 1610 | 1.625 | 1.5 | 1 | – | 7.0 | 4 B 46 TB | A–1 | 1610 | 1.625 | 2.25 | 1 | – | 7.0 |
| 3 B 48 TB | 4.4 | 4.8 | 5.15 | A–1 | 1610 | 1.625 | 1.5 | 1 | – | 8.0 | 4 B 48 TB | A–1 | 1610 | 1.625 | 2.25 | 1 | – | 8.0 |
| 3 B 50 TB | 4.6 | 5 | 5.35 | A–1 | 1610 | 1.625 | 1.5 | 1 | – | 8.5 | 4 B 50 TB | A–1 | 2517 | 2.5 | 1.5 | 1.75 | – | 8.5 |
| 3 B 52 TB | 4.8 | 5.2 | 5.55 | A–1 | 1610 | 1.625 | 1.5 | 1 | – | 9.0 | 4 B 52 TB | A–1 | 2517 | 2.5 | 1.5 | 1.75 | – | 9.0 |
| 3 B 54 TB | 5 | 5.4 | 5.75 | A–1 | 2517 | 2.5 | 1.5 | 1.75 | – | 9.5 | 4 B 54 TB | A–1 | 2517 | 2.5 | 1.5 | 1.75 | – | 9.5 |
| 3 B 56 TB | 5.2 | 5.6 | 5.95 | A–1 | 2517 | 2.5 | 1.5 | 1.75 | – | 10.0 | 4 B 56 TB | A–1 | 2517 | 2.5 | 1.5 | 1.75 | – | 10.0 |
| 3 B 58 TB | 5.4 | 5.8 | 6.15 | A–1 | 2517 | 2.5 | .75 | 1.75 | – | 10.5 | 4 B 58 TB | A–1 | 2517 | 2.5 | 1.5 | 1.75 | – | 12.0 |
| 3 B 60 TB | 5.6 | 6 | 6.35 | A–1 | 2517 | 2.5 | .75 | 1.75 | – | 11.0 | 4 B 60 TB | A–1 | 2517 | 2.5 | 1.5 | 1.75 | – | 12.5 |
| 3 B 62 TB | 5.8 | 6.2 | 6.55 | A–1 | 2517 | 2.5 | .75 | 1.75 | – | 11.5 | 4 B 62 TB | A–1 | 2517 | 2.5 | 1.5 | 1.75 | – | 13.0 |
| 3 B 64 TB | 6 | 6.4 | 6.75 | A–1 | 2517 | 2.5 | .75 | 1.75 | – | 12.0 | 4 B 64 TB | A–1 | 2517 | 2.5 | 1.5 | 1.75 | – | 14.0 |
| 3 B 66 TB | 6.2 | 6.6 | 6.95 | A–1 | 2517 | 2.5 | .75 | 1.75 | – | 12.3 | 4 B 66 TB | A–1 | 2517 | 2.5 | 1.5 | 1.75 | – | 15.0 |
| 3 B 68 TB | 6.4 | 6.8 | 7.15 | A–1 | 2517 | 2.5 | .75 | 1.75 | – | 12.8 | 4 B 68 TB | A–1 | 2517 | 2.5 | 1.5 | 1.75 | – | 16.0 |
| – | – | – | – | – | – | – | – | – | – | – | 4 B 70 TB | A–1 | 2517 | 2.5 | – | 1.75 | 1.5 | 20.0 |
| 3 B 74 TB | 7 | 7.4 | 7.75 | A–1 | 2517 | 2.5 | .75 | 1.75 | – | 16.0 | 4 B 74 TB | A–1 | 2517 | 2.5 | 1.5 | 1.75 | – | 16.0 |
| 3 B 80 TB | 8 | 8.4 | 8.35 | A–1 | 2517 | 2.5 | – | 1.75 | .75 | 19.0 | 4 B 80 TB | A–1 | 2517 | 2.5 | – | 1.75 | 1.5 | 21.0 |
| 3 B 86 TB | 8.2 | 8.6 | 8.95 | A–2 | 2517 | 2.5 | .75 | 1.75 | – | 19.0 | 4 B 86 TB | A–2 | 2517 | 2.5 | 1.5 | 1.75 | – | 21.0 |
| 3 B 94 TB | 9 | 9.4 | 9.75 | A–2 | 2517 | 2.5 | .75 | 1.75 | – | 21.0 | 4 B 94 TB | A–2 | 2517 | 2.5 | 1.5 | 1.75 | – | 23.0 |
| 3 B 110 TB | 10.6 | 11 | 11.35 | A–2 | 2517 | 2.5 | .75 | 1.75 | – | 24.0 | 4 B 110 TB | A–2 | 2517 | 2.5 | 1.5 | 1.75 | – | 28.0 |
| 3 B 124 TB | 12 | 12.4 | 12.75 | A–3 | 2517 | 2.5 | – | 1.75 | .75 | 28.0 | 4 B 124 TB | A–3 | 2517 | 2.5 | .375 | 1.75 | 1.125 | 32.8 |
| 3 B 136 TB | 13.2 | 13.6 | 13.95 | A–3 | 2517 | 2.5 | – | 1.75 | .75 | 25.0 | 4 B 136 TB | A–3 | 2517 | 2.5 | .375 | 1.75 | 1.125 | 34.0 |
| 3 B 154 TB | 15 | 15.4 | 15.75 | A–3 | 2517 | 2.5 | – | 1.75 | .75 | 30.0 | 4 B 154 TB | A–3 | 2517 | 2.5 | .375 | 1.75 | 1.125 | 42.0 |
| 3 B 160 TB | 15.6 | 16 | 16.35 | A–3 | 2517 | 2.5 | – | 1.75 | .75 | 32.0 | 4 B 160 TB | A–3 | 2517 | 2.5 | .375 | 1.75 | 1.125 | 45.1 |
| 3 B 184 TB | 18 | 18.4 | 18.75 | A–3 | 2517 | 2.5 | – | 1.75 | .75 | 44.0 | 4 B 184 TB | A–3 | 2517 | 2.5 | .5 | 1.75 | 1 | 53.0 |
| 3 B 200 TB | 19.6 | 20 | 20.35 | A–3 | 3020 | 3 | – | 2 | .5 | 58.0 | 4 B 200 TB | A–3 | 3020 | 3 | .5 | 2 | .75 | 63.0 |
| 3 B 250 TB | 24.6 | 25 | 25.35 | A–3 | 3020 | 3 | – | 2 | .5 | 74.0 | 4 B 250 TB | A–3 | 3030 | 3 | – | 3 | 1.25 | 80.0 |
| 3 B 300 TB | 29.6 | 30 | 30.35 | A–3 | 3020 | 3 | – | 2 | .5 | 84.0 | 4 B 300 TB | A–3 | 3030 | 3 | – | 3 | 1.25 | 100.0 |
| 3 B 380 TB | 37.6 | 38 | 38.35 | B–3 | 3020 | 3 | – | 3 | .5 | 135.0 | 4 B 380 TB | A–3 | 3030 | 3 | – | 3 | 1.25 | 142.0 |

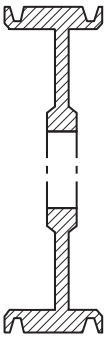
Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

# Combination Groove Conventional Taper Bushed Stock Sheaves A-B

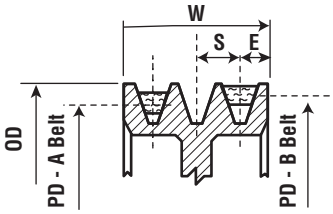
1=SOLID



2=WEB



3=ARM/SPOKE




### Combination Groove Dimensions

| Belt Selection | E | S | OD |
|---|---|---|---|
| AB | .5 | .75 | PD B + .35 |

W = S (N-1) + 2E
N = No. of Grooves

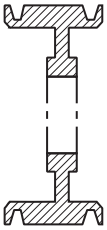
Drawing shows position of "A" and "B" belts in groove.

## Taper Bushed Sheaves – A-B

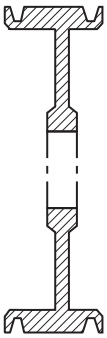
| 5 Grooves F = 4 | | | | | | | | | | | 6 Grooves F = 4 ¾ | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | Diameter A Belt | Diameter B Belt | OD | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| 5 B 34 TB | 3.0 | 3.4 | 3.75 | A-1 | 1210 | 1.25 | 2.5 | 1.5 | 0 | 5.0 | | | | | | | | |
| 5 B 36 TB | 3.2 | 3.6 | 3.95 | A-1 | 1210 | 1.25 | 2.5 | 1.5 | 0 | 5.5 | | | | | | | | |
| 5 B 38 TB | 3.4 | 3.8 | 4.15 | A-1 | 1215 | 1.625 | .875 | 1.5 | 1.625 | 6.0 | | | | | | | | |
| 5 B 40 TB | 3.6 | 4.0 | 4.35 | A-1 | 1215 | 1.625 | .875 | 1.5 | 1.625 | 6.5 | | | | | | | | |
| 5 B 42 TB | 3.8 | 4.2 | 4.55 | A-1 | 1615 | 1.625 | 2.5 | 1.5 | 0 | 7.0 | 6 B 42 TB | A-1 | 1615 | 1.625 | 3.25 | 1.5 | 0 | 8.0 |
| 5 B 44 TB | 4.0 | 4.4 | 4.75 | A-1 | 1615 | 1.625 | 2.5 | 1.5 | 0 | 8.0 | 6 B 44 TB | A-1 | 1615 | 1.625 | 3.25 | 1.5 | 0 | 9.0 |
| 5 B 46 TB | 4.2 | 4.6 | 4.95 | A-1 | 1615 | 1.625 | 2.5 | 1.5 | 0 | 9.0 | 6 B 46 TB | A-1 | 1615 | 1.625 | 3.25 | 1.5 | 0 | 10.0 |
| 5 B 48 TB | 4.8 | 5.2 | 5.15 | A-1 | 1615 | 1.625 | .875 | 1.5 | 1.625 | 9.4 | 6 B 48 TB | A-1 | 1615 | 1.625 | 1.25 | 1.5 | 2 | 11.0 |
| 5 B 50 TB | 4.6 | 5.0 | 5.35 | A-1 | 1615 | 1.625 | .875 | 1.5 | 0 | 10.5 | 6 B 50 TB | A-1 | 1615 | 1.625 | 1.25 | 1.5 | 2 | 11.9 |
| 5 B 52 TB | 4.8 | 5.2 | 5.55 | A-1 | 1615 | 1.625 | .875 | 1.5 | 0 | 11.3 | 6 B 52 TB | A-1 | 1615 | 1.625 | 1.25 | 1.5 | 2 | 12.8 |
| 5 B 54 TB | 5.0 | 5.4 | 5.75 | A-1 | 2517 | 2.5 | 2.25 | 1.75 | 0 | 11.5 | 6 B 54 TB | A-1 | 2517 | 1.625 | 1.25 | 1.5 | 2 | 13.7 |
| 5 B 56 TB | 5.2 | 5.6 | 5.95 | A-1 | 2517 | 2.5 | 2.25 | 1.75 | 0 | 12.0 | 6 B 56 TB | A-1 | 2517 | 1.625 | 1.25 | 1.5 | 2 | 14.6 |
| 5 B 58 TB | 5.8 | 6.2 | 6.15 | A-1 | 2517 | 2.5 | .8125 | 1.75 | 1.4375 | 13.0 | 6 B 58 TB | A-1 | 2517 | 2.5 | 1.125 | 1.75 | 1.875 | 14.0 |
| 5 B 60 TB | 5.6 | 6.0 | 6.35 | A-1 | 2517 | 2.5 | 2.25 | 1.75 | 0 | 14.0 | 6 B 60 TB | A-1 | 2517 | 2.5 | 3 | 1.75 | 0 | 16.0 |
| 5 B 62 TB | 6.2 | 6.6 | 6.55 | A-1 | 2517 | 2.5 | .8125 | 1.75 | 1.4375 | 14.0 | 6 B 62 TB | A-1 | 2517 | 2.5 | 1.125 | 1.75 | 1.875 | 16.0 |
| 5 B 64 TB | 6.0 | 6.4 | 6.75 | A-1 | 2517 | 2.5 | 2.25 | 1.75 | 0 | 16.0 | 6 B 64 TB | A-1 | 2517 | 2.5 | 3 | 1.75 | 0 | 19.5 |
| 5 B 66 TB | 6.6 | 7.0 | 6.95 | A-1 | 2517 | 2.5 | .8125 | 1.75 | 1.4375 | 16.0 | 6 B 66 TB | A-1 | 2517 | 2.5 | 1.125 | 1.75 | 1.875 | 20.0 |
| 5 B 68 TB | 6.4 | 6.8 | 7.15 | A-1 | 2517 | 2.5 | 2.25 | 1.75 | 0 | 18.0 | 6 B 68 TB | A-1 | 2517 | 2.5 | 3 | 1.75 | 0 | 21.0 |
| 5 B 70 TB | 7.0 | 7.4 | 7.35 | A-1 | 2517 | 2.5 | .75 | 1.75 | 1.5 | 18.0 | 6 B 70 TB | A-1 | 2517 | 2.5 | 1.5 | 1.75 | 1.5 | 21.0 |
| 5 B 74 TB | 7.0 | 7.4 | 7.75 | A-1 | 2517 | 2.5 | 2.25 | 1.75 | 0 | 22.0 | 6 B 74 TB | A-1 | 2517 | 2.5 | 3 | 1.75 | 0 | 25.0 |
| 5 B 80 TB | 8.0 | 8.4 | 8.35 | A-1 | 2517 | 2.5 | .5 | 1.75 | 1.75 | 23.0 | 6 B 80 TB | A-1 | 2517 | 2.5 | 1.5 | 1.75 | 1.5 | 26.0 |
| 5 B 86 TB | 8.2 | 8.6 | 8.95 | A-2 | 2517 | 2.5 | 2.25 | 1.75 | 0 | 24.0 | 6 B 86 TB | A-2 | 2517 | 2.5 | 3 | 1.75 | 0 | 27.0 |
| 5 B 94 TB | 9.0 | 9.4 | 9.75 | A-2 | 2517 | 2.5 | 2.25 | 1.75 | 0 | 26.0 | 6 B 94 TB | A-2 | 2517 | 2.5 | 3 | 1.75 | 0 | 28.0 |
| 5 B 110 TB | 10.6 | 11.0 | 11.35 | A-2 | 2517 | 2.5 | 2.25 | 1.75 | 0 | 35.0 | 6 B 110 TB | A-2 | 2517 | 2.5 | 3 | 1.75 | 0 | 34.0 |
| 5 B 124 TB | 12.0 | 12.4 | 12.75 | A-3 | 2517 | 2.5 | .75 | 1.75 | 1.5 | 40.0 | 6 B 124 TB | A-3 | 2517 | 2.5 | 1.125 | 1.75 | 1.875 | 43.0 |
| 5 B 136 TB | 13.6 | 14.0 | 13.95 | A-3 | 2517 | 2.5 | 1 | 1.75 | 1.25 | 38.0 | 6 B 136 TB | A-3 | 2517 | 2.5 | 1.5 | 1.75 | 1.5 | 42.0 |
| 5 B 154 TB | 15.0 | 15.4 | 15.75 | A-3 | 2517 | 2.5 | .75 | 1.75 | 1.5 | 47.0 | 6 B 154 TB | A-3 | 2517 | 2.5 | 1.5 | 1.75 | 1.5 | 52.0 |
| 5 B 160 TB | 16.0 | 16.4 | 16.35 | A-3 | 2517 | 2.5 | .75 | 1.75 | 1.5 | 67.0 | 6 B 160 TB | A-3 | 2517 | 2.5 | 1.5 | 1.75 | 1.5 | 53.0 |
| 5 B 184 TB | 18.0 | 18.4 | 18.75 | A-3 | 2517 | 2.5 | .75 | 1.75 | 1.5 | 52.0 | 6 B 184 TB | A-3 | 2517 | 2.5 | 1.5 | 1.75 | 1.5 | 62.0 |
| 5 B 200 TB | 19.6 | 20.0 | 20.35 | A-3 | 3030 | 3 | .25 | 3 | .75 | 75.0 | 6 B 200 TB | A-3 | 3030 | 3 | .5 | 3 | 1.25 | 85.0 |
| 5 B 250 TB | 24.6 | 25.0 | 25.35 | A-3 | 3030 | 3 | .25 | 3 | .75 | 81.0 | 6 B 250 TB | A-3 | 3030 | 3 | .5 | 3 | 1.25 | 100.0 |
| 5 B 300 TB | 29.6 | 30.0 | 30.35 | A-3 | 3030 | 3 | .25 | 3 | .75 | 109.0 | 6 B 300 TB | A-3 | 3030 | 3 | .5 | 3 | 1.25 | 137.0 |
| 5 B 380 TB | 37.6 | 38.0 | 38.35 | A-3 | 3030 | 3 | .25 | 3 | .75 | 158.0 | 6 B 380 TB | A-3 | 3030 | 3 | .5 | 3 | 1.25 | 168.0 |

# A-B Combination Groove Conventional Taper Bushed Stock Sheaves

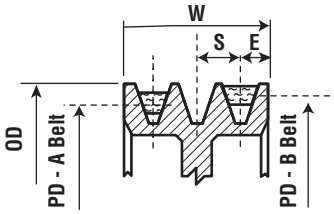
1=SOLID



2=WEB



3=ARM/SPOKE




### Combination Groove Dimensions

| Belt Selection | E | S | OD |
|---|---|---|---|
| AB | .5 | .75 | PD B + .35 |

W = S (N-1) + 2E
N = No. of Grooves

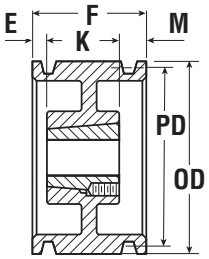
Drawing shows position of "A" and "B" belts in groove.

## Taper Bushed Sheaves – A-B

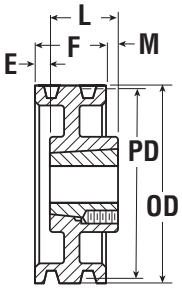
| 8 Grooves F = 6 ¼ | | | | | | | | | | | 10 Grooves F = 7 ¾ | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | Diameter A Belt | Diameter B Belt | OD | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| 8 B 54 TB | 5 | 5.4 | 5.75 | A-1 | 2517 | 2.5 | 1.875 | 1.75 | 2.625 | 16.0 | 10 B 54 TB | A-1 | 2517 | 2.5 | 3 | 1.75 | 3 | 18.0 |
| 8 B 56 TB | 5.2 | 5.6 | 5.95 | A-1 | 2517 | 2.5 | 1.875 | 1.75 | 2.625 | 17.0 | 10 B 56 TB | A-1 | 2517 | 2.5 | 3 | 1.75 | 3 | 20.0 |
| 8 B 60 TB | 5.6 | 6 | 6.35 | A-1 | 2517 | 2.5 | 1.875 | 1.75 | 2.625 | 19.0 | 10 B 60 TB | A-1 | 2517 | 2.5 | 3 | 1.75 | 3 | 22.0 |
| 8 B 64 TB | 6 | 6.4 | 6.75 | A-1 | 2517 | 2.5 | 1.875 | 1.75 | 2.625 | 21.0 | 10 B 64 TB | A-1 | 2517 | 2.5 | 3 | 1.75 | 3 | 25.5 |
| 8 B 68 TB | 6.4 | 6.8 | 7.15 | A-1 | 2517 | 2.5 | 1.875 | 1.75 | 2.625 | 25.0 | 10 B 68 TB | A-1 | 2517 | 2.5 | 3 | 1.75 | 3 | 28.0 |
| 8 B 74 TB | 7 | 7.4 | 7.75 | A-1 | 2517 | 2.5 | 1.875 | 1.75 | 2.625 | 29.0 | 10 B 74 TB | A-1 | 2517 | 2.5 | 3 | 1.75 | 3 | 35.0 |
| 8 B 86 TB | 8.2 | 8.6 | 8.95 | A-1 | 3030 | 3 | 1 | 3 | 2.25 | 37.0 | 10 B 86 TB | A-1 | 3030 | 3 | 2 | 3 | 2.75 | 43.0 |
| 8 B 94 TB | 9 | 9.4 | 9.95 | A-2 | 3030 | 3 | 1 | 3 | 2.25 | 41.0 | 10 B 94 TB | A-2 | 3030 | 3 | 2 | 3 | 2.75 | 46.0 |
| 8 B 110 TB | 10.6 | 11 | 11.35 | A-2 | 3030 | 3 | 1 | 3 | 2.25 | 51.0 | 10 B 110 TB | A-2 | 3030 | 3 | 2 | 3 | 2.75 | 52.0 |
| 8 B 124 TB | 12 | 12.4 | 12.75 | A-3 | 3030 | 3 | 1 | 3 | 2.25 | 56.0 | – | – | – | – | – | – | – | – |
| 8 B 154 TB | 15 | 15.4 | 15.75 | A-3 | 3030 | 3 | 1 | 3 | 2.25 | 69.0 | – | – | – | – | – | – | – | – |
| 8 B 184 TB | 18 | 18.4 | 18.75 | A-3 | 3030 | 3 | 1 | 3 | 2.25 | 99.0 | – | – | – | – | – | – | – | – |
| 8 B 200 TB | 19.6 | 20 | 20.35 | A-3 | 3030 | 3 | 1 | 3 | 2.25 | 115.0 | – | – | – | – | – | – | – | – |
| 8 B 250 TB | 24.6 | 25 | 25.35 | A-3 | 3535 | 3.5 | .75 | 3.5 | 2 | 145.0 | – | – | – | – | – | – | – | – |
| 8 B 300 TB | 29.6 | 30 | 30.35 | A-3 | 3535 | 3.5 | .75 | 3.5 | 2 | 170.0 | – | – | – | – | – | – | – | – |
| 8 B 380 TB | 37.6 | 38 | 38.35 | A-3 | 4040 | 4 | 1.125 | 4 | 1.125 | 260.0 | – | – | – | – | – | – | – | – |

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

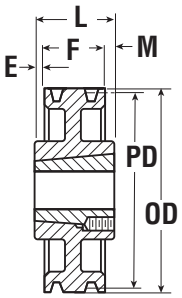
# Conventional Stock Taper Bushed Sheaves C



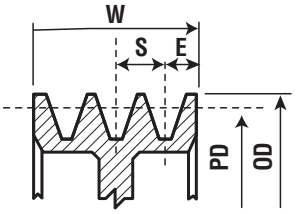

Type A




Type B




Type C

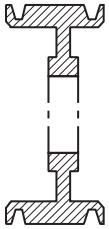



**Combination Groove Dimensions**

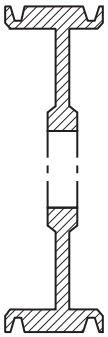
| Belt Selection | E | S | OD |
|---|---|---|---|
| C | .6875 | 1 | PD B + .40 |

W = S(N-1) + 2E
N = No. of Grooves

1=SOLID



2=WEB



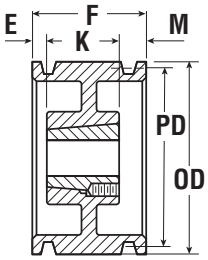
3=ARM/SPOKE

## Taper Bushed Sheaves – C

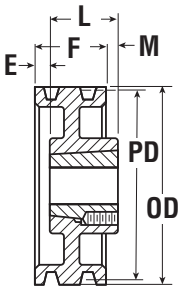
| 2 Grooves F = 2 3/8 | | | | | | | | | | 3 Grooves F = 3 3/8 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | PD C Belt | OD | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| 2 C 70 TB | 7 | 7.4 | A-1 | 2517 | 2.5 | .625 | 1.75 | – | 15.0 | 3 C 70 TB | A-1 | 2517 | 2.5 | .25 | 1.75 | 1.375 | 18.0 |
| 2 C 75 TB | 7.5 | 7.9 | A-1 | 2517 | 2.5 | .625 | 1.75 | – | 17.0 | 3 C 75 TB | A-1 | 2517 | 2.5 | .25 | 1.75 | 1.375 | 20.0 |
| 2 C 80 TB | 8 | 8.4 | A-1 | 2517 | 2.5 | .625 | 1.75 | – | 20.0 | 3 C 80 TB | A-1 | 2517 | 2.5 | .25 | 1.75 | 1.375 | 22.0 |
| 2 C 85 TB | 8.5 | 8.9 | A-2 | 2517 | 2.5 | .625 | 1.75 | – | 22.0 | 3 C 85 TB | A-2 | 2517 | 2.5 | .25 | 1.75 | 1.375 | 23.0 |
| 2 C 90 TB | 9 | 9.4 | A-2 | 2517 | 2.5 | .625 | 1.75 | – | 23.0 | 3 C 90 TB | A-2 | 2517 | 2.5 | .25 | 1.75 | 1.375 | 24.0 |
| 2 C 95 TB | 9.5 | 9.9 | A-2 | 2517 | 2.5 | .625 | 1.75 | – | 24.0 | 3 C 95 TB | A-2 | 2517 | 2.5 | .25 | 1.75 | 1.375 | 27.0 |
| 2 C 100 TB | 10 | 10.4 | A-2 | 2517 | 2.5 | .625 | 1.75 | – | 25.0 | 3 C 100 TB | A-2 | 2517 | 2.5 | .25 | 1.75 | 1.375 | 29.0 |
| 2 C 105 TB | 10.5 | 10.9 | A-2 | 2517 | 2.5 | .625 | 1.75 | – | 26.0 | 3 C 105 TB | A-2 | 2517 | 2.5 | .25 | 1.75 | 1.375 | 32.0 |
| 2 C 110 TB | 11 | 11.4 | A-2 | 2517 | 2.5 | .625 | 1.75 | – | 27.0 | 3 C 110 TB | A-2 | 2517 | 2.5 | .25 | 1.75 | 1.375 | 35.0 |
| 2 C 120 TB | 12 | 12.4 | A-2 | 2517 | 2.5 | .625 | 1.75 | – | 33.0 | 3 C 120 TB | A-2 | 3020 | 3 | – | 2 | 1.375 | 44.0 |
| 2 C 130 TB | 13 | 13.4 | A-3 | 2517 | 2.5 | .625 | 1.75 | – | 35.0 | 3 C 130 TB | A-3 | 3020 | 3 | – | 2 | 1.375 | 49.0 |
| 2 C 140 TB | 14 | 14.4 | A-3 | 2517 | 2.5 | .625 | 1.75 | – | 36.0 | 3 C 140 TB | A-3 | 3020 | 3 | – | 2 | 1.375 | 50.0 |
| 2 C 160 TB | 16 | 16.4 | A-3 | 2517 | 2.5 | .625 | 1.75 | – | 42.0 | 3 C 160 TB | A-3 | 3020 | 3 | – | 2 | 1.375 | 64.0 |
| 2 C 180 TB | 18 | 18.4 | A-3 | 3020 | 3 | – | 2 | .375 | 42.0 | 3 C 180 TB | A-3 | 3030 | 3 | – | 3 | .375 | 64.0 |
| 2 C 200 TB | 20 | 20.4 | A-3 | 3020 | 3 | – | 2 | .375 | 45.0 | 3 C 200 TB | A-3 | 3030 | 3 | – | 3 | .375 | 78.0 |
| 2 C 240 TB | 24 | 24.4 | A-3 | 3020 | 3 | – | 2 | .375 | 72.0 | 3 C 240 TB | A-3 | 3030 | 3 | – | 3 | .375 | 96.0 |
| 2 C 300 TB | 30 | 30.4 | C-3 | 3535 | 3.5 | .5 | 3.5 | .625 | 85.0 | 3 C 300 TB | B-3 | 3535 | 3.5 | – | 3.5 | .125 | 125.0 |
| – | 36 | 36.4 | – | – | – | – | – | – | – | 3 C 360 TB | B-3 | 3535 | 3.5 | – | 3.5 | .125 | 175.0 |

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

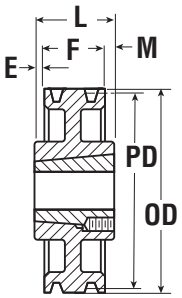
# C Conventional Stock Taper Bushed Sheaves




Type A

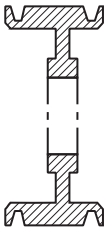



Type B

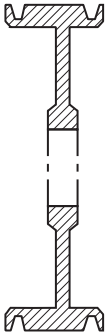



Type C

1=SOLID



2=WEB



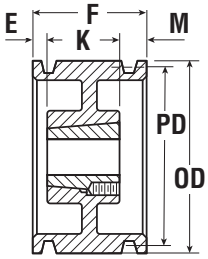
3=ARM/SPOKE

## Taper Bushed Sheaves – C

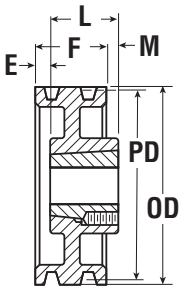
| 4 Grooves | | | | | | | | | | 5 Grooves | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 4 3/8 | | | | | | | | | | F = 5 3/8 | | | | | | | |
| Part Number | PD C Belt | OD | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| 4 C 70 TB | 7 | 7.4 | A-1 | 2517 | 2.5 | .5 | 1.75 | 2.125 | 20.0 | 5 C 70 TB | A-1 | 2517 | 2.5 | 1.5 | 1.75 | 2.125 | 23.0 |
| 4 C 75 TB | 7.5 | 7.9 | A-1 | 2517 | 2.5 | .5 | 1.75 | 2.125 | 23.0 | 5 C 75 TB | A-1 | 2517 | 2.5 | 1.5 | 1.75 | 2.125 | 26.0 |
| 4 C 80 TB | 8 | 8.4 | A-1 | 2517 | 2.5 | .5 | 1.75 | 2.125 | 25.0 | 5 C 80 TB | A-1 | 2517 | 2.5 | 1.5 | 1.75 | 2.125 | 30.0 |
| 4 C 85 TB | 8.5 | 8.9 | A-2 | 2517 | 2.5 | .5 | 1.75 | 2.125 | 26.0 | 5 C 85 TB | A-1 | 2517 | 2.5 | 1.5 | 1.75 | 2.125 | 34.0 |
| 4 C 90 TB | 9 | 9.4 | A-2 | 2517 | 2.5 | .5 | 1.75 | 2.125 | 27.0 | 5 C 90 TB | A-2 | 2517 | 2.5 | 1.5 | 1.75 | 2.125 | 35.0 |
| 4 C 95 TB | 9.5 | 9.9 | A-2 | 2517 | 2.5 | .5 | 1.75 | 2.125 | 36.0 | 5 C 95 TB | A-2 | 2517 | 2.5 | 1.5 | 1.75 | 2.125 | 36.0 |
| 4 C 100 TB | 10 | 10.4 | A-2 | 2517 | 2.5 | .5 | 1.75 | 2.125 | 39.0 | 5 C 100 TB | A-2 | 2517 | 2.5 | 1.5 | 1.75 | 2.125 | 39.0 |
| 4 C 105 TB | 10.5 | 10.9 | A-2 | 2517 | 2.5 | .5 | 1.75 | 2.125 | 42.0 | 5 C 105 TB | A-2 | 2517 | 2.5 | 1.5 | 1.75 | 2.125 | 42.0 |
| 4 C 110 TB | 11 | 11.4 | A-2 | 2517 | 2.5 | .5 | 1.75 | 2.125 | 45.0 | 5 C 110 TB | A-2 | 2517 | 2.5 | 1.5 | 1.75 | 2.125 | 43.0 |
| 4 C 120 TB | 12 | 12.4 | A-2 | 3030 | 3 | – | 3 | 1.375 | 47.0 | 5 C 120 TB | A-2 | 3030 | 3 | .5 | 3 | 1.875 | 58.0 |
| 4 C 130 TB | 13 | 13.4 | A-3 | 3030 | 3 | – | 3 | 1.375 | 51.0 | 5 C 130 TB | A-3 | 3030 | 3 | .5 | 3 | 1.875 | 63.0 |
| 4 C 140 TB | 14 | 14.4 | A-3 | 3030 | 3 | – | 3 | 1.375 | 54.0 | 5 C 140 TB | A-3 | 3030 | 3 | .5 | 3 | 1.875 | 65.0 |
| 4 C 160 TB | 16 | 16.4 | A-3 | 3030 | 3 | – | 3 | 1.375 | 71.0 | 5 C 160 TB | A-3 | 3030 | 3 | .5 | 3 | 1.875 | 70.0 |
| 4 C 180 TB | 18 | 18.4 | A-3 | 3030 | 3 | – | 3 | 1.375 | 81.0 | 5 C 180 TB | A-3 | 3030 | 3 | .5 | 3 | 1.875 | 83.0 |
| 4 C 200 TB | 20 | 20.4 | A-3 | 3030 | 3 | – | 3 | 1.375 | 84.0 | 5 C 200 TB | A-3 | 3535 | 3.5 | – | 3.5 | 1.875 | 110.0 |
| 4 C 240 TB | 24 | 24.4 | A-3 | 3030 | 3 | – | 3 | 1.375 | 116.0 | 5 C 240 TB | A-3 | 3535 | 3.5 | – | 3.5 | 1.875 | 138.0 |
| 4 C 300 TB | 30 | 30.4 | A-3 | 3535 | 3.5 | – | 3.5 | .875 | 164.0 | 5 C 300 TB | A-3 | 3535 | 3.5 | – | 3.5 | 1.875 | 176.0 |
| 4 C 360 TB | 36 | 36.4 | A-3 | 3535 | 3.5 | – | 3.5 | .875 | 192.0 | 5 C 360 TB | A-3 | 4040 | 4 | .25 | 4 | 1.125 | 244.0 |
| 4 C 440 TB | 44 | 44.4 | A-3 | 4040 | 4 | – | 4 | .375 | 282.0 | 5 C 440 TB | A-3 | 4040 | 4 | .25 | 4 | 1.125 | 288.0 |

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

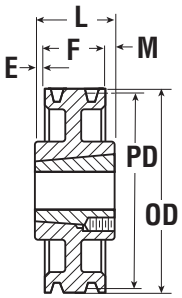
# Conventional Stock Taper Bushed Sheaves C




Type A

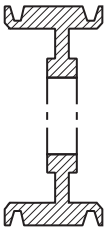



Type B

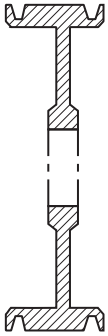



Type C

1=SOLID



2=WEB



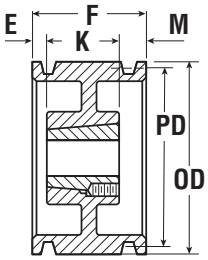
3=ARM/SPOKE

## Taper Bushed Sheaves – C

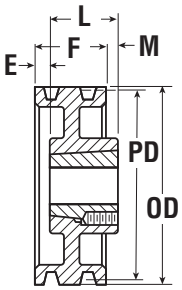
| 6 Grooves F = 6 3/8 | | | | | | | | | | 8 Grooves F = 8 3/8 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | PD C Belt | OD | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| 6 C 70 TB | 7 | 7.4 | A-1 | 3030 | 3 | 1 | 3 | 2.375 | 30.0 | – | – | – | – | – | – | – | – |
| 6 C 75 TB | 7.5 | 7.9 | A-1 | 3030 | 3 | 1 | 3 | 2.375 | 31.0 | – | – | – | – | – | – | – | – |
| 6 C 80 TB | 8 | 8.4 | A-1 | 3030 | 3 | 1 | 3 | 2.375 | 35.0 | 8 C 80 TB | A-1 | 3030 | 3 | 2 | 3 | 3.375 | 45.0 |
| 6 C 85 TB | 8.5 | 8.9 | A-1 | 3030 | 3 | 1 | 3 | 2.375 | 40.0 | 8 C 85 TB | A-1 | 3030 | 3 | 2 | 3 | 3.375 | 47.0 |
| 6 C 90 TB | 9 | 9.4 | A-1 | 3030 | 3 | 1 | 3 | 2.375 | 47.0 | 8 C 90 TB | A-1 | 3535 | 3.5 | 1.5 | 3.5 | 3.375 | 64.0 |
| 6 C 95 TB | 9.5 | 9.9 | A-1 | 3030 | 3 | 1 | 3 | 2.375 | 53.0 | 8 C 95 TB | A-1 | 3535 | 3.5 | 1.5 | 3.5 | 3.375 | 67.0 |
| 6 C 100 TB | 10 | 10.4 | A-1 | 3030 | 3 | 1 | 3 | 2.375 | 57.0 | 8 C 100 TB | A-1 | 3535 | 3.5 | 1.5 | 3.5 | 3.375 | 70.0 |
| 6 C 105 TB | 10.5 | 10.9 | A-2 | 3030 | 3 | 1 | 3 | 2.375 | 58.0 | 8 C 105 TB | A-1 | 3535 | 3.5 | 1.5 | 3.5 | 3.375 | 84.0 |
| 6 C 110 TB | 11 | 11.4 | A-2 | 3030 | 3 | 1 | 3 | 2.375 | 66.0 | 8 C 110 TB | A-1 | 3535 | 3.5 | 1.5 | 3.5 | 3.375 | 87.0 |
| 6 C 120 TB | 12 | 12.4 | A-2 | 3030 | 3 | 1 | 3 | 2.375 | 70.0 | 8 C 120 TB | A-2 | 3535 | 3.5 | 1.5 | 3.5 | 3.375 | 90.0 |
| 6 C 130 TB | 13 | 13.4 | A-3 | 3030 | 3 | 1 | 3 | 2.375 | 75.0 | 8 C 130 TB | A-2 | 3535 | 3.5 | 1.5 | 3.5 | 3.375 | 97.0 |
| 6 C 140 TB | 14 | 14.4 | A-3 | 3535 | 3.5 | .5 | 3.5 | 2.375 | 80.0 | 8 C 140 TB | A-2 | 3535 | 3.5 | 1.5 | 3.5 | 3.375 | 105.0 |
| 6 C 160 TB | 16 | 16.4 | A-3 | 3535 | 3.5 | .5 | 3.5 | 2.375 | 87.0 | 8 C 160 TB | A-3 | 3535 | 3.5 | 1.5 | 3.5 | 3.375 | 115.0 |
| 6 C 180 TB | 18 | 18.4 | A-3 | 3535 | 3.5 | .5 | 3.5 | 2.375 | 102.0 | 8 C 180 TB | A-3 | 4040 | 4 | 1.5 | 4 | 2.875 | 137.0 |
| 6 C 200 TB | 20 | 20.4 | A-3 | 3535 | 3.5 | .5 | 3.5 | 2.375 | 126.0 | 8 C 200 TB | A-3 | 4040 | 4 | 1.5 | 4 | 2.875 | 180.0 |
| 6 C 240 TB | 24 | 24.4 | A-3 | 3535 | 3.5 | .5 | 3.5 | 2.375 | 150.0 | 8 C 240 TB | A-3 | 4040 | 4 | 1.5 | 4 | 2.875 | 205.0 |
| 6 C 300 TB | 30 | 30.4 | A-3 | 4040 | 4 | 1 | 4 | 1.375 | 226.0 | 8 C 300 TB | A-3 | 4040 | 4 | 1.5 | 4 | 2.875 | 263.0 |
| 6 C 360 TB | 36 | 36.4 | A-3 | 4040 | 4 | 1 | 4 | 1.375 | 270.0 | 8 C 360 TB | A-3 | 4545 | 4.5 | 1.25 | 4.5 | 2.625 | 343.0 |
| 6 C 440 TB | 44 | 44.4 | A-3 | 4040 | 4 | 1 | 4 | 1.375 | 320.0 | 8 C 440 TB | A-3 | 4545 | 4.5 | 1.25 | 4.5 | 2.625 | 432.0 |

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

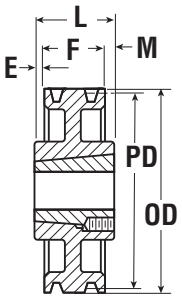
# C Conventional Stock Taper Bushed Sheaves




Type A

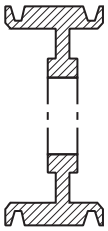



Type B

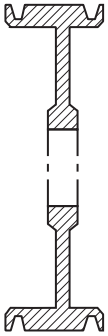



Type C

1=SOLID



2=WEB



3=ARM/SPOKE

## Taper Bushed Sheaves – C

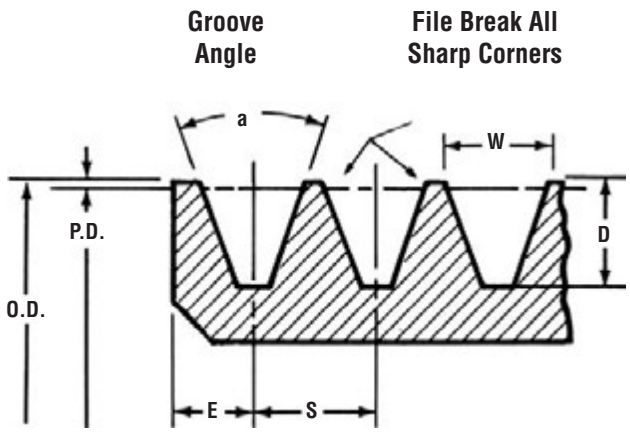
| 10 Grooves | | | | | | | | | | 12 Grooves | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 10 3/8 | | | | | | | | | | F = 12 3/8 | | | | | | | |
| Part Number | PD C Belt | OD | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush | Part Number | Type | Bush | Bush Max Bore | E | L Length Thru Bore | M | Wt. Less Bush |
| 10 C 90 TB | 9 | 9.4 | A-1 | 4545 | 4.5 | 1.5 | 4.5 | 4.375 | 57.0 | 12 C 90 TB | A-1 | 4040 | 4 | 3.5 | 4 | 4.875 | 65.0 |
| 10 C 95 TB | 9.5 | 9.9 | A-1 | 4545 | 4.5 | 1.5 | 4.5 | 4.375 | 66.0 | 12 C 95 TB | A-1 | 4040 | 4 | 3.5 | 4 | 4.875 | 75.0 |
| 10 C 100 TB | 10 | 10.4 | A-1 | 4545 | 4.5 | 1.5 | 4.5 | 4.375 | 77.0 | 12 C 100 TB | A-1 | 4040 | 4 | 3.5 | 4 | 4.875 | 85.0 |
| 10 C 105 TB | 10.5 | 10.9 | A-1 | 4545 | 4.5 | 1.5 | 4.5 | 4.375 | 87.0 | 12 C 105 TB | A-1 | 4040 | 4 | 3.5 | 4 | 4.875 | 95.0 |
| 10 C 110 TB | 11 | 11.4 | A-1 | 4545 | 4.5 | 1.5 | 4.5 | 4.375 | 98.0 | 12 C 110 TB | A-1 | 4040 | 4 | 3.5 | 4 | 4.875 | 104.0 |
| 10 C 120 TB | 12 | 12.4 | A-1 | 4545 | 4.5 | 1.5 | 4.5 | 4.375 | 121.0 | 12 C 120 TB | A-1 | 4040 | 4 | 3.5 | 4 | 4.875 | 126.0 |
| 10 C 130 TB | 13 | 13.4 | A-1 | 4545 | 4.5 | 2 | 4.5 | 3.875 | 146.0 | 12 C 130 TB | A-1 | 4545 | 4.5 | 3 | 4.5 | 4.875 | 156.0 |
| 10 C 140 TB | 14 | 14.4 | A-2 | 4545 | 4.5 | 2 | 4.5 | 3.875 | 170.1 | 12 C 140 TB | A-1 | 4545 | 4.5 | 3 | 4.5 | 4.875 | 184.0 |
| 10 C 160 TB | 16 | 16.4 | A-2 | 4545 | 4.5 | 2 | 4.5 | 3.875 | 173.4 | – | – | – | – | – | – | – | – |
| 10 C 180 TB | 18 | 18.4 | A-2 | 4545 | 4.5 | 2 | 4.5 | 3.875 | 180.1 | – | – | – | – | – | – | – | – |
| 10 C 200 TB | 20 | 20.4 | A-3 | 4545 | 4.5 | 2 | 4.5 | 3.875 | 201.0 | – | – | – | – | – | – | – | – |
| 10 C 240 TB | 24 | 24.4 | A-3 | 4545 | 4.5 | 2 | 4.5 | 3.875 | 243.0 | – | – | – | – | – | – | – | – |
| 10 C 300 TB | 30 | 30.4 | A-3 | 4545 | 4.5 | 2 | 4.5 | 3.875 | 320.0 | – | – | – | – | – | – | – | – |
| 10 C 360 TB | 36 | 36.4 | A-3 | 4545 | 4.5 | 2 | 4.5 | 3.875 | 464.0 | – | – | – | – | – | – | – | – |
| 10 C 440 TB | 44 | 44.4 | A-3 | 4545 | 4.5 | 2 | 4.5 | 3.875 | 508.0 | – | – | – | – | – | – | – | – |

Dimensions in inches, weight in pounds. Weights do not include bushings. See page B-8 thru B-10 for additional bushing dimensions.

# Hi-Cap Wedge Groove Dimensions and Tolerances

### Hi-Cap Wedge Sheaves Tolerances

| Outside Diameter | |
|---|---|
| Under 12'' | ± 5" |
| 12" thru 17.99" | + .010" |
| 18" thru 36" | ± .015" |
| Over 36" | ± .020" |
| Over 72" | ± .250" |
| **Outside Diameter Eccentricity** | |
| Under 9" | 8" |
| 9" thru 13.99" | .010" |
| 14" thru 36" | .012" |
| Over 36" | .020" |
| **Side Wobble And Runout** | |
| 20" P.D. & Under | not to exceed 1" per inch of P.D. |
| Over 20" P.D. | .010" plus 05" per inch of O.D. |




**Face Width of Stock and Standard Sheaves**

Face Width = S(N-1) + 2E
Where:
N = Number of Grooves

### Standard Sheaves

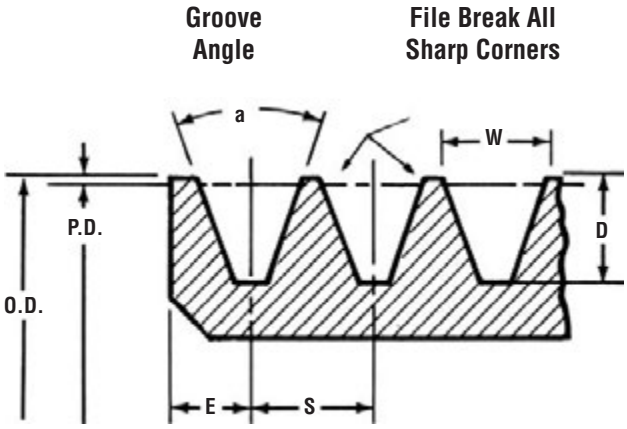
| Belt | Minimum Recommended Pitch Diameter | P.D. Range | a Groove Angle | Groove Dimensions | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | W | D | X | S | E |
| 3V | 2.65 | Under 3.5<br>3.5 - 6<br>6.01-12<br>Over 12 | 36°<br>38°<br>40°<br>42° | 0.35 | 0.35 | 0.025 | 0.407 | 0.344 |
| 5V | 7.1 | Under 10<br>16-Oct<br>Over16 | 38°<br>40°<br>42° | 0.6 | 0.6 | 0.05 | 0.688 | 0.5 |
| 8V | 12.5 | Under 16<br>16-22.4<br>Over 22.4 | 38°<br>40°<br>42° | 1 | 1 | 0.1 | 1.125 | 0.75 |

Dimensions in inches.

# Conventional Groove Dimensions and Tolerances

### Conventional Sheave Tolerances

| Outside Diameter | |
|---|---|
| Under 12" | ± .020" |
| 12" thru 23.99" | ± .040" |
| 24" thru 57.99" | ± .060" |
| 58" thru 71.99" | ± .120" |
| Over 72" | ± .250" |
| **Outside Diameter Eccentricity** | |
| Under 10" P.D. | .010" |
| 10.01" thru 60" P.D. | .010" plus 05" per inch of P.D. |
| Over 60" P.D. | Add 1" for each add'l inch of P.D. |
| **Side Wobble And Runout** | |
| 20" P.D. & Under | not to exceed 1" per inch of P.D. |
| 20" thru 60" P.D. | Add 05" for each add'l inch of P.D. up to 60" |
| Over 60" P.D. | Add 1" for each add'l inch of P.D. above 60" |




**Face Width of Stock and Standard Sheaves**

Face Width = S(N-1) + 2E
Where:
N = Number of Grooves

### Standard Sheaves

| Belt | Minimum Recommended Pitch Diameter | P.D. Range | a Groove Angle ± 0.25° | Groove Dimensions | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | W | | D ± .031 | X | S* ± .031 | E | |
| A | 3.0 | 2.6 - 5.4<br>Over 5.4 | 34°<br>38° | 0.494<br>0.504 | ± 5 | 0.49 | 0.125 | 0.625 | 0.375 | + 0.07<br>– 0 |
| B | 5.4 | 4.6 - 7.0<br>Over 7.0 | 34°<br>38° | 0.637<br>0.65 | ± 5 | 0.58 | 0.175 | 0.75 | 0.5 | + 0.15<br>– 0 |
| A - B | A 3.0<br>B 5.4 | 3.4 - 6.8<br>Over 6.8 | 34°<br>38° | 0.612<br>0.625 | ± 5 | 0.625 | 0.175 | 0.75 | 0.5 | + 0.15<br>– 0 |
| C | 9.0 | 7.0 - 7.99<br>8.0 - 12.0<br>Over 12.0 | 34°<br>36°<br>38° | 0.879<br>0.887<br>0.895 | ± 7 | 0.78 | 0.2 | 1 | 0.688 | + 0.15<br>– 0 |
| D | 13.0 | 12.0 - 12.99<br>13.0 - 17.0<br>Over 17.0 | 34°<br>36°<br>38° | 1.259<br>1.271<br>1.283 | ± 7 | 1.05 | 0.3 | 1.438 | 0.875 | + 0.25<br>– 0 |
| E | 21.0 | 18.0 - 24.0<br>Over 24.0 | 36°<br>38° | 1.527<br>1.542 | ± .010 | 1.3 | 0.4 | 1.75 | 1.123 | + 0.25<br>– 0 |

### Deep Groove Sheaves

| Belt | Minimum Recommended Pitch Diameter | P.D. Range | a Groove Angle ± 0.25° | Groove Dimensions | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | W | | D ± .031 | X | S* ± .031 | E | |
| A | 3.0 | 2.6 - 5.4<br>Over 5.4 | 34°<br>38° | 0.589<br>0.611 | ± 5 | 0.645 | 0.280 | 0.75 | 0.438 | + 0.07<br>– 0 |
| B | 5.4 | 4.6 - 7.0<br>Over 7.0 | 34°<br>38° | 0.747<br>0 .774 | ± 5 | 0.76 | 0.875 | 0.875 | 0.563 | + 0.15<br>– 0 |
| C | 9.0 | 7.0 - 7.99<br>8.0 - 12.0<br>Over 12.0 | 34°<br>36°<br>38° | 1.066<br>1.085<br>1.105 | ± 7 | 1.085 | 1.25 | 1.25 | 0.813 | + 0.15<br>– 0 |
| D | 13.0 | 12.0 - 12.99<br>13.0 - 17.0<br>Over 17.0 | 34°<br>36°<br>38° | 1.513<br>1.541<br>1.569 | ± 7 | 1.465 | 1.75 | 1.75 | 1.063 | + 0.25<br>– 0 |
| E | 21.0 | 18.0 - 24.0<br>Over 24.0 | 36°<br>38° | 1.816<br>1.849 | ± .010 | 1.745 | 2.845 | 2.063 | 1.313 | + 0.25<br>– 0 |

Dimensions in inches

*Summation of the deviations from "S" for all grooves in any one sheave shall not exceed ± .063. Available on request, deep groove sheaves are intended for quarter turn drives and for long center vertical shaft drives. They may also be necessary for such applications as car shakers, vibrating screens and certain types of crushers where oscillation in center distance may occur.

# Stock Drive Selection

To select the best V-Belt Drive for an application, utilizing stock sheaves, simply follow the step by step instructions below:

**BEFORE SELECTING A DRIVE, YOU NEED TO KNOW THESE FACTS:**

1. The horsepower requirement of the drive.
2. The RPM of the driver.
3. The RPM of the driven machine.
4. The approximate center distance for the drive.
5. Shaft size of both units.
6. Average hours of operation per day.

## Table 1 — Service Factors

**THE CORRECT SERVICE FACTOR IS DETERMINED BY:**

1. The extent and frequency of peak loads.
2. The number of operating hours per year, broken down into average hours per day of continuous service.
3. The proper service category, (intermittent, normal or continuous). Select the one that most closely approximates your application conditions.

**INTERMITTENT SERVICE — SERVICE FACTOR 1.0 TO 1.5**

a. Light Duty — Not more than 6 hours per day.
b. Never exceeding rated load.

**NORMAL SERVICE — SERVICE FACTOR 1.1 TO 1.6**

a. Daily service 6 to 16 hours per day.
b. Where occasional starting or peak load does not exceed 200% of the full load.

**CONTINUOUS SERVICE — SERVICE FACTOR 1.2 TO 1.8**

a. Continuous service 16 to 24 hours per day.
b. Where starting or peak load is in excess of 200% of the full load or where starting or peak loads and overloads occur frequently.

**TYPICAL SERVICE FACTORS**

| DRIVEN MACHINE TYPES | DRIVER TYPES | | | | | |
|---|---|---|---|---|---|---|
| Driven machine types noted below are representative samples only. Select a category most closely approximating your application from those listed below.<br>**IF IDLERS ARE USED, ADD THE FOLLOWING TO THE SERVICE FACTOR:**<br>Idler on slack side (inside) None<br>Idler on slack side (outside) 0.1<br>Idler on tight side (inside) 0.1<br>Idler on tight side (outside) 0.2 | **ELECTRIC MOTORS:**<br>AC Normal Torque, Squirrel Cage and Synchronous<br>AC Split Phase<br>DC Shunt Wound<br>**Internal Combustion Engines** | | | **ELECTRIC MOTORS:**<br>AC Hi-Torque<br>AC Hi-Slip<br>AC Repulsion-Induction<br>AC Single Phase, Series Wound<br>AC Slip Ring<br>DC Compound Wound | | |
| | **INTERMITTENT SERVICE** | **NORMAL SERVICE** | **CONTINUOUS SERVICE** | **INTERMITTENT SERVICE** | **NORMAL SERVICE** | **CONTINUOUS SERVICE** |
| Agitators for Liquids<br>Blowers and Exhausters<br>Centrifugal Pumps and Compressors<br>Fans up to 10 HP<br>Light Duty Conveyors | 1.0 | 1.1 | 1.2 | 1.1 | 1.2 | 1.3 |
| Belt Conveyors For Sand, Grain, etc.<br>Dough Mixers<br>Fans Over 10 HP<br>Generators<br>Line Shafts<br>Laundry Machinery<br>Machine Tools<br>Punches-Presses-Shears<br>Printing Machinery<br>Positive Displacement Rotary Pumps<br>Revolving and Vibrating Screens | 1.1 | 1.2 | 1.3 | 1.2 | 1.3 | 1.4 |
| Brick Machinery<br>Bucket Elevators<br>Exciters<br>Piston Compressors<br>Conveyors (Drag-Pan-Screw)<br>Hammer Mills<br>Paper Mill Beaters<br>Piston Pumps<br>Positive Displacement Blowers<br>Pulverizers<br>Saw Mill and Woodworking Machinery<br>Textile Machinery | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 |
| Crushers (Gyratory-Jaw-Roll)<br>Mills (Ball-Rod-Tube)<br>Hoists<br>Rubber Calenders-Extruders-Mills | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.8 |
| Chokable Equipment | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |

**FOR A GOOD COMMERCIAL DRIVE SELECTION, USE CONTINUOUS SERVICE FACTOR**

# Made-To-Order Sheaves

Martin has the capacity to produce a wide range of Made-To-Order Sheaves These sheaves meet the same quality standards as our stock line of QD and Taper Bushed Sheaves

Since Made-To-Order Sheaves can be manufactured to meet most customer requirements, the following pages give standard dimensions for Made-To-Order Sheaves Martin can alter these dimensions such as hub location, length through bore, to meet desired requirements These sheaves are normally Bored-To-Size and are furnished with standard keyway and two set screws as indicated However, most Made-To-Order Sheaves can be furnished in QD or Taper Bushed style hubs Also, Martin can furnish Made-To-Order Sheaves in a split construction Consult factory with specific requirements.

**Wire Rope Idler**

**Flat Belt Pulley**

**Duplex – Sheave and Flat Belt**

**Poly-V Sheave**

**Crown Face Pulley**

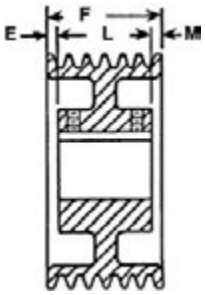
**Idler Sheave**

All Martin sheaves and timing pulleys can be manufactured to meet your special requirements: Aluminum, Brass, Ductile, Steel, Stainless Steel Martin, service and quality drive components you can depend on to get the job done

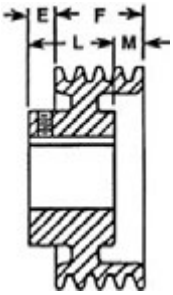
# Made-To-Order Sheaves

0.375 × 0.3125

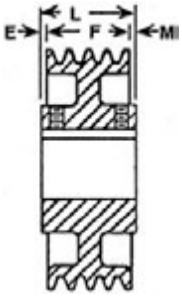
**MTO - 3V**




**Type A**




**Type D**




**Type C**

| O.D. Range ■ | 1 — Groove, F = ◆ | | | | 2 — Groove, F = ❍ | | | | 3 — Groove, F = 1.5 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 2.65 - 4.9 | D | 1.3125 | 0.625 | — | D | 1.625 | 0.625 | 0.0938 | D | 1.625 | 0.625 | 0.5 |
| 5.0 - 10.9 | D | 1.5 | 0.625 | 0.1875 | C | 1.75 | 0.625 | 0.0313 | D | 1.75 | 0.625 | 0.375 |
| 11.0 - 13.9 | C | 1.75 | 0.625 | 0.3125 | C | 2.25 | 0.625 | 0.5313 | C | 2.5 | 0.625 | 0.375 |
| 14.0 - 16.9 | C | 1.75 | 0.625 | 0.3125 | C | 2.25 | 0.625 | 0.5313 | C | 2.5 | 0.625 | 0.375 |
| 17.0 - 24.9 | C | 1.75 | 0.375 | 0.375 | C | 2.5 | 0.625 | 0.625 | C | 3 | 0.75 | 0.75 |
| 25.0 - 33.5 | C | 1.75 | 0.25 | 0.25 | C | 2.5 | 0.625 | 0.625 | C | 3.25 | 0.875 | 0.875 |
| 2.65 - 4.9 | D | 1.625 | 0.625 | 0.9063 | D | 2.25 | 0.625 | 0.6875 | D | 2.25 | 0.625 | 1.0938 |

| O.D. Range ■ | 4 — Groove, F = 1.9063 | | | | 5 — Groove, F = 20.3125 | | | | 6 — Groove, F = 2.7188 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 2.65 - 4.9 | D | 1.625 | 0.625 | 0.9063 | D | 2.25 | 0.625 | 0.6875 | D | 2.25 | 0.625 | 1.0938 |
| 5.0 - 6.9 | D | 1.75 | 0.625 | 0.7813 | D | 2.25 | 0.625 | 0.6875 | D | 2.25 | 0.625 | 1.0938 |
| 7.0 - 10.9 | D | 2.25 | 0.625 | 0.2813 | D | 2.25 | 0.625 | 0.6875 | D | 2.5 | 0.625 | 0.8438 |
| 11.0 - 20.9 | D | 2.5 | 0.625 | 0.0313 | C | 3 | 0.625 | 0.0625 | D | 3 | 0.625 | 0.3438 |
| 21.0 - 29.9 | C | 3 | 0.5469 | 0.5469 | C | 3.25 | 0.5 | 0.4375 | C | 3.5 | 0.3906 | 0.3906 |
| 30.0 - 33.5 | C | 3.5 | 0.7969 | 0.7969 | C | 3.5 | 0.5938 | 0.5938 | C | 4 | 0.6406 | 0.6406 |

| O.D. Range ■ | 8 — Groove, F = 3.5313 | | | | 10 — Groove, F = 4.3438 | | | | 12 — Groove, F = 5.1563 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 4.0 - 4.9 | D | 2.25 | 0.625 | 1.9063 | D | 2.5 | 0.625 | 2.4688 | D | 3.5 | 0.625 | 2.2813 |
| 5.0 - 6.9 | D | 2.5 | 0.625 | 1.6563 | D | 2.5 | 0.625 | 2.4688 | D | 3.5 | 0.625 | 2.2813 |
| 7.0 - 13.9 | D | 3 | 0.625 | 1.1563 | D | 3.25 | 0.625 | 1.7188 | D | 3.5 | 0.625 | 2.2813 |
| 14.0 - 16.9 | D | 3.5 | 0.625 | 0.6563 | D | 3.5 | 0.625 | 1.4688 | D | 3.5 | 0.625 | 2.2813 |
| 17.0 - 20.9 | C | 4 | 0.625 | 0.1563 | D | 4 | 0.625 | 0.9688 | D | 4 | 0.625 | 1.7813 |
| 21.0 - 33.5 | C | 4.5 | 0.4844 | 0.4844 | C | 4.5 | 0.0781 | 0.0781 | A | 4.5 | 0.3281 | 0.3281 |

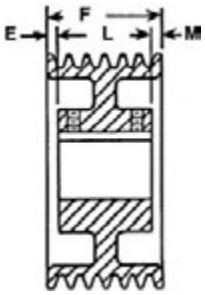
| O.D. Range ■ | 14 — Groove, F = 5.9688 | | | | 16 — Groove, F = 6.7188 | | | | 18 — Groove, F = 7.5938 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 4.0 - 8.9 | D | 3 | 0.625 | 3.0938 | D | 4 | 0.625 | 3.4063 | D | 4 | 0.625 | 4.2188 |
| 9.0 - 16.9 | D | 3 | 0.625 | 3.0938 | D | 4 | 0.625 | 3.4063 | D | 4 | 0.625 | 4.2188 |
| 17.0 - 20.9 | D | 4 | 0.625 | 2.5938 | D | 40.5 | 0.625 | 2.9063 | D | 4.5 | 0.625 | 2.7188 |
| 21.0 - 24.9 | A | 4 | 0.9844 | 0.9844 | A | 4.5 | 1.1406 | 1.1406 | A | 4.5 | 1.5469 | 1.5469 |
| 25.0 - 29.9 | A | 4 | 0.9844 | 0.9844 | A | 4.5 | 1.1406 | 1.1406 | A | 4.5 | 1.5469 | 1.5469 |
| 30.0 - 33.5 | A | 5 | 0.4844 | 0.4844 | A | 5 | 0.8906 | 0.8906 | A | 5 | 1.2969 | 1.2969 |
| 2.65 - 4.9 | D | 1.625 | 0.625 | 0.9063 | D | 2.25 | 0.625 | 0.6875 | D | 2.25 | 0.625 | 1.0938 |

■ P.D. = O.D.–.05"
◆ 0.6875" for 2.65-10.9 O.D., 0.8125" for 11.0-16.9 O.D., 1" for 17.0-24.9 O.D., 1.25" for 25.0-33.5 O.D.
❍ 1.0938" for 2.65-16.9 O.D., 1.25" for 17.0-33.5 O.D.

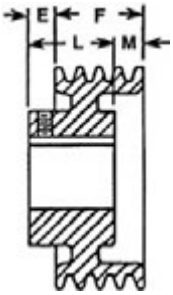
# Made-To-Order Sheaves

0.625 × 0.5313

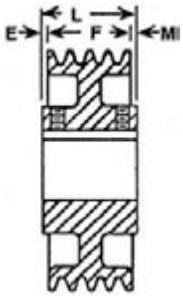
**MTO - 5V**




**Type A**




**Type D**




**Type C**

| O.D. Range ■ | 2 — Groove, F = 1.6875 | | | | 3 — Groove, F = 2.375 | | | | 4 — Groove, F = 3.0625 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 7.0 - 10.9 | D | 2.25 | 0.875 | 0.3125 | D | 2.5 | 0.875 | 0.75 | D | 3 | 0.875 | 0.9375 |
| 11.0 - 23.9 | D | 2.25 | 0.875 | 0.3125 | D | 3.25 | 0.875 | — | D | 3.5 | 0.875 | 0.4375 |
| 24.0 - 29.9 | C | 2.5 | 0.4063 | 0.4063 | C | 3.5 | 0.5625 | 0.5625 | C | 4 | 0.4688 | 0.4688 |
| 30.0 - 44.9 | C | 3.5 | 0.9063 | 0.9063 | C | 4.5 | 1.0625 | 1.0625 | C | 5.25 | 1.0938 | 1.0938 |
| 45.0 - 75.0 | C | 5 | 1.6563 | 1.6563 | C | 5.25 | 1.4375 | 1.4375 | C | 6 | 1.4688 | 1.4688 |

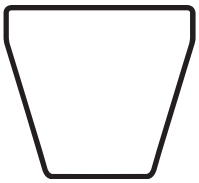
| O.D. Range ■ | 5 — Groove, F = 3.75 | | | | 6 — Groove, F = 4.4375 | | | | 8 — Groove, F = 5.8125 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 7.0 - 11.9 | D | 3.25 | 0.875 | 1.375 | D | 3.5 | 0.875 | 1.8125 | D | 4 | 0.875 | 2.6875 |
| 12.0 - 23.9 | D | 4 | 0.875 | 0.625 | D | 4 | 0.875 | 1.3125 | D | 4.5 | 0.875 | 2.1875 |
| 24.0 - 44.9 | C | 4.5 | 0.375 | 0.375 | C | 5.25 | 0.4063 | 0.4063 | A | 5.5 | 0.1563 | 0.1563 |
| 45.0 - 52.9 | C | 5.25 | 0.75 | 0.75 | C | 6 | 0.7813 | 0.7813 | C | 6 | 0.0938 | 0.0938 |
| 53.0 - 75.9 | C | 6.25 | 1.375 | 1.375 | C | 6.5 | 1.0313 | 1.0313 | C | 6.5 | 0.3438 | 0.3438 |

| O.D. Range ■ | 10 — Groove, F = 7.1875 | | | | 12 — Groove, F = 8.5625 | | | | 14 — Groove, F = 9.9375 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 9.0 - 23.9 | D | 4.25 | 0.875 | 3.4063 | D | 5 | 0.875 | 4.9375 | D | 6 | 0.875 | 4.8125 |
| 24.0 - 36.9 | A | 4.5 | 1.3438 | 1.3438 | A | 5.5 | 1.5313 | 1.5313 | A | 6.5 | 1.7188 | 1.7188 |
| 37.0 - 44.9 | A | 5.5 | 0.8438 | 0.8438 | A | 6 | 1.2813 | 1.2813 | A | 7 | 1.4688 | 1.4688 |
| 45.0 - 52.9 | A | 6 | 0.5938 | 0.5938 | A | 6 | 1.2813 | 1.2813 | A | 7.5 | 1.2188 | 1.2188 |
| 53.0 - 75.9 | A | 7 | 0.0938 | 0.0938 | A | 7 | 0.7813 | 0.7813 | A | 8 | 0.9688 | 0.9688 |

| O.D. Range ■ | 16 — Groove, F = 11.3125 | | | | 18 — Groove, F = 12.6875 | | | | 20 — Groove, F = 14.0625 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 9.0 - 23.9 | D | 6.5 | 0.875 | 5.6875 | D | 7 | 0.875 | 6.5625 | D | 8 | 0.875 | 6.9375 |
| 24.0 - 36.9 | A | 7 | 2.1563 | 1.3438 | A | 8 | 2.3438 | 2.3438 | A | 8.5 | 2.7813 | 2.7813 |
| 37.0 - 44.9 | A | 7.5 | 1.9063 | 1.9063 | A | 8.5 | 2.0938 | 2.0938 | A | 9 | 2.5313 | 2.5313 |
| 45.0 - 52.9 | A | 8 | 1.6563 | 1.6563 | A | 9 | 1.8438 | 1.8438 | A | 9.5 | 2.2813 | 2.2813 |
| 53.0 - 62.9 | A | 8.5 | 1.4063 | 1.4063 | A | 9.5 | 1.5938 | 1.5938 | A | 10 | 2.0313 | 2.0313 |
| 63.0 - 75.0 | A | 9 | 1.1563 | 1.1563 | A | 10.5 | 1.0938 | 1.0938 | A | 12 | 1.0313 | 1.0313 |

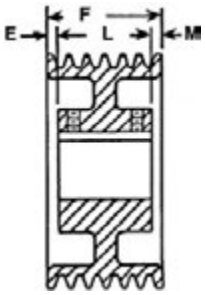
■ P.D. = O.D.–.10"

# Made-To-Order Sheaves

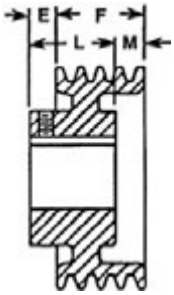


1 × 0.9063

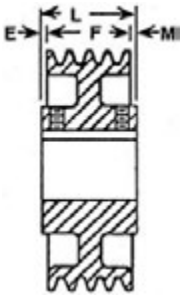
**MTO - 8V**




**Type A**




**Type D**




**Type C**

| O.D. Range ■ | 4 — Groove, F = 4.875 | | | | 5 — Groove, F = 6 | | | | 7 — Groove, F = 7.125 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 13.0 - 26.9 | D | 5 | 1.125 | 1 | D | 5.5 | 1.125 | 1.625 | D | 6 | 1.125 | 2.25 |
| 27.0 - 39.9 | D | 5.5 | 0.3125 | 0.3125 | C | 6 | — | — | A | 7 | 0.0625 | 0.0625 |
| 40.0 - 57.9 | C | 6 | 0.5625 | 0.5625 | C | 7 | 0.5 | 0.5 | C | 7.5 | 0.1875 | 0.1875 |
| 58.0 - 69.9 | C | 7 | 1.0625 | 1.0625 | C | 8 | — | — | C | 8 | 0.4375 | 0.4375 |
| 70.0 - 81.9 | C | 8 | 1.5625 | 1.5625 | C | 8.25 | 1.25 | 1.25 | C | 9 | 0.9375 | 0.9375 |
| 82.0 - 85.0 | C | 8.5 | 1.1875 | 1.1875 | C | 9 | 1.5 | 1.5 | C | 10 | 1.4375 | 1.4375 |

| O.D. Range ■ | 8 — Groove, F = 9.375 | | | | 10 — Groove, F = 11.625 | | | | 12 — Groove, F = 13.875 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 13.0 - 29.9 | D | 6.5 | 1.125 | 4 | D | 7 | 1.125 | 5.75 | D | 8 | 1.125 | 7 |
| 30.0 - 39.9 | A | 7.5 | 0.9375 | 0.9375 | A | 8 | 1.8125 | 1.8125 | A | 8.5 | 2.6875 | 2.6875 |
| 40.0 - 57.9 | A | 8 | 0.6875 | 0.6875 | A | 9 | 1.3125 | 1.3125 | A | 9.5 | 2.1875 | 2.1875 |
| 58.0 - 69.9 | A | 9 | 0.1875 | 0.1875 | A | 9.5 | 1.0625 | 1.0625 | A | 10 | 1.9375 | 1.9375 |
| 70.0 - 81.9 | C | 9.5 | 0.0625 | 0.0625 | A | 10 | 0.8125 | 0.8125 | A | 11 | 1.4375 | 1.4375 |
| 82.0 - 85.0 | C | 10 | 0.3125 | 0.3125 | A | 11 | 0.3125 | 0.3125 | A | 12 | 0.9375 | 0.9375 |

| O.D. Range ■ | 14 — Groove, F = 16.125 | | | | 16 — Groove, F = 18.375 | | | | 18 — Groove, F = 20.625 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 13.0 - 29.9 | D | 9.25 | 1.125 | 7.75 | D | 10.5 | 1.125 | 9 | D | 16.5 | 1.125 | 5.25 |
| 30.0 - 39.9 | A | 9 | 3.5625 | 3.5625 | A | 10 | 4.1875 | 4.1875 | A | 12 | 4.3125 | 4.3125 |
| 40.0 - 57.9 | A | 10 | 3.5625 | 3.0625 | A | 10.5 | 3.9375 | 3.9375 | A | 12.5 | 4.0625 | 4.0625 |
| 58.0 - 69.9 | A | 11 | 2.5625 | 2.5625 | A | 11 | 3.6875 | 3.6875 | A | 13 | 3.8125 | 3.8125 |
| 70.0 - 81.9 | A | 12 | 2.0625 | 2.0625 | A | 12 | 3.1875 | 3.1875 | A | 14 | 3.3125 | 3.3125 |
| 82.0 - 85.0 | A | 13 | 1.5625 | 1.5625 | A | 13 | 2.6875 | 2.6875 | A | 15 | 2.8125 | 2.8125 |

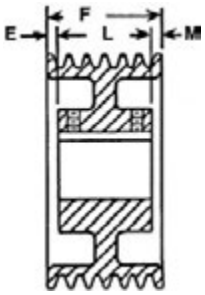
| O.D. Range ■ | 20 — Groove, F = 22.875 | | | | 22 — Groove, F = 25.125 | | | | 24 — Groove, F = 27.375 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 13.0 - 29.9 | D | 18 | 1.125 | 6 | D | 19 | 1.125 | 7.25 | D | 22 | 1.125 | 6.5 |
| 30.0 - 39.9 | A | 13.5 | 4.6875 | 4.6875 | A | 20.5 | 2.8125 | 2.8125 | A | 22 | 2.6875 | 2.6875 |
| 40.0 - 57.9 | A | 14 | 4.4375 | 4.4375 | A | 15 | 5.0625 | 5.0625 | A | 23 | 2.1875 | 2.1875 |
| 58.0 - 69.9 | A | 14.5 | 4.1875 | 4.1875 | A | 16 | 4.5625 | 4.5625 | A | 17 | 5.1875 | 5.1875 |
| 70.0 - 81.9 | A | 15 | 3.9375 | 3.9375 | A | 16.5 | 4.3125 | 4.3125 | A | 17.5 | 4.9375 | 4.9375 |
| 82.0 - 85.0 | A | 16 | 3.4375 | 3.4375 | A | 17 | 4.0625 | 4.0625 | A | 18 | 4.6875 | 4.6875 |

■ P.D. = O.D.–.20"

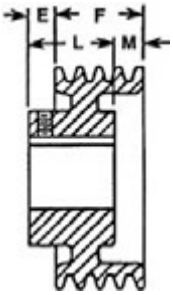
# Made-To-Order Sheaves

0.5 × 0.3125

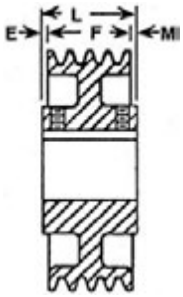
**MTO - A**




**Type A**




**Type D**




**Type C**

| O.D. Range ■ | 1 — Groove, F = ◆ | | | | 2 — Groove, F = 1.375 | | | | 3 — Groove, F = 2 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 3.0 - 6.9 | D | 1.375 | 0.625 | — | D | 1.375 | 0.625 | 0.625 | D | 1.5 | 0.625 | 1.25 |
| 7.0 - 11.9 | D | 1.375 | 0.625 | 0.125 | D | 2 | 0.625 | — | D | 2 | 0.625 | 0.625 |
| 12.0 - 20.9 | C | 2 | 0.625 | 0.375 | D | 2 | 0.625 | — | D | 2 | 0.625 | 0.625 |
| 21.0 - 25.0 | C | 2 | 0.5 | 0.5 | C | 2 | 0.3125 | 0.3125 | C | 2.5 | 0.25 | 0.25 |

| O.D. Range ■ | 4 — Groove, F = 2.625 | | | | 5 — Groove, F = 3.25 | | | | 6 — Groove, F = 3.875 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 3.0 - 6.9 | D | 2 | 0.625 | 1.25 | D | 2.5 | 0.625 | 1.375 | D | 2.75 | 0.625 | 1.75 |
| 7.0 - 14.9 | A | 2 | 0.625 | 1.25 | D | 2.5 | 0.625 | 1.375 | D | 2.75 | 0.625 | 1.75 |
| 15.0 - 20.9 | A | 2.5 | 0.625 | 0.75 | D | 3 | 0.625 | 0.875 | D | 3.5 | 0.625 | 1 |
| 21.0 - 25.0 | A | 2.5 | 0.0625 | 0.0625 | A | 3 | 0.125 | 0.125 | A | 3.5 | 0.1875 | 0.1875 |

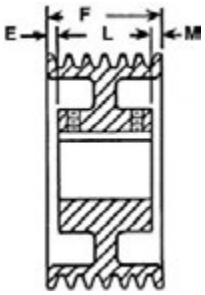
| O.D. Range ■ | 7 — Groove, F = 4.5 | | | | 8 — Groove, F = 5.125 | | | | 10 — Groove, F = 6.375 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 3.0 - 6.9 | D | 3 | 0.625 | 2.125 | D | 3.5 | 0.625 | 2.25 | D | 3.5 | 0.625 | 3.5 |
| 7.0 - 14.9 | D | 3 | 0.625 | 2.125 | D | 3.5 | 0.625 | 2.25 | D | 3.5 | 0.625 | 3.5 |
| 15.0 - 20.9 | D | 3.5 | 0.625 | 1.625 | D | 4 | 0.625 | 1.75 | D | 4 | 0.625 | 3 |
| 21.0 - 25.0 | A | 3.5 | 0.5 | 0.5 | A | 4 | 0.5625 | 0.5625 | A | 4 | 1.1875 | 1.1875 |

■ P.D. = O.D.–.25"
◆ 0.75" for 3.0-6.9 P.D., 0.875" for 7.0-11.9 P.D., 1" for 12.0-25.0 P.D.

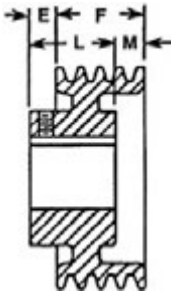
# Made-To-Order Sheaves

0.6563 × 0.4063

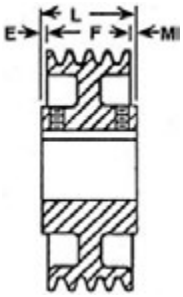
**MTO - B**




**Type A**




**Type D**




**Type C**

| O.D. Range ■ | 2 — Groove, F = 1.75 | | | | 3 — Groove, F = 2.5 | | | | 4 — Groove, F = 3.25 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 5.0 - 6.9 | D | 2.25 | 0.875 | 0.375 | D | 2.5 | 0.875 | 0.875 | D | 3 | 0.875 | 1.125 |
| 7.0 - 20.9 | D | 2.25 | 0.875 | 0.375 | D | 2.5 | 0.875 | 0.875 | D | 3 | 0.875 | 1.125 |
| 21.0 - 39.0 | C | 3 | 0.625 | 0.625 | C | 3 | 0.25 | 0.25 | C | 3.5 | 0.125 | 0.125 |

| O.D. Range ■ | 5 — Groove, F = 4 | | | | 6 — Groove, F = 4.75 | | | | 7 — Groove, F = 5.5 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 5.0 - 8.9 | D | 3 | 0.875 | 1.875 | D | 3 | 0.875 | 2.625 | D | 3 | 0.875 | 3.375 |
| 9.0 - 20.9 | D | 3 | 0.875 | 1.875 | D | 3.5 | 0.875 | 2.125 | D | 3.5 | 0.875 | 2.875 |
| 21.0 - 29.9 | A | 3.5 | 0.25 | 0.25 | A | 3.5 | 0.625 | 0.625 | A | 4 | 0.75 | 0.75 |
| 30.0 - 38.0 | A | 4 | — | — | A | 4 | 0.375 | 0.375 | A | 4.5 | 0.5 | 0.5 |

| O.D. Range ■ | 8 — Groove, F = 6.25 | | | | 9 — Groove, F = 7 | | | | 10 — Groove, F = 7.75 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 5.0 - 8.9 | D | 3.5 | 0.875 | 3.625 | D | 3.5 | 0.875 | 4.375 | D | 4 | 0.875 | 4.625 |
| 9.0 - 20.9 | D | 4 | 0.875 | 3.125 | D | 4 | 0.875 | 3.875 | D | 4.5 | 0.875 | 4.125 |
| 21.0 - 24.9 | A | 4.5 | 0.875 | 0.875 | A | 5 | 1 | 1 | A | 5.5 | 1.125 | 1.125 |
| 25.0 - 38.0 | A | 5 | 0.625 | 0.625 | A | 5.5 | 0.75 | 0.75 | A | 6 | 0.875 | 0.875 |

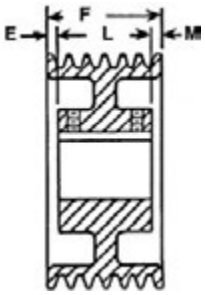
| O.D. Range ■ | 12 — Groove, F = 9.25 | | | | 13 — Groove, F = 10 | | | | 14 — Groove, F = 10.75 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 5.0 - 8.9 | D | 5.5 | 0.875 | 4.625 | D | 6 | 0.875 | 4.875 | D | 6.5 | 0.875 | 5.125 |
| 9.0 - 20.9 | D | 5.5 | 0.875 | 4.625 | D | 6 | 0.875 | 4.875 | D | 6.5 | 0.875 | 5.125 |
| 21.0 - 24.9 | A | 5.5 | 1.875 | 1.875 | A | 6 | 2 | 2 | A | 6.5 | 2.125 | 2.125 |
| 25.0 - 29.9 | A | 6 | 1.625 | 1.625 | A | 6.5 | 1.75 | 1.75 | A | 7 | 1.875 | 1.875 |
| 30.0 - 38.0 | A | 6.5 | 1.375 | 1.375 | A | 7 | 1.5 | 1.5 | A | 7.5 | 1.625 | 1.625 |

■ P.D. = O.D.–.35"

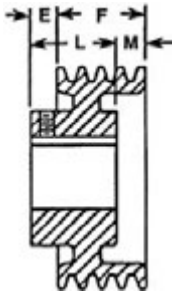
# Made-To-Order Sheaves

0.875 × 0.5313

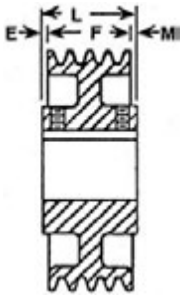
**MTO - C**




**Type A**




**Type D**




**Type C**

| O.D. Range ■ | 3 — Groove, F = 3.375 | | | | 4 — Groove, F = 4.375 | | | | 5 — Groove, F = 5.375 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 9.0 - 15.9 | D | 2.5 | 0.875 | 1.75 | D | 3 | 0.875 | 2.25 | D | 3.5 | 0.875 | 2.75 |
| 16.0 - 23.9 | D | 3 | 0.875 | 1.25 | D | 3.5 | 0.875 | 1.75 | D | 4 | 0.875 | 2.25 |
| 24.0 - 35.9 | A | 3.5 | 0.0625 | 0.0625 | A | 3.5 | 0.4375 | 0.4375 | A | 4 | 0.6875 | 0.6875 |
| 36.0 - 43.9 | A | 4 | 0.3125 | 0.3125 | C | 4.5 | 0.0625 | 0.0625 | A | 5 | 0.1875 | 0.1875 |
| 44.0 - 55.9 | A | 4.5 | 0.5625 | 0.5625 | C | 5 | 0.3125 | 0.3125 | C | 5.5 | 0.0625 | 0.0625 |
| 56.0 - 64.0 | A | 5 | 0.8125 | 0.8125 | C | 5.5 | 0.5625 | 0.5625 | C | 6 | 0.3125 | 0.3125 |

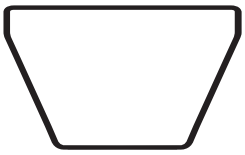
| O.D. Range ■ | 6 — Groove, F = 6.375 | | | | 7 — Groove, F = 7.375 | | | | 8 — Groove, F = 8.375 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L | E | M | Type | L | E | M | Type | L | E | M |
| 9.0 - 15.9 | D | 3.5 | 0.875 | 3.75 | D | 4 | 0.875 | 4.25 | D | 5 | 0.875 | 5.25 |
| 16.0 - 23.9 | D | 4 | 0.875 | 3.25 | D | 4.5 | 0.875 | 3.75 | D | 5.5 | 0.875 | 4.75 |
| 24.0 - 35.9 | A | 4.5 | 0.9375 | 0.9375 | A | 5 | 1.1875 | 1.1875 | A | 5.5 | 1.4375 | 1.4375 |
| 36.0 - 43.9 | A | 5 | 0.6875 | 0.6875 | A | 5.5 | 0.9375 | 0.9375 | A | 6.5 | 1.1875 | 1.1875 |
| 44.0 - 55.9 | A | 5.5 | 0.4375 | 0.4375 | A | 6 | 0.6875 | 0.6875 | A | 7 | 0.9375 | 0.9375 |
| 56.0 - 64.0 | A | 6 | 0.1875 | 0.1875 | A | 6.5 | 0.4375 | 0.4375 | A | 7.5 | 0.6875 | 0.6875 |

| O.D. Range ■ | 9 — Groove, F = 9.375 | | | | 10 — Groove, F = 10.375 | | | | 11 — Groove, F = 11.375 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 9.0 - 15.9 | D | 5 | 0.875 | 5.25 | D | 6 | 0.875 | 5.25 | D | 7 | 0.875 | 5.25 |
| 16.0 - 23.9 | D | 5.5 | 0.875 | 4.75 | D | 6.5 | 0.875 | 4.75 | D | 7.5 | 0.875 | 4.75 |
| 24.0 - 35.9 | A | 6 | 1.6875 | 1.6875 | A | 7 | 1.6875 | 1.6875 | A | 8 | 1.6875 | 1.6875 |
| 36.0 - 43.9 | A | 6.5 | 1.4375 | 1.4375 | A | 7.5 | 1.4375 | 1.4375 | A | 8.5 | 1.4375 | 1.4375 |
| 44.0 - 55.9 | A | 7 | 1.1875 | 1.1875 | A | 8 | 1.1875 | 1.1875 | A | 9 | 1.1875 | 1.1875 |
| 56.0 - 64.0 | A | 7.5 | 0.9375 | 0.9375 | A | 8.5 | 0.9375 | 0.9375 | A | 9.5 | 0.9375 | 0.9375 |

| O.D. Range ■ | 12 — Groove, F = 12.375 | | | | 13 — Groove, F = 13.375 | | | | 14 — Groove, F = 14.375 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 9.0 - 15.9 | D | 7 | 0.875 | 6.25 | D | 8 | 0.875 | 6.25 | D | 8 | 0.875 | 7.25 |
| 16.0 - 23.9 | D | 7.5 | 0.875 | 5.75 | D | 8 | 0.875 | 6.25 | D | 8 | 0.875 | 7.25 |
| 24.0 - 35.9 | A | 8 | 2.1875 | 2.1875 | A | 8.5 | 2.4375 | 2.4375 | A | 8.5 | 2.9375 | 2.9375 |
| 36.0 - 43.9 | A | 8.5 | 1.9375 | 1.9375 | A | 9 | 2.1875 | 2.1875 | A | 9 | 2.6875 | 2.6875 |
| 44.0 - 55.9 | A | 9 | 1.6875 | 1.6875 | A | 9.5 | 1.9375 | 1.9375 | A | 9.5 | 2.4375 | 2.4375 |
| 56.0 - 64.0 | A | 9.5 | 1.4375 | 1.4375 | A | 10 | 1.6875 | 1.6875 | A | 10 | 2.1875 | 2.1875 |

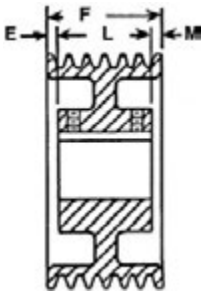
■ P.D. = O.D.–.40"

# Made-To-Order Sheaves

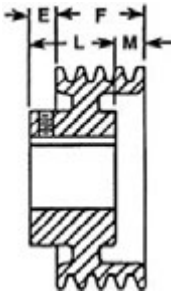


1.25 × 0.75

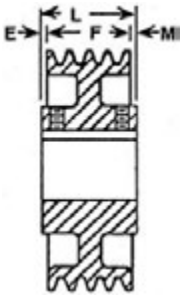
**MTO - D**




**Type A**




**Type D**




**Type C**

| O.D. Range ■ | 3 — Groove, F = 4.625 | | | | 4 — Groove, F = 6.0625 | | | | 5 — Groove, F = 7.5 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 13.0 - 26.9 | D | 4 | 1 | 1.625 | D | 4 | 1 | 3.0625 | D | 4.5 | 1 | 4 |
| 27.0 - 39.9 | A | 4 | 0.3125 | 0.3125 | A | 4.5 | 0.7813 | 0.7813 | D | 5.5 | 1 | 1 |
| 40.0 - 57.9 | C | 5 | 0.1875 | 0.1875 | A | 5.5 | 0.2813 | 0.2813 | A | 6.5 | 0.5 | 0.5 |
| 58.0 - 69.9 | C | 5.5 | 0.4375 | 0.4375 | A | 6 | 0.0313 | 0.0313 | A | 7 | 0.25 | 0.25 |
| 70.0 - 81.9 | C | 6 | 0.6875 | 0.6875 | C | 6.5 | 0.2188 | 0.2188 | A | 7.5 | — | — |
| 82.0 - 85.0 | C | 6.5 | 0.9375 | 0.9375 | C | 7 | 0.4688 | 0.4688 | C | 8 | 0.25 | 0.25 |

| O.D. Range ■ | 6 — Groove, F = 8.9375 | | | | 7 — Groove, F = 10.375 | | | | 8 — Groove, F = 11.8125 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L | E | M | Type | L | E | M | Type | L | E | M |
| 13.0 - 26.9 | D | 5 | 1 | 4.9375 | D | 5.5 | 1 | 5.875 | D | 6 | 1 | 6.8125 |
| 27.0 - 39.9 | A | 6 | 1.4688 | 1.4688 | A | 7 | 1.6875 | 1.6875 | A | 7.5 | 2.1563 | 2.1563 |
| 40.0 - 57.9 | C | 7 | 0.9688 | 0.9688 | A | 8 | 1.1875 | 1.1875 | A | 8.5 | 1.6563 | 1.6563 |
| 58.0 - 69.9 | C | 7.5 | 0.7188 | 0.7188 | A | 80.5 | 0.9375 | 0.9375 | A | 9 | 1.4063 | 1.4063 |
| 70.0 - 81.9 | C | 8 | 0.4688 | 0.4688 | A | 9 | 0.6875 | 0.6875 | A | 9.5 | 1.1563 | 1.1563 |
| 82.0 - 85.0 | C | 8.5 | 0.2188 | 0.2188 | A | 90.5 | 0.4375 | 0.4375 | A | 10 | 0.9063 | 0.9063 |

| O.D. Range ■ | 9 — Groove, F = 13.25 | | | | 10 — Groove, F = 14.6875 | | | | 11 — Groove, F = 16.125 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 13.0 - 17.9 | D | 7 | 1 | 7.25 | D | 8 | 1 | 7.6875 | D | 13 | 1 | 4.125 |
| 18.0 - 26.9 | D | 7 | 1 | 7.25 | D | 8 | 1 | 7.6875 | D | 9 | 1 | 8.125 |
| 27.0 - 39.9 | A | 8 | 2.625 | 2.625 | A | 9 | 2.8438 | 2.8438 | A | 9.5 | 3.3125 | 3.3125 |
| 40.0 - 57.9 | A | 9 | 2.125 | 2.125 | A | 10 | 2.3438 | 2.3438 | A | 10.5 | 2.8125 | 2.8125 |
| 58.0 - 69.9 | A | 10 | 1.625 | 1.625 | A | 10.5 | 2.0938 | 2.0938 | A | 11.5 | 2.3125 | 2.3125 |
| 70.0 - 85.0 | A | 10.5 | 1.375 | 1.375 | A | 11.5 | 1.5938 | 1.5938 | A | 12 | 2.0625 | 2.0625 |

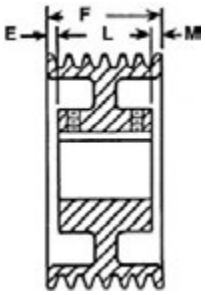
| O.D. Range ■ | 12 — Groove, F = 17.5625 | | | | 13 — Groove, F = 19 | | | | 14 — Groove, F = 20.4375 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 13.0 - 17.9 | D | 14 | 1 | 4.5625 | D | 15.5 | 1 | 4.5 | D | 16.5 | 1 | 4.9375 |
| 18.0 - 26.9 | D | 10 | 1 | 8.5625 | A | 10.5 | 1 | 9.5 | D | 16.5 | 1 | 4.9375 |
| 27.0 - 39.9 | A | 10.5 | 3.5313 | 3.5313 | A | 11 | 4 | 4 | A | 12 | 4.2188 | 4.2188 |
| 40.0 - 57.9 | A | 11.5 | 3.0313 | 3.0313 | A | 12.5 | 3.25 | 3.25 | A | 13 | 3.7188 | 3.7188 |
| 58.0 - 69.9 | A | 12 | 2.7813 | 2.7813 | A | 13 | 3 | 3 | A | 13.5 | 3.4688 | 3.4688 |
| 70.0 - 85.0 | A | 13 | 2.2813 | 2.2813 | A | 13.5 | 2.75 | 2.75 | A | 14.5 | 2.9688 | 2.9688 |

■ P.D. = O.D.–.60"

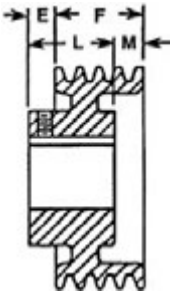
# Made-To-Order Sheaves

1.5 × 0.7188

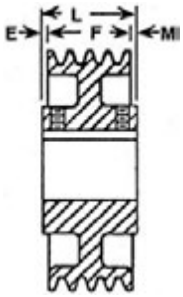
**MTO - E**




**Type A**




**Type D**




**Type C**

| O.D. Range ■ | 4 — Groove, F = 7.5 | | | | 6 — Groove, F = 11 | | | | 8 — Groove, F = 14.5 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Type | L | E | M | Type | L | E | M | Type | L | E | M |
| 21.0 - 26.9 | D | 5 | 1.125 | 3.625 | D | 7 | 1.125 | 5.125 | D | 9 | 1.125 | 6.625 |
| 27.0 - 45.9 | A | 6 | 0.75 | 0.75 | A | 7.5 | 1.75 | 1.75 | A | 9.5 | 2.5 | 2.5 |
| 46.0 - 57.9 | A | 6.5 | 0.5 | 0.5 | A | 8 | 1.5 | 1.5 | A | 10 | 2.25 | 2.25 |
| 58.0 - 73.9 | A | 7.5 | 0 | 0 | A | 8.5 | 1.5 | 1.5 | A | 10.5 | 2 | 2 |
| 74.0 - 83.9 | A | 7.5 | 0 | 0 | A | 9 | 1 | 1 | A | 11 | 1.75 | 1.75 |
| 84.0 - 85.0 | C | 8 | 0.25 | 0.25 | A | 9.5 | 0.75 | 0.75 | A | 11.5 | 1.5 | 1.5 |

| O.D. Range ■ | 10 — Groove, F = 18 | | | | 12 — Groove, F = 21.5 | | | | 14 — Groove, F = 25 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L | E | M | Type | L | E | M | Type | L | E | M |
| 21.0 - 26.9 | D | 11 | 1.125 | 8.125 | D | 17 | 1.125 | 5.625 | D | 19 | 1.125 | 7.125 |
| 27.0 - 45.9 | A | 11 | 3.5 | 3.5 | A | 13 | 4.25 | 4.25 | A | 20.5 | 2.25 | 2.25 |
| 46.0 - 57.9 | A | 11.5 | 3.25 | 3.25 | A | 13.5 | 4 | 4 | A | 15 | 5 | 5 |
| 58.0 - 73.9 | A | 12 | 3 | 3 | A | 14 | 3.75 | 3.75 | A | 15.5 | 4.75 | 4.75 |
| 74.0 - 83.9 | A | 12.5 | 2.75 | 2.75 | A | 14.5 | 3.5 | 3.5 | A | 16.5 | 4.25 | 4.25 |
| 84.0 - 85.0 | A | 13 | 2.5 | 2.5 | A | 15 | 3.25 | 3.25 | A | 16.5 | 4.25 | 4.25 |

■ P.D. = O.D.–.80"

# Stock FHP Sheaves

**AK / BK**
**Bored-To-Size**

**AK / BK**
**MST® (Martin Split Taper) Bushed**

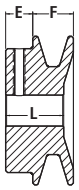
**2AK / 2BK**
**Bored-To-Size**

**2AK / 2BK**
**MST® (Martin Split Taper) Bushed**

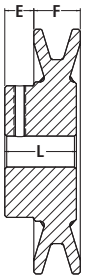
- Fractional horsepower sheaves for light duty applications.
- Single and double groove designs.
- Both bored-to-size and MST bushed.
- Precision machined grooves.
- Statically balanced.

**Call Martin for your made-to-order and large quantity requirements.**

# AK Single Groove FHP Sheaves Bored-To-Size




Type A
Solid




Type B
Web

Type C
Arm/Spoke

## FHP Sheave — AK

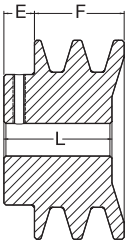
| Part Number | Diameter | | | Type | Stock Finished Bores Includes Keyway and Setscrew | | | | | | | | | | | F | E | L Thru Bore | Weight lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OD | Datum A(4L) Belts | Pitch 3L Belts | | | | | | | | | | | | | | | | |
| AK15 | 1.55 | 1.3 | – | A | 0.5 | 0.625 | | | | | | | | | | 0.6563 | 0.4375 | 0.4063 | 0.3 |
| AK17 | 1.75 | 1.5 | 1.16 | A | 0.5 | 0.625 | | | | | | | | | | 0.6563 | 0.4375 | 0.0625 | 0.3 |
| AK19 | 1.95 | 1.7 | 1.36 | A | 0.5 | 0.625 | 0.75 | 0.875 | | | | | | | | 0.6563 | 0.4375 | 0.0625 | 0.5 |
| AK20 | 2 | 1.8 | 1.46 | A | 0.5 | 0.625 | 0.75 | | | | | | | | | 0.6563 | 0.4375 | 0.0625 | 0.5 |
| AK21 | 2.1 | 1.90 | 1.56 | A | 0.5 | 0.625 | 0.75 | | | | | | | | | 0.6563 | 0.4375 | 0.0625 | 0.5 |
| AK22 | 2.2 | 2 | 1.66 | A | 0.5 | 0.625 | 0.75 | 0.875 | | | | | | | | 0.6563 | 0.4375 | 0.0625 | 0.6 |
| AK23 | 2.3 | 2.1 | 1.76 | A | 0.5 | 0.625 | 0.75 | | | | | | | | | 0.6563 | 0.4375 | 0.0625 | 0.6 |
| AK24 | 2.4 | 2.2 | 1.86 | A | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | | | | | | 0.6563 | 0.4375 | 0.0625 | 0.6 |
| AK25 | 2.5 | 2.3 | 1.96 | B | 0.5 | 0.625 | 0.75 | 0.875 | | | | | | | | 0.6563 | 0.4375 | 0.0625 | 0.7 |
| AK26 | 2.6 | 2.4 | 2.06 | B | 0.5 | 0.625 | 0.75 | | | | | | | | | 0.6563 | 0.4375 | 0.0625 | 0.7 |
| AK27 | 2.7 | 2.5 | 2.16 | B | 0.5 | 0.625 | 0.75 | | | 1 | | | | | | 0.6563 | 0.4375 | 0.0625 | 0.8 |
| AK28 | 2.8 | 2.6 | 2.26 | B | 0.5 | 0.625 | 0.75 | 0.875 | | | | | | | | 0.6563 | 0.4375 | 0.0625 | 0.8 |
| AK30 | 3.05 | 2.8 | 2.46 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | | | | | | 0.6563 | 0.4375 | 0.0625 | 0.9 |
| AK32 | 3.25 | 3 | 2.66 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | | | | | | 0.6563 | 0.4375 | 0.0625 | 1.0 |
| AK34 | 3.45 | 3.2 | 2.86 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | | | | | | 0.6563 | 0.4375 | 0.0625 | 1.1 |
| AK35 | 3.55 | 3.3 | 2.96 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | | | | | | 0.6563 | 0.4375 | 0.0625 | 1.2 |
| AK39 | 3.75 | 3.5 | 3.16 | B | 0.5 | 0.625 | 0.75 | 0.875 | 0.0625 | 1 | | | | | | 0.75 | 0.4687 | 1.1563 | 1.6 |
| AK41 | 3.95 | 3.7 | 3.36 | B | 0.5 | 0.625 | 0.75 | 0.875 | 0.0625 | 1 | 1.125 | | | | | 0.75 | 0.4687 | 1.1563 | 1.6 |
| AK44 | 4.25 | 4 | 3.66 | B | 0.5 | 0.625 | 0.75 | 0.875 | 0.0625 | 1 | 1.125 | | | | | 0.75 | 0.4687 | 1.1563 | 1.9 |
| AK46 | 4.45 | 4.2 | 3.86 | B | 0.5 | 0.625 | 0.75 | 0.875 | 0.0625 | 1 | 1.125 | | | | | 0.75 | 0.4687 | 1.1563 | 2.0 |
| AK49 | 4.75 | 4.5 | 4.16 | B | 0.5 | 0.625 | 0.75 | 0.875 | 0.0625 | 1 | 1.125 | | | | | 0.75 | 0.4687 | 1.1563 | 2.1 |
| AK51 | 4.95 | 4.7 | 4.36 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | | 0.75 | 0.4687 | 1.1563 | 2.2 |
| AK54 | 5.25 | 5 | 4.66 | B | 0.5 | 0.625 | 0.75 | 0.875 | 0.0625 | 1 | 1.125 | 1.1875 | | | | 0.75 | 0.4687 | 1.1563 | 2.4 |
| AK56 | 5.45 | 5.2 | 4.86 | B | 0.5 | 0.625 | 0.75 | 0.875 | 0.0625 | 1 | 1.125 | 1.1875 | | | | 0.75 | 0.4687 | 1.1563 | 2.5 |
| AK59 | 5.75 | 5.5 | 5.16 | C | 0.5 | 0.625 | 0.75 | 0.875 | 0.0625 | 1 | 1.125 | 1.1875 | | | | 0.75 | 0.4687 | 1.1563 | 2.7 |
| AK61 | 5.95 | 5.7 | 5.36 | C | 0.5 | 0.625 | 0.75 | 0.875 | 0.0625 | 1 | 1.125 | 1.1875 | | | | 0.75 | 0.4687 | 1.1563 | 2.8 |
| AK64 | 6.25 | 6 | 5.66 | C | 0.5 | 0.625 | 0.75 | 0.875 | 0.0625 | 1 | 1.125 | 1.1875 | | | | 0.75 | 0.4687 | 1.1563 | 3.0 |
| AK66 | 6.45 | 6.2 | 5.86 | C | | 0.625 | 0.75 | | | 1 | 1.125 | | | | | 0.75 | 0.4687 | 1.1563 | 3.0 |
| AK69 | 6.75 | 6.5 | 6.16 | C | | | 0.75 | | | 1 | 1.125 | | | | | 0.75 | 0.7188 | 1.4687 | 3.7 |
| AK71 | 6.95 | 6.7 | 6.36 | C | 0.5 | 0.625 | 0.75 | | | 1 | 1.125 | | | | 1.4375 | 0.75 | 0.7188 | 1.4687 | 4.3 |
| AK74 | 7.25 | 7 | 6.66 | C | 0.5 | 0.625 | 0.75 | | 0.0625 | 1 | 1.125 | 1.1875 | 1.25 | | 1.4375 | 0.75 | 0.7188* | 1.4687 | 4.5 |
| AK79 | 7.75 | 7.5 | 7.16 | C | | | 0.75 | | | 1 | 1.125 | | | | 1.4375 | 0.75 | 0.7188 | 1.4687 | 4.7 |
| AK81 | 7.95 | 7.7 | 7.36 | C | | 0.625 | 0.75 | | | 1 | | 1.1875 | | | | 0.75 | 0.7188 | 1.4687 | 4.7 |
| AK84 | 8.25 | 8 | 7.66 | C | 0.5 | 0.625 | 0.75 | | 0.0625 | 1 | | 1.1875 | | | 1.4375 | 0.75 | 0.7188* | 1.4687 | 5.0 |
| AK89 | 8.75 | 8.5 | 8.16 | C | | | 0.75 | | | 1 | 1.125 | | | | 1.4375 | 0.75 | 0.7188 | 1.4687 | 5.2 |
| AK91 | 8.95 | 8.7 | 8.36 | C | | | 0.75 | | | 1 | | | | | | 0.75 | 0.7188 | 1.4687 | 5.2 |
| AK94 | 9.25 | 9 | 8.66 | C | 0.5 | 0.625 | 0.75 | | 0.0625 | 1 | | 1.1875 | 1.25 | | 1.4375 | 0.75 | 0.7188* | 1.4687 | 5.5 |
| AK99 | 9.75 | 9.5 | 9.16 | C | | | 0.75 | | | 1 | | | | | 1.4375 | 0.75 | 0.7188* | 1.4687 | 5.7 |
| AK104 | 10.25 | 10 | 9.66 | C | | 0.625 | 0.75 | | | 1 | | 1.1875 | 1.25 | 1.375 | 1.4375 | 0.75 | 0.7188 | 1.4687 | 5.9 |
| AK109 | 10.75 | 10.5 | 10.16 | C | | | 0.75 | | | 1 | | | | 1.375 | 1.4375 | 0.75 | 0.7188 | 1.4687 | 6.1 |
| AK114 | 11.25 | 11 | 10.66 | C | | | 0.75 | | | 1 | | 1.1875 | | | 1.4375 | 0.75 | 0.7188* | 1.4687 | 6.7 |
| AK124 | 12.25 | 12 | 11.66 | C | | 0.625 | 0.75 | | | 1 | | 1.1875 | 1.25 | | 1.4375 | 0.75 | 0.7188* | 1.4687 | 7.3 |
| AK134 | 13.25 | 13 | 12.66 | C | | | 0.75 | | | 1 | | 1.1875 | | 1.375 | 1.4375 | 0.75 | 0.7188 | 1.4687 | 8.2 |
| AK144 | 14.25 | 14 | 13.66 | C | | | 0.75 | | | 1 | | 1.1875 | | | 1.4375 | 0.75 | 0.7188 | 1.4687 | 8.7 |
| AK154 | 15.25 | 15 | 14.66 | C | | | 0.75 | | | 1 | | | | | 1.4375 | 0.75 | 0.7188 | 1.4687 | 9.7 |
| AK184 | 18.25 | 18 | 17.66 | C | | | 0.75 | | | 1 | | 1.1875 | | | 1.4375 | 0.75 | 0.7188 | 1.4687 | 11.8 |

E = 0.7813 FOR BORE SIZES <= 1
0.5" Bore - setscrew only - no keyway

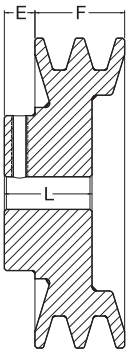
# Two Groove FHP Sheaves Bored-To-Size 2AK

### Keyway Dimensions Inch Bore

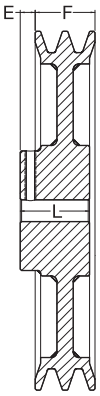
| Diameter of Shaft | Keyway Width × Depth |
|---|---|
| 0.5 | NONE |
| 0.625 - 0.875 | 0.1875 × 0.0938 |
| 0.9375 - 1.25 | 0.25 × 0.125 |
| 1.3125 - 1.375 | 0.3125 × 0.1563 |
| 1.4375 - 1.75 | 0.375 × 0.1875 |




**Type A**
**Solid**




**Type B**
**Web**



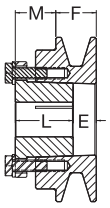

**Type C**
**Arm/Spoke**

## FHP Sheave — 2AK

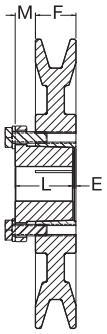
| Part Number | Diameter | | | Type | Stock Finished Bores Includes Keyway and Setscrew | | | | | | | | | | F | E | L Thru Bore | Weight lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OD | Datum A(4L) Belts | Pitch 3L Belts | | | | | | | | | | | | | | | |
| 2AK20 | 2 | 1.8 | 1.46 | A | 0.5 | 0.625 | 0.75 | | | | | | | | 1.375 | 0.4688 | 1.6563 | 0.8 |
| 2AK21 | 2.15 | 1.9 | 1.56 | A | 0.5 | 0.625 | 0.75 | | | | | | | | 1.375 | 0.4688 | 1.6563 | 0.9 |
| 2AK22 | 2.25 | 2 | 1.66 | A | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | | | | | 1.375 | 0.4688 | 1.6563 | 1.1 |
| 2AK23 | 2.35 | 2.1 | 1.76 | A | | 0.625 | 0.75 | 0.875 | | 1 | | | | | 1.375 | 0.4688 | 1.6563 | 1.2 |
| 2AK25 | 2.55 | 2.3 | 1.96 | A | | 0.625 | 0.75 | 0.875 | | 1 | | | | | 1.375 | 0.4688 | 1.6563 | 1.4 |
| 2AK26 | 2.65 | 2.4 | 2.06 | A | | 0.625 | 0.75 | 0.875 | | | | | | | 1.375 | 0.4688 | 1.6563 | 1.5 |
| 2AK27 | 2.75 | 2.5 | 2.16 | A | | 0.625 | 0.75 | 0.875 | | 1 | | | | | 1.375 | 0.4688 | 1.6563 | 1.6 |
| 2AK28 | 2.85 | 2.6 | 2.26 | A | | 0.625 | 0.75 | 0.875 | | 1 | | | | | 1.375 | 0.4688 | 1.6563 | 1.7 |
| 2AK30 | 3.05 | 2.8 | 2.46 | A | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | 1.375 | 0.4688 | 1.6563 | 2.0 |
| 2AK32 | 3.25 | 3 | 2.66 | A | | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | 1.375 | 0.4688 | 1.6563 | 2.2 |
| 2AK34 | 3.45 | 3.2 | 2.86 | A | | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | 1.375 | 0.4688 | 1.6563 | 2.5 |
| 2AK39 | 3.75 | 3.5 | 3.16 | B | | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | 1.375 | 0.4688 | 1.3438 | 2.6 |
| 2AK41 | 3.95 | 3.7 | 3.36 | B | | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | 1.375 | 0.4688 | 1.3438 | 2.9 |
| 2AK44 | 4.25 | 4 | 3.66 | B | | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | 1.375 | 0.4688 | 1.3438 | 3.3 |
| 2AK46 | 4.45 | 4.2 | 3.86 | B | | 0.625 | | 0.875 | | 1 | 1.125 | | | | 1.375 | 0.4688 | 1.3438 | 3.6 |
| 2AK49 | 4.75 | 4.5 | 4.16 | B | | | 0.75 | 0.875 | | 1 | 1.125 | | 1.375 | | 1.375 | 0.4688 | 1.3438 | 3.8 |
| 2AK51 | 4.95 | 4.7 | 4.36 | B | | | 0.75 | 0.875 | | 1 | 1.125 | | 1.375 | | 1.375 | 0.4688 | 1.3438 | 4.1 |
| 2AK54 | 5.25 | 5 | 4.66 | B | | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | 1.375 | | 1.375 | 0.4688 | 1.3438 | 4.3 |
| 2AK56 | 5.45 | 5.2 | 4.86 | B | | 0.625 | 0.75 | | | 1 | 1.125 | | 1.375 | | 1.375 | 0.4688 | 1.3438 | 4.5 |
| 2AK59 | 5.75 | 5.5 | 5.16 | B | | | | | | 1 | 1.125 | | 1.375 | | 1.375 | 0.4688 | 1.3438 | 4.9 |
| 2AK61 | 5.95 | 5.7 | 5.36 | B | | | 0.75 | 0.875 | | 1 | 1.125 | | 1.375 | | 1.375 | 0.4688 | 1.3438 | 5.2 |
| 2AK64 | 6.25 | 6 | 5.66 | C | | | 0.75 | | | 1 | 1.125 | 1.1875 | 1.375 | 1.4375 | 1.375 | 0.3438 | 1.5938 | 5.6 |
| 2AK74 | 7.25 | 7 | 6.66 | C | | | 0.75 | | | 1 | 1.125 | 1.1875 | 1.375 | 1.4375 | 1.375 | 0.3438 | 1.5938 | 6.5 |
| 2AK84 | 8.25 | 8 | 7.66 | C | | | 0.75 | | 0.9375 | 1 | 1.125 | | 1.375 | 1.4375 | 1.375 | 0.3438 | 1.5938 | 7.2 |
| 2AK94 | 9.25 | 9 | 8.66 | C | | | 0.75 | 0.875 | | 1 | 1.125 | 1.1875 | 1.375 | 1.4375 | 1.375 | 0.3438 | 1.5938 | 8.0 |
| 2AK104 | 10.25 | 10 | 9.66 | C | | | 0.75 | | 0.9375 | 1 | | 1.1875 | | 1.4375 | 1.375 | 0.3438 | 1.5938 | 9.0 |
| 2AK114 | 11.25 | 11 | 10.66 | C | | | | | | 1 | | 1.1875 | 1.375 | 1.4375 | 1.375 | 0.3438 | 1.5938 | 9.7 |
| 2AK124 | 12.25 | 12 | 11.66 | C | | | | | | 1 | | 1.1875 | | 1.4375 | 1.375 | 0.3438 | 1.5938 | 10.5 |
| 2AK134 | 13.25 | 13 | 12.66 | C | | | | | | | | 1.1875 | | 1.4375 | 1.375 | 0.3438 | 1.5938 | 12.7 |
| 2AK144 | 14.25 | 14 | 13.66 | C | | | | | | 1 | | | | 1.4375 | 1.375 | 0.3438 | 1.5938 | 13.1 |
| 2AK154 | 15.25 | 15 | 14.66 | C | | | | | | | | 1.1875 | | 1.4375 | 1.375 | 0.3438 | 1.5938 | 14.3 |
| 2AK184 | 18.25 | 18 | 17.66 | C | | | | | | | | 1.1875 | | 1.4375 | 1.375 | 0.3438 | 1.5938 | 17.1 |

0.5" Bore - setscrew only - no keyway

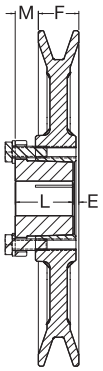
# AK-H Single Groove FHP Sheaves MST® Bushed




**Type A**
**Solid**




**Type B**
**Web**



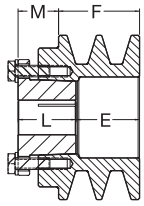

**Type C**
**Arm/Spoke**

## FHP Sheave — AK-H

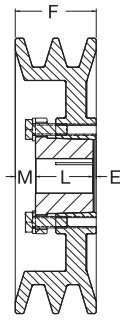
| Part Number | Diameter | | | Type | Bush | Bush Max. Bore | F | E | L Thru Bore | M | Weight Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | OD | Datum A(4L) Belts | Pitch 3L Belts | | | | | | | | |
| AK30-H | 3.05 | 2.8 | 2.46 | A | H | 1.5 | 0.75 | 0.375 | 1.25 | 0.875 | 1.3 |
| AK32-H | 3.25 | 3 | 2.66 | A | H | 1.5 | 0.75 | 0.375 | 1.25 | 0.875 | 1.4 |
| AK34-H | 3.45 | 3.2 | 2.86 | A | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 1.2 |
| AK39-H | 3.75 | 3.5 | 3.16 | A | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 1.4 |
| AK41-H | 3.95 | 3.7 | 3.36 | A | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 1.6 |
| AK44-H | 4.25 | 4 | 3.66 | A | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 2.0 |
| AK46-H | 4.45 | 4.2 | 3.86 | A | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 2.2 |
| AK49-H | 4.75 | 4.5 | 4.16 | B | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 2.1 |
| AK51-H | 4.95 | 4.7 | 4.36 | B | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 2.3 |
| AK54-H | 5.25 | 5 | 4.66 | B | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 2.3 |
| AK56-H | 5.45 | 5.2 | 4.86 | B | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 2.4 |
| AK59-H | 5.75 | 5.5 | 5.16 | B | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 2.5 |
| AK61-H | 5.95 | 5.7 | 5.36 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 2.6 |
| AK64-H | 6.25 | 6 | 5.66 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 2.8 |
| AK66-H | 6.45 | 6.2 | 5.86 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 2.8 |
| AK69-H | 6.75 | 6.5 | 6.16 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 3.0 |
| AK71-H | 6.95 | 6.7 | 6.36 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 3.0 |
| AK74-H | 7.25 | 7 | 6.66 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 3.3 |
| AK79-H | 7.75 | 7.5 | 7.16 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 3.5 |
| AK84-H | 8.25 | 8 | 7.66 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 3.8 |
| AK89-H | 8.75 | 8.5 | 8.16 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 4.0 |
| AK94-H | 9.25 | 9 | 8.66 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 4.4 |
| AK99-H | 9.75 | 9.5 | 9.16 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 4.7 |
| AK104-H | 10.25 | 10 | 9.66 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 5.0 |
| AK109-H | 10.75 | 10.5 | 10.16 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 5.2 |
| AK114-H | 11.25 | 11 | 10.66 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 5.5 |
| AK124-H | 12.25 | 12 | 11.66 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 6.0 |
| AK134-H | 13.25 | 13 | 12.66 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 7.3 |
| AK144-H | 14.25 | 14 | 13.66 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 7.9 |
| AK154-H | 15.25 | 15 | 14.66 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 8.9 |
| AK184-H | 18.25 | 18 | 17.66 | C | H | 1.5 | 0.75 | 0.0625 | 1.25 | 0.5625 | 11.4 |

Dimensions in inches, weight in pounds. Weights do not include bushings. See page D-58 for additional bushing information.

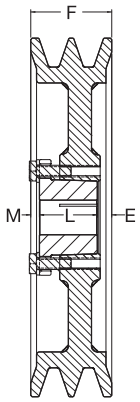
# Two Groove FHP Sheaves MST® Bushed 2AK-H




**Type A**
**Solid**




**Type B**
**Web**




**Type C**
**Arm/Spoke**

## FHP Sheave — 2AK-H

| Part Number | Diameter | | | Type | Bush | Bush Max. Bore | F | E | L Thru Bore | M | Weight Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | OD | Datum A(4L) Belts | Pitch 3L Belts | | | | | | | | |
| 2AK30-H | 3.05 | 2.8 | 2.46 | A | H | 1.5 | 1.375 | 1 | 1.25 | 0.875 | 1.7 |
| 2AK32-H | 3.25 | 3 | 2.66 | A | H | 1.5 | 1.375 | 1 | 1.25 | 0.875 | 1.9 |
| 2AK34-H | 3.45 | 3.2 | 2.86 | A | H | 1.5 | 1.375 | 0.5625 | 1.25 | 0.4375 | 1.7 |
| 2AK39-H | 3.75 | 3.5 | 3.16 | A | H | 1.5 | 1.375 | 0.5625 | 1.25 | 0.4375 | 2.0 |
| 2AK41-H | 3.95 | 3.7 | 3.36 | B | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 2.2 |
| 2AK44-H | 4.25 | 4 | 3.66 | B | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 2.7 |
| 2AK46-H | 4.45 | 4.2 | 3.86 | B | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 3.0 |
| 2AK49-H | 4.75 | 4.5 | 4.16 | B | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 3.1 |
| 2AK51-H | 4.95 | 4.7 | 4.36 | B | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 3.5 |
| 2AK54-H | 5.25 | 5 | 4.66 | B | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 3.4 |
| 2AK56-H | 5.45 | 5.2 | 4.86 | B | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 3.6 |
| 2AK59-H | 5.75 | 5.5 | 5.16 | C | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 3.4 |
| 2AK61-H | 5.95 | 5.7 | 5.36 | C | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 3.7 |
| 2AK64-H | 6.25 | 6 | 5.66 | C | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 3.9 |
| 2AK74-H | 7.25 | 7 | 6.66 | C | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 5.0 |
| 2AK84-H | 8.25 | 8 | 7.66 | C | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 5.6 |
| 2AK94-H | 9.25 | 9 | 8.66 | C | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 6.3 |
| 2AK104-H | 10.25 | 10 | 9.66 | C | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 7.6 |
| 2AK114-H | 11.25 | 11 | 10.66 | C | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 8.4 |
| 2AK124-H | 12.25 | 12 | 11.66 | C | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 9.2 |
| 2AK134-H | 13.25 | 13 | 12.66 | C | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 11.5 |
| 2AK144-H | 14.25 | 14 | 13.66 | C | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 11.8 |
| 2AK154-H | 15.25 | 15 | 14.66 | C | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 13.3 |
| 2AK184-H | 18.25 | 18 | 17.66 | C | H | 1.5 | 1.375 | 0.0625 | 1.25 | 0.0625 | 16.9 |

Dimensions in inches, weight in pounds. Weights do not include bushings. See page D-58 for additional bushing information.

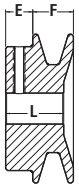
### MST "H" Bushings – Inch Bore

| Diameter of Shaft | Keyway Width × Depth | Diameter of Shaft | Keyway Width × Depth | Diameter of Shaft | Keyway Width × Depth |
|---|---|---|---|---|---|
| 0.375 | NONE | 0.7813 | 0.1875 × 0.0938 | 1.25 | 0.25 × 0.125 |
| 0.4375 | NONE | 0.8125 | 0.1875 × 0.0938 | 1.3125 | 0.3125 × 0.0625 |
| 0.5 | 0.125 × 0.0625 | 0.875 | 0.1875 × 0.0938 | 1.375 | 0.3125 × 0.0625 |
| 0.5625 | 0.125 × 0.0625 | 0.9375 | 0.25 × 0.125 | 1.375 | 0.375 × 0.0625 |
| 0.5938 | 0.125 × 0.0625 | 0.9688 | 0.25 × 0.125 | 1.4375 | 0.375 × 0.0625 |
| 0.625 | 0.1875 × 0.0938 | 1 | 0.25 × 0.125 | 1.5 | 0.375 × 0.03125 |
| 0.6563 | 0.1875 × 0.0938 | 1.0625 | 0.25 × 0.125 | | |
| 0.6875 | 0.1875 × 0.0938 | 1.125 | 0.25 × 0.125 | | |
| 0.75 | 0.1875 × 0.0938 | 1.1875 | 0.25 × 0.125 | | |

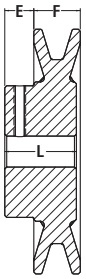
### MST "H" Bushings – Millimeter Bore

| Diameter of Shaft | Keyway Width × Depth | Diameter of Shaft | Keyway Width × Depth |
|---|---|---|---|
| 10 | NONE | 24 | 8 × 3.3 |
| 11 | NONE | 25 | 8 × 3.3 |
| 12 | NONE | 28 | 8 × 3.3 |
| 14 | 5 × 2.3 | 30 | 8 × 3.3 |
| 16 | 5 × 2.3 | 32 | 10 × 1.3 |
| 18 | 6 × 2.8 | 35 | 10 × 0.3 |
| 19 | 6 × 2.8 | 36 | 10 × 1.3 |
| 20 | 6 × 2.8 | 38 | 10 × 0.3 |
| 22 | 6 × 2.8 | | |

# BK Single Groove FHP Sheaves Bored-To-Size




Type A
Solid




Type B
Web

Type C
Arm/Spoke

## FHP Sheave — BK

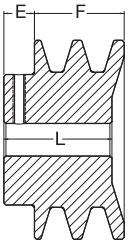
| Part Number | Diameter | | | Type | Stock Finished Bores Includes Keyway and Setscrew | | | | | | | | | | | F | E | L Thru Bore | Weight lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OD | Datum A(4L) Belts | Pitch 3L Belts | | | | | | | | | | | | | | | | |
| BK23 | 2.3 | - | 2.1 | A | | 0.625 | | | | 1 | | | | | | 0.8125 | 0.4063 | 1.0625 | 0.4 |
| BK24 | 2.4 | 1.8 | 2.2 | A | 0.5 | 0.625 | 0.75 | 0.875 | | | | | | | | 0.8125 | 0.4063 | 1.0625 | 0.4 |
| BK25 | 2.5 | 1.9 | 2.3 | A | 0.5 | 0.625 | 0.75 | 0.875 | | | | | | | | 0.8125 | 0.4063 | 1.0625 | 0.5 |
| BK26 | 2.6 | 2 | 2.4 | A | 0.5 | 0.625 | 0.75 | 0.875 | | | | | | | | 0.8125 | 0.4063 | 1.0625 | 0.6 |
| BK27 | 2.7 | 2.1 | 2.5 | B | 0.5 | 0.625 | 0.75 | 0.875 | | | 1.125 | | | | | 0.8125 | 0.4063 | 1.0625 | 0.6 |
| BK28 | 2.95 | 2.2 | 2.6 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | | 0.8125 | 0.4063 | 1.0625 | 0.8 |
| BK30 | 3.15 | 2.4 | 2.8 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | | 0.8125 | 0.4063 | 1.0625 | 0.8 |
| BK32 | 3.35 | 2.6 | 3 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | | | | | | 0.8125 | 0.4063 | 1.0625 | 0.8 |
| BK34 | 3.55 | 2.8 | 3.2 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | | 0.875 | 0.4063 | 1.1563 | 1.3 |
| BK36 | 3.75 | 3 | 3.4 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | | 0.875 | 0.4063 | 1.1563 | 1.5 |
| BK40 | 3.95 | 3.2 | 3.6 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | | 0.875 | 0.4063 | 1.1563 | 1.5 |
| BK45 | 4.25 | 3.5 | 3.9 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | | 0.875 | 0.4063 | 1.1563 | 1.8 |
| BK46 | 4.35 | 3.6 | 4 | B | | | | 0.875 | | | | | | | | 0.875 | 0.4063 | 1.1563 | 1.8 |
| BK47 | 4.45 | 3.7 | 4.1 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | | 0.875 | 0.4063 | 1.1563 | 1.8 |
| BK48 | 4.55 | 3.8 | 4.2 | B | 0.5 | 0.625 | 0.75 | 0.875 | | | 1.125 | | | | | 0.875 | 0.4063 | 1.1563 | 2.0 |
| BK50 | 4.75 | 4 | 4.4 | B | 0.5 | 0.625 | 0.75 | 0.875 | 0.9375 | 1 | 1.125 | | | | | 0.875 | 0.4063 | 1.1563 | 2.0 |
| BK52 | 4.95 | 4.2 | 4.6 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | | 0.875 | 0.4063 | 1.1563 | 2.0 |
| BK55 | 5.25 | 4.5 | 4.9 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | 1.1875 | | | | 0.875 | 0.4063 | 1.1563 | 2.2 |
| BK57 | 5.45 | 4.7 | 5.1 | B | | 0.625 | 0.75 | 0.875 | 0.9375 | 1 | 1.125 | | | | | 0.875 | 0.4063 | 1.1563 | 2.3 |
| BK60 | 5.75 | 5 | 5.4 | B | 0.5 | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | 1.1875 | | | | 0.875 | 0.4063 | 1.1563 | 2.3 |
| BK62 | 5.95 | 5.2 | 5.6 | B | 0.5 | 0.625 | 0.75 | 0.875 | 0.9375 | 1 | 1.125 | 1.1875 | | | | 0.875 | 0.4063 | 1.1563 | 2.4 |
| BK65 | 6.25 | 5.5 | 5.9 | B | | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | | 0.875 | 0.4063 | 1.1563 | 2.7 |
| BK67 | 6.45 | 5.7 | 6.1 | C | | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | | | | | 0.875 | 0.4063 | 1.1563 | 2.8 |
| BK70 | 6.75 | 6 | 6.4 | C | | 0.625 | 0.75 | 0.875 | 0.9375 | 1 | 1.125 | 1.1875 | | | 1.4375 | 0.875 | 0.6563* | 1.4688 | 3.3 |
| BK72 | 6.95 | 6.2 | 6.6 | C | | | 0.75 | | | 1 | 1.125 | | | 1.375 | 1.4375 | 0.875 | 0.6563 | 1.4688 | 3.9 |
| BK75 | 7.25 | 6.5 | 6.9 | C | | | 0.75 | | | 1 | 1.125 | | | | 1.4375 | 0.875 | 0.6563 | 1.4688 | 3.9 |
| BK77 | 7.45 | 6.7 | 7.1 | C | | | 0.75 | | | 1 | 1.125 | | | 1.375 | 1.4375 | 0.875 | 0.6563 | 1.4688 | 4.1 |
| BK80 | 7.75 | 7 | 7.4 | C | | 0.625 | 0.75 | 0.875 | | 1 | 1.125 | 1.1875 | 1.25 | 1.375 | 1.4375 | 0.875 | 0.6563 | 1.4688 | 4.4 |
| BK85 | 8.25 | 7.5 | 7.9 | C | | | 0.75 | | | 1 | 1.125 | 1.1875 | | 1.375 | 1.4375 | 0.875 | 0.6563 | 1.4688 | 5.0 |
| BK90 | 8.75 | 8 | 8.4 | C | | | 0.75 | 0.875 | 0.9375 | 1 | 1.125 | 1.1875 | | 1.375 | 1.4375 | 0.875 | 0.6563 | 1.4688 | 5.0 |
| BK95 | 9.25 | 8.5 | 8.9 | C | | | 0.75 | | | 1 | 1.125 | | | 1.375 | 1.4375 | 0.875 | 0.6563 | 1.4688 | 5.4 |
| BK100 | 9.75 | 9 | 9.4 | C | | | 0.75 | 0.875 | | 1 | 1.125 | 1.1875 | 1.25 | 1.375 | 1.4375 | 0.875 | 0.6563 | 1.4688 | 5.6 |
| BK105 | 10.25 | 9.5 | 9.9 | C | | | | | | 1 | | | | 1.375 | 1.4375 | 0.875 | 0.6563 | 1.4688 | 5.8 |
| BK110 | 10.75 | 10 | 10.4 | C | | | 0.75 | | | 1 | 1.125 | 1.1875 | | 1.375 | 1.4375 | 0.875 | 0.6563 | 1.4688 | 6.4 |
| BK115 | 11.25 | 10.5 | 10.9 | C | | | | | | 1 | | | | 1.375 | 1.4375 | 0.875 | 0.6563 | 1.4688 | 6.9 |
| BK120 | 11.75 | 11 | 11.4 | C | | | 0.75 | | | 1 | | 1.1875 | | 1.375 | 1.4375 | 0.875 | 0.6563 | 1.4688 | 7.4 |
| BK130 | 12.75 | 12 | 12.4 | C | | | 0.75 | 0.875 | | 1 | 1.125 | 1.1875 | | | 1.4375 | 0.875 | 0.6563 | 1.4688 | 8.4 |
| BK140 | 13.75 | 13 | 13.4 | C | | | 0.75 | | | 1 | | 1.1875 | | | 1.4375 | 0.875 | 0.6563 | 1.4688 | 9.4 |
| BK160 | 15.75 | 15 | 15.4 | C | | | | | | 1 | 1.125 | 1.1875 | 1.25 | | 1.4375 | 0.875 | 0.6563 | 1.4688 | 11.4 |
| BK190 | 18.75 | 18 | 18.4 | C | | | | | | 1 | | 1.1875 | 1.25 | | 1.4375 | 0.875 | 0.6563 | 1.4688 | 13.4 |

E = 0.4063 FOR BORE SIZES <= 1
0.5" Bore - setscrew only - no keyway

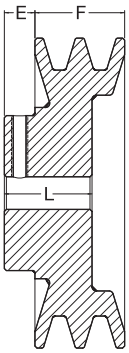
# Two Groove FHP Sheaves Bored-To-Size 2BK

### Keyway Dimensions Inch Bore

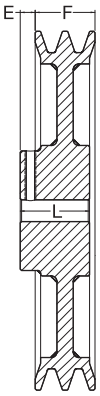
| Diameter of Shaft | Keyway Width × Depth |
|---|---|
| 0.5 | NONE |
| 0.625 - 0.875 | 0.1875 × 0.0938 |
| 0.9375 - 1.25 | 0.25 × 0.125 |
| 1.3125 - 1.375 | 0.3125 × 0.1563 |
| 1.4375 - 1.75 | 0.375 × 0.1875 |




**Type A**
**Solid**




**Type B**
**Web**



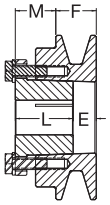

**Type C**
**Arm/Spoke**

## FHP Sheave — 2BK

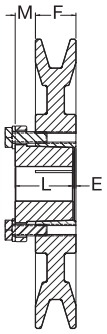
| Part Number | Diameter | | | Type | Stock Finished Bores Includes Keyway and Setscrew | | | | | | | | | F | E | L Thru Bore | Weight lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OD | Datum A(4L) Belts | Pitch 3L Belts | | | | | | | | | | | | | | |
| 2BK25 | 2.5 | 1.9 | 2.3 | A | 0.5 | 0.625 | 0.75 | 0.875 | | | | | | 1.75 | 0.4688 | 1.9688 | 1.3 |
| 2BK26 | 2.6 | 2 | 2.4 | A | | 0.625 | | 0.875 | | 1.125 | | | | 1.75 | 0.4688 | 1.9688 | 1.5 |
| 2BK27 | 2.7 | 2.1 | 2.5 | A | 0.5 | 0.625 | 0.75 | 0.875 | 1 | | | | | 1.75 | 0.4688 | 1.9688 | 1.6 |
| 2BK28 | 2.95 | 2.2 | 2.6 | A | 0.5 | 0.625 | 0.75 | 0.875 | 1 | 1.125 | | | | 1.75 | 0.4688 | 1.9688 | 1.9 |
| 2BK30 | 3.15 | 2.4 | 2.8 | A | 0.5 | 0.625 | 0.75 | 0.875 | 1 | 1.125 | | | | 1.75 | 0.4688 | 1.9688 | 2.3 |
| 2BK32 | 3.35 | 2.6 | 3 | A | | 0.625 | | 0.875 | 1 | 1.125 | | | | 1.75 | 0.4688 | 1.9688 | 2.6 |
| 2BK34 | 3.55 | 2.8 | 3.2 | A | | 0.625 | 0.75 | 0.875 | 1 | 1.125 | | | | 1.75 | 0.4688 | 1.9688 | 2.8 |
| 2BK36 | 3.75 | 3 | 3.4 | A | | | 0.75 | 0.875 | 1 | 1.125 | | 1.375 | | 1.75 | 0.4688 | 1.9688 | 3.3 |
| 2BK40 | 3.95 | 3.2 | 3.6 | B | | 0.625 | 0.75 | 0.875 | 1 | 1.125 | | | | 1.75 | 0.4688 | 1.4688 | 3.3 |
| 2BK45 | 4.25 | 3.5 | 3.9 | B | | | | | 1 | 1.125 | | 1.375 | | 1.75 | 0.4688 | 1.4688 | 3.3 |
| 2BK47 | 4.45 | 3.7 | 4.1 | B | | | | 0.875 | 1 | 1.125 | | | | 1.75 | 0.4688 | 1.4688 | 3.7 |
| 2BK50 | 4.75 | 4 | 4.4 | B | | | 0.75 | | 1 | 1.125 | | 1.375 | | 1.75 | 0.4688 | 1.4688 | 4.1 |
| 2BK52 | 4.95 | 4.2 | 4.6 | B | | | | 0.875 | 1 | 1.125 | | 1.375 | | 1.75 | 0.4688 | 1.4688 | 4.5 |
| 2BK55 | 5.25 | 4.5 | 4.9 | B | | | | | | 1.125 | | 1.375 | | 1.75 | 0.4688 | 1.4688 | 4.5 |
| 2BK57 | 5.45 | 4.7 | 5.1 | B | | | | | 1 | 1.125 | | 1.375 | | 1.75 | 0.4688 | 1.4688 | 5.1 |
| 2BK60 | 5.75 | 5 | 5.4 | B | | | 0.75 | 0.875 | 1 | 1.125 | | 1.375 | | 1.75 | 0.4688 | 1.4688 | 4.9 |
| 2BK62 | 5.95 | 5.2 | 5.6 | B | | | | | 1 | 1.125 | | 1.375 | | 1.75 | 0.4688 | 1.4688 | 4.8 |
| 2BK65 | 6.25 | 5.5 | 5.9 | B | | | | | 1 | 1.125 | | 1.375 | | 1.75 | 0.4688 | 1.4688 | 5.0 |
| 2BK67 | 6.45 | 5.7 | 6.1 | C | | | | | 1 | 1.125 | | 1.375 | | 1.75 | 0.4688 | 1.4688 | 5.0 |
| 2BK70 | 6.75 | 6 | 6.4 | C | | | 0.75 | | 1 | 1.125 | 1.1875 | 1.375 | 1.4375 | 1.75 | 0.3438 | 1.5938 | 6.6 |
| 2BK80 | 7.75 | 7 | 7.4 | C | | | 0.75 | | 1 | 1.125 | 1.1875 | 1.375 | 1.4375 | 1.75 | 0.3438 | 1.5938 | 7.2 |
| 2BK90 | 8.75 | 8 | 8.4 | C | | | 0.75 | | 1 | 1.125 | 1.1875 | 1.375 | 1.4375 | 1.75 | 0.3438 | 1.5938 | 8.4 |
| 2BK100 | 9.75 | 9 | 9.4 | C | | | 0.75 | | 1 | | 1.1875 | 1.375 | 1.4375 | 1.75 | 0.3438 | 1.5938 | 9.4 |
| 2BK110 | 10.75 | 10 | 10.4 | C | | | | | 1 | | 1.1875 | | 1.4375 | 1.75 | 0.3438 | 1.5938 | 10.4 |
| 2BK120 | 11.75 | 11 | 11.4 | C | | | | | 1 | | 1.1875 | | 1.4375 | 1.75 | 0.3438 | 1.5938 | 11.8 |
| 2BK130 | 12.75 | 12 | 12.4 | C | | | | | 1 | | 1.1875 | | 1.4375 | 1.75 | 0.3438 | 1.5938 | 14.9 |
| 2BK140 | 13.75 | 13 | 13.4 | C | | | | | 1 | | 1.1875 | | 1.4375 | 1.75 | 0.3438 | 1.5938 | 16.3 |
| 2BK160 | 15.75 | 15 | 15.4 | C | | | | | 1 | | 1.1875 | | 1.4375 | 1.75 | 0.3438 | 1.5938 | 18.0 |
| 2BK190 | 18.75 | 18 | 18.4 | C | | | | | 1 | | 1.1875 | | 1.4375 | 1.75 | 0.3438 | 1.5938 | 23.3 |

0.5" Bore - setscrew only - no keyway

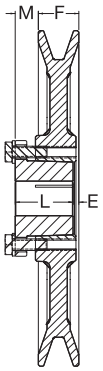
# BK-H Single Groove FHP Sheaves MST® Bushed




**Type A**
**Solid**




**Type B**
**Web**



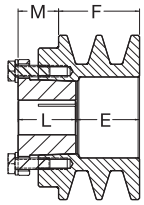

**Type C**
**Arm/Spoke**

## FHP Sheave — BK-H

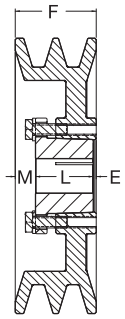
| Part Number | Diameter | | | Type | Bush | Bush Max. Bore | F | E | L Thru Bore | M | Weight Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | OD | Datum A(4L) Belts | Pitch 3L Belts | | | | | | | | |
| BK30-H | 3.15 | 2.4 | 2.8 | A | H | 1.5 | 0.875 | 0.5 | 1.25 | 0.875 | 1.3 |
| BK32-H | 3.35 | 2.6 | 3 | A | H | 1.5 | 0.875 | 0.5 | 1.25 | 0.875 | 1.5 |
| BK34-H | 3.55 | 2.8 | 3.2 | A | H | 1.5 | 0.875 | 0.5 | 1.25 | 0.875 | 1.7 |
| BK36-H | 3.75 | 3 | 3.4 | B | H | 1.5 | 0.875 | 0.0625 | 1.25 | 0.4375 | 1.3 |
| BK40-H | 3.95 | 3.2 | 3.6 | B | H | 1.5 | 0.875 | 0.0625 | 1.25 | 0.4375 | 1.5 |
| BK45-H | 4.25 | 3.5 | 3.9 | B | H | 1.5 | 0.875 | 0.0625 | 1.25 | 0.4375 | 1.9 |
| BK47-H | 4.45 | 3.7 | 4.1 | B | H | 1.5 | 0.875 | 0.0625 | 1.25 | 0.4375 | 2.2 |
| BK50-H | 4.75 | 4 | 4.4 | B | H | 1.5 | 0.875 | 0.0625 | 1.25 | 0.4375 | 2.2 |
| BK52-H | 4.95 | 4.2 | 4.6 | B | H | 1.5 | 0.875 | 0.0625 | 1.25 | 0.4375 | 2.5 |
| BK55-H | 5.25 | 4.5 | 4.9 | B | H | 1.5 | 0.875 | 0.0625 | 1.25 | 0.4375 | 3.0 |
| BK57-H | 5.45 | 4.7 | 5.1 | B | H | 1.5 | 0.875 | 0.0625 | 1.25 | 0.4375 | 3.2 |
| BK60-H | 5.75 | 5 | 5.4 | B | H | 1.5 | 0.875 | 0.0625 | 1.25 | 0.4375 | 3.2 |
| BK62-H | 5.95 | 5.2 | 5.6 | B | H | 1.5 | 0.875 | 0.0625 | 1.25 | 0.4375 | 3.6 |
| BK65-H | 6.25 | 5.5 | 5.9 | B | H | 1.5 | 0.875 | 0.0625 | 1.25 | 0.4375 | 4.0 |
| BK67-H | 6.45 | 5.7 | 6.1 | B | H | 1.5 | 0.875 | 0.0625 | 1.25 | 0.4375 | 4.2 |
| BK70-H | 6.75 | 6 | 6.4 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 3.3 |
| BK72-H | 6.95 | 6.2 | 6.6 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 3.6 |
| BK75-H | 7.25 | 6.5 | 6.9 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 3.4 |
| BK77-H | 7.45 | 6.7 | 7.1 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 3.7 |
| BK80-H | 7.75 | 7 | 7.4 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 4.0 |
| BK85-H | 8.25 | 7.5 | 7.9 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 4.1 |
| BK90-H | 8.75 | 8 | 8.4 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 4.5 |
| BK95-H | 9.25 | 8.5 | 8.9 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 4.8 |
| BK100-H | 9.75 | 9 | 9.4 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 5.1 |
| BK105-H | 10.25 | 9.5 | 9.9 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 5.4 |
| BK110-H | 10.75 | 10 | 10.4 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 6.0 |
| BK115-H | 11.25 | 10.5 | 10.9 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 6.3 |
| BK120-H | 11.75 | 11 | 11.4 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 6.6 |
| BK130-H | 12.75 | 12 | 12.4 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 7.2 |
| BK140-H | 13.75 | 13 | 13.4 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 8.6 |
| BK150-H | 14.75 | 14 | 14.4 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 9.4 |
| BK160-H | 15.75 | 15 | 15.4 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 10.1 |
| BK190-H | 18.75 | 18 | 18.4 | C | H | 1.5 | 0.875 | 0.125 | 1.25 | 0.5 | 12.3 |

Dimensions in inches, weight in pounds. Weights do not include bushings. See page D-58 for additional bushing information.

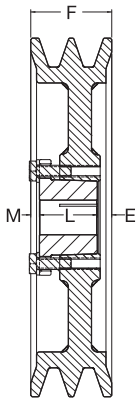
# Two Groove FHP Sheaves MST® Bushed 2BK-H




**Type A**
**Solid**




**Type B**
**Web**




**Type C**
**Arm/Spoke**

## FHP Sheave — 2BK-H

| Part Number | Diameter | | | Type | Bush | Bush Max. Bore | F | E | L Thru Bore | M | Weight Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | OD | Datum A(4L) Belts | Pitch 3L Belts | | | | | | | | |
| 2BK32-H | 3.35 | 2.6 | 3 | A | H | 1.5 | 1.75 | 1.375 | 1.25 | 0.875 | 2.2 |
| 2BK34-H | 3.55 | 2.8 | 3.2 | A | H | 1.5 | 1.75 | 1.375 | 1.25 | 0.875 | 2.6 |
| 2BK36-H | 3.75 | 3 | 3.4 | A | H | 1.5 | 1.75 | 0.9375 | 1.25 | 0.4375 | 2.4 |
| 2BK40-H | 3.95 | 3.2 | 3.6 | A | H | 1.5 | 1.75 | 0.9375 | 1.25 | 0.4375 | 2.6 |
| 2BK45-H | 4.25 | 3.5 | 3.9 | A | H | 1.5 | 1.75 | 0.9375 | 1.25 | 0.4375 | 3.1 |
| 2BK47-H | 4.45 | 3.7 | 4.1 | B | H | 1.5 | 1.75 | 0.0625 | 1.25 | 0.4375 | 3.2 |
| 2BK50-H | 4.75 | 4 | 4.4 | B | H | 1.5 | 1.75 | 0.0625 | 1.25 | 0.4375 | 3.7 |
| 2BK52-H | 4.95 | 4.2 | 4.6 | B | H | 1.5 | 1.75 | 0.0625 | 1.25 | 0.4375 | 4.1 |
| 2BK55-H | 5.25 | 4.5 | 4.9 | B | H | 1.5 | 1.75 | 0.0625 | 1.25 | 0.4375 | 4.2 |
| 2BK57-H | 5.45 | 4.7 | 5.1 | B | H | 1.5 | 1.75 | 0.0625 | 1.25 | 0.4375 | 4.5 |
| 2BK60-H | 5.75 | 5 | 5.4 | B | H | 1.5 | 1.75 | 0.0625 | 1.25 | 0.4375 | 4.9 |
| 2BK62-H | 5.95 | 5.2 | 5.6 | B | H | 1.5 | 1.75 | 0.0625 | 1.25 | 0.4375 | 5.2 |
| 2BK65-H | 6.25 | 5.5 | 5.9 | C | H | 1.5 | 1.75 | 0.3125 | 1.25 | 0.1875 | 5.7 |
| 2BK67-H | 6.45 | 5.7 | 6.1 | C | H | 1.5 | 1.75 | 0.3125 | 1.25 | 0.1875 | 5.8 |
| 2BK70-H | 6.75 | 6 | 6.4 | C | H | 1.5 | 1.75 | 0.3125 | 1.25 | 0.1875 | 6.1 |
| 2BK72-H | 6.95 | 6.2 | 6.6 | C | H | 1.5 | 1.75 | 0.3125 | 1.25 | 0.1875 | 6.1 |
| 2BK80-H | 7.75 | 7 | 7.4 | C | H | 1.5 | 1.75 | 0.3125 | 1.25 | 0.1875 | 7.4 |
| 2BK90-H | 8.75 | 8 | 8.4 | C | H | 1.5 | 1.75 | 0.3125 | 1.25 | 0.1875 | 8.5 |
| 2BK100-H | 9.75 | 9 | 9.4 | C | H | 1.5 | 1.75 | 0.3125 | 1.25 | 0.1875 | 9.7 |
| 2BK110-H | 10.75 | 10 | 10.4 | C | H | 1.5 | 1.75 | 0.3125 | 1.25 | 0.1875 | 10.9 |
| 2BK120-H | 11.75 | 11 | 11.4 | C | H | 1.5 | 1.75 | 0.3125 | 1.25 | 0.1875 | 12.0 |
| 2BK130-H | 12.75 | 12 | 12.4 | C | H | 1.5 | 1.75 | 0.3125 | 1.25 | 0.1875 | 13.4 |
| 2BK140-H | 13.75 | 13 | 13.4 | C | H | 1.5 | 1.75 | 0.3125 | 1.25 | 0.1875 | 15.3 |
| 2BK160-H | 15.75 | 15 | 15.4 | C | H | 1.5 | 1.75 | 0.3125 | 1.25 | 0.1875 | 17.8 |
| 2BK190-H | 18.75 | 18 | 18.4 | C | H | 1.5 | 1.75 | 0.3125 | 1.25 | 0.1875 | 22.8 |

Dimensions in inches, weight in pounds. Weights do not include bushings. See page D-58 for additional bushing information.

### MST "H" Bushings – Inch Bore

| Diameter of Shaft | Keyway Width × Depth | Diameter of Shaft | Keyway Width × Depth | Diameter of Shaft | Keyway Width × Depth |
|---|---|---|---|---|---|
| 0.375 | NONE | 0.7813 | 0.1875 × 0.0938 | 1.25 | 0.25 × 0.125 |
| 0.4375 | NONE | 0.8125 | 0.1875 × 0.0938 | 1.3125 | 0.3125 × 0.0625 |
| 0.5 | 0.125 × 0.0625 | 0.875 | 0.1875 × 0.0938 | 1.375 | 0.3125 × 0.0625 |
| 0.5625 | 0.125 × 0.0625 | 0.9375 | 0.25 × 0.125 | 1.375 | 0.375 × 0.0625 |
| 0.5938 | 0.125 × 0.0625 | 0.9688 | 0.25 × 0.125 | 1.4375 | 0.375 × 0.0625 |
| 0.625 | 0.1875 × 0.0938 | 1 | 0.25 × 0.125 | 1.5 | 0.375 × 0.0313 |
| 0.6563 | 0.1875 × 0.0938 | 1.0625 | 0.25 × 0.125 | | |
| 0.6875 | 0.1875 × 0.0938 | 1.125 | 0.25 × 0.125 | | |
| 0.75 | 0.1875 × 0.0938 | 1.1875 | 0.25 × 0.125 | | |

### MST "H" Bushings – Millimeter Bore

| Diameter of Shaft | Keyway Width × Depth | Diameter of Shaft | Keyway Width × Depth |
|---|---|---|---|
| 10 | NONE | 24 | 8 × 3.3 |
| 11 | NONE | 25 | 8 × 3.3 |
| 12 | NONE | 28 | 8 × 3.3 |
| 14 | 5 × 2.3 | 30 | 8 × 3.3 |
| 16 | 5 × 2.3 | 32 | 10 × 1.3 |
| 18 | 6 × 2.8 | 35 | 10 × 0.3 |
| 19 | 6 × 2.8 | 36 | 10 × 1.3 |
| 20 | 6 × 2.8 | 38 | 10 × 0.3 |
| 22 | 6 × 2.8 | | |

# Stock Variable Pitch Sheaves

**1VP**
**Bored-To-Size**

**2VP**
**Bored-To-Size**

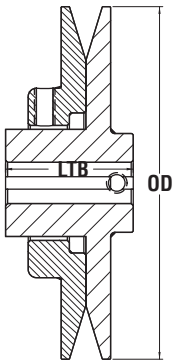
- Stationary adjustable speed sheaves.
- Single and double groove designs.
- Full range of popular bore sizes including keyway and setscrew.
- Positive locking system.
- Precision machined grooves.
- Statically balanced.

**Call Martin for your made-to-order and large quantity requirements.**

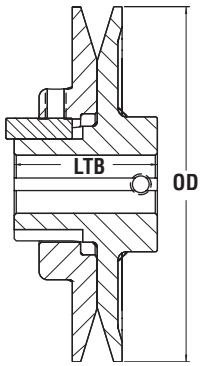
# Single Groove Variable Pitch Sheaves – Bored-To-Size 1VP

### Keyway Dimensions
### Inch Bore

| Diameter of Shaft | Keyway Width × Depth |
|---|---|
| 0.5 | NONE |
| 0.625 - 0.875 | 0.1875 × 0.0938 |
| 0.9375 - 1.25 | 0.25 × 0.125 |
| 1.3125 - 1.375 | 0.3125 × 0.1563 |
| 1.4375 - 1.75 | 0.375 × 0.1875 |




Type A




Type B

## Belt Dimensions

| Part Number | Diameters and Turns | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3L Belts | | | | A or 4L Belts | | | | B or 5L Belts | | | | 5V Belts | | | |
| | Min Pitch | Turns Open | Max Pitch | Turns Open | Min Pitch | Turns Open | Max Pitch | Turns Open | Min Pitch | Turns Open | Max Pitch | Turns Open | Min Pitch | Turns Open | Max Pitch | Turns Open |
| 1VP25 | 1.6 | 4 | 2.4 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1VP30 | 1.8 | 4 | 2.7 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1VP34 | 1.9 | 4 | 2.8 | - | 2 | 5 | 3 | - | 2.3 | 5 | 3.2 | 1 | - | - | - | - |
| 1VP40 | 2.4 | 4 | 3.2 | - | 2.5 | 5 | 3.5 | - | 2.6 | 6 | 3.6 | 1 | - | - | - | - |
| 1VP44 | 2.8 | 4 | 3.7 | - | 2.9 | 5 | 3.9 | - | 3 | 6 | 4 | 1 | - | - | - | - |
| 1VP50 | 3.4 | 4 | 4.2 | - | 3.5 | 5 | 4.5 | - | 3.6 | 6 | 4.6 | 1 | - | - | - | - |
| 1VP56 | 4 | 4 | 4.8 | - | 4.1 | 5 | 5.1 | - | 4.2 | 6 | 5.2 | 1 | - | - | - | - |
| 1VP60 | - | - | - | - | 4.2 | 5 | 5.2 | - | 4.4 | 6 | 5.6 | - | - | - | - | - |
| 1VP62 | 4.6 | 4 | 5.4 | - | 4.7 | 5 | 5.7 | - | 4.8 | 6 | 5.8 | 1 | 5.1 | 6 | 6.1 | 1 |
| 1VP65 | - | - | - | - | 4.7 | 5 | 5.7 | - | 4.9 | 6 | 6.1 | - | 5.1 | 6 | 6.3 | - |
| 1VP68 | 5.2 | 4 | 6 | - | 5.3 | 5 | 6.3 | - | 5.4 | 6 | 6.4 | 1 | 5.7 | 6 | 6.7 | 1 |
| 1VP71 | - | - | - | - | 5.3 | 5 | 6.3 | - | 5.5 | 6 | 6.7 | - | 5.7 | 6 | 6.9 | - |
| 1VP75 | - | - | - | - | 5.7 | 5 | 6.7 | - | 5.9 | 6 | 7.1 | - | 6.1 | 6 | 7.3 | - |

## Stock Size Dimensions

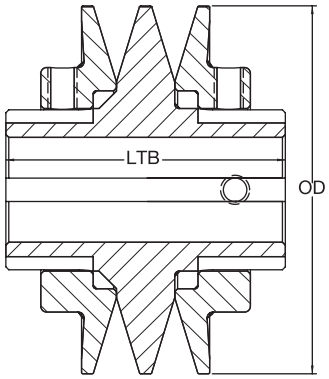
| Part Number | OD | Type | L Thru Bore | Stock Finished Bore Includes Keyway and Setscrew | | | | | | | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1VP25 | 2.5 | A | 1.7188 | 0.5 | 0.625 | 0.75 | | | | | | 0.8 |
| 1VP30 | 2.87 | A | 1.6875 | 0.5 | 0.625 | 0.75 | | | | | | 1.1 |
| 1VP34 | 3.15 | A | 1.9063 | 0.5 | 0.625 | 0.75 | 0.875 | | | | | 1.4 |
| 1VP40 | 3.75 | A | 1.875 | 0.5 | 0.625 | 0.75 | 0.875 | | | | | 1.7 |
| 1VP44 | 4.15 | A | 1.875 | 0.5 | 0.625 | 0.75 | | | | | | 2.4 |
| 1VP44 | 4.15 | B | 2.1875 | | | | 0.875 | 1 | 1.125 | | | 3.0 |
| 1VP50 | 4.75 | A | 2 | 0.5 | 0.625 | 0.75 | | | | | | 2.7 |
| 1VP50 | 4.75 | B | 2.1563 | | | | 0.875 | 1 | 1.125 | | | 3.5 |
| 1VP56 | 5.35 | A | 1.9375 | 0.5 | 0.625 | 0.75 | | | | | | 4.1 |
| 1VP56 | 5.35 | B | 2.1563 | | | | 0.875 | 1 | 1.125 | | | 4.4 |
| 1VP60 | 6 | B | 2.2188 | | 0.625 | 0.75 | 0.875 | 1 | 1.125 | | 1.375 | 6.3 |
| 1VP62 | 5.95 | B | 1.9063 | | 0.625 | 0.75 | 0.875 | 1 | 1.125 | 1.25 | 1.375 | 6.1 |
| 1VP65 | 6.5 | B | 2.2188 | | | 0.75 | 0.875 | | 1.125 | | 1.375 | 7.1 |
| 1VP68 | 6.55 | B | 1.9063 | | 0.625 | 0.75 | 0.875 | 1 | 1.125 | 1.25 | 1.375 | 7.3 |
| 1VP71 | 7.1 | B | 2.2188 | | | 0.75 | 0.875 | | 1.125 | | 1.375 | 8.2 |
| 1VP75 | 7.5 | B | 2.2188 | | | 0.75 | 0.875 | 1 | 1.125 | | 1.375 | 9.0 |

0.5" Bore - setscrew only - no keyway.
Dimensions in inches.

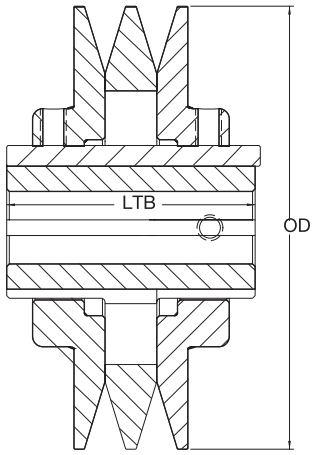
# 2VP Two Groove Variable Pitch Sheaves – Bored-To-Size

### Keyway Dimensions
### Inch Bore

| Diameter of Shaft | Keyway Width × Depth |
|---|---|
| 0.5 | NONE |
| 0.625 - 0.875 | 0.1875 × 0.0938 |
| 0.9375 - 1.25 | 0.25 × 0.125 |
| 1.3125 - 1.375 | 0.3125 × 0.1563 |
| 1.4375 - 1.75 | 0.375 × 0.1875 |




Type A




Type B

## Belt Dimensions

| Part Number | Diameters and Turns | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3L Belts | | | | A or 4L Belts | | | | B or 5L Belts | | | | 5V Belts | | | |
| | Min Pitch | Turns Open | Max Pitch | Turns Open | Min Pitch | Turns Open | Max Pitch | Turns Open | Min Pitch | Turns Open | Max Pitch | Turns Open | Min Pitch | Turns Open | Max Pitch | Turns Open |
| 2VP36 | 2 | 4 | 2.8 | - | 2.1 | 5 | 3.1 | - | 2.4 | 5 | 3.2 | 1 | - | - | - | - |
| 2VP42 | 2.6 | 4 | 3.4 | - | 2.7 | 5 | 3.7 | - | 2.8 | 6 | 3.8 | 1 | - | - | - | - |
| 2VP50 | 3.4 | 4 | 4.2 | - | 3.5 | 5 | 4.5 | - | 3.6 | 6 | 4.6 | 1 | - | - | - | - |
| 2VP56 | 4 | 4 | 4.8 | - | 4.1 | 5 | 5.1 | - | 4.2 | 6 | 5.2 | 1 | - | - | - | - |
| 2VP60 | - | - | - | - | 4.2 | 5 | 5.2 | - | 4.4 | 6 | 5.6 | - | - | - | - | - |
| 2VP62 | 4.6 | 4 | 5.4 | - | 4.7 | 5 | 5.7 | - | 4.8 | 6 | 5.8 | 1 | 5.1 | 6 | 6.1 | 1 |
| 2VP65 | - | - | - | - | 4.7 | 5 | 5.7 | - | 4.9 | 6 | 6.1 | - | 5.1 | 6 | 6.3 | - |
| 2VP68 | 5.2 | 4 | 6 | - | 5.3 | 5 | 6.3 | - | 5.4 | 6 | 6.4 | 1 | 5.7 | 6 | 6.7 | 1 |
| 2VP71 | - | - | - | - | 5.3 | 5 | 6.3 | - | 5.5 | 6 | 6.7 | - | 5.7 | 6 | 6.9 | - |
| 2VP75 | - | - | - | - | 5.7 | 5 | 6.7 | - | 5.9 | 6 | 7.1 | - | 6.1 | 6 | 7.3 | - |

## Stock Size Dimensions

| Part Number | OD | Type | L Thru Bore | Stock Finished Bore Includes Keyway and Setscrew | | | | | | | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2VP36 | 3.35 | A | 3 | 0.5 | 0.625 | 0.75 | 0.875 | 1 | | | | 3.6 |
| 2VP42 | 3.95 | A | 3 | | 0.625 | 0.75 | 0.875 | 1 | 1.125 | | | 4.5 |
| 2VP50 | 4.75 | B | 3 | | 0.625 | 0.75 | 0.875 | 1 | 1.125 | | | 6.1 |
| 2VP56 | 5.35 | B | 3 | | 0.625 | 0.75 | 0.875 | 1 | 1.125 | | | 7.5 |
| 2VP60 | 6 | B | 3.25 | | | 0.75 | 0.875 | 1 | 1.125 | | 1.375 | 10.9 |
| 2VP62 | 5.95 | B | 3 | | | 0.75 | 0.875 | 1 | 1.125 | | 1.375 | 10.0 |
| 2VP65 | 6.5 | B | 3.25 | | | 0.75 | 0.875 | | 1.125 | | 1.375 | 12.5 |
| 2VP68 | 6.55 | B | 3 | | | 0.75 | 0.875 | 1 | 1.125 | 1.25 | 1.375 | 11.7 |
| 2VP71 | 7.1 | B | 3.25 | | | 0.75 | 0.875 | | 1.125 | | 1.375 | 14.7 |
| 2VP75 | 7.5 | B | 3.25 | | | 0.75 | 0.875 | 1 | 1.125 | | 1.375 | 16.3 |

0.5" Bore - setscrew only - no keyway.
Dimensions in inches.

# Variable Pitch Sheaves Instructions

## Mounting and Adjusting Procedure

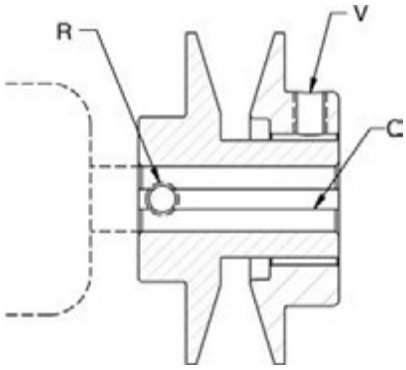
### Single Groove Sheaves Without External Key:

**Mounting:**

1. Make sure that the shaft, sheave bore , key and keyway are free of burrs and paint.
2. All sheaves should be mounted on the motor or driving shaft with the end containing the setscrew "R" toward the motor. Be sure setscrew "R" is well over the shaft.
3. Fit shaft key "C" between sheave and shaft. Lock setscrew "R" in place. Wrench torque 110 in-lb minimum – 130 in-lb maximum.
4. Be sure both driving and driven sheaves are in alignment and that shafts are parallel.
5. Total axial and parallel misalignment must not exceed ¼°.

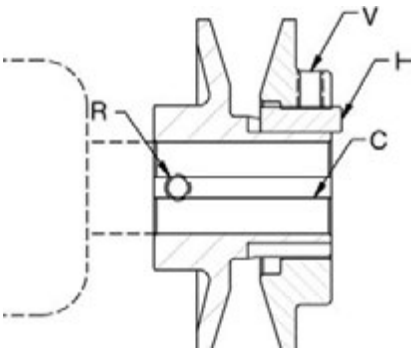
**Adjusting:**

1. Loosen setscrew "V" in movable flange of sheave.
2. Adjust sheave pitch diameter for desired speed by opening rotating parts by half or full turn increments from closed position. Do not open more than five full turns for "A" belts or six full turns for "B" belts.
3. Tighten setscrew "V" over a flat in the hub to 110 to 130 in-lb.
4. Put on belts and adjust belt tension. (Do not force belts over grooves.)
5. Future adjustments should be made by loosening the belt tension and increasing or decreasing the pitch diameter of the sheave by half or full turns as required. Readjust belt tension before starting drive.
6. Be sure that key is in place and that all setscrews are torqued properly before starting drive. Check setscrews and belt tension after 24 hours of service.




**Do not operate sheave with flange projecting beyond the hub end**

### Single Groove Sheaves With External Key:




**Key "H" projects to provide a grip to removal.**

**Do not operate sheave with flange projecting beyond the hub end.**

**Mounting:**

1. Make sure that the shaft, sheave bore, keys and keyways are free of burrs and paint.
2. All sheaves should be mounted on the motor or driving shaft with the end containing the setscrew "R" toward the motor. Be sure setscrew "R" is well over the shaft.
3. Fit shaft key "C" between sheave and shaft. Lock setscrew "R" in place. Wrench torque 110 in-lb minimum - 130 in-lb maximum.
4. Be sure both driving and driven sheaves are in alignment and that shafts are parallel.
5. Total axial and parallel misalignment must not exceed ¼°.

**Adjusting:**

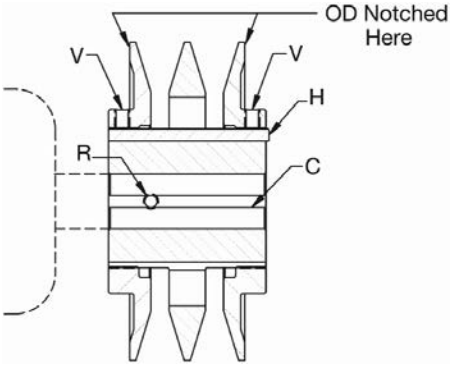
1. Loosen setscrew "V" in movable flange of sheave and pull out external key "H". (This key projects a small amount to provide a grip for removal.)
2. Adjust sheave pitch diameter for desired speed by opening rotating parts by half or full turn increments from closed position. **Do not open more that five full turns for "A" belts or six full turns for "B" belts.** (Except 1VP34 - 5 turns.)
3. Replace key "H" and tighten setscrew "V" to 110 to 130 in-lb
4. Put on belts and adjust belt tension. (Do not force belts over grooves.)
5. Future adjustments should be made by loosening the belt tension and increasing or decreasing the pitch diameter of the sheave by half or full turns as required. Readjust belt tension before starting drive.
6. Be sure that all keys are in place and that all setscrews are torqued properly before starting drive. Check setscrews and belt tension after 24 hours service.

**WARNING:** Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions given above must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. All rotating power transmission products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards, and good safety practice. (Refer to ANSI Standard B15.1.)

# Variable Pitch Sheaves Instructions

## Mounting and Adjusting Procedure

**Double Groove Sheaves With External Key:**




**Key "H" projects to provide a grip for removal.**

**Do not operate sheave with flange projecting beyond the hub end.**

**Mounting:**

1. Make sure that the shaft, sheave bore , key and keyway are free of burrs and paint.
2. Remove key "H" from sheave. Unscrew flanges until setscrew "R" is visible. If setscrew "R" is at an angle , flange may have to be removed in order to tighten it.
3. All sheaves should be mounted on the motor or driving shaft with the end containing the setscrew "R" toward the motor. Be sure setscrew "R" is well over the shaft.
4. Fit shaft key "C" between sheave and shaft. Lock setscrew "R" in place. Wrench torque 110 in-lb minimum – 130 in-lb maximum.
5. Be sure both driving and driven sheaves are in alignment and that shafts are parallel.
6. Total axial and parallel misalignment must not exceed ¼°.

**Adjusting:**

Each flange of the sheave has a small notch on the O.D. of the flange. This mark is located directly over the keyway on the two adjustable flanges and over one of the keyways on the non-adjustable (center) flange. To obtain proper adjustments:

1. Loosen setscrew "V" in movable flange and pull out key "H". (This key projects a small amount to provide a grip for removal.).
2. Rotate both movable flanges inward until they touch the center flange.
3. 3. Locate the notch over the keyway on the center flange.
4. Open each movable flange until its notch is adjacent to the notch on the center flange. Be certain that neither movable flange is opened more than one full turn.
5. From the position obtained in Step 4, open each movable flange the same number of full or half turns until the desired number of turns is obtained. **Do not open more than five full turns for "A" belts or six full turns for "B" belts.** (Except 2VP36 - 5 turns.)
6. Replace key "H" and tighten setscrews "V". Wrench torque 110 in.-lb. minimum to 130 in.-lb. maximum.
7. Put on belts and adjust belt tension. (Do not force belts over flanges.)
8. Future adjustments should be made by loosening the belt tension and increasing or decreasing the pitch diameter of the sheave by half or full turns as required. Readjust belt tension before starting drive.
9. Two groove sheaves must have both halves adjusted by the same number of turns from the position established in Step 4 to ensure the same pitch diameter.
10. Be sure that key is in place and that all setscrews are torqued properly before starting drive. Check setscrews and belt tension after 24 hours of service.

**WARNING:** Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions given above must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. All rotating power transmission products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards, and good safety practice. (Refer to ANSI Standard B15.1.)

# Stock MST® Hi-Cap® Wedge & Conventional Sheaves

## Martin Split Taper (MST®)

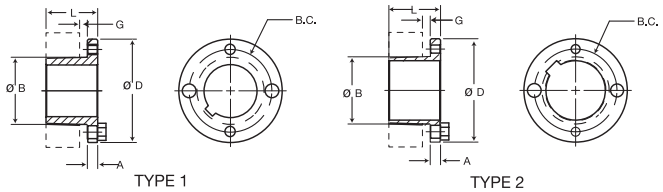
**Quality**

**Inventory**

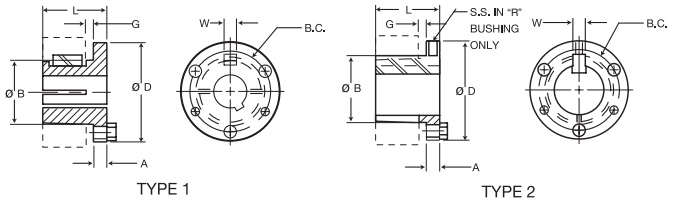
**Service**

- **Immediate Delivery.**
  Deep and broad inventory. Same day shipment.
- **Local Service & Availability.**
  Branches throughout North America.
  Open early / Stay late.
- **Quick Alterations & MTO's.**
  Fast hardening on unhardened sizes. Special sheave and bushing combinations.
- **Reduced Shipping Expense.**
  Unsurpassed freight allowance. Product closer to YOU. Can ship with other products.
- **Lower Transaction Cost.**
  No minimum order or handling charge.
- **Blind Assembly.**
  Bushing will only mount one way in sheave. Bolts all line up when bushing is installed.
- **Key to Key Drive.**
  Bushing provides drive keyed to both the shaft and the driven sheave.
- **Comprehensive Offering.**
  Martin Split Taper joins complete QD & Taper bushed lines.

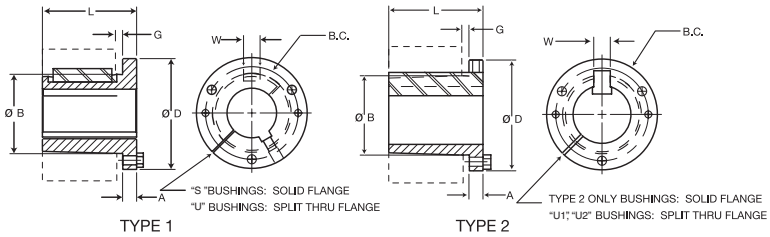
# MST® Bushings



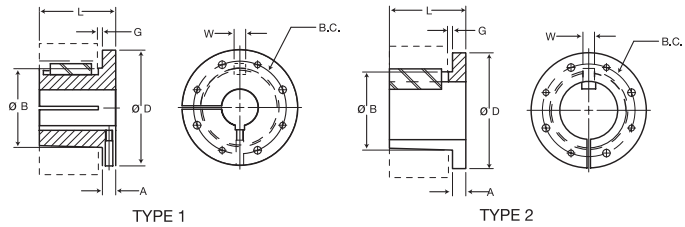

"G" & "H" BUSHINGS




"P", "Q" & "R" BUSHINGS




"S" & "U" BUSHINGS




"W" BUSHINGS

## Bushing Specifications

| Part Number | Dimensions | | | | | | | Stock Bore Range | | Cap Screws | | Av. Wt. Lbs. | Wrench Torque In./lbs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | D | L | A | B Large End | G | B.C. | W | Type 1 | Type 2 | No. | Size | | |
| G | 2 | 1 | .25 | 1.172 | .19 | 1.56 | — | .375 –.938 | 1 | 2 | .25 ×.625 | .5 | 95 |
| H | 2.5 | 1.25 | .25 | 1.625 | .19 | 2 | — | .375 – 1.375 | 1.438 – 1.5 | 2 | .25 ×.75 | .8 | 95 |
| P1 | 3 | 1.94 | .41 | 1.938 | .22 | 2.44 | .375 | .5 – 1.438 | 1.5 – 1.75 | 3 | .313 × 1 | 1.3 | 192 |
| P2 | 3 | 2.94 | .41 | 1.938 | .22 | 2.44 | .375 | .75 – 1.438 | 1.5 – 1.75 | 3 | .313 × 1 | 1.5 | 192 |
| P3 | 3 | 4.44 | .41 | 1.938 | .22 | 2.44 | .375 | 1.125 – 1.375 | 1.625 | 3 | .313 × 1 | 2.0 | 192 |
| Q1 | 4.12 | 2.5 | .53 | 2.875 | .22 | 3.38 | .5 | .75 – 2.063 | 2.125 – 2.688 | 3 | .375 × 1.25 | 3.5 | 348 |
| Q2 | 4.12 | 3.5 | .53 | 2.875 | .22 | 3.38 | .5 | 1 – 2.063 | 2.125 – 2.625 | 3 | .375 × 1.25 | 4.5 | 348 |
| Q3 | 4.12 | 5 | .53 | 2.875 | .22 | 3.38 | .5 | 1.375 – 2.063 | 2.125 – 2.5 | 3 | .375 × 1.25 | 5.5 | 348 |
| R1 | 5.38 | 2.88 | .62 | 4 | .25 | 4.62 | .75 | 1.125 – 2.813 | 2.875 – 3.75 | 3 | .375 × 1.75 | 7.5 | 348 |
| R2 | 5.38 | 4.88 | .62 | 4 | .25 | 4.62 | .75 | 1.375 – 2.813 | 2.875 – 3.625 | 3 | .375 × 1.75 | 11.0 | 348 |
| S1 | 6.38 | 4.38 | .75 | 4.625 | .31 | 5.38 | .75 | 1.688 – 3.188 | 3.25 – 4.25 | 3 | .5 × 2.25 | 13.5 | 840 |
| S2 | 6.38 | 6.75 | .75 | 4.625 | .31 | 5.38 | .75 | 1.875 – 3.188 | 3.25 – 4.188 | 3 | .5 × 2.25 | 19.0 | 840 |
| UO | 8.38 | 5.25 | 1.06 | 6 | .44 | 7 | 1.25 | 2.375 – 3.063 | — | 3 | .625 × 2.75 | 30.0 | 1680 |
| UO | 8.38 | 4.94 | .75 | 6 | .44 | 7 | 1.25 | 3.25 – 4.25 | 4.375 – 5.5 | 3 | .625 × 2.75 | 27.0 | 1680 |
| U1 | 8.38 | 7.12 | 1.06 | 6 | .44 | 7 | 1.25 | 2.375 – 4.25 | 4.375 – 5.5 | 3 | .625 × 2.75 | 40.0 | 1680 |
| U2 | 8.38 | 10.12 | 1.06 | 6 | .44 | 7 | 1.25 | 2.438 – 4.25 | 4.375 – 5 | 3 | .625 × 2.75 | 50.0 | 1680 |
| W1 | 12.5 | 8.25 | 1.44 | 8.5 | .44 | 10 | 1.25 | 3.375 – 6.188 | 6.25 – 7.438 | 4 | .75 × 3 | 104.0 | 3000 |
| W2 | 12.5 | 11.25 | 1.44 | 8.5 | .44 | 10 | 1.25 | 3.375 – 6.188 | 6.25 – 7.438 | 4 | .75 × 3 | 133.0 | 3000 |

All tapers are.75" per 12" on Diameter.

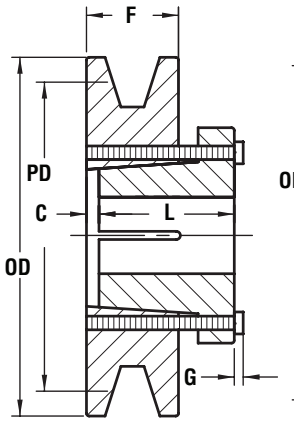
All dimensions are in inches except, as noted.

All bushings are cast iron, ductile iron, sintered steel, or steel. Consult manufacturer for clarification.

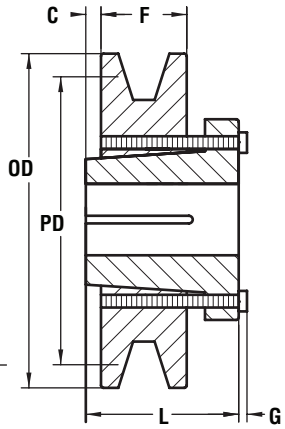
Metric bushings also available.

**FOR MST BUSHING INSTALATION & REMOVAL INSTRUCTION, GO TO PAGE 14 OF SECTION B.**

# Hi-Cap Wedge Stock MST® Sheaves 3V




Type A

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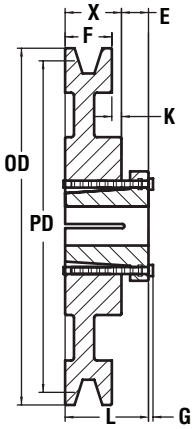
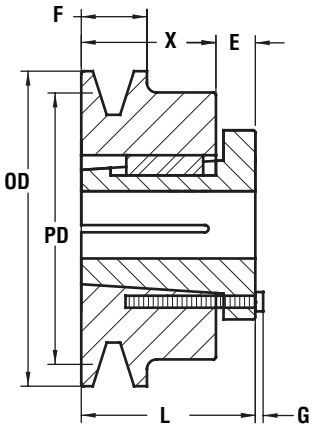
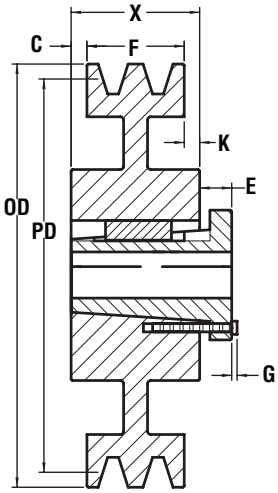



Type E




Type G



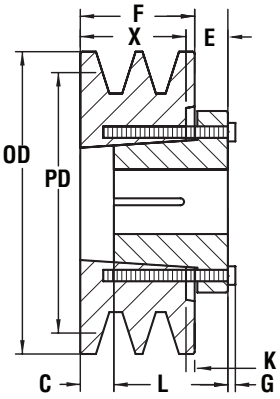

Type L

## 3V MST® Sheaves

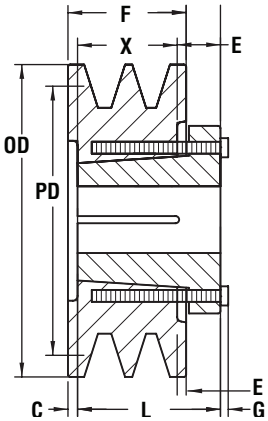
| 1 Groove | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 0.6875 | | | | | | | | | | | | |
| Part Number | OD | PD 3V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 1 3V 265 G | 2.65 | 2.6 | A-1 | G | 1 | 0.13 | – | 0.19 | 0.06 | 1 | 0.63 | 0.6 |
| 1 3V 280 G | 2.8 | 2.75 | A-1 | G | 1 | 0.13 | – | 0.19 | 0.06 | 1 | 0.63 | 0.7 |
| 1 3V 300 G | 3 | 2.95 | A-1 | G | 1 | 0.13 | – | 0.19 | 0.06 | 1 | 0.63 | 0.9 |
| 1 3V 315 H | 3.15 | 3.1 | C-1 | H | 1.5 | 0.13 | – | 0.19 | 0.31 | 1.25 | 0.88 | 0.8 |
| 1 3V 335 H | 3.35 | 3.3 | C-1 | H | 1.5 | 0.13 | – | 0.19 | 0.31 | 1.25 | 0.88 | 0.9 |
| 1 3V 365 H | 3.65 | 3.6 | E-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 1.4 |
| 1 3V 365 P | 3.65 | 3.6 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 2.0 |
| 1 3V 412 H | 4.12 | 4.07 | E-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 1.9 |
| 1 3V 412 P | 4.12 | 4.07 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 2.6 |
| 1 3V 450 H | 4.5 | 4.45 | E-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 2.2 |
| 1 3V 450 P | 4.5 | 4.45 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 3.0 |
| 1 3V 475 H | 4.75 | 4.7 | E-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 2.4 |
| 1 3V 475 P | 4.75 | 4.7 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 3.5 |
| 1 3V 500 H | 5 | 4.95 | E-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 2.6 |
| 1 3V 500 P | 5 | 4.95 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 3.8 |
| 1 3V 530 H | 5.3 | 5.25 | E-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 2.5 |
| 1 3V 530 P | 5.3 | 5.25 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 4.2 |
| 1 3V 560 H | 5.6 | 5.55 | E-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 2.6 |
| 1 3V 560 P | 5.6 | 5.55 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 4.6 |
| 1 3V 600 H | 6 | 5.95 | E-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 2.9 |
| 1 3V 600 P | 6 | 5.95 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 5.3 |
| 1 3V 650 P | 6.5 | 6.45 | L-3 | P1 | 1.75 | 0.31 | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 5.5 |
| 1 3V 690 P | 6.9 | 6.85 | L-3 | P1 | 1.75 | 0.31 | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 4.9 |
| 1 3V 800 P | 8 | 7.95 | L-3 | P1 | 1.75 | 0.31 | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 6.5 |
| 1 3V 1060 P | 10.6 | 10.55 | L-3 | P1 | 1.75 | 0.31 | 0.63 | 0.25 | 0.94 | 1.94 | 1.31 | 7.8 |
| 1 3V 1400 Q | 14 | 13.95 | L-3 | Q1 | 2.69 | 0.53 | 0.75 | 0.28 | 1.06 | 2.5 | 1.75 | 18.1 |
| 1 3V 1900 Q | 19 | 18.95 | L-3 | Q1 | 2.69 | 0.53 | 0.75 | 0.28 | 1.06 | 2.5 | 1.75 | 26.3 |
| 1 3V 2500 Q | 25 | 24.95 | L-3 | Q1 | 2.69 | 0.53 | 0.75 | 0.28 | 1.06 | 2.5 | 1.75 | 38.3 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

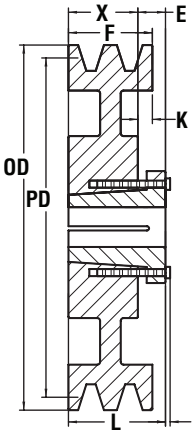
# 3V Hi-Cap Wedge Stock MST® Sheaves



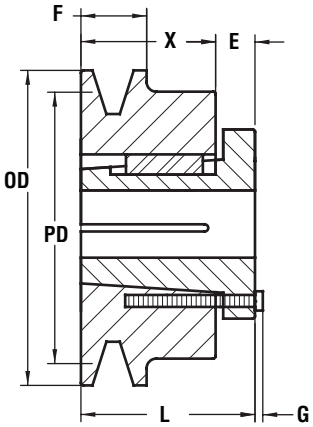

Type B



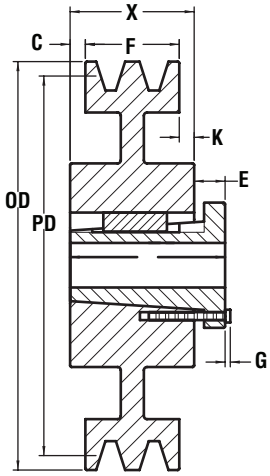

Type D




Type F




Type G



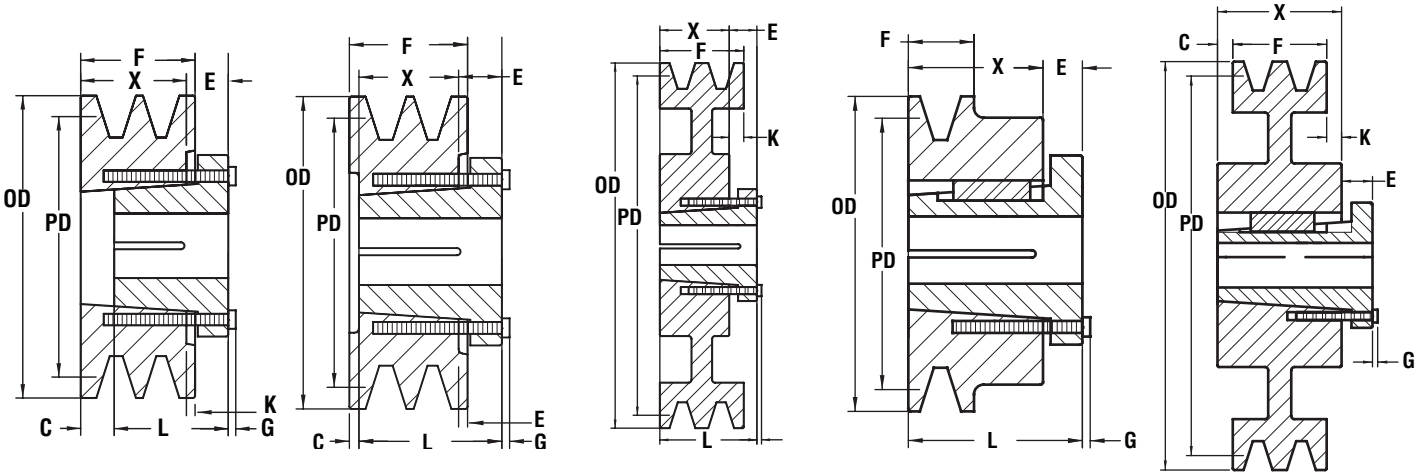

Type L

## 3V MST® Sheaves

| 2 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 1.0313 | | | | | | | | | | | | |
| Part Number | OD | PD 3V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 2 3V 265 G | 2.65 | 2.6 | B-1 | G | 1 | 0.41 | 0.44 | 0.19 | – | 1 | 0.97 | 0.8 |
| 2 3V 280 G | 2.8 | 2.75 | B-1 | G | 1 | 0.41 | 0.44 | 0.19 | – | 1 | 0.97 | 0.9 |
| 2 3V 300 G | 3 | 2.95 | B-1 | G | 1 | 0.41 | 0.44 | 0.19 | – | 1 | 0.97 | 1.3 |
| 2 3V 315 H | 3.15 | 3.1 | D-1 | H | 1.5 | 0.22 | 0.44 | 0.19 | – | 1.25 | 0.81 | 0.9 |
| 2 3V 335 H | 3.35 | 3.3 | D-1 | H | 1.5 | 0.22 | 0.44 | 0.19 | – | 1.25 | 0.81 | 1.3 |
| 2 3V 365 H | 3.65 | 3.6 | F-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 1.6 |
| 2 3V 365 P | 3.65 | 3.6 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | – | 1.94 | 1.31 | 2.0 |
| 2 3V 412 H | 4.12 | 4.07 | F-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 2.3 |
| 2 3V 412 P | 4.12 | 4.07 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | – | 1.94 | 1.31 | 2.8 |
| 2 3V 450 H | 4.5 | 4.45 | F-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 2.8 |
| 2 3V 450 P | 4.5 | 4.45 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | – | 1.94 | 1.31 | 3.5 |
| 2 3V 475 H | 4.75 | 4.7 | F-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 3.1 |
| 2 3V 475 P | 4.75 | 4.7 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | – | 1.94 | 1.31 | 4.0 |
| 2 3V 500 H | 5 | 4.95 | F-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 3.4 |
| 2 3V 500 P | 5 | 4.95 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | – | 1.94 | 1.31 | 4.6 |
| 2 3V 530 H | 5.3 | 5.25 | F-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 3.7 |
| 2 3V 530 P | 5.3 | 5.25 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | – | 1.94 | 1.31 | 5.6 |
| 2 3V 560 H | 5.6 | 5.55 | F-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 3.1 |
| 2 3V 560 P | 5.6 | 5.55 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | – | 1.94 | 1.31 | 6.0 |
| 2 3V 600 H | 6 | 5.95 | F-1 | H | 1.5 | – | 0.44 | 0.19 | 0.19 | 1.25 | 0.88 | 3.6 |
| 2 3V 600 P | 6 | 5.95 | G-1 | P1 | 1.75 | – | 0.63 | 0.25 | – | 1.94 | 1.31 | 6.8 |
| 2 3V 650 P | 6.5 | 6.45 | L-3 | P1 | 1.75 | 0.33 | 0.75 | 0.28 | 1.05 | 2.5 | 1.75 | 8.3 |
| 2 3V 690 P | 6.9 | 6.85 | L-3 | P1 | 1.75 | 0.33 | 0.75 | 0.28 | 1.05 | 2.5 | 1.75 | 9.8 |
| 2 3V 800 P | 8 | 7.95 | L-3 | Q1 | 2.69 | 0.33 | 0.75 | 0.28 | 1.05 | 2.5 | 1.75 | 10.8 |
| 2 3V 1060 P | 10.6 | 10.55 | L-3 | Q1 | 2.69 | 0.33 | 0.75 | 0.28 | 1.05 | 2.5 | 1.75 | 13.5 |
| 2 3V 1400 Q | 14 | 13.95 | L-3 | Q1 | 2.69 | 0.53 | 0.75 | 0.28 | 1.06 | 2.5 | 1.75 | 22.5 |
| 2 3V 1900 Q | 19 | 18.95 | L-3 | Q1 | 2.69 | 0.53 | 0.75 | 0.28 | 1.06 | 2.5 | 1.75 | 28.9 |
| 2 3V 2500 Q | 25 | 24.95 | L-3 | Q1 | 2.69 | 0.53 | 0.75 | 0.28 | 1.06 | 2.5 | 1.75 | 43.5 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# Hi-Cap Wedge Stock MST® Sheaves 3V



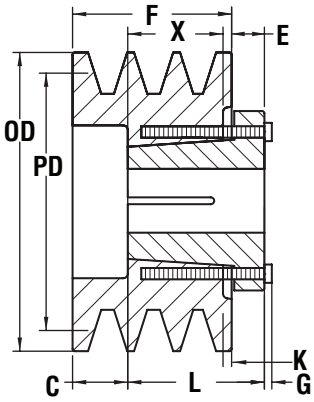

Type B Type D Type S Type J Type L

## 3V MST® Sheaves

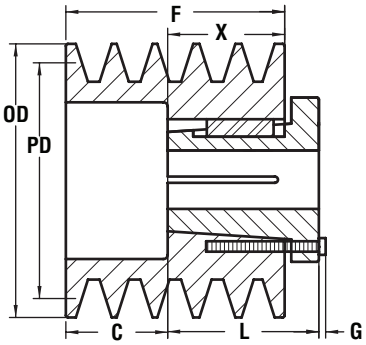
| 3 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 1.5 | | | | | | | | | | | | |
| Part Number | OD | PD 3V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 3 3V 265 G | 2.65 | 2.6 | B-1 | G | 1 | 0.81 | 0.44 | 0.19 | 0.06 | 1 | 0.63 | 1.1 |
| 3 3V 280 G | 2.8 | 2.75 | B-1 | G | 1 | 0.81 | 0.44 | 0.19 | 0.06 | 1 | 0.63 | 1.6 |
| 3 3V 300 G | 3 | 2.95 | B-1 | G | 1 | 0.81 | 0.44 | 0.19 | 0.06 | 1 | 0.63 | 1.8 |
| 3 3V 315 H | 3.15 | 3.1 | D-1 | H | 1.5 | 0.56 | 0.44 | 0.19 | 0.06 | 1.25 | 0.88 | 1.4 |
| 3 3V 335 H | 3.35 | 3.3 | D-1 | H | 1.5 | 0.56 | 0.44 | 0.19 | 0.06 | 1.25 | 0.88 | 1.8 |
| 3 3V 365 P | 3.65 | 3.6 | S-1 | P1 | 1.75 | 0.19 | 0.63 | 0.25 | 0 | 1.94 | 1.31 | 2.5 |
| 3 3V 412 P | 4.12 | 4.07 | S-1 | P1 | 1.75 | 0.19 | 0.63 | 0.25 | 0 | 1.94 | 1.31 | 3.0 |
| 3 3V 450 P | 4.5 | 4.45 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.19 | 1.94 | 1.31 | 3.9 |
| 3 3V 475 P | 4.75 | 4.7 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.19 | 1.94 | 1.31 | 4.4 |
| 3 3V 500 P | 5 | 4.95 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.19 | 1.94 | 1.31 | 4.9 |
| 3 3V 530 P | 5.3 | 5.25 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.19 | 1.94 | 1.31 | 5.9 |
| 3 3V 560 P | 5.6 | 5.55 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.19 | 1.94 | 1.31 | 7.5 |
| 3 3V 600 P | 6 | 5.95 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.19 | 1.94 | 1.31 | 8.0 |
| 3 3V 650 Q | 6.5 | 6.45 | L-1 | Q1 | 2.69 | 0.13 | 0.75 | 0.28 | 0.38 | 2.5 | 1.75 | 9.9 |
| 3 3V 690 Q | 6.9 | 6.85 | L-1 | Q1 | 2.69 | 0.13 | 0.75 | 0.28 | 0.38 | 2.5 | 1.75 | 11.3 |
| 3 3V 800 Q | 8 | 7.95 | L-2 | Q1 | 2.69 | 0.13 | 0.75 | 0.28 | 0.38 | 2.5 | 1.75 | 11.9 |
| 3 3V 1060 Q | 10.6 | 10.55 | L-3 | Q1 | 2.69 | 0.13 | 0.75 | 0.28 | 0.38 | 2.5 | 1.75 | 15.1 |
| 3 3V 1400 Q | 14 | 13.95 | L-3 | Q1 | 2.69 | 0.13 | 0.75 | 0.28 | 0.38 | 2.5 | 1.75 | 24.5 |
| 3 3V 1900 R | 19 | 18.95 | L-3 | R1 | 3.75 | 0.25 | 0.88 | 0.28 | 0.75 | 2.88 | 2 | 35.1 |
| 3 3V 2500 R | 25 | 24.95 | L-3 | R1 | 3.75 | 0.25 | 0.88 | 0.28 | 0.75 | 2.88 | 2 | 55.0 |
| 3 3V 3350 R | 33.5 | 33.45 | L-3 | R1 | 3.75 | 0.25 | 0.88 | 0.28 | 0.75 | 2.88 | 2 | 80.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

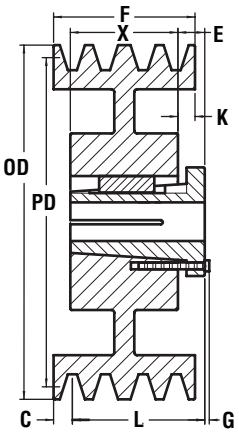
# 3V Hi-Cap Wedge Stock MST® Sheaves




Type H




Type S



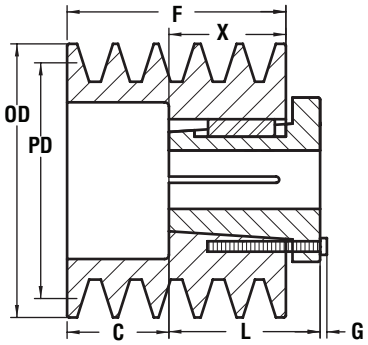

Type J

## 3V MST® Sheaves

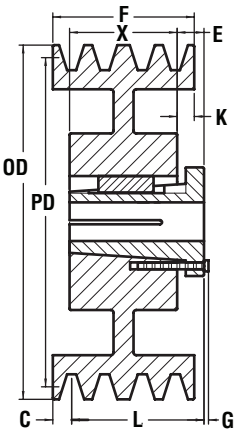
| 4 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 1.9063 | | | | | | | | | | | | |
| Part Number | OD | PD 3V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 4 3V 265 G | 2.65 | 2.6 | H-1 | G | 1 | 1.22 | 0.44 | 0.19 | 0.06 | 1 | 0.63 | 1.4 |
| 4 3V 280 G | 2.8 | 2.75 | H-1 | G | 1 | 1.22 | 0.44 | 0.19 | 0.06 | 1 | 0.63 | 1.8 |
| 4 3V 300 G | 3 | 2.95 | H-1 | G | 1 | 1.22 | 0.44 | 0.19 | 0.06 | 1 | 0.63 | 2.1 |
| 4 3V 315 H | 3.15 | 3.1 | H-1 | H | 1.5 | 0.97 | 0.44 | 0.19 | 0.06 | 1.25 | 0.88 | 1.8 |
| 4 3V 335 H | 3.35 | 3.3 | H-1 | H | 1.5 | 0.97 | 0.44 | 0.19 | 0.06 | 1.25 | 0.88 | 2.3 |
| 4 3V 365 P | 3.65 | 3.6 | S-1 | P1 | 1.75 | 0.59 | 0.63 | 0.25 | 0 | 1.94 | 1.31 | 2.8 |
| 4 3V 412 P | 4.12 | 4.07 | S-1 | P1 | 1.75 | 0.59 | 0.63 | 0.25 | 0 | 1.94 | 1.31 | 3.7 |
| 4 3V 450 P | 4.5 | 4.45 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.59 | 1.94 | 1.31 | 4.4 |
| 4 3V 475 P | 4.75 | 4.7 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.59 | 1.94 | 1.31 | 5.1 |
| 4 3V 500 P | 5 | 4.95 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.59 | 1.94 | 1.31 | 5.8 |
| 4 3V 530 P | 5.3 | 5.25 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.59 | 1.94 | 1.31 | 6.5 |
| 4 3V 560 P | 5.6 | 5.55 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.59 | 1.94 | 1.31 | 8.1 |
| 4 3V 600 Q | 6 | 5.95 | J-1 | Q1 | 2.69 | – | 0.75 | 0.28 | 0.16 | 2.5 | 1.75 | 9.0 |
| 4 3V 650 Q | 6.5 | 6.45 | J-2 | Q1 | 2.69 | 0.08 | 0.75 | 0.28 | 0.08 | 2.5 | 1.75 | 11.1 |
| 4 3V 690 Q | 6.9 | 6.85 | J-2 | Q1 | 2.69 | 0.08 | 0.75 | 0.28 | 0.08 | 2.5 | 1.75 | 12.9 |
| 4 3V 800 Q | 8 | 7.95 | J-2 | Q1 | 2.69 | 0.08 | 0.75 | 0.28 | 0.08 | 2.5 | 1.75 | 13.1 |
| 4 3V 1060 Q | 10.6 | 10.55 | J-3 | Q1 | 2.69 | 0.08 | 0.75 | 0.28 | 0.08 | 2.5 | 1.75 | 15.9 |
| 4 3V 1400 Q | 14 | 13.95 | J-3 | Q1 | 2.69 | 0.08 | 0.75 | 0.28 | 0.08 | 2.5 | 1.75 | 25.4 |
| 4 3V 1900 R | 19 | 18.95 | J-3 | R1 | 3.75 | 0.05 | 0.88 | 0.28 | 0.14 | 2.88 | 2 | 37.3 |
| 4 3V 2500 R | 25 | 24.95 | J-3 | R1 | 3.75 | 0.05 | 0.88 | 0.28 | 0.14 | 2.88 | 2 | 60.0 |
| 4 3V 3350 R | 33.5 | 33.45 | J-3 | R1 | 3.75 | 0.05 | 0.88 | 0.28 | 0.14 | 2.88 | 2 | 88.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# Hi-Cap Wedge Stock MST® Sheaves 3V




Type S




Type J

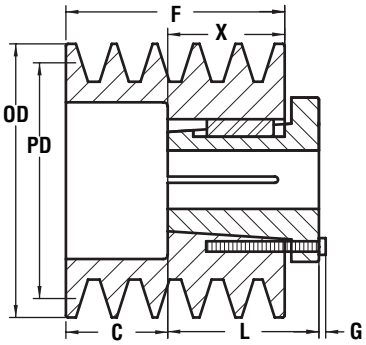
## 3V MST® Sheaves

| 5 Grooves<br>F = 2.3125 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD<br>3V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 5 3V 475 P | 4.75 | 4.7 | J-2 | P1 | 1.75 | 0.38 | 0.63 | 0.25 | 0.62 | 1.94 | 1.31 | 5.6 |
| 5 3V 500 P | 5 | 4.95 | J-2 | P1 | 1.75 | 0.38 | 0.63 | 0.25 | 0.62 | 1.94 | 1.31 | 6.0 |
| 5 3V 530 P | 5.3 | 5.25 | J-2 | P1 | 1.75 | 0.38 | 0.63 | 0.25 | 0.62 | 1.94 | 1.31 | 7.1 |
| 5 3V 560 P | 5.6 | 5.55 | J-2 | P1 | 1.75 | 0.38 | 0.63 | 0.25 | 0.62 | 1.94 | 1.31 | 8.1 |
| 5 3V 600 Q | 6 | 5.95 | J-2 | Q1 | 2.69 | 0 | 0.75 | 0.28 | 0.56 | 2.5 | 1.75 | 9.5 |
| 5 3V 650 Q | 6.5 | 6.45 | J-2 | Q1 | 2.69 | 0.28 | 0.75 | 0.28 | 0.28 | 2.5 | 1.75 | 11.6 |
| 5 3V 690 Q | 6.9 | 6.85 | J-2 | Q1 | 2.69 | 0.28 | 0.75 | 0.28 | 0.28 | 2.5 | 1.75 | 13.9 |
| 5 3V 800 Q | 8 | 7.95 | J-2 | Q1 | 2.69 | 0.28 | 0.75 | 0.28 | 0.28 | 2.5 | 1.75 | 14.3 |
| 5 3V 1060 Q | 10.6 | 10.55 | J-3 | Q1 | 2.69 | 0.28 | 0.75 | 0.28 | 0.28 | 2.5 | 1.75 | 17.5 |
| 5 3V 1400 Q | 14 | 13.95 | J-3 | Q1 | 2.69 | 0.28 | 0.75 | 0.28 | 0.28 | 2.5 | 1.75 | 27.5 |
| 5 3V 1900 R | 19 | 18.95 | J-3 | R1 | 3.75 | 0.16 | 0.88 | 0.28 | 0.16 | 2.88 | 2 | 40.9 |
| 5 3V 2500 R | 25 | 24.95 | J-3 | R1 | 3.75 | 0.16 | 0.88 | 0.28 | 0.16 | 2.88 | 2 | 64.0 |
| 5 3V 3350 R | 33.5 | 33.45 | J-3 | R1 | 3.75 | 0.16 | 0.88 | 0.28 | 0.16 | 2.88 | 2 | 92.0 |

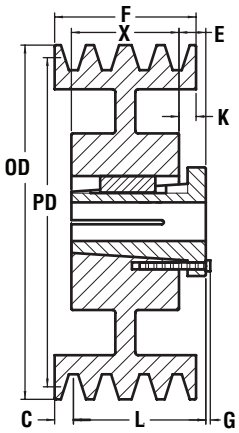
| 5 Grooves<br>F = 2.3125 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD<br>3V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 6 3V 475 Q | 4.75 | 4.7 | S-1 | Q1 | 2.69 | 0.97 | – | 0.28 | – | 2.5 | 1.75 | 5.6 |
| 6 3V 500 Q | 5 | 4.95 | S-1 | Q1 | 2.69 | 0.97 | – | 0.28 | – | 2.5 | 1.75 | 6.1 |
| 6 3V 530 Q | 5.3 | 5.25 | S-1 | Q1 | 2.69 | 0.97 | – | 0.28 | – | 2.5 | 1.75 | 7.3 |
| 6 3V 560 Q | 5.6 | 5.55 | J-1 | Q1 | 2.69 | 0.22 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 8.8 |
| 6 3V 600 Q | 6 | 5.95 | J-2 | Q1 | 2.69 | 0.22 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 10.1 |
| 6 3V 650 Q | 6.5 | 6.45 | J-2 | Q1 | 2.69 | 0.48 | 0.75 | 0.28 | 0.48 | 2.5 | 1.75 | 12.9 |
| 6 3V 690 Q | 6.9 | 6.85 | J-2 | Q1 | 2.69 | 0.48 | 0.75 | 0.28 | 0.48 | 2.5 | 1.75 | 14.4 |
| 6 3V 800 Q | 8 | 7.95 | J-2 | Q1 | 2.69 | 0.48 | 0.75 | 0.28 | 0.48 | 2.5 | 1.75 | 16.1 |
| 6 3V 1060 R | 10.6 | 10.55 | J-3 | R1 | 3.75 | 0.36 | 0.88 | 0.28 | 0.36 | 2.88 | 2 | 22.4 |
| 6 3V 1400 R | 14 | 13.95 | J-3 | R1 | 3.75 | 0.36 | 0.88 | 0.28 | 0.36 | 2.88 | 2 | 32.1 |
| 6 3V 1900 R | 19 | 18.95 | J-3 | R1 | 3.75 | 0.36 | 0.88 | 0.28 | 0.36 | 2.88 | 2 | 42.8 |
| 6 3V 2500 R | 25 | 24.95 | J-3 | R1 | 3.75 | 0.36 | 0.88 | 0.28 | 0.36 | 2.88 | 2 | 64.0 |
| 6 3V 3350 R | 33.5 | 33.45 | J-3 | R1 | 3.75 | 0.36 | 0.88 | 0.28 | 0.36 | 2.88 | 2 | 99.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

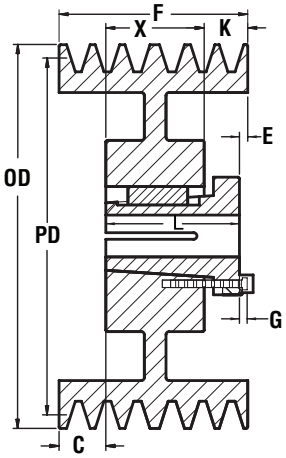
# 3V Hi-Cap Wedge Stock MST® Sheaves




Type S




Type J




Type K

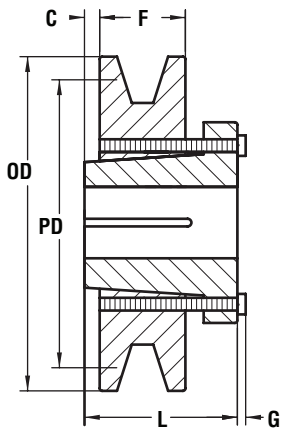
## 3V MST® Sheaves

| 8 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 3.5313 | | | | | | | | | | | | |
| Part Number | OD | PD 3V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 8 3V 475 Q | 4.75 | 4.7 | S-1 | Q2 | 2.63 | 0.78 | 0.75 | 0.28 | – | 3.5 | 2.75 | 7.3 |
| 8 3V 500 Q | 5 | 4.95 | S-1 | Q2 | 2.63 | 0.78 | 0.75 | 0.28 | – | 3.5 | 2.75 | 8.6 |
| 8 3V 530 Q | 5.3 | 5.25 | S-1 | Q2 | 2.63 | 0.78 | 0.75 | 0.28 | – | 3.5 | 2.75 | 10.3 |
| 8 3V 560 Q | 5.6 | 5.55 | K-1 | Q2 | 2.63 | – | 0.75 | 0.28 | 0.78 | 3.5 | 2.75 | 12.3 |
| 8 3V 600 Q | 6 | 5.95 | K-1 | Q2 | 2.63 | – | 0.75 | 0.28 | 0.78 | 3.5 | 2.75 | 15.1 |
| 8 3V 650 Q | 6.5 | 6.45 | J-2 | Q2 | 2.63 | 0.39 | 0.75 | 0.28 | 0.39 | 3.5 | 2.75 | 18.3 |
| 8 3V 690 Q | 6.9 | 6.85 | J-2 | Q2 | 2.63 | 0.39 | 0.75 | 0.28 | 0.39 | 3.5 | 2.75 | 21.4 |
| 8 3V 800 R | 8 | 7.95 | J-2 | R1 | 3.75 | 0.77 | 0.88 | 0.28 | 0.77 | 2.88 | 2 | 23.2 |
| 8 3V 1060 R | 10.6 | 10.55 | J-3 | R1 | 3.75 | 0.77 | 0.88 | 0.28 | 0.77 | 2.88 | 2 | 24.5 |
| 8 3V 1400 R | 14 | 13.95 | J-3 | R1 | 3.75 | 0.77 | 0.88 | 0.28 | 0.77 | 2.88 | 2 | 39.0 |
| 8 3V 1900 R | 19 | 18.95 | J-3 | R1 | 3.75 | 0.77 | 0.88 | 0.28 | 0.77 | 2.88 | 2 | 49.0 |
| 8 3V 2500 R | 25 | 24.95 | J-3 | R1 | 3.75 | 0.77 | 0.88 | 0.28 | 0.77 | 2.88 | 2 | 76.0 |
| 8 3V 3350 S | 33.5 | 33.45 | J-3 | S1 | 4.25 | 0.11 | 1.06 | 0.38 | 0.11 | 4.38 | 3.31 | 126.0 |

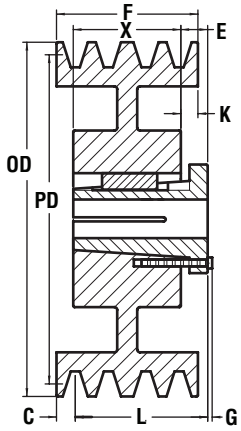
| 10 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 4.3438 | | | | | | | | | | | | |
| Part Number | OD | PD 3V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 10 3V 475 Q | 4.75 | 4.7 | S-1 | Q2 | 2.63 | 1.59 | 0.75 | 0.28 | – | 3.5 | 2.75 | 8.4 |
| 10 3V 500 Q | 5 | 4.95 | S-1 | Q2 | 2.63 | 1.59 | 0.75 | 0.28 | – | 3.5 | 2.75 | 9.9 |
| 10 3V 530 Q | 5.3 | 5.25 | S-1 | Q2 | 2.63 | 1.59 | 0.75 | 0.28 | – | 3.5 | 2.75 | 11.4 |
| 10 3V 560 Q | 5.6 | 5.55 | J-2 | Q2 | 2.63 | 0.84 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 13.8 |
| 10 3V 600 Q | 6 | 5.95 | J-2 | Q2 | 2.63 | 0.84 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 16.5 |
| 10 3V 650 Q | 6.5 | 6.45 | K-2 | Q2 | 2.63 | 0.80 | 0.75 | 0.28 | 0.80 | 3.5 | 2.75 | 20.4 |
| 10 3V 690 Q | 6.9 | 6.85 | K-2 | Q2 | 2.63 | 0.80 | 0.75 | 0.28 | 0.80 | 3.5 | 2.75 | 23.4 |
| 10 3V 800 R | 8 | 7.95 | K-2 | R1 | 3.75 | 1.17 | 0.88 | 0.28 | 1.17 | 2.88 | 2 | 26.0 |
| 10 3V 1060 R | 10.6 | 10.55 | K-3 | R1 | 3.75 | 1.17 | 0.88 | 0.28 | 1.17 | 2.88 | 2 | 28.4 |
| 10 3V 1400 R | 14 | 13.95 | K-3 | R1 | 3.75 | 1.17 | 0.88 | 0.28 | 1.17 | 2.88 | 2 | 42.3 |
| 10 3V 1900 R | 19 | 18.95 | K-3 | R1 | 3.75 | 1.17 | 0.88 | 0.28 | 1.17 | 2.88 | 2 | 54.0 |
| 10 3V 2500 S | 25 | 24.95 | J-3 | S1 | 4.25 | 0.52 | 1.06 | 0.38 | 0.52 | 4.38 | 3.31 | 103.0 |
| 10 3V 3350 S | 33.5 | 33.45 | J-3 | S1 | 4.25 | 0.52 | 1.06 | 0.38 | 0.52 | 4.38 | 3.31 | 138.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings  1 = Solid  2 = Web  3 = Spoked

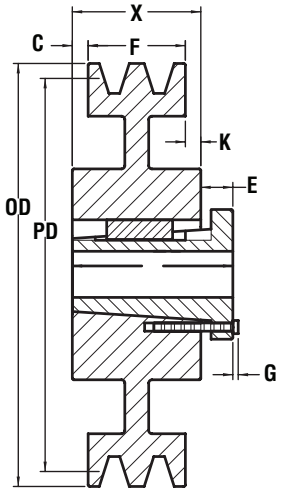
# Hi-Cap Wedge Stock MST® Sheaves 5V



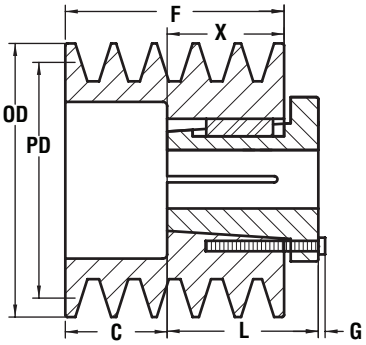

Type C




Type J




Type L




Type S

## 5V MST® Sheaves

| 2 Grooves<br>F = 1.6875 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD<br>5V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 2 5V 440 P | 4.4 | 4.3 | J-1 | P1 | 1.75 | 0.19 | 0.63 | 0.25 | – | 1.94 | 1.31 | 3.8 |
| 2 5V 460 Q | 4.6 | 4.5 | C-1 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 2.5 | 1.75 | 6.6 |
| 2 5V 490 Q | 4.9 | 4.8 | C-1 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 2.5 | 1.75 | 6.2 |
| 2 5V 520 Q | 5.2 | 5.1 | C-1 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 2.5 | 1.75 | 5.6 |
| 2 5V 550 Q | 5.5 | 5.4 | C-1 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 2.5 | 1.75 | 6.6 |
| 2 5V 590 Q | 5.9 | 5.8 | C-1 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 2.5 | 1.75 | 7.6 |
| 2 5V 630 Q | 6.3 | 6.2 | C-1 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 2.5 | 1.75 | 9.4 |
| 2 5V 670 Q | 6.7 | 6.6 | C-1 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 2.5 | 1.75 | 11.0 |
| 2 5V 710 Q | 7.1 | 7 | C-1 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 2.5 | 1.75 | 11.6 |
| 2 5V 750 Q | 7.5 | 7.4 | C-1 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 2.5 | 1.75 | 14.1 |
| 2 5V 800 Q | 8 | 7.9 | C-1 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 2.5 | 1.75 | 11.6 |
| 2 5V 850 Q | 8.5 | 8.4 | L-2 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 2.5 | 1.75 | 12.9 |
| 2 5V 900 Q | 9 | 8.9 | L-2 | Q1 | 2.69 | 0.03 | 0.75 | 0.28 | 0.03 | 2.5 | 1.75 | 16.3 |
| 2 5V 925 Q | 9.25 | 9.15 | L-2 | Q1 | 2.69 | 0.03 | 0.75 | 0.28 | 0.03 | 2.5 | 1.75 | 15.1 |
| 2 5V 975 Q | 9.75 | 9.65 | L-2 | Q1 | 2.69 | 0.03 | 0.75 | 0.28 | 0.03 | 2.5 | 1.75 | 16.1 |
| 2 5V 1030 Q | 10.3 | 10.2 | L-2 | Q1 | 2.69 | 0.03 | 0.75 | 0.28 | 0.03 | 2.5 | 1.75 | 18.8 |
| 2 5V 1090 Q | 10.9 | 10.8 | L-2 | Q1 | 2.69 | 0.03 | 0.75 | 0.28 | 0.03 | 2.5 | 1.75 | 19.3 |
| 2 5V 1180 Q | 11.8 | 11.7 | L-2 | Q1 | 2.69 | 0.03 | 0.75 | 0.28 | 0.03 | 2.5 | 1.75 | 21.4 |
| 2 5V 1250 Q | 12.5 | 12.4 | L-2 | Q1 | 2.69 | 0.03 | 0.75 | 0.28 | 0.03 | 2.5 | 1.75 | 23.8 |
| 2 5V 1320 Q | 13.2 | 13.1 | L-2 | Q1 | 2.69 | 0.03 | 0.75 | 0.28 | 0.03 | 2.5 | 1.75 | 25.5 |
| 2 5V 1400 R | 14 | 13.9 | L-3 | R1 | 3.75 | 0.16 | 0.88 | 0.28 | 0.16 | 2.88 | 2 | 27.6 |
| 2 5V 1500 R | 15 | 14.9 | L-3 | R1 | 3.75 | 0.16 | 0.88 | 0.28 | 0.16 | 2.88 | 2 | 30.9 |
| 2 5V 1600 R | 16 | 15.9 | L-3 | R1 | 3.75 | 0.16 | 0.88 | 0.28 | 0.16 | 2.88 | 2 | 33.3 |
| 2 5V 2120 R | 21.2 | 21.1 | L-3 | R1 | 3.75 | 0.16 | 0.88 | 0.28 | 0.16 | 2.88 | 2 | 47.5 |
| 2 5V 2800 R | 28 | 27.9 | L-3 | R1 | 3.75 | 0.16 | 0.88 | 0.28 | 0.16 | 2.88 | 2 | 71.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# 5V Hi-Cap Wedge Stock MST® Sheaves

## 5V MST® Sheaves

| 3 Grooves F = 2.375 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD 5V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 3 5V 440 P | 4.4 | 4.3 | S-1 | P1 | 1.75 | 0.53 | 0.63 | 0.25 | 0.53 | 1.94 | 1.31 | 3.1 |
| 3 5V 460 Q | 4.6 | 4.5 | S-1 | Q1 | 2.69 | 1.78 | 0.75 | 0.28 | 1.16 | 2.5 | 1.75 | 7.6 |
| 3 5V 490 Q | 4.9 | 4.8 | S-1 | Q1 | 2.69 | 0.63 | 0.75 | 0.28 | 0 | 2.5 | 1.75 | 7.3 |
| 3 5V 520 Q | 5.2 | 5.1 | J-1 | Q1 | 2.69 | 0.63 | 0.75 | 0.28 | 0 | 2.5 | 1.75 | 5.8 |
| 3 5V 550 Q | 5.5 | 5.4 | J-1 | Q1 | 2.69 | 0.63 | 0.75 | 0.28 | 0 | 2.5 | 1.75 | 7.5 |
| 3 5V 590 Q | 5.9 | 5.8 | J-1 | Q1 | 2.69 | 0.19 | 0.75 | 0.28 | 0.44 | 2.5 | 1.75 | 8.6 |
| 3 5V 630 Q | 6.3 | 6.2 | J-1 | Q1 | 2.69 | 0.19 | 0.75 | 0.28 | 0.44 | 2.5 | 1.75 | 10.3 |
| 3 5V 670 Q | 6.7 | 6.6 | J-2 | Q1 | 2.69 | 0.19 | 0.75 | 0.28 | 0.44 | 2.5 | 1.75 | 12.0 |
| 3 5V 710 Q | 7.1 | 7 | J-2 | Q1 | 2.69 | 0.19 | 0.75 | 0.28 | 0.44 | 2.5 | 1.75 | 13.9 |
| 3 5V 750 Q | 7.5 | 7.4 | J-2 | Q1 | 2.69 | 0.19 | 0.75 | 0.28 | 0.44 | 2.5 | 1.75 | 16.0 |
| 3 5V 800 R | 8 | 7.9 | J-1 | R1 | 3.75 | 0.19 | 0.88 | 0.28 | 0.19 | 2.88 | 2 | 17.2 |
| 3 5V 850 R | 8.5 | 8.4 | J-1 | R1 | 3.75 | 0.19 | 0.88 | 0.28 | 0.19 | 2.88 | 2 | 20.5 |
| 3 5V 900 R | 9 | 8.9 | J-1 | R1 | 3.75 | 0.19 | 0.88 | 0.28 | 0.19 | 2.88 | 2 | 22.2 |
| 3 5V 925 R | 9.25 | 9.15 | L-3 | R1 | 3.75 | 0.19 | 0.88 | 0.28 | 0.19 | 2.88 | 2 | 24.1 |
| 3 5V 975 R | 9.75 | 9.65 | L-3 | R1 | 3.75 | 0.19 | 0.88 | 0.28 | 0.19 | 2.88 | 2 | 24.8 |
| 3 5V 1030 R | 10.3 | 10.2 | J-2 | R1 | 3.75 | 0.19 | 0.88 | 0.28 | 0.19 | 2.88 | 2 | 26.4 |
| 3 5V 1090 R | 10.9 | 10.8 | J-3 | R1 | 3.75 | 0.19 | 0.88 | 0.28 | 0.19 | 2.88 | 2 | 28.0 |
| 3 5V 1180 R | 11.8 | 11.7 | J-3 | R1 | 3.75 | 0.19 | 0.88 | 0.28 | 0.19 | 2.88 | 2 | 31.9 |
| 3 5V 1250 R | 12.5 | 12.4 | J-3 | R1 | 3.75 | 0.19 | 0.88 | 0.28 | 0.19 | 2.88 | 2 | 35.1 |
| 3 5V 1320 R | 13.2 | 13.1 | J-3 | R1 | 3.75 | 0.19 | 0.88 | 0.28 | 0.19 | 2.88 | 2 | 29.0 |
| 3 5V 1400 R | 14 | 13.9 | J-3 | R1 | 3.75 | 0.19 | 0.88 | 0.28 | 0.19 | 2.88 | 2 | 32.3 |
| 3 5V 1500 R | 15 | 14.9 | J-3 | R1 | 3.75 | 0.19 | 0.88 | 0.28 | 0.19 | 2.88 | 2 | 35.0 |
| 3 5V 1600 R | 16 | 15.9 | J-3 | R1 | 3.75 | 0.19 | 0.88 | 0.28 | 0.19 | 2.88 | 2 | 38.7 |
| 3 5V 2120 R | 21.2 | 21.1 | J-3 | R1 | 3.75 | 0.19 | 0.88 | 0.28 | 0.19 | 2.88 | 2 | 52.0 |
| 3 5V 2800 R | 28 | 27.9 | J-3 | R1 | 3.75 | 0.19 | 0.88 | 0.28 | 0.19 | 2.88 | 2 | 80.0 |
| 3 5V 3750 S | 37.5 | 37.4 | L-3 | S1 | 4.25 | 0.19 | 1.06 | 0.38 | 1.13 | 4.38 | 3.31 | 147.0 |
| 3 5V 5000 U | 50 | 49.9 | L-3 | U0 | 5.5 | 0.69 | 1.19 | 0.47 | 2.06 | 4.94 | 3.75 | 216.0 |

| 4 Grooves F = 3.0625 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD 5V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 4 5V 440 P | 4.4 | 4.3 | S-1 | P1 | 1.75 | 0.88 | 0.63 | 0.25 | 0.87 | 1.94 | 1.31 | 3.2 |
| 4 5V 465 Q | 4.6 | 4.5 | S-1 | Q2 | 2.63 | 1.47 | 0.75 | 0.28 | 1.16 | 3.5 | 2.75 | 8.6 |
| 4 5V 490 Q | 4.9 | 4.8 | S-1 | Q1 | 2.69 | 1.31 | 0.75 | 0.28 | – | 2.5 | 1.75 | 8.5 |
| 4 5V 520 Q | 5.2 | 5.1 | J-1 | Q1 | 2.69 | 1.31 | 0.75 | 0.28 | – | 2.5 | 1.75 | 7.8 |
| 4 5V 550 Q | 5.5 | 5.4 | J-1 | Q1 | 2.69 | 1.31 | 0.75 | 0.28 | – | 2.5 | 1.75 | 8.3 |
| 4 5V 590 Q | 5.9 | 5.8 | J-1 | Q1 | 2.69 | 0.56 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 10.1 |
| 4 5V 630 Q | 6.3 | 6.2 | J-2 | Q1 | 2.69 | 0.56 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 11.8 |
| 4 5V 670 Q | 6.7 | 6.6 | J-2 | Q1 | 2.69 | 0.56 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 13.6 |
| 4 5V 710 Q | 7.1 | 7 | J-2 | Q1 | 2.69 | 0.56 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 15.9 |
| 4 5V 750 Q | 7.5 | 7.4 | J-2 | Q1 | 2.69 | 0.56 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 18.4 |
| 4 5V 800 R | 8 | 7.9 | J-1 | R1 | 3.75 | 0.53 | 0.88 | 0.28 | 0.53 | 2.88 | 2 | 19.4 |
| 4 5V 850 R | 8.5 | 8.4 | J-1 | R1 | 3.75 | 0.53 | 0.88 | 0.28 | 0.53 | 2.88 | 2 | 22.8 |
| 4 5V 900 R | 9 | 8.9 | J-2 | R1 | 3.75 | 0.53 | 0.88 | 0.28 | 0.53 | 2.88 | 2 | 24.5 |
| 4 5V 925 R | 9.25 | 9.15 | J-2 | R1 | 3.75 | 0.53 | 0.88 | 0.28 | 0.53 | 2.88 | 2 | 26.6 |
| 4 5V 975 R | 9.75 | 9.65 | J-2 | R1 | 3.75 | 0.53 | 0.88 | 0.28 | 0.53 | 2.88 | 2 | 28.0 |
| 4 5V 1030 R | 10.3 | 10.2 | J-2 | R1 | 3.75 | 0.53 | 0.88 | 0.28 | 0.53 | 2.88 | 2 | 30.8 |
| 4 5V 1090 R | 10.9 | 10.8 | J-2 | R1 | 3.75 | 0.53 | 0.88 | 0.28 | 0.53 | 2.88 | 2 | 31.7 |
| 4 5V 1180 R | 11.8 | 11.7 | J-3 | R1 | 3.75 | 0.53 | 0.88 | 0.28 | 0.53 | 2.88 | 2 | 35.3 |
| 4 5V 1250 R | 12.5 | 12.4 | J-3 | R1 | 3.75 | 0.53 | 0.88 | 0.28 | 0.53 | 2.88 | 2 | 37.9 |
| 4 5V 1320 R | 13.2 | 13.1 | J-3 | R1 | 3.75 | 0.53 | 0.88 | 0.28 | 0.53 | 2.88 | 2 | 33.3 |
| 4 5V 1400 R | 14 | 13.9 | J-3 | R1 | 3.75 | 0.53 | 0.88 | 0.28 | 0.53 | 2.88 | 2 | 36.5 |
| 4 5V 1500 R | 15 | 14.9 | J-3 | R1 | 3.75 | 0.53 | 0.88 | 0.28 | 0.53 | 2.88 | 2 | 40.9 |
| 4 5V 1600 R | 16 | 15.9 | J-3 | R1 | 3.75 | 0.53 | 0.88 | 0.28 | 0.53 | 2.88 | 2 | 43.3 |
| 4 5V 2120 R | 21.2 | 21.1 | J-3 | R1 | 3.75 | 0.53 | 0.88 | 0.28 | 0.53 | 2.88 | 2 | 59.0 |
| 4 5V 2800 S | 28 | 27.9 | L-3 | S1 | 4.25 | 0.13 | 1.06 | 0.38 | 0.38 | 4.38 | 3.31 | 135.0 |
| 4 5V 3750 S | 37.5 | 37.4 | L-3 | S1 | 4.25 | 0.13 | 1.06 | 0.38 | 0.38 | 4.38 | 3.31 | 157.0 |
| 4 5V 5000 Q | 50 | 49.9 | L-3 | Q1 | 2.69 | 0.34 | 0.75 | 0.28 | 0.97 | 2.5 | 1.75 | 239.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# Hi-Cap Wedge Stock MST® Sheaves 5V

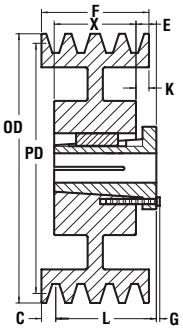
## 5V MST® Sheaves

| 5 Grooves F = 3.75 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD 5V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 5 5V 465 Q | 4.6 | 4.5 | S-1 | Q2 | 2.63 | 2.31 | 0.75 | 0.28 | 1.31 | 3.5 | 2.75 | 8.9 |
| 5 5V 490 Q | 4.9 | 4.8 | S-1 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 0 | 3.5 | 2.75 | 9.2 |
| 5 5V 520 Q | 5.2 | 5.1 | J-1 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 0 | 3.5 | 2.75 | 9.0 |
| 5 5V 550 Q | 5.5 | 5.4 | J-1 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 0 | 3.5 | 2.75 | 10.8 |
| 5 5V 590 Q | 5.9 | 5.8 | J-1 | Q2 | 2.63 | 0.25 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 13.2 |
| 5 5V 630 Q | 6.3 | 6.2 | J-2 | Q2 | 2.63 | 0.25 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 15.9 |
| 5 5V 670 Q | 6.7 | 6.6 | J-2 | Q2 | 2.63 | 0.25 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 18.6 |
| 5 5V 710 Q | 7.1 | 7 | K-1 | Q2 | 2.63 | 0.25 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 22.0 |
| 5 5V 750 Q | 7.5 | 7.4 | K-1 | Q2 | 2.63 | 0.25 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 25.0 |
| 5 5V 800 R | 8 | 7.9 | K-1 | R1 | 3.75 | 0.88 | 0.88 | 0.28 | 0.88 | 2.88 | 2 | 21.7 |
| 5 5V 850 R | 8.5 | 8.4 | J-1 | R1 | 3.75 | 0.88 | 0.88 | 0.28 | 0.88 | 2.88 | 2 | 25.1 |
| 5 5V 900 R | 9 | 8.9 | J-1 | R1 | 3.75 | 0.88 | 0.88 | 0.28 | 0.88 | 2.88 | 2 | 25.4 |
| 5 5V 925 R | 9.25 | 9.15 | J-3 | R1 | 3.75 | 0.88 | 0.88 | 0.28 | 0.88 | 2.88 | 2 | 28.4 |
| 5 5V 975 R | 9.75 | 9.65 | J-3 | R1 | 3.75 | 0.88 | 0.88 | 0.28 | 0.88 | 2.88 | 2 | 31.8 |
| 5 5V 1030 R | 10.3 | 10.2 | J-2 | R1 | 3.75 | 0.88 | 0.88 | 0.28 | 0.88 | 2.88 | 2 | 32.5 |
| 5 5V 1090 R | 10.9 | 10.8 | K-2 | R1 | 3.75 | 0.88 | 0.88 | 0.28 | 0.88 | 2.88 | 2 | 35.1 |
| 5 5V 1180 R | 11.8 | 11.7 | J-2 | R1 | 3.75 | 0.88 | 0.88 | 0.28 | 0.88 | 2.88 | 2 | 38.8 |
| 5 5V 1250 R | 12.5 | 12.4 | J-2 | R1 | 3.75 | 0.88 | 0.88 | 0.28 | 0.88 | 2.88 | 2 | 41.8 |
| 5 5V 1320 R | 13.2 | 13.1 | K-3 | R1 | 3.75 | 0.88 | 0.88 | 0.28 | 0.88 | 2.88 | 2 | 37.1 |
| 5 5V 1400 R | 14 | 13.9 | K-3 | R1 | 3.75 | 0.88 | 0.88 | 0.28 | 0.88 | 2.88 | 2 | 41.6 |
| 5 5V 1500 R | 15 | 14.9 | K-3 | R1 | 3.75 | 0.88 | 0.88 | 0.28 | 0.88 | 2.88 | 2 | 45.0 |
| 5 5V 1600 R | 16 | 15.9 | K-3 | R1 | 3.75 | 0.88 | 0.88 | 0.28 | 0.88 | 2.88 | 2 | 48.0 |
| 5 5V 2120 S | 21.2 | 21.1 | J-3 | S1 | 4.25 | 0.22 | 1.06 | 0.38 | 0.22 | 4.38 | 3.31 | 90.0 |
| 5 5V 2500 S | 25 | 24.9 | J-3 | S1 | 4.25 | 0.22 | 1.06 | 0.38 | 0.22 | 4.38 | 3.31 | 105.0 |
| 5 5V 2800 S | 28 | 27.9 | J-3 | S1 | 4.25 | 0.22 | 1.06 | 0.38 | 0.22 | 4.38 | 3.31 | 120.0 |
| 5 5V 3750 U | 37.5 | 37.4 | K-2 | U0 | 5.5 | 0 | 1.19 | 0.47 | 0 | 4.94 | 3.75 | 185.0 |
| 5 5V 5000 U | 50 | 49.9 | J-1 | U0 | 5.5 | 0 | 1.19 | 0.47 | 0 | 4.94 | 3.75 | 244.0 |

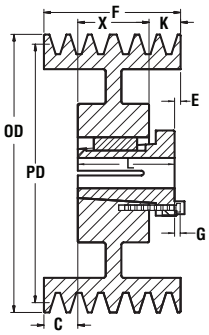
| 6 Grooves F = 4.4375 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD 5V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 6 5V 710 Q | 7.1 | 7 | J-2 | Q2 | 2.63 | 0.44 | 0.28 | 0.75 | 1.25 | 3.5 | 2.75 | 23.6 |
| 6 5V 750 Q | 7.5 | 7.4 | J-2 | Q2 | 2.63 | 0.44 | 0.28 | 0.75 | 1.25 | 3.5 | 2.75 | 27.3 |
| 6 5V 800 R | 8 | 7.9 | K-2 | R1 | 3.75 | 1.22 | 0.28 | 0.88 | 1.22 | 2.88 | 2 | 23.3 |
| 6 5V 850 R | 8.5 | 8.4 | K-2 | R1 | 3.75 | 1.22 | 0.28 | 0.88 | 1.22 | 2.88 | 2 | 27.3 |
| 6 5V 900 R | 9 | 8.9 | K-2 | R1 | 3.75 | 1.22 | 0.28 | 0.88 | 1.22 | 2.88 | 2 | 28.8 |
| 6 5V 925 R | 9.25 | 9.15 | J-1 | R1 | 3.75 | 1.22 | 0.28 | 0.88 | 1.22 | 2.88 | 2 | 31.1 |
| 6 5V 975 R | 9.75 | 9.65 | J-3 | R1 | 3.75 | 1.22 | 0.28 | 0.88 | 1.22 | 2.88 | 2 | 34.5 |
| 6 5V 1030 R | 10.3 | 10.2 | K-2 | R1 | 3.75 | 1.22 | 0.28 | 0.88 | 1.22 | 2.88 | 2 | 36.8 |
| 6 5V 1090 R | 10.9 | 10.8 | J-1 | R1 | 3.75 | 1.22 | 0.28 | 0.88 | 1.22 | 2.88 | 2 | 39.6 |
| 6 5V 1180 R | 11.8 | 11.7 | J-1 | R1 | 3.75 | 1.22 | 0.28 | 0.88 | 1.22 | 2.88 | 2 | 42.5 |
| 6 5V 1250 S | 12.5 | 12.4 | J-3 | S1 | 4.25 | 0.56 | 0.38 | 1.06 | 0.56 | 4.38 | 3.31 | 65.0 |
| 6 5V 1320 S | 13.2 | 13.1 | J-3 | S1 | 4.25 | 0.56 | 0.38 | 1.06 | 0.56 | 4.38 | 3.31 | 71.0 |
| 6 5V 1400 S | 14 | 13.9 | J-2 | S1 | 4.25 | 0.56 | 0.38 | 1.06 | 0.56 | 4.38 | 3.31 | 70.0 |
| 6 5V 1500 S | 15 | 14.9 | J-3 | S1 | 4.25 | 0.56 | 0.38 | 1.06 | 0.56 | 4.38 | 3.31 | 69.0 |
| 6 5V 1600 S | 16 | 15.9 | J-3 | S1 | 4.25 | 0.56 | 0.38 | 1.06 | 0.56 | 4.38 | 3.31 | 79.0 |
| 6 5V 2120 S | 21.2 | 21.1 | J-3 | S1 | 4.25 | 0.56 | 0.38 | 1.06 | 0.56 | 4.38 | 3.31 | 97.0 |
| 6 5V 2500 S | 25 | 24.9 | J-3 | S1 | 4.25 | 0.56 | 0.38 | 1.06 | 0.56 | 4.38 | 3.31 | 113.0 |
| 6 5V 2800 S | 28 | 27.9 | J-3 | S1 | 4.25 | 0.56 | 0.38 | 1.06 | 0.56 | 4.38 | 3.31 | 128.0 |
| 6 5V 3750 U | 37.5 | 37.4 | K-2 | U0 | 5.5 | 0.34 | 0.47 | 1.19 | 0.34 | 4.94 | 3.75 | 206.0 |
| 6 5V 5000 U | 50 | 49.9 | K-2 | U0 | 5.5 | 0.34 | 0.47 | 1.19 | 0.34 | 4.94 | 3.75 | 271.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# 5V Hi-Cap Wedge Stock MST® Sheaves




Type J




Type K

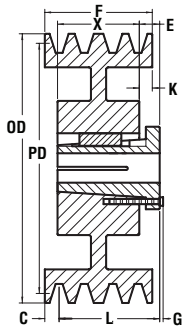
## 5V MST® Sheaves

| 8 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 5.8125 | | | | | | | | | | | | |
| Part Number | OD | PD 5V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 8 5V 710 Q | 7.1 | 7 | K-2 | Q2 | 2.63 | 1.31 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 28.0 |
| 8 5V 750 Q | 7.5 | 7.4 | K-2 | Q2 | 2.63 | 1.31 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 32.0 |
| 8 5V 800 R | 8 | 7.9 | K-2 | R2 | 3.63 | 0.91 | 0.88 | 0.28 | 0.91 | 4.88 | 4 | 45.3 |
| 8 5V 850 R | 8.5 | 8.4 | K-2 | R2 | 3.63 | 0.91 | 0.88 | 0.28 | 0.91 | 4.88 | 4 | 45.5 |
| 8 5V 900 R | 9 | 8.9 | K-2 | R2 | 3.63 | 0.91 | 0.88 | 0.28 | 0.91 | 4.88 | 4 | 50.0 |
| 8 5V 925 S | 9.25 | 9.15 | K-2 | S1 | 4.25 | 1.25 | 1.06 | 0.38 | 1.25 | 4.38 | 3.31 | 47.3 |
| 8 5V 975 S | 9.75 | 9.65 | K-2 | S1 | 4.25 | 1.25 | 1.06 | 0.38 | 1.25 | 4.38 | 3.31 | 50.0 |
| 8 5V 1030 S | 10.3 | 10.2 | K-2 | S1 | 4.25 | 1.25 | 1.06 | 0.38 | 1.25 | 4.38 | 3.31 | 63.0 |
| 8 5V 1090 S | 10.9 | 10.8 | K-2 | S1 | 4.25 | 1.25 | 1.06 | 0.38 | 1.25 | 4.38 | 3.31 | 71.0 |
| 8 5V 1180 S | 11.8 | 11.7 | K-2 | S1 | 4.25 | 1.25 | 1.06 | 0.38 | 1.25 | 4.38 | 3.31 | 85.0 |
| 8 5V 1250 S | 12.5 | 12.4 | K-3 | S1 | 4.25 | 1.25 | 1.06 | 0.38 | 1.25 | 4.38 | 3.31 | 76.0 |
| 8 5V 1320 S | 13.2 | 13.1 | K-3 | S1 | 4.25 | 1.25 | 1.06 | 0.38 | 1.25 | 4.38 | 3.31 | 79.0 |
| 8 5V 1400 S | 14 | 13.9 | K-3 | S1 | 4.25 | 1.25 | 1.06 | 0.38 | 1.25 | 4.38 | 3.31 | 77.0 |
| 8 5V 1500 S | 15 | 14.9 | K-3 | S1 | 4.25 | 1.25 | 1.06 | 0.38 | 1.25 | 4.38 | 3.31 | 83.0 |
| 8 5V 1600 S | 16 | 15.9 | K-3 | S1 | 4.25 | 1.25 | 1.06 | 0.38 | 1.25 | 4.38 | 3.31 | 90.0 |
| 8 5V 2120 U | 21.2 | 21.1 | J-3 | U1 | 5.5 | 0.09 | 1.5 | 0.47 | 0.09 | 7.13 | 5.63 | 175.0 |
| 8 5V 2500 U | 25 | 24.9 | J-3 | U1 | 5.5 | 0.09 | 1.5 | 0.47 | 0.09 | 7.13 | 5.63 | 190.0 |
| 8 5V 2800 U | 28 | 27.9 | J-3 | U1 | 5.5 | 0.09 | 1.5 | 0.47 | 0.09 | 7.13 | 5.63 | 222.0 |
| 8 5V 3750 U | 37.5 | 37.4 | J-3 | U1 | 5.5 | 0.09 | 1.5 | 0.47 | 0.09 | 7.13 | 5.63 | 264.0 |
| 8 5V 5000 U | 50 | 49.9 | J-3 | U1 | 5.5 | 0.09 | 1.5 | 0.47 | 0.09 | 7.13 | 5.63 | 393.0 |

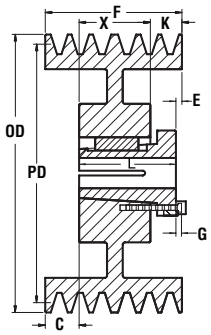
| 10 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 7.3125 | | | | | | | | | | | | |
| Part Number | OD | PD 5V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 10 5V 800 R | 8 | 7.9 | K-2 | R2 | 3.63 | 1.59 | 0.88 | 0.28 | 1.59 | 4.88 | 4 | 43.8 |
| 10 5V 850 R | 8.5 | 8.4 | K-2 | R2 | 3.63 | 1.59 | 0.88 | 0.28 | 1.59 | 4.88 | 4 | 53.0 |
| 10 5V 900 R | 9 | 8.9 | K-2 | R2 | 3.63 | 1.59 | 0.88 | 0.28 | 1.59 | 4.88 | 4 | 59.0 |
| 10 5V 925 S | 9.25 | 9.15 | K-2 | S1 | 4.25 | 1.94 | 1.06 | 0.38 | 1.94 | 4.38 | 3.31 | 53.0 |
| 10 5V 975 S | 9.75 | 9.65 | K-2 | S1 | 4.25 | 1.94 | 1.06 | 0.38 | 1.94 | 4.38 | 3.31 | 60.0 |
| 10 5V 1030 S | 10.3 | 10.2 | K-2 | S1 | 4.25 | 1.94 | 1.06 | 0.38 | 1.94 | 4.38 | 3.31 | 69.0 |
| 10 5V 1090 S | 10.9 | 10.8 | K-2 | S1 | 4.25 | 1.94 | 1.06 | 0.38 | 1.94 | 4.38 | 3.31 | 78.0 |
| 10 5V 1180 S | 11.8 | 11.7 | J-2 | S1 | 4.25 | 1.94 | 1.06 | 0.38 | 1.94 | 4.38 | 3.31 | 93.0 |
| 10 5V 1250 U | 12.5 | 12.4 | J-2 | U1 | 5.5 | 0.78 | 1.5 | 0.47 | 0.78 | 7.13 | 5.63 | 132.0 |
| 10 5V 1320 U | 13.2 | 13.1 | J-2 | U1 | 5.5 | 0.78 | 1.5 | 0.47 | 0.78 | 7.13 | 5.63 | 151.0 |
| 10 5V 1400 U | 14 | 13.9 | J-2 | U1 | 5.5 | 0.78 | 1.5 | 0.47 | 0.78 | 7.13 | 5.63 | 177.0 |
| 10 5V 1500 U | 15 | 14.9 | J-2 | U1 | 5.5 | 0.78 | 1.5 | 0.47 | 0.78 | 7.13 | 5.63 | 164.0 |
| 10 5V 1600 U | 16 | 15.9 | J-3 | U1 | 5.5 | 0.78 | 1.5 | 0.47 | 0.78 | 7.13 | 5.63 | 138.0 |
| 10 5V 2120 U | 21.2 | 21.1 | J-3 | U1 | 5.5 | 0.78 | 1.5 | 0.47 | 0.78 | 7.13 | 5.63 | 188.0 |
| 10 5V 2500 U | 25 | 24.9 | J-3 | U1 | 5.5 | 0.78 | 1.5 | 0.47 | 0.78 | 7.13 | 5.63 | 213.0 |
| 10 5V 2800 U | 28 | 27.9 | J-3 | U1 | 5.5 | 0.78 | 1.5 | 0.47 | 0.78 | 7.13 | 5.63 | 238.0 |
| 10 5V 3750 U | 37.5 | 37.4 | J-3 | U1 | 5.5 | 0.78 | 1.5 | 0.47 | 0.78 | 7.13 | 5.63 | 293.0 |
| 10 5V 5000 U | 50 | 49.9 | J-3 | U1 | 5.5 | 0.78 | 1.5 | 0.47 | 0.78 | 7.13 | 5.63 | 428.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# Hi-Cap Wedge Stock MST® Sheaves 8V




Type J




Type K

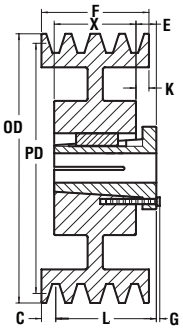
## 8V MST® Sheaves

| 4 Grooves F = 4.875 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD 8V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 4 8V 1250 S | 12.5 | 12.3 | K-2 | S1 | 4.25 | – | 1.06 | 0.38 | 1.56 | 4.38 | 3.31 | 94.0 |
| 4 8V 1320 S | 13.2 | 13 | K-2 | S1 | 4.25 | – | 1.06 | 0.38 | 1.56 | 4.38 | 3.31 | 99.0 |
| 4 8V 1400 S | 14 | 13.8 | K-2 | S1 | 4.25 | – | 1.06 | 0.38 | 1.56 | 4.38 | 3.31 | 114.0 |
| 4 8V 1500 S | 15 | 14.8 | K-2 | S1 | 4.25 | – | 1.06 | 0.38 | 1.56 | 4.38 | 3.31 | 107.0 |
| 4 8V 1600 S | 16 | 15.8 | K-2 | S1 | 4.25 | – | 1.06 | 0.38 | 1.56 | 4.38 | 3.31 | 113.0 |
| 4 8V 1700 S | 17 | 16.8 | K-2 | S1 | 4.25 | – | 1.06 | 0.38 | 1.56 | 4.38 | 3.31 | 115.0 |
| 4 8V 1800 S | 18 | 17.8 | K-2 | S1 | 4.25 | – | 1.06 | 0.38 | 1.56 | 4.38 | 3.31 | 123.0 |
| 4 8V 1900 S | 19 | 18.8 | K-2 | S1 | 4.25 | – | 1.06 | 0.38 | 1.56 | 4.38 | 3.31 | 132.0 |
| 4 8V 2000 S | 20 | 19.8 | K-2 | S1 | 4.25 | – | 1.06 | 0.38 | 1.56 | 4.38 | 3.31 | 147.0 |
| 4 8V 2120 S | 21.2 | 21 | K-2 | S1 | 4.25 | – | 1.06 | 0.38 | 1.56 | 4.38 | 3.31 | 159.0 |
| 4 8V 2240 U | 22.4 | 22.2 | J-3 | U0 | 5.5 | 0.56 | 1.19 | 0.47 | 0.56 | 4.94 | 3.75 | 159.0 |
| 4 8V 3000 U | 30 | 29.8 | J-3 | U0 | 5.5 | 0.56 | 1.19 | 0.47 | 0.56 | 4.94 | 3.75 | 218.0 |
| 4 8V 4000 U | 40 | 39.8 | J-3 | U0 | 5.5 | 0.56 | 1.19 | 0.47 | 0.56 | 4.94 | 3.75 | 296.0 |
| 4 8V 4800 U | 48 | 47.8 | J-3 | U0 | 5.5 | 0.56 | 1.19 | 0.47 | 0.56 | 4.94 | 3.75 | 405.0 |
| 4 8V 5300 U | 53 | 52.8 | J-3 | U0 | 5.5 | 0.56 | 1.19 | 0.47 | 0.56 | 4.94 | 3.75 | 450.0 |
| 4 8V 5800 U | 58 | 57.8 | J-3 | U0 | 5.5 | 0.56 | 1.19 | 0.47 | 0.56 | 4.94 | 3.75 | 495.0 |
| 4 8V 6400 U | 64 | 63.8 | J-3 | U0 | 5.5 | 0.56 | 1.19 | 0.47 | 0.56 | 4.94 | 3.75 | 520.0 |

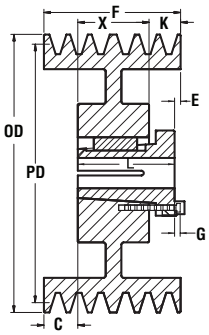
| 5 Grooves F = 6 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD 8V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 5 8V 1250 S | 12.5 | 12.3 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 1.94 | 4.38 | 3.31 | 100.0 |
| 5 8V 1320 S | 13.2 | 13 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 1.94 | 4.38 | 3.31 | 109.0 |
| 5 8V 1400 S | 14 | 13.8 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 1.94 | 4.38 | 3.31 | 127.0 |
| 5 8V 1500 S | 15 | 14.8 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 1.94 | 4.38 | 3.31 | 120.0 |
| 5 8V 1600 S | 16 | 15.8 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 1.94 | 4.38 | 3.31 | 121.0 |
| 5 8V 1700 S | 17 | 16.8 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 1.94 | 4.38 | 3.31 | 133.0 |
| 5 8V 1800 S | 18 | 17.8 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 1.94 | 4.38 | 3.31 | 140.0 |
| 5 8V 1900 S | 19 | 18.8 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 1.94 | 4.38 | 3.31 | 158.0 |
| 5 8V 2000 S | 20 | 19.8 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 1.94 | 4.38 | 3.31 | 166.0 |
| 5 8V 2120 S | 21.2 | 21 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 1.94 | 4.38 | 3.31 | 174.0 |
| 5 8V 2240 U | 22.4 | 22.2 | J-3 | U0 | 5.5 | 1.13 | 1.19 | 0.47 | 1.13 | 4.94 | 3.75 | 157.0 |
| 5 8V 3000 U | 30 | 29.8 | J-3 | U0 | 5.5 | 1.13 | 1.19 | 0.47 | 1.13 | 4.94 | 3.75 | 243.0 |
| 5 8V 4000 U | 40 | 39.8 | J-3 | U0 | 5.5 | 1.13 | 1.19 | 0.47 | 1.13 | 4.94 | 3.75 | 325.0 |
| 5 8V 4800 U | 48 | 47.8 | J-3 | U0 | 5.5 | 1.13 | 1.19 | 0.47 | 1.13 | 4.94 | 3.75 | 440.0 |
| 5 8V 5300 U | 53 | 52.8 | J-3 | U0 | 5.5 | 1.13 | 1.19 | 0.47 | 1.13 | 4.94 | 3.75 | 480.0 |
| 5 8V 5800 U | 58 | 57.8 | J-3 | U0 | 5.5 | 1.13 | 1.19 | 0.47 | 1.13 | 4.94 | 3.75 | 525.0 |
| 5 8V 6400 U | 64 | 63.8 | J-3 | U0 | 5.5 | 1.13 | 1.19 | 0.47 | 1.13 | 4.94 | 3.75 | 555.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# 8V Hi-Cap Wedge Stock MST® Sheaves




Type J




Type K

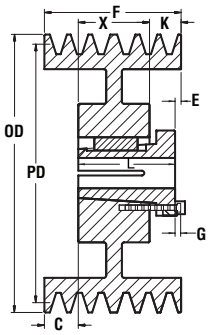
## 8V MST® Sheaves

| 6 Grooves F = 7.125 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD 8V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 6 8V 1250 S | 12.5 | 12.3 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 3.06 | 4.38 | 3.31 | 109.0 |
| 6 8V 1320 S | 13.2 | 13 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 3.06 | 4.38 | 3.31 | 119.0 |
| 6 8V 1400 S | 14 | 13.8 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 3.06 | 4.38 | 3.31 | 135.0 |
| 6 8V 1500 S | 15 | 14.8 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 3.06 | 4.38 | 3.31 | 129.0 |
| 6 8V 1600 S | 16 | 15.8 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 3.06 | 4.38 | 3.31 | 133.0 |
| 6 8V 1700 S | 17 | 16.8 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 3.06 | 4.38 | 3.31 | 147.0 |
| 6 8V 1800 S | 18 | 17.8 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 3.06 | 4.38 | 3.31 | 154.0 |
| 6 8V 1900 S | 19 | 18.8 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 3.06 | 4.38 | 3.31 | 167.0 |
| 6 8V 2000 S | 20 | 19.8 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 3.06 | 4.38 | 3.31 | 178.0 |
| 6 8V 2120 S | 21.2 | 21 | K-2 | S1 | 4.25 | 0.75 | 1.06 | 0.38 | 3.06 | 4.38 | 3.31 | 186.0 |
| 6 8V 2240 U | 22.4 | 22.2 | K-3 | U0 | 5.5 | 1.69 | 1.19 | 0.47 | 1.69 | 4.94 | 3.75 | 195.0 |
| 6 8V 3000 U | 30 | 29.8 | K-3 | U0 | 5.5 | 1.69 | 1.19 | 0.47 | 1.69 | 4.94 | 3.75 | 263.0 |
| 6 8V 4000 U | 40 | 39.8 | K-3 | U0 | 5.5 | 1.69 | 1.19 | 0.47 | 1.69 | 4.94 | 3.75 | 363.0 |
| 6 8V 4800 U | 48 | 47.8 | K-3 | U0 | 5.5 | 1.69 | 1.19 | 0.47 | 1.69 | 4.94 | 3.75 | 478.0 |
| 6 8V 5300 U | 53 | 52.8 | K-3 | U0 | 5.5 | 1.69 | 1.19 | 0.47 | 1.69 | 4.94 | 3.75 | 510.0 |
| 6 8V 5800 U | 58 | 57.8 | K-3 | U0 | 5.5 | 1.69 | 1.19 | 0.47 | 1.69 | 4.94 | 3.75 | 555.0 |
| 6 8V 6400 U | 64 | 63.8 | K-3 | U0 | 5.5 | 1.69 | 1.19 | 0.47 | 1.69 | 4.94 | 3.75 | 585.0 |

| 8 Grooves F = 9.375 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD 8V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 8 8V 1250 S | 12.5 | 12.3 | K-3 | S2 | 4.19 | 0.75 | 1.06 | 0.38 | 2.94 | 6.75 | 5.69 | 140.0 |
| 8 8V 1320 S | 13.2 | 13 | K-2 | S2 | 4.19 | 0.75 | 1.06 | 0.38 | 2.94 | 6.75 | 5.69 | 176.0 |
| 8 8V 1400 S | 14 | 13.8 | K-2 | S2 | 4.19 | 0.75 | 1.06 | 0.38 | 2.94 | 6.75 | 5.69 | 205.0 |
| 8 8V 1500 S | 15 | 14.8 | K-2 | S2 | 4.19 | 0.75 | 1.06 | 0.38 | 2.94 | 6.75 | 5.69 | 186.0 |
| 8 8V 1600 S | 16 | 15.8 | K-2 | S2 | 4.19 | 0.75 | 1.06 | 0.38 | 2.94 | 6.75 | 5.69 | 210.0 |
| 8 8V 1700 U | 17 | 16.8 | K-3 | U1 | 5.5 | 1 | 1.5 | 0.47 | 2.75 | 7.13 | 5.63 | 248.0 |
| 8 8V 1800 U | 18 | 17.8 | K-2 | U1 | 5.5 | 1 | 1.5 | 0.47 | 2.75 | 7.13 | 5.63 | 249.0 |
| 8 8V 1900 U | 19 | 18.8 | K-2 | U1 | 5.5 | 1 | 1.5 | 0.47 | 2.75 | 7.13 | 5.63 | 235.0 |
| 8 8V 2000 U | 20 | 19.8 | K-2 | U1 | 5.5 | 1 | 1.5 | 0.47 | 2.75 | 7.13 | 5.63 | 251.0 |
| 8 8V 2120 U | 21.2 | 21 | K-2 | U1 | 5.5 | 1 | 1.5 | 0.47 | 2.75 | 7.13 | 5.63 | 268.0 |
| 8 8V 2240 U | 22.4 | 22.2 | K-2 | U1 | 5.5 | 1.88 | 1.5 | 0.47 | 1.88 | 7.13 | 5.63 | 253.0 |
| 8 8V 3000 U | 30 | 29.8 | K-3 | U1 | 5.5 | 1.88 | 1.5 | 0.47 | 1.88 | 7.13 | 5.63 | 358.0 |
| 8 8V 4000 W | 40 | 39.8 | K-3 | W1 | 7.44 | 1.5 | 1.88 | 0.56 | 1.5 | 1.44 | 6.38 | 567.0 |
| 8 8V 4800 W | 48 | 47.8 | J-3 | W1 | 7.44 | 1.5 | 1.88 | 0.56 | 1.5 | 1.44 | 6.38 | 715.0 |
| 8 8V 5300 W | 53 | 52.8 | J-3 | W1 | 7.44 | 1.5 | 1.88 | 0.56 | 1.5 | 1.44 | 6.38 | 762.0 |
| 8 8V 5800 W | 58 | 57.8 | J-3 | W1 | 7.44 | 1.5 | 1.88 | 0.56 | 1.5 | 1.44 | 6.38 | 914.0 |
| 8 8V 6400 W | 64 | 63.8 | J-3 | W1 | 7.44 | 1.5 | 1.88 | 0.56 | 1.5 | 1.44 | 6.38 | 970.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# Hi-Cap Wedge Stock MST® Sheaves 8V




Type K

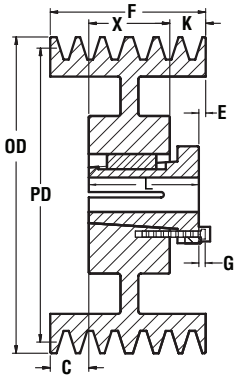
## 8V MST® Sheaves

| 10 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 11.625 | | | | | | | | | | | | |
| Part Number | OD | PD 8V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 10 8V 1250 U | 12.5 | 12.3 | K-2 | U1 | 5.5 | 1 | 1.5 | 0.47 | 5 | 7.13 | 5.63 | 156.0 |
| 10 8V 1320 U | 13.2 | 13 | K-2 | U1 | 5.5 | 1 | 1.5 | 0.47 | 5 | 7.13 | 5.63 | 182.0 |
| 10 8V 1400 U | 14 | 13.8 | K-2 | U1 | 5.5 | 1 | 1.5 | 0.47 | 5 | 7.13 | 5.63 | 207.0 |
| 10 8V 1500 U | 15 | 14.8 | K-2 | U1 | 5.5 | 1 | 1.5 | 0.47 | 5 | 7.13 | 5.63 | 240.0 |
| 10 8V 1600 U | 16 | 15.8 | K-2 | U1 | 5.5 | 1 | 1.5 | 0.47 | 5 | 7.13 | 5.63 | 283.0 |
| 10 8V 1700 U | 17 | 16.8 | K-2 | U1 | 5.5 | 1 | 1.5 | 0.47 | 5 | 7.13 | 5.63 | 274.0 |
| 10 8V 1800 U | 18 | 17.8 | K-2 | U1 | 5.5 | 1 | 1.5 | 0.47 | 5 | 7.13 | 5.63 | 282.0 |
| 10 8V 1900 U | 19 | 18.8 | K-2 | U1 | 5.5 | 1 | 1.5 | 0.47 | 5 | 7.13 | 5.63 | 264.0 |
| 10 8V 2000 U | 20 | 19.8 | K-2 | U1 | 5.5 | 1 | 1.5 | 0.47 | 5 | 7.13 | 5.63 | 279.0 |
| 10 8V 2120 U | 21.2 | 21 | K-2 | U1 | 5.5 | 1 | 1.5 | 0.47 | 5 | 7.13 | 5.63 | 296.0 |
| 10 8V 2240 U | 22.4 | 22.2 | K-3 | U1 | 5.5 | 3 | 1.5 | 0.47 | 3 | 7.13 | 5.63 | 309.0 |
| 10 8V 3000 U | 30 | 29.8 | K-3 | U1 | 5.5 | 3 | 1.5 | 0.47 | 3 | 7.13 | 5.63 | 410.0 |
| 10 8V 4000 W | 40 | 39.8 | K-3 | W1 | 7.44 | 2.63 | 1.88 | 0.56 | 2.63 | 1.44 | 6.38 | 625.0 |
| 10 8V 4800 W | 48 | 47.8 | K-3 | W1 | 7.44 | 2.63 | 1.88 | 0.56 | 2.63 | 1.44 | 6.38 | 811.0 |
| 10 8V 5300 W | 53 | 52.8 | K-3 | W1 | 7.44 | 2.63 | 1.88 | 0.56 | 2.63 | 1.44 | 6.38 | 955.0 |
| 10 8V 5800 W | 58 | 57.8 | K-3 | W1 | 7.44 | 2.63 | 1.88 | 0.56 | 2.63 | 1.44 | 6.38 | 1060.0 |
| 10 8V 6400 W | 64 | 63.8 | K-3 | W1 | 7.44 | 2.63 | 1.88 | 0.56 | 2.63 | 1.44 | 6.38 | 1170.0 |

| 12 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 13.875 | | | | | | | | | | | | |
| Part Number | OD | PD 8V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 12 8V 1250 U | 12.5 | 12.3 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 4.25 | 1.06 | 8.63 | 200.0 |
| 12 8V 1320 U | 13.2 | 13 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 4.25 | 1.06 | 8.63 | 243.0 |
| 12 8V 1400 U | 14 | 13.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 4.25 | 1.06 | 8.63 | 282.0 |
| 12 8V 1500 U | 15 | 14.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 4.25 | 1.06 | 8.63 | 331.0 |
| 12 8V 1600 U | 16 | 15.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 4.25 | 1.06 | 8.63 | 387.0 |
| 12 8V 1700 U | 17 | 16.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 4.25 | 1.06 | 8.63 | 395.0 |
| 12 8V 1800 U | 18 | 17.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 4.25 | 1.06 | 8.63 | 408.0 |
| 12 8V 1900 U | 19 | 18.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 4.25 | 1.06 | 8.63 | 435.0 |
| 12 8V 2000 U | 20 | 19.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 4.25 | 1.06 | 8.63 | 428.0 |
| 12 8V 2120 U | 21.2 | 21 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 4.25 | 1.06 | 8.63 | 450.0 |
| 12 8V 2240 U | 22.4 | 22.2 | K-3 | U2 | 5 | 2.63 | 1.5 | 0.47 | 2.63 | 1.06 | 8.63 | 421.0 |
| 12 8V 3000 U | 30 | 29.8 | K-3 | U2 | 5 | 2.63 | 1.5 | 0.47 | 2.63 | 1.06 | 8.63 | 509.0 |
| 12 8V 4000 W | 40 | 39.8 | K-3 | W2 | 7.44 | 2.25 | 1.88 | 0.56 | 11.63 | 11.25 | 0 | 764.0 |
| 12 8V 4800 W | 48 | 47.8 | K-3 | W2 | 7.44 | 2.25 | 1.88 | 0.56 | 11.63 | 11.25 | 0 | 1000.0 |
| 12 8V 5800 W | 58 | 57.8 | K-3 | W2 | 7.44 | 2.25 | 1.88 | 0.56 | 11.63 | 11.25 | 0 | 1330.0 |
| 12 8V 6400 W | 64 | 63.8 | K-3 | W2 | 7.44 | 2.25 | 1.88 | 0.56 | 11.63 | 11.25 | 0 | 1460.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# 8V Hi-Cap Wedge Stock MST® Sheaves




Type K

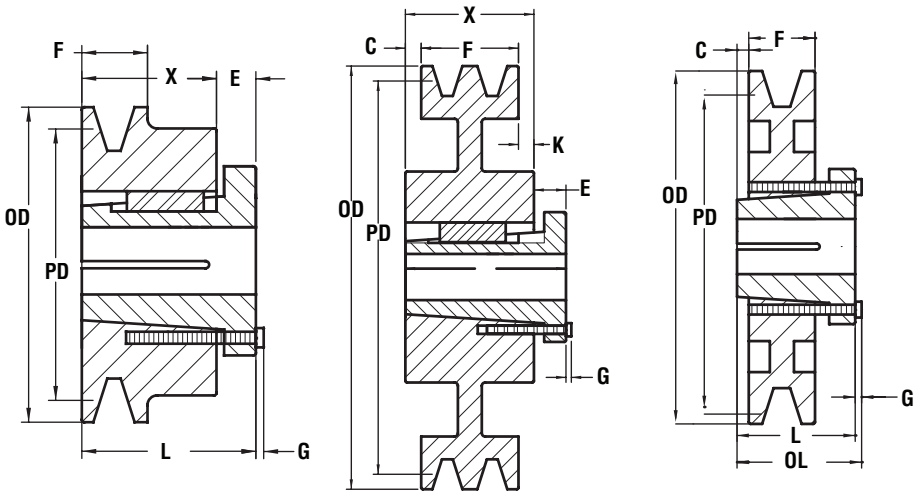
## 8V MST® Sheaves

| 14 Grooves F = 16.125 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD 8V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 14 8V 1250 U | 12.5 | 12.3 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 6.5 | 1.06 | 8.63 | 220.0 |
| 14 8V 1320 U | 13.2 | 13 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 6.5 | 1.06 | 8.63 | 261.0 |
| 14 8V 1400 U | 14 | 13.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 6.5 | 1.06 | 8.63 | 300.0 |
| 14 8V 1500 U | 15 | 14.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 6.5 | 1.06 | 8.63 | 370.0 |
| 14 8V 1600 U | 16 | 15.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 6.5 | 1.06 | 8.63 | 415.0 |
| 14 8V 1700 U | 17 | 16.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 6.5 | 1.06 | 8.63 | 440.0 |
| 14 8V 1800 U | 18 | 17.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 6.5 | 1.06 | 8.63 | 450.0 |
| 14 8V 1900 U | 19 | 18.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 6.5 | 1.06 | 8.63 | 470.0 |
| 14 8V 2000 U | 20 | 19.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 6.5 | 1.06 | 8.63 | 490.0 |
| 14 8V 2120 U | 21.2 | 21 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 6.5 | 1.06 | 8.63 | 510.0 |
| 14 8V 2240 U | 22.4 | 22.2 | K-3 | U2 | 5 | 3.75 | 1.5 | 0.47 | 3.75 | 1.06 | 8.63 | 459.0 |
| 14 8V 3000 U | 30 | 29.8 | K-3 | U2 | 5 | 3.75 | 1.5 | 0.47 | 3.75 | 1.06 | 8.63 | 710.0 |
| 14 8V 4000 W | 40 | 39.8 | K-3 | W2 | 7.44 | 3.38 | 1.88 | 0.56 | 12.75 | 11.25 | 0 | 840.0 |
| 14 8V 4800 W | 48 | 47.8 | K-3 | W2 | 7.44 | 3.38 | 1.88 | 0.56 | 12.75 | 11.25 | 0 | 1140.0 |
| 14 8V 5300 W | 53 | 52.8 | K-3 | W2 | 7.44 | 3.38 | 1.88 | 0.56 | 12.75 | 11.25 | 0 | 1234.0 |
| 14 8V 5800 W | 58 | 57.8 | K-3 | W2 | 7.44 | 3.38 | 1.88 | 0.56 | 12.75 | 11.25 | 0 | 1450.0 |
| 14 8V 6400 W | 64 | 63.8 | K-3 | W2 | 7.44 | 3.38 | 1.88 | 0.56 | 12.75 | 11.25 | 0 | 1550.0 |

| 16 Grooves F = 18.375 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | OD | PD 8V Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 16 8V 1250 U | 12.5 | 12.3 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 8.75 | 1.06 | 8.63 | 270.0 |
| 16 8V 1320 U | 13.2 | 13 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 8.75 | 1.06 | 8.63 | 280.0 |
| 16 8V 1400 U | 14 | 13.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 8.75 | 1.06 | 8.63 | 323.0 |
| 16 8V 1500 U | 15 | 14.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 8.75 | 1.06 | 8.63 | 430.0 |
| 16 8V 1600 U | 16 | 15.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 8.75 | 1.06 | 8.63 | 445.0 |
| 16 8V 1700 U | 17 | 16.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 8.75 | 1.06 | 8.63 | 447.0 |
| 16 8V 1800 U | 18 | 17.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 8.75 | 1.06 | 8.63 | 480.0 |
| 16 8V 1900 U | 19 | 18.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 8.75 | 1.06 | 8.63 | 494.0 |
| 16 8V 2000 U | 20 | 19.8 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 8.75 | 1.06 | 8.63 | 520.0 |
| 16 8V 2120 U | 21.2 | 21 | K-2 | U2 | 5 | 1 | 1.5 | 0.47 | 8.75 | 1.06 | 8.63 | 538.0 |
| 16 8V 2240 U | 22.4 | 22.2 | K-3 | U2 | 5 | 4.88 | 1.5 | 0.47 | 4.88 | 1.06 | 8.63 | 522.0 |
| 16 8V 3000 W | 30 | 29.8 | K-3 | W2 | 7.44 | 4.5 | 1.88 | 0.56 | 13.88 | 11.25 | 0 | 990.0 |
| 16 8V 4000 W | 40 | 39.8 | K-3 | W2 | 7.44 | 4.5 | 1.88 | 0.56 | 13.88 | 11.25 | 0 | 871.0 |
| 16 8V 4800 W | 48 | 47.8 | K-3 | W2 | 7.44 | 4.5 | 1.88 | 0.56 | 13.88 | 11.25 | 0 | 1360.0 |
| 16 8V 5300 W | 53 | 52.8 | K-3 | W2 | 7.44 | 4.5 | 1.88 | 0.56 | 13.88 | 11.25 | 0 | 1490.0 |
| 16 8V 5800 W | 58 | 57.8 | K-3 | W2 | 7.44 | 4.5 | 1.88 | 0.56 | 13.88 | 11.25 | 0 | 1620.0 |
| 16 8V 6400 W | 64 | 63.8 | K-3 | W2 | 7.44 | 4.5 | 1.88 | 0.56 | 13.88 | 11.25 | 0 | 1790.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# Combination Groove Conventional MST® Bushed Stock Sheaves A-B



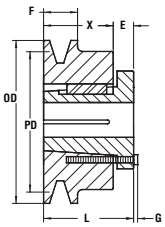

Type G Type L Type M

## A-B MST® Sheaves

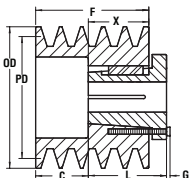
| 1 Groove | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 1 | | | | | | | | | | | | | |
| Part Number | OD | PD | | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| | | A Belt | B Belt | | | | | | | | | | |
| 1 B 34 P | 3.75 | 3 | 3.4 | G-1 | P1 | 1.75 | 0.13 | 0.63 | 0.25 | 0.44 | 1.94 | 1.31 | 2.0 |
| 1 B 36 P | 3.95 | 3.2 | 3.6 | G-1 | P1 | 1.75 | 0.13 | 0.63 | 0.25 | 0.44 | 1.94 | 1.31 | 2.3 |
| 1 B 38 P | 4.15 | 3.4 | 3.8 | G-1 | P1 | 1.75 | 0.13 | 0.63 | 0.25 | 0.44 | 1.94 | 1.31 | 2.6 |
| 1 B 40 P | 4.35 | 3.6 | 4 | M-1 | P1 | 1.75 | 0.31 | – | 0.25 | 0.63 | 1.94 | 1.31 | 2.1 |
| 1 B 42 P | 4.55 | 3.8 | 4.2 | M-1 | P1 | 1.75 | 0.31 | – | 0.25 | 0.63 | 1.94 | 1.31 | 2.4 |
| 1 B 44 P | 4.75 | 4 | 4.4 | M-1 | P1 | 1.75 | 0.31 | – | 0.25 | 0.63 | 1.94 | 1.31 | 2.8 |
| 1 B 46 P | 4.95 | 4.2 | 4.6 | M-1 | P1 | 1.75 | 0.31 | – | 0.25 | 0.63 | 1.94 | 1.31 | 3.1 |
| 1 B 48 P | 5.15 | 4.4 | 4.8 | M-1 | P1 | 1.75 | 0.31 | – | 0.25 | 0.66 | 1.94 | 1.31 | 3.5 |
| 1 B 50 P | 5.35 | 4.6 | 5 | M-1 | P1 | 1.75 | 0.31 | – | 0.25 | 0.63 | 1.94 | 1.31 | 3.9 |
| 1 B 52 P | 5.55 | 4.8 | 5.2 | M-1 | P1 | 1.75 | 0.31 | – | 0.25 | 0.63 | 1.94 | 1.31 | 4.1 |
| 1 B 54 P | 5.75 | 5 | 5.4 | M-1 | P1 | 1.75 | 0.31 | – | 0.25 | 0.63 | 1.94 | 1.31 | 4.6 |
| 1 B 56 P | 5.95 | 5.2 | 5.6 | M-1 | P1 | 1.75 | 0.31 | – | 0.25 | 0.63 | 1.94 | 1.31 | 5.1 |
| 1 B 58 P | 6.15 | 5.4 | 5.8 | M-1 | P1 | 1.75 | 0.31 | – | 0.25 | 0.65 | 1.94 | 1.31 | 5.6 |
| 1 B 60 P | 6.35 | 5.6 | 6 | M-1 | P1 | 1.75 | 0.31 | – | 0.25 | 0.63 | 1.94 | 1.31 | 6.0 |
| 1 B 62 P | 6.55 | 5.8 | 6.2 | M-2 | P1 | 1.75 | 0.31 | – | 0.25 | 0.63 | 1.94 | 1.31 | 5.5 |
| 1 B 64 P | 6.75 | 6 | 6.4 | M-1 | P1 | 1.75 | 0.31 | – | 0.25 | 0.63 | 1.94 | 1.31 | 5.8 |
| 1 B 66 P | 6.95 | 6.2 | 6.6 | M-1 | P1 | 1.75 | 0.31 | – | 0.25 | 0.63 | 1.94 | 1.31 | 5.9 |
| 1 B 68 P | 7.15 | 6.4 | 6.8 | M-1 | P1 | 1.75 | 0.31 | – | 0.25 | 0.63 | 1.94 | 1.31 | 6.1 |
| 1 B 70 P | 7.35 | 6.6 | 7 | L-1 | P1 | 1.75 | 0.16 | 0.63 | 0.25 | 0.47 | 1.94 | 1.31 | 6.4 |
| 1 B 74 P | 7.75 | 7 | 7.4 | L-2 | P1 | 1.75 | 0.16 | 0.63 | 0.25 | 0.47 | 1.94 | 1.31 | 7.3 |
| 1 B 80 P | 8.35 | 7.6 | 8 | L-2 | P1 | 1.75 | 0.16 | 0.63 | 0.25 | 0.47 | 1.94 | 1.31 | 7.8 |
| 1 B 86 P | 8.95 | 8.2 | 8.6 | L-2 | P1 | 1.75 | 0.16 | 0.63 | 0.25 | 0.47 | 1.94 | 1.31 | 8.6 |
| 1 B 90 P | 9.35 | 8.6 | 9 | L-2 | P1 | 1.75 | 0.16 | 0.63 | 0.25 | 0.47 | 1.94 | 1.31 | 8.9 |
| 1 B 94 P | 9.75 | 9 | 9.4 | L-3 | P1 | 1.75 | 0.16 | 0.63 | 0.25 | 0.47 | 1.94 | 1.31 | 9.1 |
| 1 B 110 P | 11.35 | 10.6 | 11 | L-2 | P1 | 1.75 | 0.16 | 0.63 | 0.25 | 0.47 | 1.94 | 1.31 | 11.1 |
| 1 B 124 Q | 12.75 | 12 | 12.4 | L-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 1.13 | 2.5 | 1.75 | 17.8 |
| 1 B 136 Q | 13.95 | 13.2 | 13.6 | L-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 1.13 | 2.5 | 1.75 | 18.2 |
| 1 B 154 Q | 15.75 | 15 | 15.4 | L-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 1.13 | 2.5 | 1.75 | 20.3 |
| 1 B 160 Q | 16.35 | 15.6 | 16 | L-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 1.13 | 2.5 | 1.75 | 22.0 |
| 1 B 184 Q | 18.75 | 18 | 18.4 | L-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 1.13 | 2.5 | 1.75 | 27.5 |
| 1 B 200 Q | 20.35 | 19.5 | 20 | L-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 1.13 | 2.5 | 1.75 | 27.2 |
| 1 B 250 Q | 25.35 | 24.5 | 25 | L-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 1.13 | 2.5 | 1.75 | 42.4 |
| 1 B 300 Q | 30.35 | 29.5 | 30 | L-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 1.13 | 2.5 | 1.75 | 56.0 |
| 1 B 380 Q | 38.35 | 37.5 | 38 | L-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 1.13 | 2.5 | 1.75 | 78.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

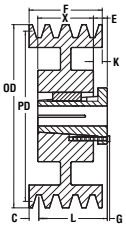
# A-B Combination Groove Conventional MST® Bushed Stock Sheaves



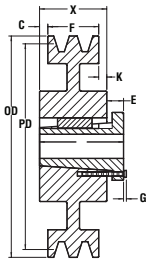

Type G




Type S




Type J



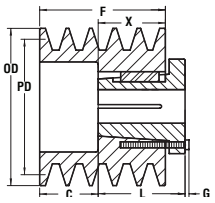

Type L

## A-B MST® Sheaves

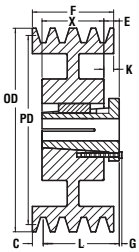
| 2 Grooves | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 1.75 | | | | | | | | | | | | | |
| Part Number | OD | PD | | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| | | A Belt | B Belt | | | | | | | | | | |
| 2 B 34 P | 3.75 | 3 | 3.4 | G-1 | P1 | 1.75 | 0.88 | 0.63 | 0.25 | 1.31 | 1.31 | 2.19 | 2.9 |
| 2 B 36 P | 3.95 | 3.2 | 3.6 | G-1 | P1 | 1.75 | 0.88 | 0.63 | 0.25 | 1.31 | 1.94 | 2.19 | 3.8 |
| 2 B 38 P | 4.15 | 3.4 | 3.8 | S-1 | P1 | 1.75 | 0.44 | – | 0.25 | – | 1.31 | 1.31 | 3.0 |
| 2 B 40 P | 4.35 | 3.6 | 4 | S-1 | P1 | 1.75 | 0.44 | – | 0.25 | – | 1.31 | 1.31 | 3.8 |
| 2 B 42 P | 4.55 | 3.8 | 4.2 | S-1 | P1 | 1.75 | 0.44 | – | 0.25 | – | 1.94 | 1.31 | 3.9 |
| 2 B 44 P | 4.75 | 4 | 4.4 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.44 | 1.31 | 1.31 | 3.9 |
| 2 B 46 P | 4.95 | 4.2 | 4.6 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.44 | 1.31 | 1.31 | 4.5 |
| 2 B 48 P | 5.15 | 4.4 | 4.8 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.44 | 1.94 | 1.31 | 5.3 |
| 2 B 50 P | 5.35 | 4.6 | 5 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.44 | 1.31 | 1.31 | 5.6 |
| 2 B 52 P | 5.55 | 4.8 | 5.2 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.44 | 1.94 | 1.31 | 6.1 |
| 2 B 54 P | 5.75 | 5 | 5.4 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.44 | 1.31 | 1.31 | 6.5 |
| 2 B 54 Q | 5.75 | 5 | 5.4 | S-1 | Q1 | 2.69 | – | 0.63 | 0.28 | – | 2.5 | 1.75 | 6.0 |
| 2 B 56 P | 5.95 | 5.2 | 5.6 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.44 | 1.31 | 1.31 | 7.4 |
| 2 B 56 Q | 5.95 | 5.2 | 5.6 | S-1 | Q1 | 2.69 | – | 0.63 | 0.28 | – | 2.5 | 1.75 | 7.3 |
| 2 B 58 P | 6.15 | 5.4 | 5.8 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.44 | 1.31 | 1.31 | 8.0 |
| 2 B 58 Q | 6.15 | 5.4 | 5.8 | S-1 | Q1 | 2.69 | – | 0.63 | 0.28 | – | 2.5 | 1.75 | 7.9 |
| 2 B 60 P | 6.35 | 5.6 | 6 | J-1 | P1 | 1.75 | – | 0.63 | 0.25 | 0.44 | 1.31 | 1.31 | 8.9 |
| 2 B 60 Q | 6.35 | 5.6 | 6 | S-1 | Q1 | 2.69 | – | 0.63 | 0.28 | – | 2.5 | 1.75 | 8.9 |
| 2 B 62 P | 6.55 | 5.8 | 6.2 | J-2 | P1 | 1.75 | – | 0.63 | 0.25 | 0.44 | 1.31 | 1.31 | 7.6 |
| 2 B 62 Q | 6.55 | 5.8 | 6.2 | S-1 | Q1 | 2.69 | – | 0.63 | 0.28 | – | 2.5 | 1.75 | 9.4 |
| 2 B 64 P | 6.75 | 6 | 6.4 | J-2 | P1 | 1.75 | – | 0.63 | 0.25 | 0.44 | 1.31 | 1.31 | 7.8 |
| 2 B 64 Q | 6.75 | 6 | 6.4 | S-1 | Q1 | 2.69 | – | 0.63 | 0.28 | – | 2.5 | 1.75 | 10.1 |
| 2 B 66 P | 6.95 | 6.2 | 6.6 | J-2 | P1 | 1.75 | – | 0.63 | 0.25 | 0.44 | 1.31 | 1.31 | 8.3 |
| 2 B 66 Q | 6.95 | 6.2 | 6.6 | S-1 | Q1 | 2.69 | – | 0.63 | 0.28 | – | 2.5 | 1.75 | 11.1 |
| 2 B 68 P | 7.15 | 6.4 | 6.8 | J-2 | P1 | 1.75 | – | 0.63 | 0.25 | 0.44 | 1.31 | 1.31 | 8.8 |
| 2 B 68 Q | 7.15 | 6.4 | 6.8 | S-1 | Q1 | 2.69 | – | 0.63 | 0.28 | – | 2.5 | 1.75 | 12.3 |
| 2 B 70 Q | 7.35 | 6.6 | 7 | J-2 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 1.75 | 1.75 | 11.1 |
| 2 B 74 Q | 7.75 | 7 | 7.4 | J-2 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 2.5 | 1.75 | 11.5 |
| 2 B 80 Q | 8.35 | 7.6 | 8 | J-2 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 1.75 | 1.75 | 12.8 |
| 2 B 86 Q | 8.95 | 8.2 | 8.6 | J-2 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 2.5 | 1.75 | 16.0 |
| 2 B 90 Q | 9.35 | 8.6 | 9 | J-3 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 1.75 | 1.75 | 15.1 |
| 2 B 94 Q | 9.75 | 9 | 9.4 | J-3 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 2.5 | 1.75 | 15.5 |
| 2 B 110 Q | 11.35 | 10.6 | 11 | J-3 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 1.75 | 1.75 | 18.9 |
| 2 B 124 Q | 12.75 | 12 | 12.4 | J-3 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 1.75 | 1.75 | 21.1 |
| 2 B 136 Q | 13.95 | 13.2 | 13.6 | J-3 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 2.5 | 1.75 | 23.0 |
| 2 B 154 Q | 15.75 | 15 | 15.4 | J-3 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 1.75 | 1.75 | 24.8 |
| 2 B 154 R | 15.75 | 15 | 15.4 | L-3 | R1 | 3.75 | 0.13 | 0.75 | 0.28 | 0.25 | 2.88 | 2 | 30.6 |
| 2 B 160 Q | 16.35 | 15.6 | 16 | J-3 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 1.75 | 1.75 | 27.0 |
| 2 B 160 R | 16.35 | 15.6 | 16 | L-3 | R1 | 3.75 | 0.13 | 0.75 | 0.28 | 0.25 | 2.88 | 2 | 32.0 |
| 2 B 184 Q | 18.75 | 18 | 18.4 | J-3 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 1.75 | 1.75 | 32.3 |
| 2 B 184 R | 18.75 | 18 | 18.4 | L-3 | R1 | 3.75 | 0.13 | 0.75 | 0.28 | 0.38 | 2.88 | 2 | 39.1 |
| 2 B 200 Q | 20.35 | 19.5 | 20 | J-3 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 1.75 | 1.75 | 42.3 |
| 2 B 200 R | 20.35 | 19.5 | 20 | L-3 | R1 | 3.75 | 0.13 | 0.75 | 0.28 | 0.25 | 2.88 | 2 | 43.5 |
| 2 B 250 Q | 25.35 | 24.5 | 25 | J-3 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 1.75 | 1.75 | 50.3 |
| 2 B 250 R | 25.35 | 24.5 | 25 | L-3 | R1 | 3.75 | 0.13 | 0.75 | 0.28 | 0.25 | 2.88 | 2 | 58.0 |
| 2 B 300 Q | 30.35 | 29.5 | 30 | J-3 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 1.75 | 1.75 | 68.8 |
| 2 B 300 R | 30.35 | 29.5 | 30 | L-3 | R1 | 3.75 | 0.13 | 0.75 | 0.28 | 0.25 | 2.88 | 2 | 81.0 |
| 2 B 380 Q | 38.35 | 37.5 | 38 | J-3 | Q1 | 2.69 | – | 0.75 | 0.28 | – | 1.75 | 1.75 | 95.5 |
| 2 B 380 R | 38.35 | 37.5 | 38 | L-3 | R1 | 3.75 | 0.13 | 0.75 | 0.28 | 0.25 | 2.88 | 2 | 92.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

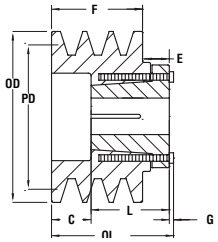
# Combination Groove Conventional MST® Bushed Stock Sheaves A-B




Type S




Type J



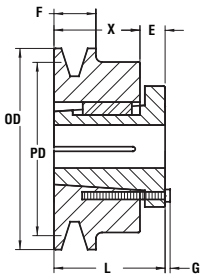

Type N

## A-B MST® Sheaves

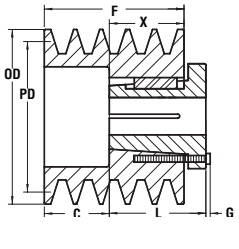
| 3 Grooves | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 2.5 | | | | | | | | | | | | | |
| Part Number | OD | PD | | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| | | A Belt | B Belt | | | | | | | | | | |
| 3 B 34 P | 3.75 | 3 | 3.4 | G-1 | P2 | 1.75 | 0.63 | 0.63 | 0.25 | 0.44 | 2.94 | 2.31 | 3.8 |
| 3 B 36 P | 3.95 | 3.2 | 3.6 | N-1 | P2 | 1.75 | 0.63 | 0.63 | 0.25 | 0.44 | 2.31 | 2.31 | 4.4 |
| 3 B 38 P | 4.15 | 3.4 | 3.8 | S-1 | P1 | 1.75 | 1.19 | – | 0.25 | – | 1.94 | 1.31 | 3.8 |
| 3 B 40 P | 4.35 | 3.6 | 4 | S-1 | P1 | 1.75 | 1.19 | – | 0.25 | – | 1.94 | 1.31 | 4.5 |
| 3 B 42 P | 4.55 | 3.8 | 4.2 | S-1 | P1 | 1.75 | 1.19 | – | 0.25 | – | 1.31 | 1.31 | 4.9 |
| 3 B 44 P | 4.75 | 4 | 4.4 | J-1 | P1 | 1.75 | 0.56 | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 5.1 |
| 3 B 46 P | 4.95 | 4.2 | 4.6 | J-2 | P1 | 1.75 | 0.56 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 6.0 |
| 3 B 48 P | 5.15 | 4.4 | 4.8 | J-2 | P1 | 1.75 | 0.56 | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 6.3 |
| 3 B 50 P | 5.35 | 4.6 | 5 | J-2 | P1 | 1.75 | 0.56 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 6.9 |
| 3 B 52 P | 5.55 | 4.8 | 5.2 | J-2 | P1 | 1.75 | 0.56 | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 7.5 |
| 3 B 54 P | 5.75 | 5 | 5.4 | J-2 | P1 | 1.75 | 0.56 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 8.3 |
| 3 B 54 Q | 5.75 | 5 | 5.4 | S-1 | Q1 | 2.69 | 0.56 | 0.63 | 0.28 | 0.19 | 2.5 | 1.75 | 7.9 |
| 3 B 56 P | 5.95 | 5.2 | 5.6 | J-2 | P1 | 1.75 | 0.56 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 9.0 |
| 3 B 56 Q | 5.95 | 5.2 | 5.6 | S-1 | Q1 | 2.69 | 0.75 | 0.63 | 0.28 | – | 2.5 | 1.75 | 9.0 |
| 3 B 58 P | 6.15 | 5.4 | 5.8 | J-2 | P1 | 1.75 | 0.56 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 9.6 |
| 3 B 58 Q | 6.15 | 5.4 | 5.8 | J-2 | Q1 | 2.69 | 0.56 | 0.63 | 0.28 | 0.19 | 2.5 | 1.75 | 9.4 |
| 3 B 60 P | 6.35 | 5.6 | 6 | J-2 | P1 | 1.75 | 0.56 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 10.5 |
| 3 B 60 Q | 6.35 | 5.6 | 6 | J-2 | Q1 | 2.69 | 0.38 | 0.63 | 0.28 | 0.38 | 2.5 | 1.75 | 10.4 |
| 3 B 62 P | 6.55 | 5.8 | 6.2 | J-2 | P1 | 1.75 | 0.56 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 9.4 |
| 3 B 62 Q | 6.55 | 5.8 | 6.2 | J-2 | Q1 | 2.69 | 0.56 | 0.63 | 0.28 | 0.19 | 2.5 | 1.75 | 11.3 |
| 3 B 64 P | 6.75 | 6 | 6.4 | J-2 | P1 | 1.75 | 0.56 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 9.5 |
| 3 B 64 Q | 6.75 | 6 | 6.4 | J-2 | Q1 | 2.69 | 0.38 | 0.63 | 0.28 | 0.38 | 2.5 | 1.75 | 12.1 |
| 3 B 66 P | 6.95 | 6.2 | 6.6 | J-2 | P1 | 1.75 | 0.56 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 10.0 |
| 3 B 66 Q | 6.95 | 6.2 | 6.6 | J-2 | Q1 | 2.69 | 0.56 | 0.63 | 0.28 | 0.19 | 2.5 | 1.75 | 13.0 |
| 3 B 68 P | 7.15 | 6.4 | 6.8 | J-2 | P1 | 1.75 | 0.56 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 10.4 |
| 3 B 68 Q | 7.15 | 6.4 | 6.8 | J-2 | Q1 | 2.69 | 0.56 | 0.63 | 0.28 | 0.19 | 2.5 | 1.75 | 14.3 |
| 3 B 70 Q | 7.35 | 6.6 | 7 | J-2 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 1.75 | 1.75 | 13.0 |
| 3 B 74 Q | 7.75 | 7 | 7.4 | J-2 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 2.5 | 1.75 | 0.0 |
| 3 B 80 Q | 8.35 | 7.6 | 8 | J-2 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 1.75 | 1.75 | 15.3 |
| 3 B 86 Q | 8.95 | 8.2 | 8.6 | J-2 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 2.5 | 1.75 | 0.0 |
| 3 B 90 Q | 9.35 | 8.6 | 9 | J-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 1.75 | 1.75 | 18.1 |
| 3 B 94 Q | 9.75 | 9 | 9.4 | J-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 2.5 | 1.75 | 0.0 |
| 3 B 110 Q | 11.35 | 10.6 | 11 | J-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 1.75 | 1.75 | 21.3 |
| 3 B 124 Q | 12.75 | 12 | 12.4 | J-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 2.5 | 1.75 | 25.4 |
| 3 B 136 Q | 13.95 | 13.2 | 13.6 | J-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 1.75 | 1.75 | 27.4 |
| 3 B 154 Q | 15.75 | 15 | 15.4 | J-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 1.75 | 1.75 | 29.8 |
| 3 B 154 R | 15.75 | 15 | 15.4 | J-3 | R1 | 3.75 | 0.38 | 0.75 | 0.28 | 0.13 | 2.88 | 2 | 35.5 |
| 3 B 160 Q | 16.35 | 15.6 | 16 | J-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 1.75 | 1.75 | 32.0 |
| 3 B 160 R | 16.35 | 15.6 | 16 | J-3 | R1 | 3.75 | 0.38 | 0.75 | 0.28 | 0.13 | 2.88 | 2 | 38.0 |
| 3 B 184 Q | 18.75 | 18 | 18.4 | J-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 1.75 | 1.75 | 37.8 |
| 3 B 184 R | 18.75 | 18 | 18.4 | J-3 | R1 | 3.75 | 0.38 | 0.75 | 0.28 | 0.13 | 2.88 | 2 | 44.8 |
| 3 B 200 Q | 20.35 | 19.5 | 20 | J-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 1.75 | 1.75 | 49.9 |
| 3 B 200 R | 20.35 | 19.5 | 20 | J-3 | R1 | 3.75 | 0.38 | 0.75 | 0.28 | 0.13 | 2.88 | 2 | 50.3 |
| 3 B 250 Q | 25.35 | 24.5 | 25 | J-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 1.75 | 1.75 | 61.0 |
| 3 B 250 R | 25.35 | 24.5 | 25 | J-3 | R1 | 3.75 | 0.38 | 0.75 | 0.28 | 0.13 | 2.88 | 2 | 65.0 |
| 3 B 300 Q | 30.35 | 29.5 | 30 | J-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 1.75 | 1.75 | 78.5 |
| 3 B 300 R | 30.35 | 29.5 | 30 | J-3 | R1 | 3.75 | 0.38 | 0.75 | 0.28 | 0.13 | 2.88 | 2 | 89.0 |
| 3 B 380 Q | 38.35 | 37.5 | 38 | J-3 | Q1 | 2.69 | 0.38 | 0.75 | 0.28 | 0.38 | 1.75 | 1.75 | 110.0 |
| 3 B 380 R | 38.35 | 37.5 | 38 | J-3 | R1 | 3.75 | 0.38 | 0.75 | 0.28 | 0.13 | 2.88 | 2 | 106.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# A-B Combination Groove Conventional MST® Bushed Stock Sheaves




Type G

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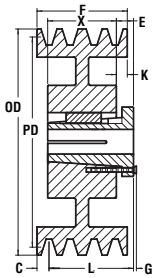


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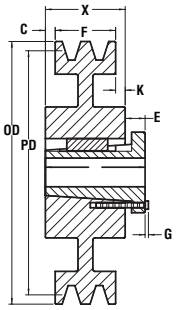


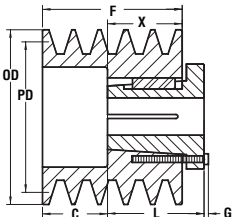

Type L

## A-B MST® Sheaves

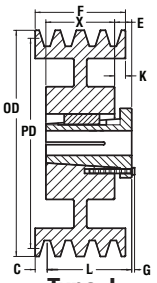
| 4 Grooves | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 3.25 | | | | | | | | | | | | | |
| Part Number | OD | PD | | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| | | A Belt | B Belt | | | | | | | | | | |
| 4 B 34 P | 3.75 | 3 | 3.4 | G-1 | P2 | 1.75 | 1.38 | 0.63 | 0.25 | 0.44 | 2.94 | 2.31 | 4.5 |
| 4 B 36 P | 3.95 | 3.2 | 3.6 | N-1 | P2 | 1.75 | 1.38 | 0.63 | 0.25 | 0.44 | 2.31 | 2.31 | 5.3 |
| 4 B 38 P | 4.15 | 3.4 | 3.8 | S-1 | P1 | 1.75 | 1.94 | – | 0.25 | – | 1.94 | 1.31 | 4.8 |
| 4 B 40 P | 4.35 | 3.6 | 4 | J-2 | P1 | 1.75 | 1.94 | – | 0.25 | – | 1.94 | 1.31 | 5.5 |
| 4 B 42 P | 4.55 | 3.8 | 4.2 | S-1 | P1 | 1.75 | 1.94 | – | 0.25 | – | 1.31 | 1.31 | 5.9 |
| 4 B 44 P | 4.75 | 4 | 4.4 | J-2 | P1 | 1.75 | 1.31 | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 6.5 |
| 4 B 46 P | 4.95 | 4.2 | 4.6 | J-2 | P1 | 1.75 | 1.31 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 7.1 |
| 4 B 48 P | 5.15 | 4.4 | 4.8 | J-2 | P1 | 1.75 | 1.31 | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 7.5 |
| 4 B 50 P | 5.35 | 4.6 | 5 | J-2 | P1 | 1.75 | 1.31 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 8.3 |
| 4 B 52 P | 5.55 | 4.8 | 5.2 | J-2 | P1 | 1.75 | 1.31 | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 9.1 |
| 4 B 54 P | 5.75 | 5 | 5.4 | J-2 | P1 | 1.75 | 1.31 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 9.6 |
| 4 B 54 Q | 5.75 | 5 | 5.4 | S-1 | Q1 | 2.69 | 1.31 | 0.63 | 0.28 | 0.19 | 2.5 | 1.75 | 9.3 |
| 4 B 56 P | 5.95 | 5.2 | 5.6 | J-2 | P1 | 1.75 | 1.31 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 10.6 |
| 4 B 56 Q | 5.95 | 5.2 | 5.6 | S-1 | Q1 | 2.69 | 1.31 | 0.63 | 0.28 | 0.19 | 2.5 | 1.75 | 10.5 |
| 4 B 58 P | 6.15 | 5.4 | 5.8 | J-2 | P1 | 1.75 | 1.31 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 11.6 |
| 4 B 58 Q | 6.15 | 5.4 | 5.8 | J-2 | Q1 | 2.69 | 1.31 | 0.63 | 0.28 | 0.19 | 2.5 | 1.75 | 11.5 |
| 4 B 60 P | 6.35 | 5.6 | 6 | J-2 | P1 | 1.75 | 1.31 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 11.9 |
| 4 B 60 Q | 6.35 | 5.6 | 6 | J-2 | Q1 | 2.69 | 1.31 | 0.63 | 0.28 | 0.19 | 2.5 | 1.75 | 12.6 |
| 4 B 62 P | 6.55 | 5.8 | 6.2 | J-2 | P1 | 1.75 | 1.31 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 11.1 |
| 4 B 62 Q | 6.55 | 5.8 | 6.2 | J-2 | Q1 | 2.69 | 1.31 | 0.63 | 0.28 | 0.19 | 2.5 | 1.75 | 12.6 |
| 4 B 64 P | 6.75 | 6 | 6.4 | J-2 | P1 | 1.75 | 1.31 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 11.8 |
| 4 B 64 Q | 6.75 | 6 | 6.4 | J-2 | Q1 | 2.69 | 1.31 | 0.63 | 0.28 | 0.19 | 2.5 | 1.75 | 14.1 |
| 4 B 66 P | 6.95 | 6.2 | 6.6 | J-2 | P1 | 1.75 | 1.31 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 12.0 |
| 4 B 66 Q | 6.95 | 6.2 | 6.6 | J-2 | Q1 | 2.69 | 1.31 | 0.63 | 0.28 | 0.19 | 2.5 | 1.75 | 14.8 |
| 4 B 68 P | 7.15 | 6.4 | 6.8 | J-2 | P1 | 1.75 | 1.31 | 0.63 | 0.25 | 0.63 | 1.31 | 1.31 | 12.5 |
| 4 B 68 Q | 7.15 | 6.4 | 6.8 | J-2 | Q1 | 2.69 | 1.31 | 0.63 | 0.28 | 0.19 | 2.5 | 1.75 | 16.9 |
| 4 B 70 Q | 7.35 | 6.6 | 7 | J-2 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 15.3 |
| 4 B 74 Q | 7.75 | 7 | 7.4 | J-2 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 15.3 |
| 4 B 80 Q | 8.35 | 7.6 | 8 | J-2 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 17.0 |
| 4 B 86 Q | 8.95 | 8.2 | 8.6 | J-2 | P1 | 1.75 | 0.75 | 0.75 | 0.25 | 0.75 | 1.31 | 1.75 | 20.8 |
| 4 B 90 Q | 9.35 | 8.6 | 9 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 20.6 |
| 4 B 94 Q | 9.75 | 9 | 9.4 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 20.1 |
| 4 B 110 Q | 11.35 | 10.6 | 11 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 25.8 |
| 4 B 124 Q | 12.75 | 12 | 12.4 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 27.5 |
| 4 B 136 Q | 13.95 | 13.2 | 13.6 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 31.5 |
| 4 B 154 Q | 15.75 | 15 | 15.4 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 36.0 |
| 4 B 154 R | 15.75 | 15 | 15.4 | J-3 | R1 | 3.75 | 0.75 | 0.88 | 0.28 | 0.5 | 2.88 | 2 | 40.1 |
| 4 B 160 Q | 16.35 | 15.6 | 16 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 39.0 |
| 4 B 160 R | 16.35 | 15.6 | 16 | J-3 | R1 | 3.75 | 0.75 | 0.88 | 0.28 | 0.5 | 2.88 | 2 | 44.0 |
| 4 B 184 Q | 18.75 | 18 | 18.4 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 44.8 |
| 4 B 184 R | 18.75 | 18 | 18.4 | J-3 | R1 | 3.75 | 0.75 | 0.88 | 0.28 | 0.5 | 2.88 | 2 | 50.3 |
| 4 B 200 Q | 20.35 | 19.5 | 20 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 57.0 |
| 4 B 200 R | 20.35 | 19.5 | 20 | J-3 | R1 | 3.75 | 0.75 | 0.88 | 0.28 | 0.5 | 2.88 | 2 | 54.0 |
| 4 B 250 Q | 25.35 | 24.5 | 25 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 69.5 |
| 4 B 250 R | 25.35 | 24.5 | 25 | J-3 | R1 | 3.75 | 0.75 | 0.88 | 0.28 | 0.5 | 2.88 | 2 | 71.0 |
| 4 B 300 Q | 30.35 | 29.5 | 30 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 90.8 |
| 4 B 300 R | 30.35 | 29.5 | 30 | J-3 | R1 | 3.75 | 0.75 | 0.88 | 0.28 | 0.5 | 2.88 | 2 | 99.0 |
| 4 B 380 Q | 38.35 | 37.5 | 38 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 125.0 |
| 4 B 380 R | 38.35 | 37.5 | 38 | J-3 | R1 | 3.75 | 0.75 | 0.88 | 0.28 | 0.5 | 2.88 | 2 | 126.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

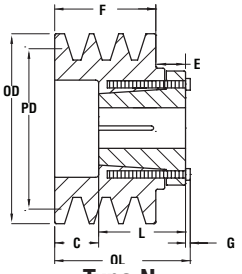
# Combination Groove Conventional MST® Bushed Stock Sheaves A-B




Type S




Type J



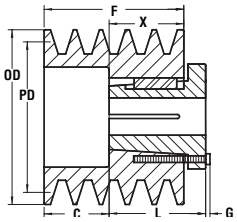

Type N

## A-B MST® Sheaves

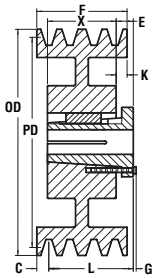
| 5 Grooves | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 4 | | | | | | | | | | | | | |
| Part Number | OD | PD | | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| | | A Belt | B Belt | | | | | | | | | | |
| 5 B 34 P | 3.75 | 3 | 3.4 | N-1 | P2 | 1.75 | 2.13 | 0.63 | 0.25 | 0.44 | 2.31 | 2.31 | 5.3 |
| 5 B 36 P | 3.95 | 3.2 | 3.6 | G-1 | P2 | 1.75 | 2.13 | 0.63 | 0.25 | 0.44 | 2.94 | 2.31 | 6.1 |
| 5 B 38 P | 4.15 | 3.4 | 3.8 | S-1 | P2 | 1.75 | 1.69 | – | 0.25 | – | 2.31 | 2.31 | 6.1 |
| 5 B 40 P | 4.35 | 3.6 | 4 | S-1 | P2 | 1.75 | 1.69 | – | 0.25 | – | 2.31 | 2.31 | 7.0 |
| 5 B 42 P | 4.55 | 3.8 | 4.2 | S-1 | P2 | 1.75 | 1.69 | – | 0.25 | – | 2.94 | 2.31 | 7.8 |
| 5 B 44 P | 4.75 | 4 | 4.4 | J-2 | P2 | 1.75 | 1.06 | 0.63 | 0.25 | 0.63 | 2.31 | 2.31 | 8.5 |
| 5 B 46 P | 4.95 | 4.2 | 4.6 | J-2 | P2 | 1.75 | 1.06 | 0.63 | 0.25 | 0.63 | 2.94 | 2.31 | 9.8 |
| 5 B 48 P | 5.15 | 4.4 | 4.8 | J-2 | P2 | 1.75 | 1.06 | 0.63 | 0.25 | 0.63 | 2.31 | 2.31 | 10.5 |
| 5 B 50 P | 5.35 | 4.6 | 5 | J-2 | P2 | 1.75 | 1.06 | 0.63 | 0.25 | 0.63 | 2.94 | 2.31 | 11.6 |
| 5 B 52 P | 5.55 | 4.8 | 5.2 | J-2 | P2 | 1.75 | 1.06 | 0.63 | 0.25 | 0.63 | 2.94 | 2.31 | 12.5 |
| 5 B 54 Q | 5.75 | 5 | 5.4 | J-2 | Q1 | 2.69 | 1.5 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 10.4 |
| 5 B 56 Q | 5.95 | 5.2 | 5.6 | J-2 | Q1 | 2.69 | 1.5 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 11.8 |
| 5 B 58 Q | 6.15 | 5.4 | 5.8 | J-2 | Q1 | 2.69 | 1.5 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 12.8 |
| 5 B 60 Q | 6.35 | 5.6 | 6 | J-2 | Q1 | 2.69 | 1.5 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 13.8 |
| 5 B 62 Q | 6.55 | 5.8 | 6.2 | J-2 | Q1 | 2.69 | 1.5 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 14.6 |
| 5 B 64 Q | 6.75 | 6 | 6.4 | J-2 | Q1 | 2.69 | 1.5 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 16.4 |
| 5 B 66 Q | 6.95 | 6.2 | 6.6 | J-2 | Q1 | 2.69 | 1.5 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 17.1 |
| 5 B 68 Q | 7.15 | 6.4 | 6.8 | J-2 | Q1 | 2.69 | 1.5 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 17.9 |
| 5 B 70 Q | 7.35 | 6.6 | 7 | J-2 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 20.9 |
| 5 B 70 R | 7.35 | 6.6 | 7 | J-2 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 17.0 |
| 5 B 74 Q | 7.75 | 7 | 7.4 | J-2 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 19.8 |
| 5 B 74 R | 7.75 | 7 | 7.4 | J-2 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 20.3 |
| 5 B 80 Q | 8.35 | 7.6 | 8 | J-2 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 22.3 |
| 5 B 80 R | 8.35 | 7.6 | 8 | J-2 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 24.8 |
| 5 B 86 Q | 8.95 | 8.2 | 8.6 | J-2 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 29.5 |
| 5 B 86 R | 8.95 | 8.2 | 8.6 | J-2 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 27.3 |
| 5 B 90 Q | 9.35 | 8.6 | 9 | J-3 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 28.6 |
| 5 B 90 R | 9.35 | 8.6 | 9 | J-2 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 29.1 |
| 5 B 94 Q | 9.75 | 9 | 9.4 | J-3 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 29.5 |
| 5 B 94 R | 9.75 | 9 | 9.4 | J-2 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 30.0 |
| 5 B 110 Q | 11.35 | 10.6 | 11 | J-3 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 32.8 |
| 5 B 110 R | 11.35 | 10.6 | 11 | K-3 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 32.8 |
| 5 B 124 Q | 12.75 | 12 | 12.4 | J-3 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 35.4 |
| 5 B 124 R | 12.75 | 12 | 12.4 | K-3 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 36.0 |
| 5 B 136 Q | 13.95 | 13.2 | 13.6 | J-3 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 41.0 |
| 5 B 136 R | 13.95 | 13.2 | 13.6 | K-3 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 40.3 |
| 5 B 154 Q | 15.75 | 15 | 15.4 | J-3 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 45.3 |
| 5 B 154 R | 15.75 | 15 | 15.4 | K-3 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 45.0 |
| 5 B 160 Q | 16.35 | 15.6 | 16 | J-3 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 48.0 |
| 5 B 160 R | 16.35 | 15.6 | 16 | K-3 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 48.0 |
| 5 B 184 Q | 18.75 | 18 | 18.4 | J-3 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 57.3 |
| 5 B 184 R | 18.75 | 18 | 18.4 | K-3 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 54.0 |
| 5 B 200 Q | 20.35 | 19.5 | 20 | J-3 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 66.0 |
| 5 B 200 R | 20.35 | 19.5 | 20 | K-3 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 64.0 |
| 5 B 250 Q | 25.35 | 24.5 | 25 | J-3 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 82.5 |
| 5 B 250 R | 25.35 | 24.5 | 25 | K-3 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 79.0 |
| 5 B 300 Q | 30.35 | 29.5 | 30 | J-3 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 117.0 |
| 5 B 300 R | 30.35 | 29.5 | 30 | K-3 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 115.0 |
| 5 B 380 Q | 38.35 | 37.5 | 38 | J-3 | Q2 | 2.63 | 0.63 | 0.75 | 0.28 | 0.63 | 2.75 | 2.75 | 159.0 |
| 5 B 380 R | 38.35 | 37.5 | 38 | K-3 | R1 | 3.75 | 1 | 0.88 | 0.28 | 1 | 2.88 | 2 | 150.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

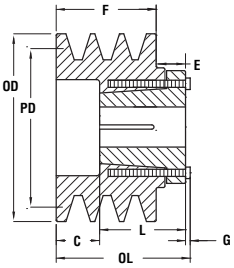
# A-B Combination Groove Conventional MST® Bushed Stock Sheaves




Type S




Type J



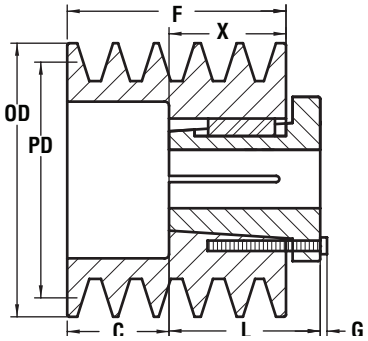

Type N

## A-B MST® Sheaves

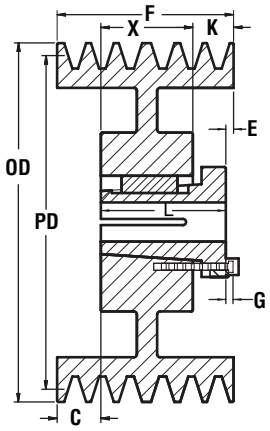
| 6 Grooves | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 4.75 | | | | | | | | | | | | | |
| Part Number | OD | PD | | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| | | A Belt | B Belt | | | | | | | | | | |
| 6 B 34 P | 3.75 | 3 | 3.4 | N-1 | P2 | 1.75 | 0 | 0.63 | 0.25 | 2.44 | 2.94 | 2.31 | 6.1 |
| 6 B 36 P | 3.95 | 3.2 | 3.6 | N-1 | P2 | 1.75 | 2.88 | 0.63 | 0.25 | 0.44 | 2.31 | 2.31 | 7.3 |
| 6 B 38 P | 4.15 | 3.4 | 3.8 | S-1 | P2 | 1.75 | – | – | 0.25 | 2.44 | 2.94 | 2.31 | 7.0 |
| 6 B 40 P | 4.35 | 3.6 | 4 | S-1 | P2 | 1.75 | – | – | 0.25 | 2.44 | 2.94 | 2.31 | 8.1 |
| 6 B 42 P | 4.55 | 3.8 | 4.2 | S-1 | P2 | 1.75 | 2.44 | – | 0.25 | – | 2.31 | 2.31 | 9.3 |
| 6 B 44 P | 4.75 | 4 | 4.4 | J-2 | P2 | 1.75 | – | 0.63 | 0.25 | 2.44 | 2.94 | 2.31 | 9.9 |
| 6 B 46 P | 4.95 | 4.2 | 4.6 | J-2 | P2 | 1.75 | – | 0.63 | 0.25 | 2.44 | 2.94 | 2.31 | 11.0 |
| 6 B 48 P | 5.15 | 4.4 | 4.8 | J-2 | P2 | 1.75 | 1.81 | 0.63 | 0.25 | 0.63 | 2.31 | 2.31 | 11.8 |
| 6 B 50 P | 5.35 | 4.6 | 5 | J-2 | P2 | 1.75 | – | 0.63 | 0.25 | 2.44 | 2.94 | 2.31 | 12.9 |
| 6 B 52 P | 5.55 | 4.8 | 5.2 | J-2 | P2 | 1.75 | 1.81 | 0.63 | 0.25 | 0.63 | 2.31 | 2.31 | 14.8 |
| 6 B 54 Q | 5.75 | 5 | 5.4 | J-2 | Q1 | 2.69 | – | 0.75 | 0.28 | 3 | 2.5 | 1.75 | 11.8 |
| 6 B 56 Q | 5.95 | 5.2 | 5.6 | J-2 | Q1 | 2.69 | 2.25 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 17.3 |
| 6 B 58 Q | 6.15 | 5.4 | 5.8 | J-2 | Q1 | 2.69 | – | 0.75 | 0.28 | 3 | 2.5 | 1.75 | 14.5 |
| 6 B 60 Q | 6.35 | 5.6 | 6 | J-2 | Q1 | 2.69 | – | 0.75 | 0.28 | 3 | 2.5 | 1.75 | 15.4 |
| 6 B 62 Q | 6.55 | 5.8 | 6.2 | J-2 | Q1 | 2.69 | 2.25 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 16.4 |
| 6 B 64 Q | 6.75 | 6 | 6.4 | J-2 | Q1 | 2.69 | – | 0.75 | 0.28 | 3 | 2.5 | 1.75 | 18.6 |
| 6 B 66 Q | 6.95 | 6.2 | 6.6 | J-2 | Q1 | 2.69 | 2.25 | 0.75 | 0.28 | 0.75 | 1.75 | 1.75 | 18.5 |
| 6 B 68 Q | 7.15 | 6.4 | 6.8 | J-2 | Q1 | 2.69 | – | 0.75 | 0.28 | 3 | 2.5 | 1.75 | 20.8 |
| 6 B 70 Q | 7.35 | 6.6 | 7 | K-2 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 22.8 |
| 6 B 70 R | 7.35 | 6.6 | 7 | J-2 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 19.0 |
| 6 B 74 Q | 7.75 | 7 | 7.4 | K-2 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 26.5 |
| 6 B 74 R | 7.75 | 7 | 7.4 | J-2 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 21.8 |
| 6 B 80 Q | 8.35 | 7.6 | 8 | K-2 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 24.1 |
| 6 B 80 R | 8.35 | 7.6 | 8 | J-2 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 26.8 |
| 6 B 86 Q | 8.95 | 8.2 | 8.6 | K-2 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 27.1 |
| 6 B 86 R | 8.95 | 8.2 | 8.6 | J-2 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 29.4 |
| 6 B 90 Q | 9.35 | 8.6 | 9 | K-2 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 30.6 |
| 6 B 90 R | 9.35 | 8.6 | 9 | J-2 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 31.4 |
| 6 B 94 Q | 9.75 | 9 | 9.4 | K-3 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 32.8 |
| 6 B 94 R | 9.75 | 9 | 9.4 | J-2 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 32.8 |
| 6 B 110 Q | 11.35 | 10.6 | 11 | K-3 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 36.6 |
| 6 B 110 R | 11.35 | 10.6 | 11 | J-2 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 37.0 |
| 6 B 124 Q | 12.75 | 12 | 12.4 | K-3 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 39.8 |
| 6 B 124 R | 12.75 | 12 | 12.4 | J-2 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 39.4 |
| 6 B 136 Q | 13.95 | 13.2 | 13.6 | K-3 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 44.9 |
| 6 B 136 R | 13.95 | 13.2 | 13.6 | K-3 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 45.3 |
| 6 B 154 Q | 15.75 | 15 | 15.4 | K-3 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 49.9 |
| 6 B 154 R | 15.75 | 15 | 15.4 | K-3 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 49.1 |
| 6 B 160 Q | 16.35 | 15.6 | 16 | K-3 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 54.0 |
| 6 B 160 R | 16.35 | 15.6 | 16 | K-3 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 52.0 |
| 6 B 184 Q | 18.75 | 18 | 18.4 | K-3 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 62.0 |
| 6 B 184 R | 18.75 | 18 | 18.4 | K-3 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 59.0 |
| 6 B 200 Q | 20.35 | 19.5 | 20 | K-3 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 74.0 |
| 6 B 200 R | 20.35 | 19.5 | 20 | K-3 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 69.0 |
| 6 B 250 Q | 25.35 | 24.5 | 25 | K-3 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 89.5 |
| 6 B 250 R | 25.35 | 24.5 | 25 | K-3 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 83.0 |
| 6 B 300 Q | 30.35 | 29.5 | 30 | K-3 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 128.0 |
| 6 B 300 R | 30.35 | 29.5 | 30 | K-3 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 126.0 |
| 6 B 380 Q | 38.35 | 37.5 | 38 | K-3 | Q2 | 2.63 | 1 | 0.75 | 0.28 | 1 | 2.75 | 2.75 | 179.0 |
| 6 B 380 R | 38.35 | 37.5 | 38 | K-3 | R1 | 3.75 | – | 0.88 | 0.28 | 2.75 | 2.88 | 2 | 170.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# Combination Groove Conventional MST® Bushed Stock Sheaves A-B




Type S



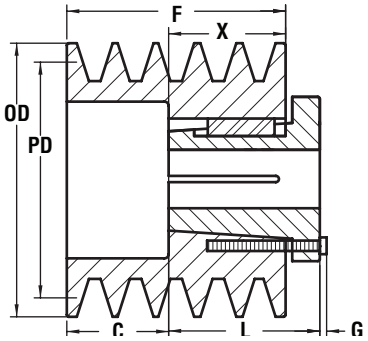

Type K

## A-B MST® Sheaves

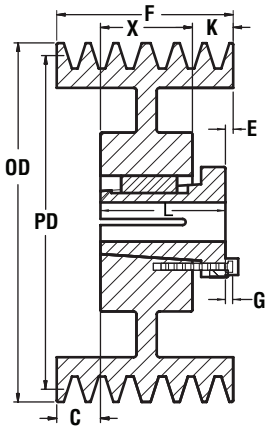
| 8 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 6.25 | | | | | | | | | | | | |
| Part Number | OD | PD | | Type | Bush | Bush Max Bore | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| | | A Belt | B Belt | | | | | | | | | |
| 8 B 54 Q | 5.75 | 5 | 5.4 | S-1 | Q2 | 2.63 | 0.75 | 0.28 | 3.50 | 3.50 | 2.75 | 18.1 |
| 8 B 56 Q | 5.95 | 5.2 | 5.6 | S-1 | Q2 | 2.63 | 0.75 | 0.28 | 3.50 | 3.50 | 2.75 | 20.6 |
| 8 B 58 Q | 6.15 | 5.4 | 5.8 | K-2 | Q2 | 2.63 | 0.75 | 0.28 | 3.50 | 3.50 | 2.75 | 20.9 |
| 8 B 60 Q | 6.35 | 5.6 | 6 | K-2 | Q2 | 2.63 | 0.75 | 0.28 | 3.50 | 3.50 | 2.75 | 23.0 |
| 8 B 62 Q | 6.55 | 5.8 | 6.2 | K-2 | Q2 | 2.63 | 0.75 | 0.28 | 3.50 | 3.50 | 2.75 | 23.0 |
| 8 B 64 Q | 6.55 | 5.8 | 6.2 | K-2 | Q2 | 2.63 | 0.75 | 0.28 | 3.50 | 3.50 | 2.75 | 25.0 |
| 8 B 66 Q | 6.95 | 6.2 | 6.6 | K-2 | Q2 | 2.63 | 0.75 | 0.28 | 3.50 | 3.50 | 2.75 | 27.3 |
| 8 B 68 Q | 7.15 | 6.4 | 6.8 | K-2 | Q2 | 2.63 | 0.75 | 0.28 | 3.50 | 3.50 | 2.75 | 31.1 |
| 8 B 70 R | 7.35 | 6.6 | 7 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 2.25 | 4.88 | 4 | 29.5 |
| 8 B 74 R | 7.75 | 7 | 7.4 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 2.25 | 4.88 | 4 | 34.9 |
| 8 B 80 R | 8.35 | 7.6 | 8 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 2.25 | 4.88 | 4 | 42.9 |
| 8 B 86 R | 8.95 | 8.2 | 8.6 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 2.25 | 4.88 | 4 | 52.0 |
| 8 B 90 R | 9.35 | 8.6 | 9 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 2.25 | 4.88 | 4 | 48.3 |
| 8 B 94 R | 9.75 | 9 | 9.4 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 2.25 | 4.88 | 4 | 49.3 |
| 8 B 110 R | 11.35 | 10.6 | 11 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 2.25 | 4.88 | 4 | 55.0 |
| 8 B 124 R | 12.75 | 12 | 12.4 | K-3 | R2 | 3.63 | 0.88 | 0.28 | 2.25 | 4.88 | 4 | 60.0 |
| 8 B 136 R | 13.95 | 13.2 | 13.6 | K-3 | R2 | 3.63 | 0.88 | 0.28 | 2.25 | 4.88 | 4 | 68.5 |
| 8 B 154 R | 15.75 | 15 | 15.4 | K-3 | R2 | 3.63 | 0.88 | 0.28 | 2.25 | 4.88 | 4 | 77.3 |
| 8 B 184 R | 18.75 | 18 | 18.4 | K-3 | R2 | 3.63 | 0.88 | 0.28 | 2.25 | 4.88 | 4 | 90.0 |
| 8 B 200 R | 20.35 | 19.5 | 20 | K-3 | R2 | 3.63 | 0.88 | 0.28 | 2.25 | 4.88 | 4 | 96.0 |
| 8 B 250 R | 25.35 | 24.5 | 25 | K-3 | R2 | 3.63 | 0.88 | 0.28 | 2.25 | 4.88 | 4 | 129.0 |
| 8 B 300 R | 30.35 | 29.5 | 30 | K-3 | R2 | 3.63 | 0.88 | 0.28 | 2.25 | 4.88 | 4 | 163.0 |
| 8 B 300 S | 30.35 | 29.5 | 30 | K-3 | S1 | 4.25 | 1.06 | 0.38 | 2.94 | 4.38 | 3.31 | 168.0 |
| 8 B 380 R | 38.35 | 37.5 | 38 | K-3 | R2 | 3.63 | 0.88 | 0.28 | 2.25 | 4.88 | 4 | 228.0 |
| 8 B 380 S | 38.35 | 37.5 | 38 | K-3 | S1 | 4.25 | 1.06 | 0.38 | 2.94 | 4.38 | 3.31 | 238.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# A-B Combination Groove Conventional MST® Bushed Stock Sheaves




Type S




Type K

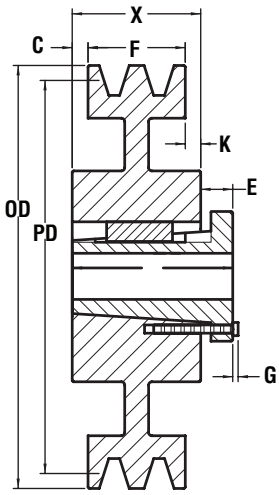
## A-B MST® Sheaves

| 10 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 7.75 | | | | | | | | | | | | |
| Part Number | OD | PD | | Type | Bush | Bush Max Bore | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| | | A Belt | B Belt | | | | | | | | | |
| 10 B 54 Q | 5.75 | 5 | 5.4 | S-1 | Q2 | 2.63 | 0.75 | 0.28 | 5 | 3.5 | 2.75 | 21.5 |
| 10 B 56 Q | 5.95 | 5.2 | 5.6 | S-1 | Q2 | 2.63 | 0.75 | 0.28 | 5 | 3.5 | 2.75 | 24.9 |
| 10 B 58 Q | 6.15 | 5.4 | 5.8 | K-2 | Q2 | 2.63 | 0.75 | 0.28 | 5 | 3.5 | 2.75 | 23.5 |
| 10 B 60 Q | 6.35 | 5.6 | 6 | K-2 | Q2 | 2.63 | 0.75 | 0.28 | 5 | 3.5 | 2.75 | 25.6 |
| 10 B 62 Q | 6.55 | 5.8 | 6.2 | K-2 | Q2 | 2.63 | 0.75 | 0.28 | 5 | 3.5 | 2.75 | 27.5 |
| 10 B 64 Q | 6.75 | 6 | 6.4 | K-2 | Q2 | 2.63 | 0.75 | 0.28 | 5 | 3.5 | 2.75 | 31.4 |
| 10 B 66 Q | 6.95 | 6.2 | 6.6 | K-2 | Q2 | 2.63 | 0.75 | 0.28 | 5 | 3.5 | 2.75 | 32.5 |
| 10 B 68 Q | 7.15 | 6.4 | 6.8 | K-2 | Q2 | 2.63 | 0.75 | 0.28 | 5 | 3.5 | 2.75 | 36.1 |
| 10 B 70 R | 7.35 | 6.6 | 7 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 3.75 | 4.88 | 4 | 34.0 |
| 10 B 74 R | 7.75 | 7 | 7.4 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 3.75 | 4.88 | 4 | 39.3 |
| 10 B 80 R | 8.35 | 7.6 | 8 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 3.75 | 4.88 | 4 | 48.5 |
| 10 B 86 R | 8.95 | 8.2 | 8.6 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 3.75 | 4.88 | 4 | 51.5 |
| 10 B 90 R | 9.35 | 8.6 | 9 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 3.75 | 4.88 | 4 | 52.3 |
| 10 B 94 R | 9.75 | 9 | 9.4 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 3.75 | 4.88 | 4 | 54.0 |
| 10 B 110 R | 11.35 | 10.6 | 11 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 3.75 | 4.88 | 4 | 61.0 |
| 10 B 124 R | 12.75 | 12 | 12.4 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 3.75 | 4.88 | 4 | 77.5 |
| 10 B 136 R | 13.95 | 13.2 | 13.6 | K-2 | R2 | 3.63 | 0.88 | 0.28 | 3.75 | 4.88 | 4 | 76.5 |
| 10 B 154 R | 15.75 | 15 | 15.4 | K-3 | R2 | 3.63 | 0.88 | 0.28 | 3.75 | 4.88 | 4 | 89.0 |
| 10 B 184 R | 18.75 | 18 | 18.4 | K-3 | R2 | 3.63 | 0.88 | 0.28 | 3.75 | 4.88 | 4 | 104.0 |
| 10 B 200 R | 20.35 | 19.5 | 20 | K-3 | R2 | 3.63 | 0.88 | 0.28 | 3.75 | 4.88 | 4 | 112.0 |
| 10 B 250 R | 25.35 | 24.5 | 25 | K-3 | R2 | 3.63 | 0.88 | 0.28 | 3.75 | 4.88 | 4 | 153.0 |
| 10 B 300 R | 30.35 | 29.5 | 30 | K-3 | R2 | 3.63 | 0.88 | 0.28 | 3.75 | 4.88 | 4 | 188.0 |
| 10 B 380 R | 38.35 | 37.5 | 38 | K-3 | R2 | 3.63 | 0.88 | 0.28 | 3.75 | 4.88 | 4 | 258.0 |
| 10 B 380 U | 38.35 | 37.5 | 38 | K-3 | U0 | 5.5 | 1.19 | 0.47 | 4 | 4.94 | 3.75 | 270.0 |

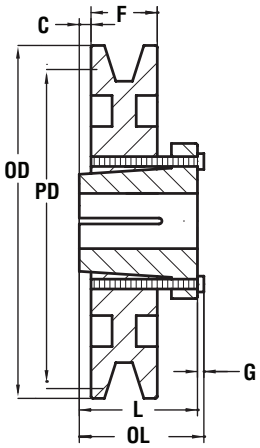
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# Conventional MST® Bushed Stock Sheaves

# C




Type L



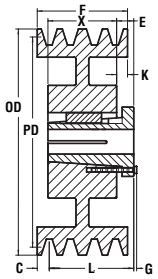

Type M

## C MST® Sheaves

| 1 Groove | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 1.25 | | | | | | | | | | | | |
| Part Number | OD | PD C Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 1 C 56 P | 6 | 5.6 | M-1 | P1 | 1.75 | 0.06 | 0.63 | 0.25 | – | 1.94 | 1.31 | 6.0 |
| 1 C 60 Q | 6.4 | 6 | M-1 | Q1 | 2.69 | 0.5 | 0.75 | 0.28 | – | 2.5 | 1.75 | 6.1 |
| 1 C 70 Q | 7.4 | 7 | M-1 | Q1 | 2.69 | 0.5 | 0.75 | 0.28 | – | 2.5 | 1.25 | 9.3 |
| 1 C 72 Q | 7.6 | 7.2 | M-2 | Q1 | 2.69 | 0.5 | 0.75 | 0.28 | – | 2.5 | 1.25 | 10.1 |
| 1 C 74 Q | 7.8 | 7.4 | M-2 | Q1 | 2.69 | 0.5 | 0.75 | 0.28 | – | 2.5 | 1.25 | 10.8 |
| 1 C 76 Q | 8 | 7.6 | M-2 | Q1 | 2.69 | 0.5 | 0.75 | 0.28 | – | 2.5 | 1.25 | 11.4 |
| 1 C 78 Q | 8.2 | 7.8 | M-2 | Q1 | 2.69 | 0.5 | 0.75 | 0.28 | – | 2.5 | 1.25 | 9.8 |
| 1 C 80 Q | 8.4 | 8 | M-2 | Q1 | 2.69 | 0.5 | 0.75 | 0.28 | – | 2.5 | 1.25 | 9.9 |
| 1 C 82 Q | 8.6 | 8.2 | M-2 | Q1 | 2.69 | 0.5 | 0.75 | 0.28 | – | 2.5 | 1.25 | 10.1 |
| 1 C 84 Q | 8.8 | 8.4 | M-2 | Q1 | 2.69 | 0.5 | 0.75 | 0.28 | – | 2.5 | 1.25 | 11.0 |
| 1 C 86 Q | 9 | 8.6 | M-2 | Q1 | 2.69 | 0.5 | 0.75 | 0.28 | – | 2.5 | 1.25 | 10.6 |
| 1 C 88 Q | 9.2 | 8.8 | M-2 | Q1 | 2.69 | 0.5 | 0.75 | 0.28 | – | 2.5 | 1.25 | 11.6 |
| 1 C 90 Q | 9.4 | 9 | M-2 | Q1 | 2.69 | 0.5 | 0.75 | 0.28 | – | 2.5 | 1.25 | 11.4 |
| 1 C 92 Q | 9.6 | 9.2 | M-2 | Q1 | 2.69 | 0.5 | 0.75 | 0.28 | – | 2.5 | 1.25 | 12.6 |
| 1 C 94 Q | 9.8 | 9.4 | L-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 1 | 2.5 | 1.75 | 14.8 |
| 1 C 96 Q | 10 | 9.6 | L-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 1 | 2.5 | 1.75 | 15.8 |
| 1 C 98 Q | 10.2 | 9.8 | L-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 1 | 2.5 | 1.75 | 15.9 |
| 1 C 100 Q | 10.4 | 10 | L-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 1 | 2.5 | 1.75 | 16.8 |
| 1 C 102 Q | 10.6 | 10.2 | L-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 1 | 2.5 | 1.75 | 16.1 |
| 1 C 106 Q | 11 | 10.6 | L-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 1 | 2.5 | 1.75 | 17.3 |
| 1 C 110 Q | 11.4 | 11 | L-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 1 | 2.5 | 1.75 | 17.5 |
| 1 C 114 Q | 11.8 | 11.4 | L-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 1 | 2.5 | 1.75 | 18.6 |
| 1 C 120 Q | 12.4 | 12 | L-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 1 | 2.5 | 1.75 | 19.5 |
| 1 C 130 Q | 13.4 | 13 | L-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 1 | 2.5 | 1.75 | 22.8 |
| 1 C 160 Q | 16.4 | 16 | L-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 1 | 2.5 | 1.75 | 28.5 |
| 1 C 200 Q | 20.4 | 20 | L-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 1 | 2.5 | 1.75 | 37.8 |
| 1 C 240 Q | 24.4 | 24 | L-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 1 | 2.5 | 1.75 | 49.5 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings  1 = Solid  2 = Web  3 = Spoked

# C Conventional MST® Bushed Stock Sheaves




Type J

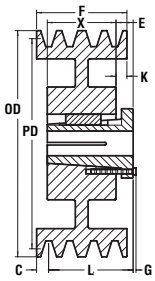
## C MST® Sheaves

| 2 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 2.25 | | | | | | | | | | | | |
| Part Number | OD | PD C Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 2 C 56 P | 6 | 5.6 | J-2 | P1 | 1.75 | 0.31 | 0.63 | 0.25 | 0.63 | 1.94 | 1.31 | 6.0 |
| 2 C 60 Q | 6.4 | 6 | J-2 | Q1 | 2.69 | 0 | 0.75 | 0.28 | 0.5 | 2.5 | 1.75 | 6.1 |
| 2 C 70 Q | 7.4 | 7 | J-2 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 9.3 |
| 2 C 72 Q | 7.6 | 7.2 | J-2 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 10.1 |
| 2 C 74 Q | 7.8 | 7.4 | J-2 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 10.8 |
| 2 C 76 Q | 8 | 7.6 | J-2 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 11.4 |
| 2 C 78 Q | 8.2 | 7.8 | J-2 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 9.8 |
| 2 C 80 Q | 8.4 | 8 | J-2 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 9.9 |
| 2 C 82 Q | 8.6 | 8.2 | J-2 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 10.1 |
| 2 C 84 Q | 8.8 | 8.4 | J-2 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 11.0 |
| 2 C 86 Q | 9 | 8.6 | J-2 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 10.6 |
| 2 C 88 Q | 9.2 | 8.8 | J-2 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 11.6 |
| 2 C 90 Q | 9.4 | 9 | J-2 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 11.4 |
| 2 C 92 Q | 9.6 | 9.2 | J-2 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 12.6 |
| 2 C 94 Q | 9.8 | 9.4 | J-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 14.8 |
| 2 C 96 Q | 10 | 9.6 | J-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 15.8 |
| 2 C 98 Q | 10.2 | 9.8 | J-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 15.9 |
| 2 C 100 Q | 10.4 | 10 | J-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 16.8 |
| 2 C 102 Q | 10.6 | 10.2 | J-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 16.1 |
| 2 C 106 Q | 11 | 10.6 | J-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 17.3 |
| 2 C 110 Q | 11.4 | 11 | J-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 17.5 |
| 2 C 114 Q | 11.8 | 11.4 | J-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 18.6 |
| 2 C 120 Q | 12.4 | 12 | J-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 19.5 |
| 2 C 130 Q | 13.4 | 13 | J-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 22.8 |
| 2 C 140 R | 14.4 | 14 | J-3 | R1 | 3.75 | 0.13 | 0.88 | 0.28 | 0.13 | 2.88 | 2 | 28.5 |
| 2 C 160 Q | 16.4 | 16 | J-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 37.8 |
| 2 C 180 R | 18.4 | 18 | J-3 | R1 | 3.75 | 0.13 | 0.88 | 0.28 | 0.13 | 2.88 | 2 | 49.5 |
| 2 C 200 Q | 20.4 | 20 | J-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 46.0 |
| 2 C 240 Q | 24.4 | 24 | J-3 | Q1 | 2.69 | 0.25 | 0.75 | 0.28 | 0.25 | 2.5 | 1.75 | 59.5 |
| 2 C 270 R | 27.4 | 27 | J-3 | R1 | 3.75 | 0.13 | 0.88 | 0.28 | 0.13 | 2.88 | 2 | 77.0 |
| 2 C 300 R | 30.4 | 30 | J-3 | R1 | 3.75 | 0.13 | 0.88 | 0.28 | 0.13 | 2.88 | 2 | 93.0 |
| 2 C 360 R | 36.4 | 36 | J-3 | R1 | 3.75 | 0.13 | 0.88 | 0.28 | 0.13 | 2.88 | 2 | 117.0 |
| 2 C 440 R | 44.4 | 44 | J-3 | R1 | 3.75 | 0.13 | 0.88 | 0.28 | 0.13 | 2.88 | 2 | 164.0 |

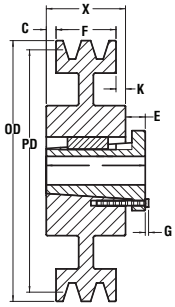
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# Conventional MST® Bushed Stock Sheaves

# C




Type J




Type L

## C MST® Sheaves

| 3 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 3.25 | | | | | | | | | | | | |
| Part Number | OD | PD C Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 3 C 50 Q | 5.4 | 5 | J-1 | Q1 | 2.69 | 1.5 | 0.75 | 0.28 | – | 2.5 | 1.75 | 8.4 |
| 3 C 56 P | 6 | 5.6 | J-2 | P2 | 1.75 | 0.31 | 0.63 | 0.25 | 0.63 | 2.94 | 2.31 | 12.9 |
| 3 C 60 Q | 6.4 | 6 | J-2 | Q1 | 2.69 | 0.63 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 11.8 |
| 3 C 70 Q | 7.4 | 7 | J-2 | Q1 | 2.69 | 0.63 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 16.8 |
| 3 C 72 Q | 7.6 | 7.2 | J-2 | Q1 | 2.69 | 0.63 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 18.0 |
| 3 C 74 Q | 7.8 | 7.4 | J-2 | Q1 | 2.69 | 0.63 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 19.1 |
| 3 C 76 Q | 8 | 7.6 | J-2 | Q1 | 2.69 | 0.63 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 21.3 |
| 3 C 78 Q | 8.2 | 7.8 | J-2 | Q1 | 2.69 | 0.63 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 17.4 |
| 3 C 80 Q | 8.4 | 8 | J-2 | Q1 | 2.69 | 0.63 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 17.8 |
| 3 C 82 Q | 8.6 | 8.2 | J-2 | Q1 | 2.69 | 0.63 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 17.9 |
| 3 C 84 Q | 8.8 | 8.4 | J-2 | Q1 | 2.69 | 0.63 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 20.4 |
| 3 C 86 Q | 9 | 8.6 | J-2 | Q1 | 2.69 | 0.63 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 19.5 |
| 3 C 88 Q | 9.2 | 8.8 | J-2 | Q1 | 2.69 | 0.63 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 22.5 |
| 3 C 90 R | 9.4 | 9 | J-2 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.75 | 2.88 | 2 | 27.3 |
| 3 C 90 Q | 9.4 | 9 | J-2 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 20.4 |
| 3 C 92 R | 9.6 | 9.2 | J-2 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.75 | 2.88 | 2 | 27.5 |
| 3 C 92 Q | 9.6 | 9.2 | J-2 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 22.8 |
| 3 C 94 R | 9.8 | 9.4 | J-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.75 | 2.88 | 2 | 26.9 |
| 3 C 94 Q | 9.8 | 9.4 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 23.0 |
| 3 C 96 R | 10 | 9.6 | J-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.75 | 2.88 | 2 | 28.4 |
| 3 C 96 Q | 10 | 9.6 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 25.3 |
| 3 C 98 R | 10.2 | 9.8 | J-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.75 | 2.88 | 2 | 29.3 |
| 3 C 98 Q | 10.2 | 9.8 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 24.4 |
| 3 C 100 R | 10.4 | 10 | J-2 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 29.0 |
| 3 C 100 Q | 10.4 | 10 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 27.6 |
| 3 C 102 R | 10.6 | 10.2 | J-2 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 31.4 |
| 3 C 102 Q | 10.6 | 10.2 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 24.9 |
| 3 C 106 R | 11 | 10.6 | J-2 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 31.8 |
| 3 C 106 Q | 11 | 10.6 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 26.9 |
| 3 C 110 R | 11.4 | 11 | J-2 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 29.3 |
| 3 C 110 Q | 11.4 | 11 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 27.4 |
| 3 C 114 Q | 11.8 | 11.4 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 28.3 |
| 3 C 120 R | 12.4 | 12 | J-2 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 36.9 |
| 3 C 120 Q | 12.4 | 12 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 30.3 |
| 3 C 130 R | 13.4 | 13 | J-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 34.8 |
| 3 C 130 Q | 13.4 | 13 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 34.9 |
| 3 C 140 R | 14.4 | 14 | J-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 39.4 |
| 3 C 150 R | 15.4 | 15 | J-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 43.8 |
| 3 C 160 R | 16.4 | 16 | J-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 47.0 |
| 3 C 160 Q | 16.4 | 16 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 46.0 |
| 3 C 180 R | 18.4 | 18 | J-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 51.5 |
| 3 C 200 R | 20.4 | 20 | J-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 58.0 |
| 3 C 200 Q | 20.4 | 20 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 54.5 |
| 3 C 240 R | 24.4 | 24 | J-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 71.0 |
| 3 C 240 Q | 24.4 | 24 | J-3 | Q1 | 2.69 | 0.75 | 0.75 | 0.28 | 0.75 | 2.5 | 1.75 | 71.0 |
| 3 C 270 R | 27.4 | 27 | J-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 92.0 |
| 3 C 300 R | 30.4 | 30 | J-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 110.0 |
| 3 C 360 R | 36.4 | 36 | J-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 135.0 |
| 3 C 440 R | 44.4 | 44 | J-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 196.0 |
| 3 C 500 R | 50.4 | 50 | J-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 0.63 | 2.88 | 2 | 213.0 |
| 3 C 500 S | 50.4 | 50 | L-3 | S1 | 4.25 | 0.03 | 1.06 | 0.38 | 0.03 | 4.38 | 3.31 | 224.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# C Conventional MST® Bushed Stock Sheaves

## C MST® Sheaves

| 4 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 4.25 | | | | | | | | | | | | |
| Part Number | OD | PD C Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 4 C 50 Q | 5.4 | 5 | J-1 | Q2 | 2.63 | 1.5 | 2.75 | 0.28 | – | 3.5 | 2.75 | 10.9 |
| 4 C 56 P | 6 | 5.6 | J-2 | P2 | 1.75 | 1.31 | 0.63 | 0.25 | 0.63 | 2.94 | 2.31 | 15.4 |
| 4 C 60 Q | 6.4 | 6 | J-2 | Q2 | 2.63 | 0.75 | 2.75 | 0.28 | 0.88 | 3.5 | 2.75 | 17.0 |
| 4 C 70 Q | 7.4 | 7 | J-2 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 23.8 |
| 4 C 72 Q | 7.6 | 7.2 | J-2 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 26.8 |
| 4 C 74 Q | 7.8 | 7.4 | J-2 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 27.5 |
| 4 C 76 Q | 8 | 7.6 | J-2 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 30.3 |
| 4 C 78 Q | 8.2 | 7.8 | J-2 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 26.4 |
| 4 C 80 Q | 8.4 | 8 | J-2 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 29.0 |
| 4 C 82 Q | 8.6 | 8.2 | J-2 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 26.8 |
| 4 C 84 Q | 8.8 | 8.4 | J-2 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 28.8 |
| 4 C 86 Q | 9 | 8.6 | J-2 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 27.9 |
| 4 C 88 Q | 9.2 | 8.8 | J-2 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 31.6 |
| 4 C 90 R | 9.4 | 9 | K-2 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 30.0 |
| 4 C 90 Q | 9.4 | 9 | J-2 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 28.4 |
| 4 C 92 R | 9.6 | 9.2 | K-2 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 31.6 |
| 4 C 92 Q | 9.6 | 9.2 | J-2 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 32.3 |
| 4 C 94 R | 9.8 | 9.4 | K-2 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 31.6 |
| 4 C 94 Q | 9.8 | 9.4 | J-2 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 31.8 |
| 4 C 96 R | 10 | 9.6 | K-2 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 31.1 |
| 4 C 96 Q | 10 | 9.6 | J-2 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 35.2 |
| 4 C 98 R | 10.2 | 9.8 | K-2 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 33.4 |
| 4 C 98 Q | 10.2 | 9.8 | J-2 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 33.0 |
| 4 C 100 R | 10.4 | 10 | K-2 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 34.1 |
| 4 C 100 Q | 10.4 | 10 | J-3 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 37.0 |
| 4 C 102 R | 10.6 | 10.2 | K-2 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 36.5 |
| 4 C 102 Q | 10.6 | 10.2 | J-3 | Q2 | 2.63 | 0.75 | 0.88 | 0.28 | 0.75 | 3.5 | 2.75 | 33.5 |
| 4 C 106 R | 11 | 10.6 | K-2 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 36.5 |
| 4 C 106 Q | 11 | 10.6 | J-3 | Q2 | 2.63 | 0.75 | 0.88 | 0.28 | 0.75 | 3.5 | 2.75 | 36.3 |
| 4 C 110 R | 11.4 | 11 | K-2 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 33.0 |
| 4 C 110 Q | 11.4 | 11 | J-3 | Q2 | 2.63 | 0.75 | 0.88 | 0.28 | 0.75 | 3.5 | 2.75 | 36.3 |
| 4 C 114 Q | 11.8 | 11.4 | J-3 | Q2 | 2.63 | 0.75 | 0.75 | 0.28 | 0.75 | 3.5 | 2.75 | 38.4 |
| 4 C 120 R | 12.4 | 12 | K-2 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 42.9 |
| 4 C 120 Q | 12.4 | 12 | J-3 | Q2 | 2.63 | 0.75 | 0.88 | 0.28 | 0.75 | 3.5 | 2.75 | 40.5 |
| 4 C 130 R | 13.4 | 13 | K-3 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 40.1 |
| 4 C 130 Q | 13.4 | 13 | J-3 | Q2 | 2.63 | 0.75 | 0.88 | 0.28 | 0.75 | 3.5 | 2.75 | 43.6 |
| 4 C 140 R | 14.4 | 14 | K-3 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 46.6 |
| 4 C 150 R | 15.4 | 15 | K-3 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 52.0 |
| 4 C 160 R | 16.4 | 16 | K-3 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 55.0 |
| 4 C 160 Q | 16.4 | 16 | J-3 | Q2 | 2.63 | 0.75 | 0.88 | 0.28 | 0.75 | 3.5 | 2.75 | 55.0 |
| 4 C 180 R | 18.4 | 18 | K-3 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 60.0 |
| 4 C 180 S | 18.4 | 18 | J-3 | S1 | 4.25 | 0.47 | 1.06 | 0.38 | 0.47 | 4.38 | 3.31 | 92.0 |
| 4 C 200 R | 20.4 | 20 | K-3 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 69.0 |
| 4 C 200 S | 20.4 | 20 | J-3 | S1 | 4.25 | 0.47 | 1.06 | 0.38 | 0.47 | 4.38 | 3.31 | 103.0 |
| 4 C 200 Q | 20.4 | 20 | J-3 | Q2 | 2.63 | 0.75 | 1.06 | 0.28 | 0.75 | 3.5 | 2.75 | 103.0 |
| 4 C 240 R | 24.4 | 24 | K-3 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 86.0 |
| 4 C 240 S | 24.4 | 24 | J-3 | S1 | 4.25 | 0.47 | 1.06 | 0.38 | 0.47 | 4.38 | 3.31 | 120.0 |
| 4 C 240 Q | 24.4 | 24 | J-3 | Q2 | 2.63 | 0.75 | 1.06 | 0.28 | 0.75 | 3.5 | 2.75 | 120.0 |
| 4 C 270 R | 27.4 | 27 | K-3 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 110.0 |
| 4 C 270 S | 27.4 | 27 | J-3 | S1 | 4.25 | 0.47 | 1.06 | 0.38 | 0.47 | 4.38 | 3.31 | 123.0 |
| 4 C 300 R | 30.4 | 30 | K-3 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 123.0 |
| 4 C 300 S | 30.4 | 30 | J-3 | S1 | 4.25 | 0.47 | 1.06 | 0.38 | 0.47 | 4.38 | 3.31 | 142.0 |
| 4 C 360 R | 36.4 | 36 | K-3 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 156.0 |
| 4 C 360 S | 36.4 | 36 | J-3 | S1 | 4.25 | 0.47 | 1.06 | 0.38 | 0.47 | 4.38 | 3.31 | 183.0 |
| 4 C 440 R | 44.4 | 44 | K-3 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 218.0 |
| 4 C 440 U | 44.4 | 44 | J-3 | U0 | 5.5 | 0.25 | 1.19 | 0.47 | 0.25 | 4.94 | 3.75 | 241.0 |
| 4 C 500 R | 50.4 | 50 | K-3 | R1 | 3.75 | 1.13 | 0.88 | 0.28 | 1.13 | 2.88 | 2 | 240.0 |
| 4 C 500 U | 50.4 | 50 | J-3 | U0 | 5.5 | 0.25 | 1.19 | 0.47 | 0.25 | 4.94 | 3.75 | 283.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

## C MST® Sheaves

| 5 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 5.25 | | | | | | | | | | | | |
| Part Number | OD | PD C Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 5 C 70 Q | 7.4 | 7 | K-2 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 27.5 |
| 5 C 72 Q | 7.6 | 7.2 | K-2 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 29.8 |
| 5 C 74 Q | 7.8 | 7.4 | K-2 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 31.0 |
| 5 C 76 Q | 8 | 7.6 | K-2 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 34.3 |
| 5 C 78 Q | 8.2 | 7.8 | K-2 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 30.0 |
| 5 C 80 Q | 8.4 | 8 | K-2 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 33.4 |
| 5 C 82 Q | 8.6 | 8.2 | K-2 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 30.3 |
| 5 C 84 Q | 8.8 | 8.4 | K-2 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 32.8 |
| 5 C 86 Q | 9 | 8.6 | K-2 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 31.0 |
| 5 C 88 Q | 9.2 | 8.8 | K-2 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 34.9 |
| 5 C 90 R | 9.4 | 9 | K-2 | R1 | 3.75 | 1.63 | 0.88 | 0.28 | 1.63 | 2.88 | 2 | 33.4 |
| 5 C 90 Q | 9.4 | 9 | K-2 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 32.6 |
| 5 C 92 R | 9.6 | 9.2 | K-2 | R1 | 3.75 | 1.63 | 0.88 | 0.28 | 1.63 | 2.88 | 2 | 36.8 |
| 5 C 92 Q | 9.6 | 9.2 | K-2 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 36.4 |
| 5 C 94 R | 9.8 | 9.4 | K-2 | R1 | 3.75 | 1.63 | 0.88 | 0.28 | 1.63 | 2.88 | 2 | 35.8 |
| 5 C 94 Q | 9.8 | 9.4 | K-3 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 35.6 |
| 5 C 96 R | 10 | 9.6 | K-2 | R1 | 3.75 | 1.63 | 0.88 | 0.28 | 1.63 | 2.88 | 2 | 35.4 |
| 5 C 96 Q | 10 | 9.6 | K-3 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 39.1 |
| 5 C 98 R | 10.2 | 9.8 | K-2 | R1 | 3.75 | 1.63 | 0.88 | 0.28 | 1.63 | 2.88 | 2 | 37.6 |
| 5 C 98 Q | 10.2 | 9.8 | K-3 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 37.3 |
| 5 C 100 R | 10.4 | 10 | K-2 | R1 | 3.75 | 1.63 | 0.88 | 0.28 | 1.63 | 2.88 | 2 | 38.9 |
| 5 C 100 Q | 10.4 | 10 | K-3 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 42.3 |
| 5 C 102 R | 10.6 | 10.2 | K-2 | R1 | 3.75 | 1.63 | 0.88 | 0.28 | 1.63 | 2.88 | 2 | 40.6 |
| 5 C 102 Q | 10.6 | 10.2 | K-3 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 39.4 |
| 5 C 106 R | 11 | 10.6 | K-2 | R1 | 3.75 | 1.63 | 0.88 | 0.28 | 1.63 | 2.88 | 2 | 39.0 |
| 5 C 106 Q | 11 | 10.6 | K-3 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 41.0 |
| 5 C 110 R | 11.4 | 11 | K-2 | R1 | 3.75 | 1.63 | 0.88 | 0.28 | 1.63 | 2.88 | 2 | 38.8 |
| 5 C 110 Q | 11.4 | 11 | K-3 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 42.4 |
| 5 C 114 Q | 11.8 | 11.4 | K-3 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 42.8 |
| 5 C 120 R | 12.4 | 12 | K-2 | R1 | 3.75 | 1.63 | 0.88 | 0.28 | 1.63 | 2.88 | 2 | 47.5 |
| 5 C 120 Q | 12.4 | 12 | K-3 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 46.3 |
| 5 C 130 R | 13.4 | 13 | K-3 | R1 | 3.75 | 1.63 | 0.88 | 0.28 | 1.63 | 2.88 | 2 | 46.0 |
| 5 C 130 Q | 13.4 | 13 | K-3 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 49.5 |
| 5 C 140 R | 14.4 | 14 | K-3 | R1 | 3.75 | 1.63 | 0.88 | 0.28 | 1.63 | 2.88 | 2 | 52.0 |
| 5 C 150 R | 15.4 | 15 | K-3 | R1 | 3.75 | 1.63 | 0.88 | 0.28 | 1.63 | 2.88 | 2 | 54.0 |
| 5 C 160 R | 16.4 | 16 | K-3 | R1 | 3.75 | 1.63 | 0.88 | 0.28 | 1.63 | 2.88 | 2 | 63.0 |
| 5 C 160 Q | 16.4 | 16 | K-3 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 64.5 |
| 5 C 180 R | 18.4 | 18 | K-3 | R1 | 3.75 | 1.63 | 0.88 | 0.28 | 1.63 | 2.88 | 2 | 69.0 |
| 5 C 180 S | 18.4 | 18 | J-3 | S1 | 4.25 | 0.97 | 1.06 | 0.38 | 0.97 | 4.38 | 3.31 | 100.0 |
| 5 C 200 R | 20.4 | 20 | K-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 2.63 | 2.88 | 2 | 77.0 |
| 5 C 200 S | 20.4 | 20 | J-3 | S1 | 4.25 | 0.97 | 1.06 | 0.38 | 0.97 | 4.38 | 3.31 | 99.0 |
| 5 C 200 Q | 20.4 | 20 | K-3 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 78.0 |
| 5 C 240 R | 24.4 | 24 | K-3 | R1 | 3.75 | 0.63 | 0.88 | 0.28 | 2.63 | 2.88 | 2 | 110.0 |
| 5 C 240 S | 24.4 | 24 | J-3 | S1 | 4.25 | 0.97 | 1.06 | 0.38 | 0.97 | 4.38 | 3.31 | 129.0 |
| 5 C 240 Q | 24.4 | 24 | K-3 | Q2 | 2.63 | 1.25 | 0.75 | 0.28 | 1.25 | 3.5 | 2.75 | 96.0 |
| 5 C 270 R | 27.4 | 27 | J-3 | R2 | 3.63 | 0.63 | 0.88 | 0.28 | 0.63 | 4.88 | 4 | 131.0 |
| 5 C 300 R | 30.4 | 30 | J-3 | R2 | 3.63 | 0.63 | 0.88 | 0.28 | 0.63 | 4.88 | 4 | 150.0 |
| 5 C 300 S | 30.4 | 30 | J-3 | S1 | 4.25 | 0.97 | 1.06 | 0.38 | 0.97 | 4.38 | 3.31 | 160.0 |
| 5 C 360 R | 36.4 | 36 | J-3 | R2 | 3.63 | 0.63 | 0.88 | 0.28 | 0.63 | 4.88 | 4 | 194.0 |
| 5 C 440 R | 44.4 | 44 | J-3 | R2 | 3.63 | 0.63 | 0.88 | 0.28 | 0.63 | 4.88 | 4 | 243.0 |
| 5 C 500 R | 50.4 | 50 | J-3 | R2 | 3.63 | 0.63 | 0.88 | 0.28 | 0.63 | 4.88 | 4 | 273.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# C Conventional MST® Bushed Stock Sheaves

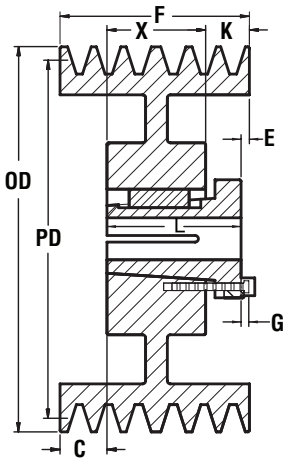
## C MST® Sheaves

| 6 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 6.25 | | | | | | | | | | | | |
| Part Number | OD | PD C Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 6 C 70 Q | 7.4 | 7 | K-2 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 29.9 |
| 6 C 72 Q | 7.6 | 7.2 | K-2 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 33.6 |
| 6 C 74 Q | 7.8 | 7.4 | K-2 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 33.3 |
| 6 C 76 Q | 8 | 7.6 | K-2 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 37.9 |
| 6 C 78 Q | 8.2 | 7.8 | K-2 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 33.5 |
| 6 C 80 Q | 8.4 | 8 | K-2 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 37.6 |
| 6 C 82 Q | 8.6 | 8.2 | K-2 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 34.0 |
| 6 C 84 Q | 8.8 | 8.4 | K-2 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 37.0 |
| 6 C 86 Q | 9 | 8.6 | K-2 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 35.0 |
| 6 C 88 Q | 9.2 | 8.8 | K-2 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 39.4 |
| 6 C 90 R | 9.4 | 9 | K-2 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 53.0 |
| 6 C 90 Q | 9.4 | 9 | K-2 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 36.8 |
| 6 C 92 R | 9.6 | 9.2 | K-2 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 58.0 |
| 6 C 92 Q | 9.6 | 9.2 | K-2 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 41.0 |
| 6 C 94 R | 9.8 | 9.4 | K-2 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 63.5 |
| 6 C 94 Q | 9.8 | 9.4 | K-3 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 39.4 |
| 6 C 96 R | 10 | 9.6 | K-2 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 55.0 |
| 6 C 96 Q | 10 | 9.6 | K-3 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 43.6 |
| 6 C 98 R | 10.2 | 9.8 | K-2 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 65.0 |
| 6 C 98 Q | 10.2 | 9.8 | K-3 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 42.0 |
| 6 C 100 R | 10.4 | 10 | K-2 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 62.0 |
| 6 C 100 Q | 10.4 | 10 | K-3 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 47.3 |
| 6 C 102 R | 10.6 | 10.2 | K-2 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 68.0 |
| 6 C 102 Q | 10.6 | 10.2 | K-3 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 44.4 |
| 6 C 106 R | 11 | 10.6 | K-2 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 55.0 |
| 6 C 106 Q | 11 | 10.6 | K-3 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 45.4 |
| 6 C 110 R | 11.4 | 11 | K-2 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 51.5 |
| 6 C 110 Q | 11.4 | 11 | K-3 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 47.0 |
| 6 C 114 Q | 11.8 | 11.4 | K-3 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 49.6 |
| 6 C 120 R | 12.4 | 12 | K-2 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 64.0 |
| 6 C 120 Q | 12.4 | 12 | K-3 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 51.0 |
| 6 C 130 R | 13.4 | 13 | K-3 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 61.0 |
| 6 C 130 Q | 13.4 | 13 | K-3 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 56.0 |
| 6 C 140 R | 14.4 | 14 | K-3 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 69.0 |
| 6 C 150 R | 15.4 | 15 | K-3 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 68.0 |
| 6 C 160 R | 16.4 | 16 | K-3 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 77.0 |
| 6 C 160 Q | 16.4 | 16 | K-3 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 72.0 |
| 6 C 180 R | 18.4 | 18 | K-3 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 84.0 |
| 6 C 180 S | 18.4 | 18 | K-3 | S1 | 4.25 | 1.47 | 1.06 | 0.28 | 1.47 | 4.38 | 3.31 | 107.0 |
| 6 C 200 R | 20.4 | 20 | K-3 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 91.5 |
| 6 C 200 S | 20.4 | 20 | K-3 | S1 | 4.25 | 1.47 | 1.06 | 0.38 | 1.47 | 4.38 | 3.31 | 127.0 |
| 6 C 200 Q | 20.4 | 20 | K-3 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 88.3 |
| 6 C 240 R | 24.4 | 24 | K-3 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 116.0 |
| 6 C 240 S | 24.4 | 24 | K-3 | S1 | 4.25 | 1.47 | 1.06 | 0.38 | 1.47 | 4.38 | 3.31 | 125.0 |
| 6 C 240 Q | 24.4 | 24 | K-3 | Q2 | 2.63 | 1.75 | 0.75 | 0.28 | 1.75 | 3.5 | 2.75 | 108.0 |
| 6 C 270 R | 27.4 | 27 | K-3 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 144.0 |
| 6 C 270 S | 27.4 | 27 | K-3 | S1 | 4.25 | 1.47 | 1.06 | 0.38 | 1.47 | 4.38 | 3.31 | 151.0 |
| 6 C 300 R | 30.4 | 30 | K-3 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 160.0 |
| 6 C 300 U | 30.4 | 30 | K-3 | U0 | 5.5 | 1.25 | 1.19 | 0.47 | 1.25 | 4.94 | 3.75 | 191.0 |
| 6 C 360 R | 36.4 | 36 | K-3 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 211.0 |
| 6 C 360 U | 36.4 | 36 | K-3 | U0 | 5.5 | 1.25 | 1.19 | 0.47 | 1.25 | 4.94 | 3.75 | 233.0 |
| 6 C 440 R | 44.4 | 44 | K-3 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 286.0 |
| 6 C 500 R | 50.4 | 50 | K-3 | R2 | 3.63 | 1.13 | 0.88 | 0.28 | 1.13 | 4.88 | 4 | 303.0 |

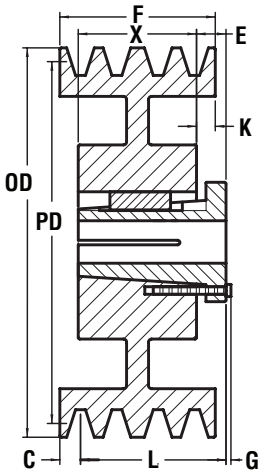
NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# Conventional MST® Bushed Stock Sheaves

# C




Type K



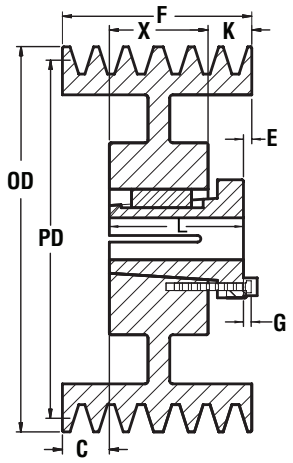

Type J

## C MST® Sheaves

| 7 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 7.25 | | | | | | | | | | | | |
| Part Number | OD | PD C Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 7 C 70 Q | 7.4 | 7 | K-2 | Q3 | 2.50 | 1.50 | 0.750 | 0.281 | 1.50 | 50 | 00 | 37.5 |
| 7 C 80 R | 8.4 | 8 | K-2 | R2 | 3.625 | 1.625 | 0.875 | 0.281 | 1.625 | 4.875 | 40 | 45.6 |
| 7 C 86 R | 9 | 8.6 | K-2 | R2 | 3.625 | 1.625 | 0.875 | 0.281 | 1.625 | 4.875 | 40 | 52.8 |
| 7 C 90 R | 9.4 | 9 | K-2 | R2 | 3.625 | 1.625 | 0.875 | 0.281 | 1.625 | 4.875 | 40 | 58.0 |
| 7 C 92 R | 9.6 | 9.2 | K-2 | R2 | 3.625 | 1.625 | 0.875 | 0.281 | 1.625 | 4.875 | 40 | 63.0 |
| 7 C 94 R | 9.8 | 9.4 | K-2 | R2 | 3.625 | 1.625 | 0.875 | 0.281 | 1.625 | 4.875 | 40 | 68.0 |
| 7 C 98 R | 10.2 | 9.8 | K-2 | R2 | 3.625 | 1.625 | 0.875 | 0.281 | 1.625 | 4.875 | 40 | 73.0 |
| 7 C 100 R | 10.4 | 10 | K-2 | R2 | 3.625 | 1.625 | 0.875 | 0.281 | 1.625 | 4.875 | 40 | 71.0 |
| 7 C 102 R | 10.6 | 10.2 | K-2 | R2 | 3.625 | 1.625 | 0.875 | 0.281 | 1.625 | 4.875 | 40 | 76.0 |
| 7 C 106 R | 11 | 10.6 | K-2 | R2 | 3.625 | 1.625 | 0.875 | 0.281 | 1.625 | 4.875 | 40 | 71.0 |
| 7 C 110 R | 11.4 | 11 | K-2 | R2 | 3.625 | 1.625 | 0.875 | 0.281 | 1.625 | 4.875 | 40 | 68.0 |
| 7 C 120 R | 12.4 | 12 | K-2 | R2 | 3.625 | 1.625 | 0.875 | 0.281 | 1.625 | 4.875 | 40 | 67.0 |
| 7 C 130 R | 13.4 | 13 | K-3 | R2 | 3.625 | 1.625 | 0.875 | 0.281 | 1.625 | 4.875 | 40 | 84.0 |
| 7 C 140 R | 14.4 | 14 | K-3 | R2 | 3.625 | 1.625 | 0.875 | 0.281 | 1.625 | 4.875 | 40 | 83.0 |
| 7 C 150 R | 15.4 | 15 | K-3 | R2 | 3.625 | 1.625 | 0.875 | 0.281 | 1.625 | 4.875 | 40 | 86.0 |
| 7 C 160 R | 16.4 | 16 | K-3 | R2 | 3.625 | 1.625 | 0.875 | 0.281 | 1.625 | 4.875 | 40 | 88.0 |
| 7 C 180 S | 18.4 | 18 | J-3 | S2 | 4.188 | 0.781 | 1.062 | 0.375 | 1.281 | 6.750 | 5.688 | 137.0 |
| 7 C 180 U | 18.4 | 18 | K-3 | U0 | 5.50 | 1.750 | 1.188 | 0.468 | 1.750 | 4.938 | 3.750 | 133.0 |
| 7 C 200 S | 20.4 | 20 | J-3 | S2 | 4.188 | 0.781 | 1.062 | 0.375 | 1.281 | 6.750 | 5.688 | 152.0 |
| 7 C 200 U | 20.4 | 20 | K-3 | U0 | 5.50 | 1.750 | 1.188 | 0.468 | 1.750 | 4.938 | 3.750 | 144.0 |
| 7 C 240 S | 24.4 | 24 | J-3 | S2 | 4.188 | 0.781 | 1.062 | 0.375 | 1.281 | 6.750 | 5.688 | 173.0 |
| 7 C 270 S | 27.4 | 27 | J-3 | S2 | 4.188 | 0.781 | 1.062 | 0.375 | 1.281 | 6.750 | 5.688 | 197.0 |
| 7 C 270 U | 27.4 | 27 | K-3 | U0 | 5.50 | 1.750 | 1.188 | 0.468 | 1.750 | 4.938 | 3.750 | 196.0 |
| 7 C 300 S | 30.4 | 30 | J-3 | S2 | 4.188 | 0.781 | 1.062 | 0.375 | 1.281 | 6.750 | 5.688 | 220.0 |
| 7 C 300 U | 30.4 | 30 | K-3 | U0 | 5.50 | 1.750 | 1.188 | 0.468 | 1.750 | 4.938 | 3.750 | 217.0 |
| 7 C 360 S | 36.4 | 36 | J-3 | S2 | 4.188 | 0.781 | 1.062 | 0.375 | 1.281 | 6.750 | 5.688 | 279.0 |
| 7 C 440 S | 44.4 | 44 | J-3 | S2 | 4.188 | 0.781 | 1.062 | 0.375 | 1.281 | 6.750 | 5.688 | 337.0 |
| 7 C 500 S | 50.4 | 50 | J-3 | S2 | 4.188 | 0.781 | 1.062 | 0.375 | 1.281 | 6.750 | 5.688 | 382.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# C Conventional MST® Bushed Stock Sheaves



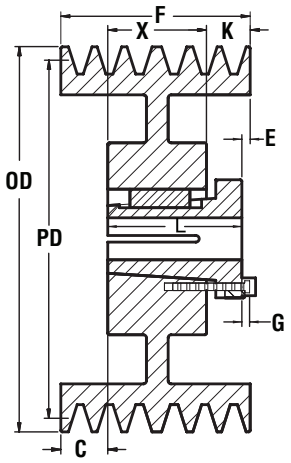

Type K

## C MST® Sheaves

| 8 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 8.25 | | | | | | | | | | | | |
| Part Number | OD | PD C Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 8 C 70 Q | 7.4 | 7 | K-2 | Q3 | 2.5 | 1.63 | 0.75 | 0.28 | 2.38 | 5 | 0 | 40.0 |
| 8 C 80 R | 8.4 | 8 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 2.63 | 4.88 | 4 | 49.0 |
| 8 C 86 R | 9 | 8.6 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 2.63 | 4.88 | 4 | 57.0 |
| 8 C 90 R | 9.4 | 9 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 2.63 | 4.88 | 4 | 62.0 |
| 8 C 92 R | 9.6 | 9.2 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 2.63 | 4.88 | 4 | 68.0 |
| 8 C 94 R | 9.8 | 9.4 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 2.63 | 4.88 | 4 | 73.0 |
| 8 C 96 R | 10 | 9.6 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 2.63 | 4.88 | 4 | 70.0 |
| 8 C 98 R | 10.2 | 9.8 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 2.63 | 4.88 | 4 | 76.0 |
| 8 C 100 R | 10.4 | 10 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 2.63 | 4.88 | 4 | 72.0 |
| 8 C 102 R | 10.6 | 10.2 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 2.63 | 4.88 | 4 | 79.0 |
| 8 C 106 R | 11 | 10.6 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 2.63 | 4.88 | 4 | 76.0 |
| 8 C 110 R | 11.4 | 11 | K-2 | R2 | 3.63 | 2.13 | 0.88 | 0.28 | 2.13 | 4.88 | 4 | 73.0 |
| 8 C 120 R | 12.4 | 12 | K-2 | R2 | 3.63 | 2.13 | 0.88 | 0.28 | 2.13 | 4.88 | 4 | 74.0 |
| 8 C 130 R | 13.4 | 13 | K-3 | R2 | 3.63 | 2.13 | 0.88 | 0.28 | 2.13 | 4.88 | 4 | 80.0 |
| 8 C 140 R | 14.4 | 14 | K-3 | R2 | 3.63 | 2.13 | 0.88 | 0.28 | 2.13 | 4.88 | 4 | 84.0 |
| 8 C 150 R | 15.4 | 15 | K-3 | R2 | 3.63 | 2.13 | 0.88 | 0.28 | 2.13 | 4.88 | 4 | 93.0 |
| 8 C 160 R | 16.4 | 16 | K-3 | R2 | 3.63 | 2.13 | 0.88 | 0.28 | 2.13 | 4.88 | 4 | 100.0 |
| 8 C 180 S | 18.4 | 18 | K-3 | S2 | 4.19 | 1.28 | 1.06 | 0.38 | 1.28 | 6.75 | 5.69 | 140.0 |
| 8 C 180 U | 18.4 | 18 | K-3 | U0 | 5.5 | 2.25 | 1.19 | 0.47 | 2.25 | 4.94 | 3.75 | 141.0 |
| 8 C 200 S | 20.4 | 20 | K-3 | S2 | 4.19 | 1.28 | 1.06 | 0.38 | 1.28 | 6.75 | 5.69 | 163.0 |
| 8 C 200 U | 20.4 | 20 | K-3 | U0 | 5.5 | 2.25 | 1.19 | 0.47 | 2.25 | 4.94 | 3.75 | 160.0 |
| 8 C 240 S | 24.4 | 24 | K-3 | S2 | 4.19 | 1.28 | 1.06 | 0.38 | 1.28 | 6.75 | 5.69 | 194.0 |
| 8 C 240 U | 24.4 | 24 | K-3 | U0 | 5.5 | 2.25 | 1.19 | 0.47 | 2.25 | 4.94 | 3.75 | 184.0 |
| 8 C 270 S | 27.4 | 27 | K-3 | S2 | 4.19 | 1.28 | 1.06 | 0.38 | 1.28 | 6.75 | 5.69 | 224.0 |
| 8 C 300 S | 30.4 | 30 | K-3 | S2 | 4.19 | 1.28 | 1.06 | 0.38 | 1.28 | 6.75 | 5.69 | 212.0 |
| 8 C 300 U | 30.4 | 30 | K-3 | U0 | 5.5 | 2.25 | 1.19 | 0.47 | 2.25 | 4.94 | 3.75 | 227.0 |
| 8 C 360 S | 36.4 | 36 | K-3 | S2 | 4.19 | 1.28 | 1.06 | 0.38 | 1.28 | 6.75 | 5.69 | 261.0 |
| 8 C 360 U | 36.4 | 36 | K-3 | U0 | 5.5 | 2.25 | 1.19 | 0.47 | 2.25 | 4.94 | 3.75 | 288.0 |
| 8 C 440 S | 44.4 | 44 | K-3 | S2 | 4.19 | 1.28 | 1.06 | 0.38 | 1.28 | 6.75 | 5.69 | 368.0 |
| 8 C 440 U | 44.4 | 44 | K-3 | U0 | 5.5 | 2.25 | 1.19 | 0.47 | 2.25 | 4.94 | 3.75 | 358.0 |
| 8 C 500 S | 50.4 | 50 | K-3 | S2 | 4.19 | 1.28 | 1.06 | 0.38 | 1.28 | 6.75 | 5.69 | 429.0 |
| 8 C 500 U | 50.4 | 50 | K-3 | U0 | 5.5 | 2.25 | 1.19 | 0.47 | 2.25 | 4.94 | 3.75 | 417.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# Conventional MST® Bushed Stock Sheaves C



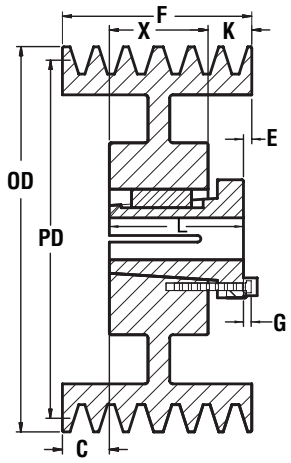

Type K

## C MST® Sheaves

| 10 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 10.25 | | | | | | | | | | | | |
| Part Number | OD | PD C Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 10 C 80 R | 8.4 | 8 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 70.0 |
| 10 C 86 R | 9 | 8.6 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 72.0 |
| 10 C 90 R | 9.4 | 9 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 72.0 |
| 10 C 92 R | 9.6 | 9.2 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 70.0 |
| 10 C 94 R | 9.8 | 9.4 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 78.0 |
| 10 C 96 R | 10 | 9.6 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 73.0 |
| 10 C 98 R | 10.2 | 9.8 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 88.0 |
| 10 C 100 R | 10.4 | 10 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 89.0 |
| 10 C 102 R | 10.6 | 10.2 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 97.0 |
| 10 C 106 R | 11 | 10.6 | K-2 | R2 | 3.63 | 1.63 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 84.0 |
| 10 C 110 R | 11.4 | 11 | K-2 | R2 | 3.63 | 3.13 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 84.0 |
| 10 C 120 R | 12.4 | 12 | K-2 | R2 | 3.63 | 3.13 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 97.0 |
| 10 C 130 R | 13.4 | 13 | K-3 | R2 | 3.63 | 3.13 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 102.0 |
| 10 C 140 R | 14.4 | 14 | K-3 | R2 | 3.63 | 3.13 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 106.0 |
| 10 C 150 R | 15.4 | 15 | K-3 | R2 | 3.63 | 3.13 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 110.0 |
| 10 C 160 R | 16.4 | 16 | K-3 | R2 | 3.63 | 3.13 | 0.88 | 0.28 | 4.63 | 4.88 | 4 | 111.0 |
| 10 C 180 S | 18.4 | 18 | K-3 | S2 | 4.19 | 2.28 | 1.06 | 0.38 | 2.28 | 6.75 | 5.69 | 164.0 |
| 10 C 180 U | 18.4 | 18 | K-3 | U0 | 5.5 | 3.25 | 1.19 | 0.47 | 3.25 | 4.94 | 3.75 | 163.0 |
| 10 C 200 S | 20.4 | 20 | K-3 | S2 | 4.19 | 2.28 | 1.06 | 0.38 | 2.28 | 6.75 | 5.69 | 170.0 |
| 10 C 200 U | 20.4 | 20 | K-3 | U0 | 5.5 | 3.25 | 1.19 | 0.47 | 3.25 | 4.94 | 3.75 | 178.0 |
| 10 C 240 S | 24.4 | 24 | K-3 | S2 | 4.19 | 2.28 | 1.06 | 0.38 | 2.28 | 6.75 | 5.69 | 210.0 |
| 10 C 240 U | 24.4 | 24 | K-3 | U0 | 5.5 | 3.25 | 1.19 | 0.47 | 3.25 | 4.94 | 3.75 | 208.0 |
| 10 C 270 S | 27.4 | 27 | K-3 | S2 | 4.19 | 2.28 | 1.06 | 0.38 | 2.28 | 6.75 | 5.69 | 246.0 |
| 10 C 300 S | 30.4 | 30 | K-3 | S2 | 4.19 | 2.28 | 1.06 | 0.38 | 2.28 | 6.75 | 5.69 | 278.0 |
| 10 C 300 U | 30.4 | 30 | K-3 | U1 | 5.5 | 2.31 | 1.5 | 0.47 | 2.31 | 7.13 | 5.63 | 298.0 |
| 10 C 360 S | 36.4 | 36 | K-3 | S2 | 4.19 | 2.28 | 1.06 | 0.38 | 2.28 | 6.75 | 5.69 | 324.0 |
| 10 C 360 U | 36.4 | 36 | K-3 | U1 | 5.5 | 2.31 | 1.5 | 0.47 | 2.31 | 7.13 | 5.63 | 362.0 |
| 10 C 440 U | 44.4 | 44 | K-3 | U1 | 5.5 | 2.31 | 1.5 | 0.47 | 2.31 | 7.13 | 5.63 | 463.0 |
| 10 C 500 U | 50.4 | 50 | K-3 | U1 | 5.5 | 2.31 | 1.5 | 0.47 | 2.31 | 7.13 | 5.63 | 480.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# C Conventional MST® Bushed Stock Sheaves




Type K

## C MST® Sheaves

| 12 Grooves | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F = 12.25 | | | | | | | | | | | | |
| Part Number | OD | PD C Belt | Type | Bush | Bush Max Bore | C | E | G | K | Length Thru Bore | X | Wt. Less Bushing |
| 12 C 90 S | 9.4 | 9 | K-2 | S2 | 4.19 | 2 | 1.06 | 0.38 | 4.56 | 6.75 | 5.69 | 88.0 |
| 12 C 92 S | 9.6 | 9.2 | K-2 | S2 | 4.19 | 2 | 1.06 | 0.38 | 4.56 | 6.75 | 5.69 | 93.0 |
| 12 C 94 S | 9.8 | 9.4 | K-2 | S2 | 4.19 | 2 | 1.06 | 0.38 | 4.56 | 6.75 | 5.69 | 104.0 |
| 12 C 96 S | 10 | 9.6 | K-2 | S2 | 4.19 | 2 | 1.06 | 0.38 | 4.56 | 6.75 | 5.69 | 102.0 |
| 12 C 98 S | 10.2 | 9.8 | K-2 | S2 | 4.19 | 2 | 1.06 | 0.38 | 4.56 | 6.75 | 5.69 | 111.0 |
| 12 C 100 S | 10.4 | 10 | K-2 | S2 | 4.19 | 2 | 1.06 | 0.38 | 4.56 | 6.75 | 5.69 | 112.0 |
| 12 C 102 S | 10.6 | 10.2 | K-2 | S2 | 4.19 | 2 | 1.06 | 0.38 | 4.56 | 6.75 | 5.69 | 121.0 |
| 12 C 106 S | 11 | 10.6 | K-2 | S2 | 4.19 | 2 | 1.06 | 0.38 | 4.56 | 6.75 | 5.69 | 133.0 |
| 12 C 110 S | 11.4 | 11 | K-2 | S2 | 4.19 | 3.28 | 1.06 | 0.38 | 3.28 | 6.75 | 5.69 | 128.0 |
| 12 C 120 S | 12.4 | 12 | K-2 | S2 | 4.19 | 3.28 | 1.06 | 0.38 | 3.28 | 6.75 | 5.69 | 140.0 |
| 12 C 130 S | 13.4 | 13 | K-2 | S2 | 4.19 | 3.28 | 1.06 | 0.38 | 3.28 | 6.75 | 5.69 | 165.0 |
| 12 C 140 S | 14.4 | 14 | K-3 | S2 | 4.19 | 3.28 | 1.06 | 0.38 | 3.28 | 6.75 | 5.69 | 148.0 |
| 12 C 150 S | 15.4 | 15 | K-3 | S2 | 4.19 | 3.28 | 1.06 | 0.38 | 3.28 | 6.75 | 5.69 | 162.0 |
| 12 C 160 S | 16.4 | 16 | K-3 | S2 | 4.19 | 3.28 | 1.06 | 0.38 | 3.28 | 6.75 | 5.69 | 163.0 |
| 12 C 180 U | 18.4 | 18 | K-3 | U1 | 5.5 | 3.31 | 1.5 | 0.47 | 3.31 | 7.13 | 5.63 | 204.0 |
| 12 C 200 U | 20.4 | 20 | K-3 | U1 | 5.5 | 3.31 | 1.5 | 0.47 | 3.31 | 7.13 | 5.63 | 224.0 |
| 12 C 240 U | 24.4 | 24 | K-3 | U1 | 5.5 | 3.31 | 1.5 | 0.47 | 3.31 | 7.13 | 5.63 | 257.0 |
| 12 C 270 U | 27.4 | 27 | K-3 | U1 | 5.5 | 3.31 | 1.5 | 0.47 | 3.31 | 7.13 | 5.63 | 300.0 |
| 12 C 300 U | 30.4 | 30 | K-3 | U1 | 5.5 | 3.31 | 1.5 | 0.47 | 3.31 | 7.13 | 5.63 | 327.0 |
| 12 C 360 U | 36.4 | 36 | K-3 | U1 | 5.5 | 3.31 | 1.5 | 0.47 | 3.31 | 7.13 | 5.63 | 397.0 |
| 12 C 440 U | 44.4 | 44 | K-3 | U1 | 5.5 | 3.31 | 1.5 | 0.47 | 3.31 | 7.13 | 5.63 | 519.0 |
| 12 C 500 U | 50.4 | 50 | K-3 | U1 | 5.5 | 3.31 | 1.5 | 0.47 | 3.31 | 7.13 | 5.63 | 551.0 |

NOTE: Dimensions in inches, weight in pounds. Weights do not include bushings 1 = Solid 2 = Web 3 = Spoked

# ROLLER CHAIN SPROCKETS

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# Made-To-Order Sprockets

Multi-Strand Oil Field
Sprocket with Clutch Jaws

Triple 160
Shaft Sprocket

Quadruple 160
Sprocket

Triple 200
Sprocket

Double 200
Sprocket and Pinion

Large Triple Strand
Sprocket with Mounting Flange

Sprocket with
Mud Relief

Standard RC Sprocket
with Spline Bore

Special Dryer Sprocket

Special Plastic Sprocket

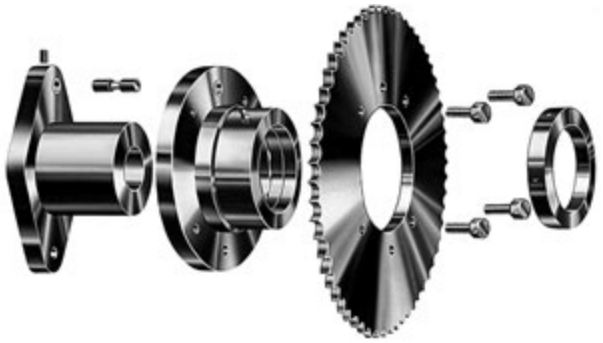
Block Chain

Martin manufactures numerous made-to-order sprockets. If you do not see the sprocket you need in this section, call us. Chances are if chain runs on it, we have made the sprocket before. Special materials, special bores, duplex, triplex, double-single-doubles, etc. are all familiar to Martin.

Shear Pin sprockets provide simple, dependable protection against expensive machinery damage caused by overloads or jamming. Torque is transmitted by a single pin, necked to shear when the safe load is exceeded. When an overload occurs, the pin shears, disconnecting the drive immediately.

The Bolt-on Shear Pin Adapter converts any plate sprocket into a stock Shear Pin sprocket allowing immediate delivery of stock Shear Pin sprockets.

Selection guide on page E-6 gives complete procedure to select the proper Shear Pin assembly.



## Stock Shear Pin Assemblies

| Shear Pin Assembly Number | Hub Bore Range | Shear Pin Hub | Shear Pin Adapter |
|---|---|---|---|
| | | Catalog Number | Catalog Number |
| SP-17 | 1" & UNDER | SPH-17 | SPA-17 |
| SP-18 | 1 1/16 - 1 1/4 | SPH-18 | SPA-18 |
| SP-19 | 1 5/16 - 1 1/2 | SPH-19 | SPA-19 |
| SP-20 | 1 9/16 - 1 3/4 | SPH-20 | SPA-20 |
| SP-21 | 1 13/16 - 2 | SPH-21 | SPA-21 |
| SP-22 | 2 1/16 - 2 1/4 | SPH-22 | SPA-22 |
| SP-23 | 2 5/16 - 2 1/2 | SPH-23 | SPA-23 |
| SP-24 | 2 9/16 - 2 3/4 | SPH-24 | SPA-24 |
| SP-25 | 2 13/16 - 3 | SPH-25 | SPA-25 |
| SP-26 | 3 1/16 - 3 1/2 | SPH-26 | SPA-26 |
| SP-27 | 3 9/16 - 4 | SPH-27 | SPA-27 |
| SP-28 | 4 1/16 - 4 1/2 | SPH-28 | SPA-28 |
| SP-29 | 4 9/16 - 5 | SPH-29 | SPA-29 |
| SP-30 | 4 7/8 - 5 1/2 | SPH-30 | SPA-30 |
| SP-31 | 5 9/16 - 6 | SPH-31 | SPA-31 |

## Notes on Pricing:

**Shear Pin Hub List Pric**e includes any finished bore within the stated range, standard keyway, setscrew, and hardened steel shear pin bushing.

**Shear Pin Adapter List Pric**e includes the Shear Pin bushin and grease fitting.

**Complete Assembly List Price** includes all components of the Shear Pin assembly as described above. Total list price of any Shear Pin sprocket is the complete assembly list price plus the list price of the desired plate sprocket (from tables of stock sprocket list prices).

**Replacement Sprockets** should be priced as altered stock sprockets directly from List Price and Alteration Charge tables.

**Shear Pin Components** may be ordered separately and will be treated as stock items when conforming to standard specifications and descriptions above.

### Pricing Examples:

1. **Stock Shear Pin Sprocket**
   To price a 35 tooth shear pin sprocket for 160 chain (160SP35) using SP-26 shear pin assembly with 3 7/16" bore, standard keyway and setscrew:

   SP-26 Assembly List Price.....
   160A35 List Price.....
   **Total List Price .....**

   **See List Price Sheet**

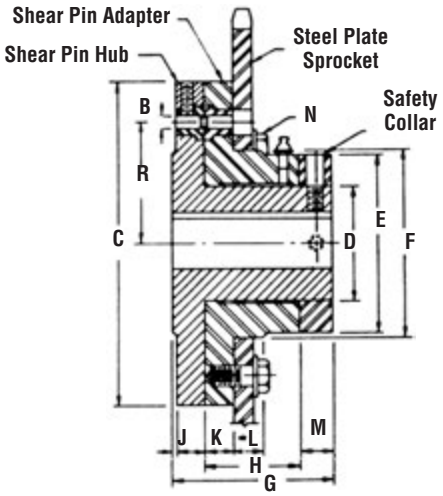
2. **Shear Pin Adapter and Sprocket for Existing Hub**
   To price a "Bolt-on" shear pin adapter and sprocket to replace the sprocket part of existing 50SP40 using SP-19 hub:

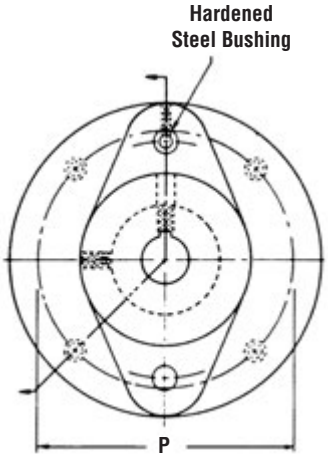
   SPA-19 Adapter List Price.....
   50A40 List Price.....
   **Total List Price .....**

   **See List Price Sheet**

**Shear Pin Sprockets can also be furnished in other standard styles or made to customer's specifications. Price on application.**

**It is important that the torque requirement for the selected hub be checkedin the torque rating table on page E-6 and the neck diameter of Shear Pin be specified.**



## Shear Pin Assembly Dimensions (Inches) — Table I

| Shear Pin Assembly Number | Shear Pin | | Diameter | | | | Length Thru | | | Hub Flange Thickness | Adapt. Flange Thickness | Sprocket Seat Width | Bolts | | Wt. lbs (Approx) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Radius | Pin Dia. | Flange | Shear Pin Hub | Adapt. Hub & Collar | Sprocket Seat | Shear Pin Hub | Adapt. | Collar | | | | Number & Size | Belt Circle | Shear Pin Hub | Shear Pin Adapt. |
| | R | B | C | D | E | F | G | H | M | J | K | L | N | P | | |
| SP-17 | 1.813 | 0.25 | 5.25 | 1.75 | 2.5 | 2.625 | 2.438 | 1.375 | 0.375 | 0.563 | 0.563 | 0.438 | 4 - 3/8" | 4 | 2.7 | 3.2 |
| SP-18 | 2.188 | 0.25 | 6 | 2.25 | 3.25 | 3.375 | 2.938 | 1.75 | 0.5 | 0.563 | 0.563 | 0.563 | 4 - 3/8" | 4.75 | 4.6 | 4.7 |
| SP-19 | 2.563 | 0.313 | 6.75 | 2.75 | 4 | 4.125 | 3.563 | 2.125 | 0.625 | 0.688 | 0.688 | 0.688 | 4 - 1/2" | 5.5 | 7.2 | 7.6 |
| SP-20 | 3 | 0.375 | 7.75 | 3.25 | 4.75 | 4.875 | 4.188 | 2.5 | 0.75 | 0.813 | 0.813 | 0.688 | 4 - 1/2" | 6.25 | 11.0 | 11.9 |
| SP-21 | 3.313 | 0.438 | 8.75 | 33/4 | 5.25 | 5.375 | 4.813 | 2.875 | 0.875 | 0.938 | 0.938 | 0.938 | 4 - 5/8" | 7 | 16.2 | 16.9 |
| SP-22 | 3.813 | 0.5 | 9.75 | 4.25 | 6.25 | 6.375 | 5.188 | 3 | 1 | 1.063 | 1.063 | 1.188 | 4 - 5/8" | 8 | 23.3 | 24.5 |
| SP-23 | 4 | 0.5 | 10 | 4.5 | 6.5 | 6.625 | 5.688 | 3.5 | 1 | 1.063 | 1.063 | 1.375 | 4 - 5/8" | 8.25 | 26.3 | 27.7 |
| SP-24 | 4.375 | 0.563 | 11.5 | 5 | 7 | 7.125 | 6.313 | 3.875 | 1.125 | 1.188 | 1.188 | 13/8 | 4 - 5/8" | 9.25 | 40.4 | 38.6 |
| SP-25 | 4.875 | 0.625 | 12.5 | | 8 | 8.125 | 6.938 | 4.25 | 1.25 | 1.313 | 1.313 | 1.375 | 6 - 5/8" | 10.25 | 52.6 | 53.6 |
| SP-26 | 5.313 | 0.688 | 13.5 | 6.25 | 8.75 | 8.875 | 7.813 | 4.875 | 1.375 | 1.438 | 1.438 | 13/8 | 6 - 5/8" | 11.25 | 66.7 | 66.8 |
| SP-27 | 6.063 | 0.75 | 151/2 | 7 | 10 | 101/8 | 8.688 | 5.5 | 1.5 | 1.563 | 1.5 | 1.375 | 6 - 5/8" | 12.75 | 96.5 | 100.0 |
| SP-28 | 6.438 | 0.75 | 16.25 | 7.75 | 10.75 | 10.875 | 9.688 | 6.5 | 1.5 | 1.563 | 1.5 | 13/8 | 6 - 3/4" | 13.5 | 125.0 | 115.0 |
| SP-29 | 7.125 | 0.875 | 17.5 | 8.5 | 12 | 12.125 | 10.688 | 7 | 1.75 | 1.813 | 1.5 | 1.75 | 6 - 1" | 14.75 | 160.0 | 150.0 |
| SP-30 | 8.125 | 1 | 20.25 | 9.75 | 13.75 | 13.875 | 11.688 | 7.5 | 2 | 2.063 | 1.5 | 1.75 | 6 - 1" | 17 | 215.0 | 207.0 |
| SP-31 | 8.875 | 1.375 | 22.5 | 10.75 | 15 | 15.125 | 12.938 | 8.25 | 2.25 | 2.313 | 1.5 | 1.75 | 6 - 1" | 18.75 | 318.0 | 265.0 |

## Sprocket Sizes For Stock Shear Pin Assemblies — Table II

| Shear Pin Assembly Number | Hub Bore Range | Minimum Number of Teeth for Single Sprockets | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Chain Number | | | | | | | | | | | | |
| | | 35 | 41 | 40 | 50 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 |
| SP-17 | 1" & UNDER | 48 | 37 | 37 | 30 | 26 | — | — | — | — | — | — | — | — |
| SP-18 | 1 /16 - 1 1/4 | 55 | 42 | 42 | 34 | 29 | 23 | — | — | — | — | — | — | — |
| SP-19 | 1 5/16 - 1 1/2 | 61 | 46 | 47 | 38 | 32 | 25 | 21 | — | — | — | — | — | — |
| SP-20 | 1 9/16 - 1 3/4 | 69 | 53 | 53 | 43 | 36 | 28 | 23 | — | — | — | — | — | — |
| SP-21 | 1 13/16 - 2 | 78 | 59 | 59 | 48 | 41 | 31 | 26 | 22 | 19 | — | — | — | — |
| SP-22 | 2 1/16 - 2 1/4 | 86 | 65 | 66 | 53 | 45 | 34 | 28 | 24 | 21 | 19 | 17 | — | 14 |
| SP-23 | 2 5/16 - 2 1/2 | 89 | 67 | 67 | 55 | 46 | 35 | 29 | 25 | 22 | 19 | 18 | 16 | 14 |
| SP-24 | 2 9/16 - 2 3/4 | 101 | 76 | 77 | 62 | 52 | 40 | 33 | 28 | 24 | 22 | 20 | 18 | 16 |
| SP-25 | 2 13/16 - 3 | 110 | 83 | 83 | 67 | 56 | 43 | 35 | 30 | 26 | 23 | 21 | 19 | 17 |
| SP-26 | 3 1/16 - 3 1/2 | — | 98 | 98 | 72 | 61 | 46 | 38 | 32 | 28 | 25 | 23 | 20 | 18 |
| SP-27 | 3 9/16 - 4 | — | 102 | 102 | 82 | 69 | 53 | 43 | 36 | 32 | 28 | 25 | 23 | 20 |
| SP-28 | 4 1/16 - 4 1/2 | — | 107 | 107 | 86 | 72 | 55 | 45 | 38 | 33 | 29 | 26 | 24 | 21 |
| SP-29 | 4 9/16 - 5 | — | — | — | 92 | 77 | 59 | 48 | 40 | 35 | 31 | 28 | 26 | 22 |
| SP-30 | 5 1/16 - 5 1/2 | — | — | — | 106 | 89 | 68 | 55 | 46 | 40 | 35 | 32 | 29 | 25 |
| SP-31 | 5 9/16 - 6 | — | — | — | — | 98 | 75 | 61 | 51 | 44 | 39 | 35 | 32 | 27 |

# Bolt-On
# Shear Pin Sprockets

## Shear Pin Sprocket Selection

1. The shear pin assembly required is determined by the shaft size. Select the smallest shear pin assembly which will accommodate the required bore. Table on page E-5 contains the bore ranges and minimum sprocket sizes which allow chain clearance over the shear pin assembly flange.
2. Using one of the following formulas, compute the torque load the pin must transmit and find the value in the torque rating table below to obtain the proper shear pin neck diameter.

$$T = \frac{HP \times 63{,}025 \times 1.5}{RPM} \quad \text{or } T = \frac{D \times CP \times 1.5}{2}$$

or T = Output of reducer × speed ratio of chain drive × 1.5

Where:
- T = Torque in pound inches
- HP = Horsepower at Sprocket
- RPM = Sprocket Speed
- D = PD of Sprocket
- CP = Chain pull in pounds
- 1.5 = Safety factor for starting load

## Example:

1. Determine the shear pin assembly and pin neck diameter to transmit 20 horsepower at 67 RPM with a 45 tooth, No. 100 sprocket on a 2 15/16" shaft.

   (1) Referring to Table II (page E-5), shear pin assembly SP-25 is required for a 2 15/16" bore. The 45 tooth sprocket is well above the minimum size.

   (2) Torque and neck diameter:

$$T = \frac{HP \times 63{,}025 \times 1.5}{RPM}$$

$$T = \frac{HP \times 63{,}025 \times 1.5}{RPM} = 28{,}200 \text{ lb. in.}$$

Referring to Table III (below) under SP-25, a pin necked to 3/8" shows a torque rating of 29,810 lb. in., which exceeds the 28,200 lb. in. required.

   (3) Order: 100SP45, SP-25 assembly with 2 15/16" bore and 3/8" pin neck diameter.

## Shear Pin Torque Ratings — Table III

| Shear Pin Neck Diameter (Inches) | TORQUE RATING — POUND INCHES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Shear Pin Hub Number | | | | | | | | | | | | | | |
| | SP17 | SP18 | SP19 | SP20 | SP21 | SP22 | SP23 | SP24 | SP25 | SP26 | SP27 | SP28 | SP29 | SP30 | SP31 |
| 3/32 | 1133 | 1367 | 1560 | 1716 | 1893 | 2055 | 2156 | | | | | | | | |
| 1/8 | 2014 | 2430 | 2774 | 3051 | 3365 | 3654 | 3833 | | | | | | | | |
| 5/32 | 3147 | 3796 | 4334 | 4767 | 5258 | 5709 | 5989 | 6783 | | | | | | | |
| 3/16 | 4532 | 5467 | 6240 | 6864 | 7571 | 8221 | 8624 | 9768 | 10508 | | | | | | |
| 7/32 | 6168 | 7441 | 8494 | 9343 | 10305 | 11190 | 11738 | 13295 | 14302 | | | | | | |
| 1/4 | 8056 | 9718 | 11094 | 12203 | 13459 | 14615 | 15332 | 17365 | 18680 | 19520 | 22989 | 24411 | | | |
| 9/32 | | | 14041 | 15444 | 17034 | 18497 | 19404 | 21978 | 23642 | 24705 | 29096 | 30895 | | | |
| 5/16 | | | 17334 | 19067 | 21030 | 22836 | 23956 | 27133 | 29188 | 30500 | 35921 | 38142 | 41867 | | |
| 11/32 | | | | 23071 | 25446 | 27632 | 28987 | 32831 | 35317 | 36905 | 43464 | 46152 | 50659 | | |
| 3/8 | | | | 27456 | 30283 | 32884 | 34497 | 39071 | 42030 | 43920 | 51726 | 54925 | 60289 | 66730 | |
| 13/32 | | | | | 35541 | 38593 | 40486 | 45855 | 49327 | 51545 | 60706 | 64461 | 70756 | 78315 | |
| 7/16 | | | | | 41219 | 44759 | 46954 | 53181 | 57208 | 59780 | 70404 | 74759 | 82060 | 90827 | |
| 15/32 | | | | | | 51381 | 53901 | 61049 | 65672 | 68625 | 80821 | 85820 | 94201 | 104266 | |
| 1/2 | | | | | | 58460 | 61327 | 69460 | 74720 | 78080 | 91957 | 97644 | 107180 | 118631 | |
| 17/32 | | | | | | | | 78414 | 84352 | 88145 | 103811 | 110231 | 120997 | 133923 | |
| 9/16 | | | | | | | | 87911 | 94568 | 98820 | 116383 | 123581 | 135650 | 150142 | |
| 19/32 | | | | | | | | | 105367 | 110105 | 129673 | 137694 | 151141 | 167288 | 179992 |
| 5/8 | | | | | | | | | 116750 | 122000 | 143683 | 152569 | 167469 | 185361 | 199437 |
| 21/32 | | | | | | | | | | 134505 | 158410 | 168208 | 184635 | 204360 | 219880 |
| 11/16 | | | | | | | | | | 147620 | 173856 | 184609 | 202638 | 224287 | 241319 |
| 23/32 | | | | | | | | | | | 190020 | 201773 | 221478 | 245140 | 263756 |
| 3/4 | | | | | | | | | | | 206903 | 219700 | 241156 | 266920 | 287190 |
| 25/32 | | | | | | | | | | | | | 261671 | 289626 | 311621 |
| 13/16 | | | | | | | | | | | | | 283023 | 313260 | 337049 |
| 27/32 | | | | | | | | | | | | | 305213 | 337820 | 363474 |
| 7/8 | | | | | | | | | | | | | 328240 | 363307 | 390897 |
| 29/32 | | | | | | | | | | | | | | 389721 | 419317 |
| 15/16 | | | | | | | | | | | | | | 417062 | 448734 |
| 31/32 | | | | | | | | | | | | | | 445330 | 479148 |
| 1 | | | | | | | | | | | | | | 474524 | 510559 |
| 1 1/16 | | | | | | | | | | | | | | | 576374 |
| 1 1/8 | | | | | | | | | | | | | | | 646177 |

# Solid and Split Detachable Hubs

## Type D Sprockets — Stock Detachable Hubs

Type D sprockets consist of a Type A plate sprocket bolted to a detachable hub. A solid or split plate sprocket may be assembled to a solid or split hub. When ordering a Type D sprocket, be sure to select a plate sprocket large enough to allow chain clearance over the hub flange diameter, dimension D.

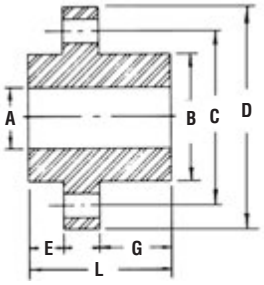
Bolt holes of Type D hubs are drilled for interchangeability. Speed ratios may be changed simply by removing the plate sprocket and substituting another with a different number of teeth. When worn, the sprocket may be reversed to use the unworn tooth surfaces, increasing the life of the sprocket.

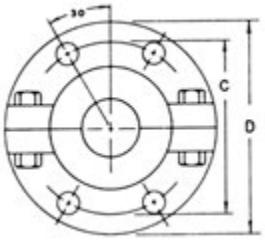
## Split Hubs-Cast Iron — Dimensions (Inches)

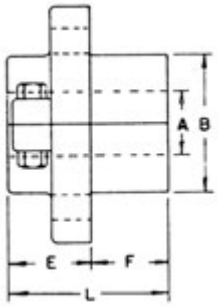
| Hub Number | Bore Range A | | Hub Diameter B | Bolt Circle C | Flange Diameter D | Bolt Holes | | E | F | L | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Stock | *Max | | | | Number | Bolt Size | | | | |
| 102S | 1.313 | 1.5 | 3 | 4 | 5 | 4 | 0.438 | 1.75 | 1.375 | 3.125 | 7.7 |
| 103S | 1.563 | 2.25 | 4 | 5.063 | 6 | 4 | 0.5 | 2 | 1.5 | 3.5 | 14.5 |
| 104S | 2.313 | 2.5 | 4.5 | 5.75 | 7 | 4 | 0.625 | 2.25 | 1.75 | 4 | 18.3 |
| 105S | 2.563 | 2.75 | 5 | 6.25 | 7.5 | 4 | 0.625 | 2.25 | 1.875 | 4.125 | 23.6 |
| 106S | 2.813 | 3.25 | 5.5 | 7 | 8.5 | 4 | 0.625 | 2.5 | 2 | 4.5 | 28.2 |
| 107S | 3.313 | 3.5 | 6 | 7.5 | 9 | 4 | 0.625 | 3 | 1.75 | 4.75 | 37.4 |
| 108S | 3.563 | 4 | 7 | 8.625 | 10.375 | 4 | 0.75 | 3.375 | 1.875 | 5.25 | 55.1 |
| 109S | 4.063 | 6 | 10.5 | 13 | 15.5 | 4 | 1 | 4.125 | 1.75 | 5.875 | 155.0 |

*Maximum bores shown are maximum bores with standard keyseat and setscrew.

To obtain the price of a complete Type D sprocket, add the list price of hub, plus alteration charges and the list price of the desired Type A plate sprocket, including rebore, bolt hole drilling, and splitting charge if desired. These hubs may also be used with Accu-Torch Sprockets.





## Solid Hubs-Steel — Dimensions (Inches)

| Hub Number | Bore Range A | | Hub Diameter B | Bolt Circle C | Flange Diameter D | Bolt Holes | | E | F | G | L | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Stock | *Max | | | | Number | Bolt Size | | | | | |
| 101 | 0.625 | 1.75 | 2.5 | 3.375 | 4.25 | 6 | 0.375 | 0.5 | 0.375 | 1.125 | 2 | 3.4 |
| 102 | 1.438 | 2 | 3 | 4 | 5 | 6 | 0.438 | 0.5 | 0.5 | 1.5 | 2.5 | 5.4 |
| 103 | 1.813 | 2.5 | 4 | 5.063 | 6 | 6 | 0.5 | 0.5 | 0.625 | 1.625 | 2.75 | 10.2 |
| 104 | 2.313 | 3 | 4.5 | 5.75 | 7 | 6 | 0.625 | 0.5 | 0.75 | 2 | 3.25 | 14.2 |
| 105 | 2.563 | 3.25 | 5 | 6.25 | 7.5 | 6 | 0.625 | 0.563 | 0.938 | 2.5 | 4 | 22.2 |
| 106 | 2.813 | 3.75 | 5.5 | 7 | 8.5 | 6 | 0.625 | 0.625 | 1 | 2.375 | 4 | 28.4 |
| 107 | 3.313 | 4 | 6 | 7.5 | 9 | 6 | 0.625 | 0.625 | 1.25 | 2.375 | 4.25 | 34.7 |
| 108 | 3.563 | 4.5 | 7 | 8.625 | 10.375 | 6 | 0.75 | 0.625 | 1.375 | 2.5 | 4.5 | 52.4 |
| 109 | 4.063 | 7 | 10.5 | 13 | 15.5 | 6 | 1 | 3/4 | 1.5 | 2.75 | 5 | 143 |

*Maximum bores shown are maximum bores with standard keyseat and setscrew.

# All Steel
# Instant Split® Sprocket

Manufactured from stock plate sprockets, Martin's instant split-sprocket offers unlimited design and is simply installed with a hand wrench, greatly reducing costly downtime.

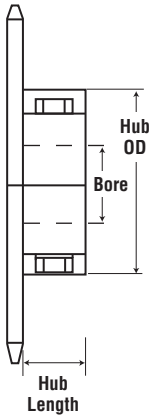
## Single-Style B and C — Steel-Instant Split-Sprocket

| Hub Number | Bore | Hub OD | Hub* Lentgh | Bolts | Wt. lb (Approx.) |
|---|---|---|---|---|---|
| S-1 | 3/4" - 1 1/2" | 3.125 | 1 | 3/8" × 2 1/4" | 1.8 |
| S-2 | 1 3/8" - 2 1/4" | 4.375 | 1.25 | 1/2" × 3" | 4.1 |
| S-3 | 2" - 3" | 6.125 | 1.375 | 5/8" × 4 1/2" | 8.4 |
| S-4 | 2 3/4" - 4" | 7.625 | 1.5 | 3/4" × 5 1/2" | 14.4 |
| S-5 | 3 3/4" - 5" | 9.25 | 2 | 1" × 6" | 27.8 |
| S-6 | 4 3/4" - 6" | 10.25 | 2.25 | 1" × 6" | 35.4 |
| S-7 | 5 3/4" - 7" | 12.5 | 2.5 | 1" × 7" | 64.4 |
| S-8 | 6 1/4" - 8" | 14.5 | 3 | 1" × 8" | 98.5 |

*Add hub length to plate thickness to determine LTB.

For style C, add hub length × 2.

**TOTAL LIST PRICE OF MARTIN SPLIT-SPROCKET IS SIMPLY THE HUB PRICE PLUS THE PLATE PRICE.**

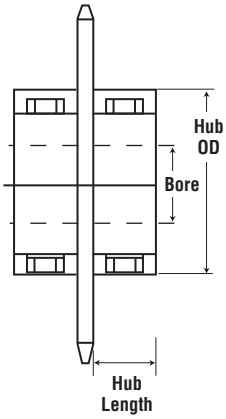



### PRICING EXAMPLE STYLE B

**120B45 Split with S-3 Hub,**
**2 15/16" Bore, KW & SS**

**S-3 Hub**
**120A45 Plate**

SEE HUB LIST
+ SEE PLATE LIST
TOTAL LIST PRICE




### PRICING EXAMPLE STYLE C

**120C45 Split with S-3 Hub,**
**2 15/16" Bore, KW & SS**

**Two S-3 Hubs**
**120A45 Plate**

SEE HUB LIST
+ SEE PLATE LIST
TOTAL LIST PRICE

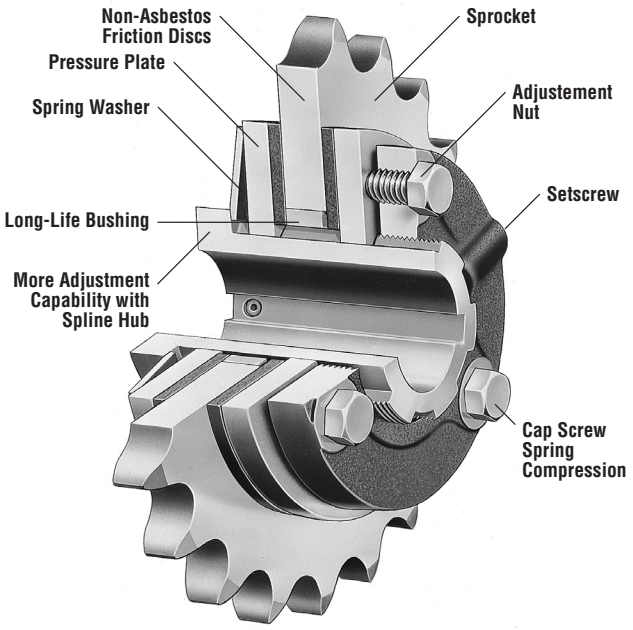
Instant split hubs are for use with plate sprockets only. For multiple strand split sprockets, consult Martin.

## Sprocket Size For Instant Split Hubs

| Split Hub Number | Bore | Minimum Number of Teeth for Single Sprockets | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Chain Number | | | | | | | | | | |
| | | 40 | 50 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 |
| S-1 | 3/4" - 1 1/2" | 28 | 23 | 20 | 16 | — | — | — | — | — | — | — |
| S-2 | 1 3/8" - 2 1/4" | 38 | 30 | 26 | 20 | 17 | 15 | 14 | — | — | — | — |
| S-3 | 2" - 3" | 46 | 37 | 32 | 25 | 20 | 18 | 16 | 15 | 14 | — | — |
| S-4 | 2 3/4" - 4" | — | 48 | 40 | 30 | 25 | 21 | 19 | 17 | 16 | 15 | 12 |
| S-5 | 3 3/4" - 5" | — | — | — | — | 30 | 25 | 22 | 20 | 18 | 17 | 14 |
| S-6 | 4 3/4" - 6" | — | — | — | — | 32 | 27 | 24 | 22 | 19 | 18 | 15 |
| S-7 | 5 3/4" - 7" | — | — | — | — | — | 32 | 28 | 25 | 22 | 21 | 18 |
| S-8 | 6 1/4" - 8" | — | — | — | — | — | — | — | 28 | 25 | 23 | 20 |

# Torque-Limiter Clutches

## MARTIN TORQUE-LIMITER clutch offers thrifty overload protection that's easy to adjust.




Here is low cost protection for your machinery... a torque limiting clutch that is easy to install.

Torque-Limiter clutches feature an exclusive "Easy-Set Adjustment." With "Easy-Set," torque adjustment is accomplished quickly! The need for hammer and block, brute strength, and spanner wrenches is eliminated.

These simple steps and the job is done:

1. Snug up the adjusting nut, finger tight, locate set screw over nearest spline notch, and tighten. See table at right.
2. Tighten three cap screws until heads bottom — with a small wrench; this gives maximum torque.
3. For less torque — back off the cap screws, loosen the set screw, back off adjusting nut to one of the six spline notches as required, and retighten set screw and cap screws.

"Easy-Set Adjustment" not only simplifies installation, it provides solid support for pressure plates by compression at their peripheries.

The Torque-Limiter clutch gives machinery permanent protection against overloads during starting, reversing, or driving — by slipping at any desired load. It resumes driving without resetting when the overload is relieved. It is simple in design, compact, efficient, and built for long life. It provides low cost torque limiting service for a wide variety of applications. No lubrication . . . minimum maintenance.

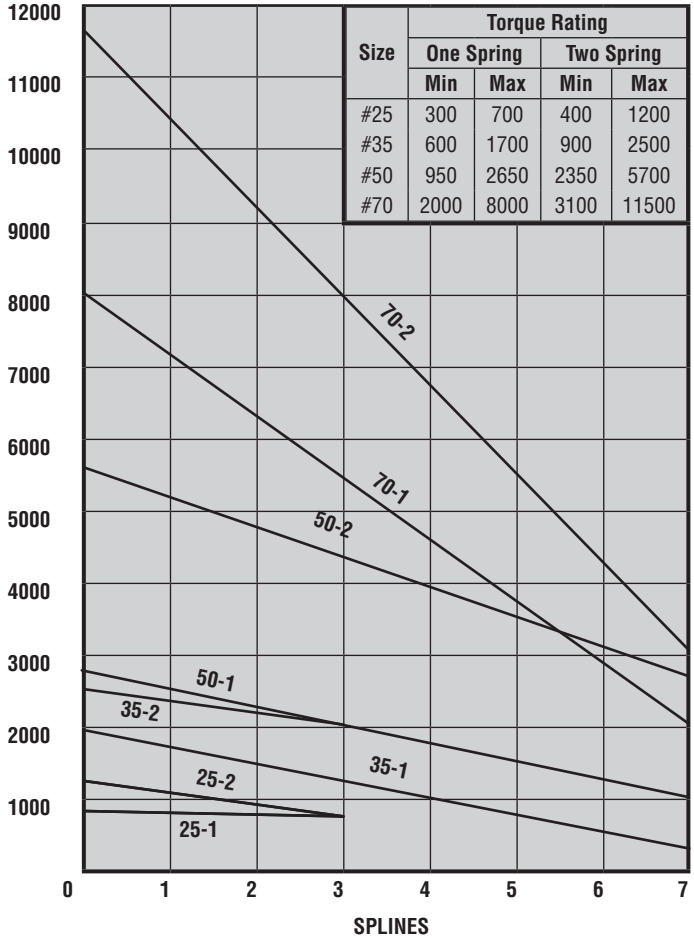
Starting shock from electric motors is a major cause of maintenance of moving parts. Torque-Limiter clutches provide a cushion by slipping until the torque drops to a pre-set level. They can be set to reduce shock loads on motors and driven equipment during reversing or inching. They provide mechanical protection against breakage due to sudden overload — by slipping when the pre-set torque limit is reached.

Torque-Limiter clutches may be used with a sprocket, gear, sheave, flange, or other driven member. It is recommended that the rubbing sides of the driven member be ground to provide a smooth rubbing surface of 63 to 125 micro-inches. See torque rating table on following page.

The driven member is mounted on an oil-impregnated bushing and clamped between two, high quality friction discs by spring pressure. Each Torque-Limiter unit, completely assembled, contains one spring. Higher torque ratings can be obtained by the use of a second spring nested within the original spring. See rating table on following page.

When an overload occurs, the driven member slips between longlife, clutch-type friction discs. After slipping has started, it will continue at approximately 90% of the torque setting, due to the lower coefficient of friction when slipping, until the overload condition has been corrected.

## TORQUE-LIMITER CLUTCH CALIBRATION

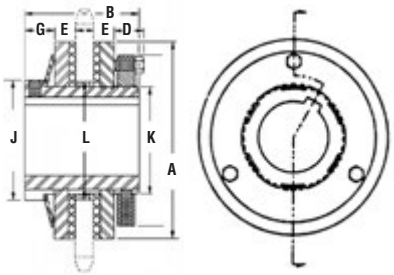



| Size | Torque Rating | | | |
|---|---|---|---|---|
| | One Spring | | Two Spring | |
| | Min | Max | Min | Max |
| #25 | 300 | 700 | 400 | 1200 |
| #35 | 600 | 1700 | 900 | 2500 |
| #50 | 950 | 2650 | 2350 | 5700 |
| #70 | 2000 | 8000 | 3100 | 11500 |

**Note:**
Graph indicates approximate rated torque vs. number of splines adjusting nut is backed off from finger tight.

Each assembled unit contains one spring. Higher ratings can be obtained by ordering a second spring to nest in the original one. Bushings need to be ordered separately, if required.

The rubbing sides of the center member should be ground parallel — 63 to 125 micro-inches.




## Torque-Limiter Clutch Ratings

| Size No. | Avg. Wt. | Torque Rating ▲ (lb-in) With One Spring Min. | With One Spring Max. | With Two Springs** Min. | With Two Springs** Max. | A | B | C Min. | C Max. | D | E | G ✤ | H | J | K +.000 -.002 Spline OD | L +.003 -.000 Sprocket Bore |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TT25 | 1 | 300 | 700 | 400 | 1200 | 2.5 | 1.75 | 0.125 | 0.344 | 0.453 | 0.297 | 0.297 | 2.50 | 1.50 | 1.37 | 1.631/1.628 |
| TT35 | 2.5 | 600 | 1700 | 900 | 2500 | 3.5 | 2.438 | 0.125 | 0.625 | 0.703 | 0.359 | 0.547 | 3.19 | 1.94 | 1.68 | 2.006/2.003 |
| TT50 | 6 | 950 | 2650 | 2350 | 5700 | 5 | 2.875 | 0.125 | 0.625 | 0.828 | 0.453 | 0.656 | 4.31 | 2.81 | 2.63 | 3.008/3.005 |
| TT70 | 18 | 2100 | 8000 | 3100 | 11500 | 7 | 3.875 | 0.25 | 1.25 | 0.859 | 0.484 | 0.906 | 6.00 | 4.00 | 3.81 | 4.197/4.194 |

▲ Using a center member with rubbing sides ground parallel — 63 to 125 micro-inches. Center member must be clean and free from oil, rust, etc.

** Second spring may be nested in one originally furnished. Order if required.

✤ Nominal for maximum torque setting. For minimum torque setting, add 3/64" for No. 25; 5/64" for No. 35; 3/32" for Nos. 50 and 70. When two springs are used this dimension is increased approximately 1/16" on Nos. 25, 35 and 50 — 3/32" on No. 70.

## Stock Bores — Torque Limiters (No KW 1-SS†)

| Size No. | Stock Bore | Max. Bore Std. KW* | Max. Bore Shallow KW* |
|---|---|---|---|
| TT25 | 1 | 7/8 | 1 |
| TT35 | 2.5 | 1 3/16 | 1 1/4 |
| TT50 | 6 | 1 3/4 | 2 |
| TT70 | 18 | 2 3/4 | 3 |

† For additional SS see List Price Alterations.
* KW to be cut central w/threaded spline.

## Standard Keyways

| Torque-Limiter Bore | Keyway | Torque-Limiter Bore | Keyway |
|---|---|---|---|
| 1/2 - 9/16 | 1/8 × 1/16 | 1 7/16 - 1 3/4 | 3/8 × 3/16 |
| 5/8 - 7/8 | 3/16 × 3/32 | 1 13/16 - 2 1/4 | 1/2 × 1/4 |
| 15/16 - 1 1/4 | 1/4 × 1/8 | 2 5/16 - 2 3/4 | 5/8 × 5/16 |
| 1 5/16 - 1 3/8 | 5/16 × 5/32 | 2 13/16 - 3 | 3/4 × 3/8 |

## Bored to Size Torque Limiters w/Std. KW & 1-SS†

| Size No. | Finished Bores | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TT25 | 1/2 | 5/8 | 3/4 | 7/8 | | | | | | | | | | | | |
| TT35 | | | 3/4 | 7/8 | 1 | | | | | | | | | | | |
| TT50 | | | | | 1 | 1 1/8 | 1 3/16 | 1 1/4 | 1 3/8 | 1 7/16 | 1 1/2 | 1 5/8 | | | | |
| TT70 | | | | | | | | | | 1 7/16 | 1 1/2 | | 1 3/4 | 1 15/16 | 2 | 2 7/16 |

† KW same as std. listed in tables above. For additional SS see List Price.

## Stock Plate Sprockets with Ground Face and Bored to Fit the Martin Torque Limiter

### UNIT TT25

| Sprocket Size |
|---|
| 35TTA25-25 |
| 35TTA26-25 |
| 40TTA20-25 |
| 40TTA22-25 |
| 40TTA24-25 |
| 40TTA28-25 |
| 40TTA30-25 |
| 50TTA17-25 |
| 50TTA21-25 |
| 50TTA22-25 |

### UNIT TT35

| Sprocket Size |
|---|
| 35TTA35-35 |
| 35TTA40-35 |
| 40TTA28-35 |
| 40TTA30-35 |
| 40TTA32-35 |
| 50TTA22-35 |
| 50TTA24-35 |
| 50TTA25-35 |
| 50TTA26-35 |
| 60TTA18-35 |
| 60TTA20-35 |

### UNIT TT50

| Sprocket Size |
|---|
| 40TTA35-50 |
| 50TTA30-50 |
| 50TTA32-50 |
| 60TTA25-50 |
| 60TTA26-50 |
| 60TTA28-50 |
| 60TTA30-50 |
| 80TTA20-50 |
| 80TTA22-50 |
| 80TTA24-50 |

### UNIT TT70

| Sprocket Size |
|---|
| 60TTA36-70 |
| 80TTA26-70 |
| 80TTA28-70 |
| 80TTA30-70 |
| 80TTA36-70 |
| 100TTA22-70 |
| 100TTA24-70 |

## Spare Parts

| TT25 TT50 TT35 TT70 | Qty. Req.* |
|---|---|
| PRESSURE PLATE | 2 |
| FRICTION DISC | 2 |
| ADJ. NUT ASSY. & S.S. | 1 |
| ADJ. TENSION NUT | 3 |
| HUB | 1 |

* Per unit

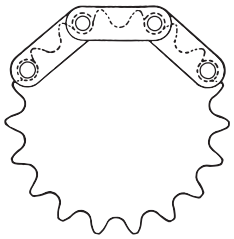
| Unit Size | Sprocket Pitch | | 35 | 41 | 40 | 50 | 60 | 80 | 100 | 120 | 140 | 160 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Min. Allowable Sprocket Teeth and Length of Bushing Required for Chain Number | | | | | | | | | |
| TT25 | Min. Teeth | STOCK ★ | 25 | 19 | 19 | 16 | | | | | | |
| | | MTO ● | 25 | 19 | 19 | 16 | | | | | | |
| | Length of Bushing Required | | 1/8 | 1/8 | 1/4 | 1/4 | | | | | | |
| TT35 | Min. Teeth | STOCK ★ | 35 | 25 | 26 | 21 | 18 | 15 | | | | |
| | | MTO ●● | 33 | 25 | 26 | 21 | 18 | 15 | | | | |
| | Length of Bushing Required | | 1/8 | 1/8 | 1/4 | 1/4 | 3/8 | 3/8 | | | | |
| TT50 | Min. Teeth | STOCK ★ | 48 | 35 | 35 | 29 | 25 | 19 | | | | |
| | | MTO ●● | 46 | 35 | 35 | 29 | 25 | 19 | | | | |
| | Length of Bushing Required | | 1/8 | 1/8 | 1/4 | 1/4 | 3/8 | 3/8 | | | | |
| TT70 | Min. Teeth | STOCK ★ | | | 48 | 38 | 33 | 26 | 21 | 18 | 16 | 14 |
| | | MTO ●● | | | 48 | 38 | 33 | 26 | 21 | 18 | 16 | 14 |
| | Length of Bushing Required | | | | 1/4 | 1/4 | 3/8 | 3/8 | 1/2 | 7/8 ✱ | 7/8 ✱ | 1 ◆◆ |

★ Min. number of teeth on sprocket stocked by Martin which can be used w/Torque-Limiter clutch.
● Min. number of teeth on made-to-order sprocket which will permit chain to clear friction disc.
✱ Use one 3/8" long bushing and one 1/2" long.
◆◆ Use two 1/2" long bushings.

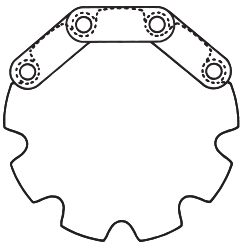
# Double Pitch
# All Steel Stock Sprockets

**Standard Roller**
**Double Duty**

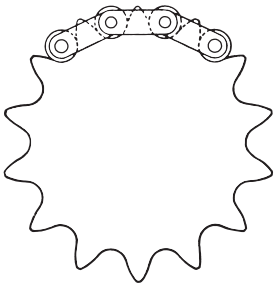
## Double-Pitch Sprockets



**Standard Roller**



**Double Pitch**
**Single Duty**
**Made-To-Order**



**Carrier**
**Rollers**

Series C-2000 chains have rollers of the same diameters and widths as American Standard Roller Chains of one half the conveyor chain pitch. Engaged by every other tooth, double duty sprockets have two teeth per chain pitch. During each revolution only half the teeth function effectively. Sprockets with odd numbers of teeth will allow any given tooth to engage only on every other revolution, automatically increasing sprocket life. Double duty sprockets with even number of teeth may be manually advanced one tooth periodically to increase sprocket life. Martin Stock C-2000 series sprockets are furnished double duty only.

Sprockets for the C-2002 series chain with carrier rollers are cut with space cutters or standard hobs for the American Standard roller Chain of the same diameter. Each sprocket tooth meshes with these chains. Double duty sprockets cannot be made for double pitch chain with Carrier Rollers.

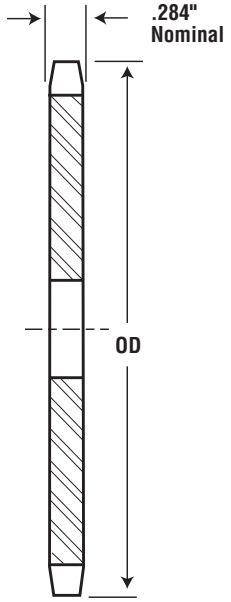
**NOTE: For drives of 31 teeth or more we recommend using Standard sprockets with series C-2000 chains.**

**All altered double pitch sprockets requiring a keyway will be furnished with keyway on center line of tooth, unless otherwise specified.**

## 1-Inch Double-Pitch
## Conveyor or Drive Series — Standard Roller
## Double Pitch — 2040/C2040

| No. Teeth | Eff. No. Teeth | OD | PD | Catalog Number | Type | Bore | | Hub | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Stock | Rec. Max | Diameter | LTB | |
| 11 | 5.5 | 2.000 | 1.852 | 2040B11 | B | 0.5 | 0.813 | 1.375★ | .875 | .34 |
| 12 | 6.0 | 2.170 | 2.000 | 2040B12 | B | 0.5 | 0.813 | 1.563★ | .875 | .44 |
| 13 | 6.5 | 2.330 | 2.152 | 2040B13 | B | 0.5 | 0.656 | 1.563★ | .875 | .48 |
| 14 | 7.0 | 2.490 | 2.305 | 2040B14 | B | 0.5 | 1.031 | 1.688★ | .875 | .60 |
| 15 | 7.5 | 2.650 | 2.458 | 2040B15 | B | 0.625 | 1.219 | 1.719 | .875 | .66 |
| 16 | 8.0 | 2.810 | 2.613 | 2040B16 | B | 0.625 | 1.281 | 1.875 | .875 | .76 |
| 17 | 8.5 | 2.980 | 2.768 | 2040B17 | B | 0.625 | 1.313 | 2.047 | 1 | 1.00 |
| 18 | 9.0 | 3.140 | 2.924 | 2040B18 | B | 0.625 | 1.469 | 2.219 | 1 | 1.16 |
| 19 | 9.5 | 3.300 | 3.080 | 2040B19 | B | 0.625 | 1.625 | 2.375 | 1 | 1.36 |
| 20 | 10.0 | 3.460 | 3.236 | 2040B20 | B | 0.625 | 1.75 | 2.547 | 1 | 1.54 |
| 21 | 10.5 | 3.620 | 3.392 | 2040B21 | B | 0.625 | 1.781 | 2.703 | 1 | 1.74 |
| 22 | 11.0 | 3.780 | 3.549 | 2040B22 | B | 0.625 | 1.875 | 2.875 | 1 | 1.92 |
| 23 | 11.5 | 3.940 | 3.706 | 2040B23 | B | 0.625 | 2 | 3 | 1 | 2.16 |
| 24 | 12.0 | 4.100 | 3.864 | 2040B24 | B | 0.625 | 2.25 | 3.25 | 1 | 2.44 |
| 25 | 12.5 | 4.260 | 4.021 | 2040B25 | B | 0.625 | 2.25 | 3.25 | 1 | 2.48 |
| 26 | 13.0 | 4.420 | 4.179 | 2040B26 | B | 0.625 | 2.25 | 3.25 | 1 | 2.60 |
| 28 | 14.0 | 4.740 | 4.494 | 2040B28 | B | 0.625 | 2.25 | 3.25 | 1 | 2.74 |
| 30 | 15.0 | 5.060 | 4.810 | 2040B30 | B | 0.625 | 2.25 | 3.25 | 1 | 2.92 |

★ Has recessed groove in hub for chain clearance.



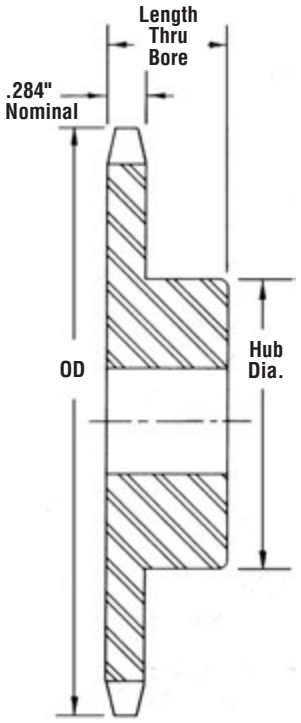

Type A

## Conveyor Series — Carrier Roller
## Double Pitch — 2042/C2042

| No. Teeth | OD | PD | Catalog Number | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Actual | | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 8 | 3.010 | 2.613 | 2042B8 | B | .625 | 1.281 | 1.875 | .875 | .72 | – | – | – | – |
| 9 | 3.350 | 2.924 | 2042B9 | B | .625 | 1.469 | 2.219 | .875 | 1.02 | – | – | – | – |
| 10 | 3.680 | 3.236 | 2042B10 | B | .625 | 1.75 | 2.547 | 1 | 1.5 | – | – | – | – |
| 11 | 4.000 | 3.549 | 2042B11 | B | .625 | 1.875 | 2.625 | 1 | 1.68 | – | – | – | – |
| 12 | 4.330 | 3.864 | 2042B12 | B | .625 | 2.25 | 3.063 | 1 | 2.22 | – | – | – | – |
| 13 | 4.660 | 4.179 | 2042B13 | B | .625 | 2.25 | 3.25 | 1 | 2.56 | – | – | – | – |
| 14 | 4.980 | 4.494 | 2042B14 | B | .625 | 2.25 | 3.25 | 1 | 2.72 | – | – | – | – |
| 15 | 5.300 | 4.810 | 2042B15 | B | .625 | 2.25 | 3.25 | 1 | 2.9 | – | – | – | – |
| 16 | 5.630 | 5.126 | 2042B16 | B | .625 | 2.25 | 3.25 | 1 | 3.1 | A | 2042A16 | .594 | 1.38 |
| 17 | 5.950 | 5.442 | 2042B17 | B | .625 | 2.25 | 3.25 | 1 | 3.4 | A | 2042A17 | .594 | 1.66 |
| 18 | 6.270 | 5.759 | 2042B18 | B | .625 | 2.25 | 3.25 | 1 | 3.56 | A | 2042A18 | .594 | 1.88 |
| 19 | 6.590 | 6.076 | 2042B19 | B | .625 | 2.25 | 3.25 | 1 | 3.72 | A | 2042A19 | .594 | 2.06 |
| 20 | 6.910 | 6.392 | 2042B20 | B | .75 | 2.375 | 3.5 | 1.125 | 4.72 | A | 2042A20 | .719 | 2.40 |
| 21 | 7.240 | 6.710 | 2042B21 | B | .75 | 2.375 | 3.5 | 1.125 | 4.84 | A | 2042A21 | .719 | 2.62 |
| 22 | 7.560 | 7.027 | 2042B22 | B | .75 | 2.375 | 3.5 | 1.125 | 5.18 | A | 2042A22 | .719 | 2.88 |
| 23 | 7.880 | 7.344 | 2042B23 | B | .75 | 2.375 | 3.5 | 1.125 | 5.04 | A | 2042A23 | .719 | 3.14 |
| 24 | 8.200 | 7.661 | 2042B24 | B | .75 | 2.375 | 3.5 | 1.125 | 5.58 | A | 2042A24 | .719 | 3.22 |
| 25 | 8.520 | 7.979 | 2042B25 | B | .75 | 2.375 | 3.5 | 1.125 | 5.96 | A | 2042A25 | .719 | 3.50 |
| 26 | 8.840 | 8.296 | 2042B26 | B | .75 | 2.375 | 3.5 | 1.125 | 6.22 | A | 2042A26 | .719 | 3.74 |
| 28 | 9.480 | 8.931 | 2042B28 | B | .75 | 2.375 | 3.5 | 1.125 | 6.78 | A | 2042A28 | .719 | 4.76 |
| 30 | 10.110 | 9.567 | 2042B30 | B | .75 | 2.375 | 3.5 | 1.125 | 7.56 | A | 2042A30 | .719 | 5.08 |

★ Has recessed groove in hub for chain clearance.

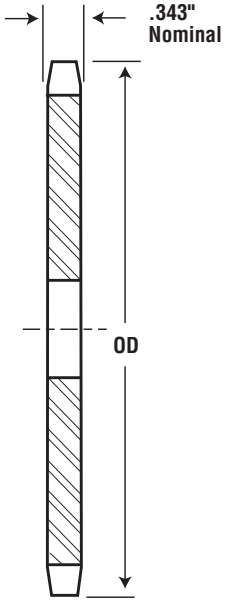
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat.
Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.




Type B

## 1.25-Inch Double-Pitch

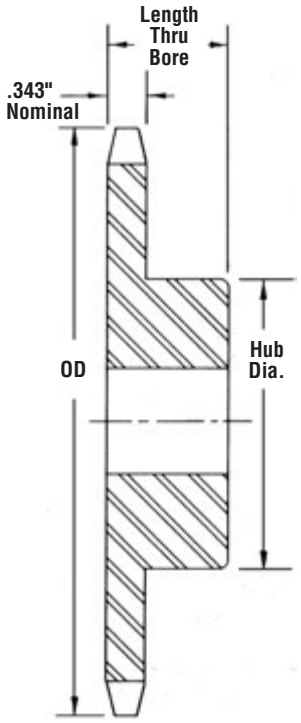
### Conveyor or Drive Series — Standard Roller Double Pitch — 2050/C2050




| No. Teeth | Eff. No. Teeth | OD | PD | Catalog Number | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Actual | | | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 11 | 5.5 | 2.500 | 2.315 | 2050B11 | B | .625 | .813 | 1.75★ | 1 | .62 | – | – | – | – |
| 12 | 6.0 | 2.710 | 2.500 | 2050B12 | B | .625 | 1 | 1.984 | 1 | .80 | – | – | – | – |
| 13 | 6.5 | 2.910 | 2.690 | 2050B13 | B | .625 | 1.219 | 1.719 | 1 | .82 | – | – | – | – |
| 14 | 7.0 | 3.110 | 2.881 | 2050B14 | B | .625 | 1.281 | 1.938 | 1 | 1.00 | – | – | – | – |
| 15 | 7.5 | 3.320 | 3.073 | 2050B15 | B | .625 | 1.406 | 2.156 | 1 | 1.22 | – | – | – | – |
| 16 | 8.0 | 3.520 | 3.266 | 2050B16 | B | .625 | 1.594 | 2.359 | 1 | 1.44 | – | – | – | – |
| 17 | 8.5 | 3.720 | 3.460 | 2050B17 | B | .625 | 1.75 | 2.563 | 1 | 1.68 | – | – | – | – |
| 18 | 9.0 | 3.920 | 3.655 | 2050B18 | B | .625 | 1.781 | 2.781 | 1 | 1.94 | – | – | – | – |
| 19 | 9.5 | 4.120 | 3.850 | 2050B19 | B | .625 | 1.969 | 2.984 | 1 | 2.24 | – | – | – | – |
| 20 | 10.0 | 4.320 | 4.045 | 2050B20 | B | .75 | 2 | 3 | 1 | 2.30 | – | – | – | – |
| 21 | 10.5 | 4.520 | 4.241 | 2050B21 | B | .75 | 2 | 3 | 1 | 2.40 | – | – | – | – |
| 22 | 11.0 | 4.720 | 4.437 | 2050B22 | B | .75 | 2 | 3 | 1 | 2.54 | – | – | – | – |
| 23 | 11.5 | 4.920 | 4.633 | 2050B23 | B | .75 | 2 | 3 | 1 | 2.66 | – | – | – | – |
| 24 | 12.0 | 5.120 | 4.830 | 2050B24 | B | .75 | 2 | 3 | 1.25 | 3.30 | A | 2050A24 | .719 | 1.58 |
| 25 | 12.5 | 5.320 | 5.026 | 2050B25 | B | .75 | 2 | 3 | 1.25 | 3.42 | A | 2050A25 | .719 | 1.68 |
| 26 | 13.0 | 5.520 | 5.223 | 2050B26 | B | .75 | 2 | 3 | 1.25 | 3.62 | A | 2050A26 | .719 | 1.88 |
| 28 | 14.0 | 5.920 | 5.617 | 2050B28 | B | .75 | 2 | 3 | 1.25 | 3.78 | A | 2050A28 | .719 | 2.22 |
| 30 | 15.0 | 6.320 | 6.012 | 2050B30 | B | .75 | 2.25 | 3.25 | 1.25 | 4.58 | A | 2050A30 | .719 | 2.54 |

★ Has recessed groove in hub for chain clearance.

### Conveyor Series — Carrier Roller Double Pitch — 2052/C2052




Type B

| No. Teeth | OD | PD | Catalog Number | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Actual | | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 8 | 3.770 | 3.266 | 2052B8 | B | .625 | 1.594 | 2.359 | 1 | 1.38 | – | – | – | – |
| 9 | 4.190 | 3.655 | 2052B9 | B | .625 | 1.781 | 3 | 1 | 1.92 | – | – | – | – |
| 10 | 4.600 | 4.045 | 2052B10 | B | .625 | 2 | 3 | 1 | 2.30 | – | – | – | – |
| 11 | 5.010 | 4.437 | 2052B11 | B | .625 | 2 | 3 | 1 | 2.54 | – | – | – | – |
| 12 | 5.420 | 4.830 | 2052B12 | B | .75 | 2 | 3 | 1.25 | 3.20 | A | 2052A12 | .719 | 1.58 |
| 13 | 5.820 | 5.223 | 2052B13 | B | .75 | 2 | 3 | 1.25 | 3.48 | A | 2052A13 | .719 | 1.82 |
| 14 | 6.230 | 5.617 | 2052B14 | B | .75 | 2 | 3 | 1.25 | 3.88 | A | 2052A14 | .719 | 2.28 |
| 15 | 6.630 | 6.012 | 2052B15 | B | .75 | 2.25 | 3.25 | 1.25 | 4.46 | A | 2052A15 | .719 | 2.46 |
| 16 | 7.030 | 6.407 | 2052B16 | B | .75 | 2.25 | 3.25 | 1.25 | 4.80 | A | 2052A16 | .719 | 2.88 |
| 17 | 7.440 | 6.803 | 2052B17 | B | .75 | 2.25 | 3.25 | 1.25 | 5.34 | A | 2052A17 | .719 | 3.28 |
| 18 | 7.840 | 7.198 | 2052B18 | B | .75 | 2.25 | 3.25 | 1.25 | 5.64 | A | 2052A18 | .719 | 3.64 |
| 19 | 8.240 | 7.595 | 2052B19 | B | .75 | 2.25 | 3.25 | 1.25 | 6.04 | A | 2052A19 | .719 | 4.12 |
| 20 | 8.640 | 7.991 | 2052B20 | B | .75 | 2.25 | 3.25 | 1.25 | 6.48 | A | 2052A20 | .719 | 4.72 |
| 21 | 9.040 | 8.387 | 2052B21 | B | .75 | 2.25 | 3.25 | 1.25 | 7.00 | A | 2052A21 | .719 | 5.08 |
| 22 | 9.440 | 8.783 | 2052B22 | B | .75 | 2.25 | 3.25 | 1.25 | 7.30 | A | 2052A22 | .719 | 5.20 |
| 23 | 9.850 | 9.180 | 2052B23 | B | 1 | 2.75 | 3.75 | 1.25 | 8.66 | A | 2052A23 | .938 | 5.84 |
| 24 | 10.250 | 9.577 | 2052B24 | B | .938 | 2.75 | 3.75 | 1.25 | 9.32 | A | 2052A24 | .938 | 6.70 |
| 25 | 10.650 | 9.973 | 2052B25 | B | .938 | 2.75 | 3.75 | 1.25 | 10.30 | A | 2052A25 | .938 | 7.54 |
| 26 | 11.050 | 10.370 | 2052B26 | B | .938 | 2.75 | 3.75 | 1.25 | 11.00 | A | 2052A26 | .938 | 8.24 |
| 28 | 11.840 | 11.164 | 2052B28 | B | .938 | 2.75 | 3.75 | 1.25 | 11.70 | A | 2052A28 | .938 | 8.70 |
| 30 | 12.640 | 11.958 | 2052B30 | B | .938 | 2.75 | 3.75 | 1.25 | 12.90 | A | 2052A30 | .938 | 9.92 |

★ Has recessed groove in hub for chain clearance.

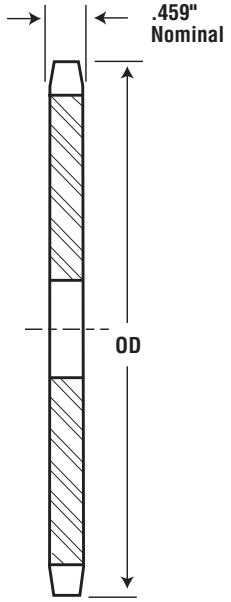
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat.
Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Double Pitch
# All Steel Stock Sprockets

## 1.5-Inch Double-Pitch
## Conveyor or Drive Series — Standard Roller
## Double Pitch — 2060/C2060

| No. Teeth Actual | Eff. No. Teeth | OD | PD | Catalog Number | Type | Bore Stock | Bore Rec. Max | Hub Dia. | Hub LTB | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 5.500 | 3.000 | 2.773 | 2060B11 | B | .75 | 1 | 2.063★ | 1.25 | 1.14 | – | – | – | – |
| 12 | 6.000 | 3.250 | 3.000 | 2060B12 | B | .75 | 1.25 | 2.375★ | 1.25 | 1.46 | – | – | – | – |
| 13 | 6.500 | 3.490 | 3.228 | 2060B13 | B | .75 | 1.313 | 2.078 | 1.25 | 1.52 | – | – | – | – |
| 14 | 7.000 | 3.740 | 3.457 | 2060B14 | B | .75 | 1.563 | 2.328 | 1.25 | 1.86 | – | – | – | – |
| 15 | 7.500 | 3.980 | 3.688 | 2060B15 | B | .75 | 1.75 | 2.594 | 1.25 | 2.24 | – | – | – | – |
| 16 | 8.000 | 4.220 | 3.920 | 2060B16 | B | .75 | 1.844 | 2.844 | 1.25 | 2.64 | – | – | – | – |
| 17 | 8.500 | 4.460 | 4.152 | 2060B17 | B | .75 | 2.094 | 3.094 | 1.25 | 3.08 | – | – | – | – |
| 18 | 9.000 | 4.700 | 4.386 | 2060B18 | B | .75 | 2.281 | 3.344 | 1.25 | 3.56 | – | – | – | – |
| 19 | 9.500 | 4.940 | 4.620 | 2060B19 | B | .75 | 2.344 | 3.5 | 1.25 | 3.94 | – | – | – | – |
| 20 | 10.000 | 5.190 | 4.854 | 2060B20 | B | .75 | 2.563 | 3.875 | 1.25 | 4.50 | – | – | – | – |
| 21 | 10.500 | 5.430 | 5.089 | 2060B21 | B | .75 | 2.75 | 4 | 1.25 | 5.02 | – | – | – | – |
| 22 | 11.000 | 5.670 | 5.324 | 2060B22 | B | .75 | 2.75 | 4 | 1.25 | 5.26 | – | – | – | – |
| 23 | 11.500 | 5.910 | 5.560 | 2060B23 | B | .75 | 2.75 | 4 | 1.25 | 5.54 | – | – | – | – |
| 24 | 12.000 | 6.150 | 5.796 | 2060B24 | B | .75 | 2.75 | 4 | 1.25 | 5.90 | A | 2060A24 | .719 | 3.02 |
| 25 | 12.500 | 6.390 | 6.032 | 2060B25 | B | .75 | 2.75 | 4 | 1.25 | 6.08 | A | 2060A25 | .719 | 3.36 |
| 26 | 13.000 | 6.630 | 6.268 | 2060B26 | B | .75 | 2.75 | 4 | 1.25 | 6.36 | A | 2060A26 | .719 | 3.58 |
| 28 | 14.000 | 7.110 | 6.741 | 2060B28 | B | .75 | 2.75 | 4 | 1.25 | 7.02 | A | 2060A28 | .719 | 4.12 |
| 30 | 15.000 | 7.590 | 7.215 | 2060B30 | B | .75 | 2.75 | 4 | 1.25 | 7.54 | A | 2060A30 | .719 | 4.88 |

★ Has recessed groove in hub for chain clearance.



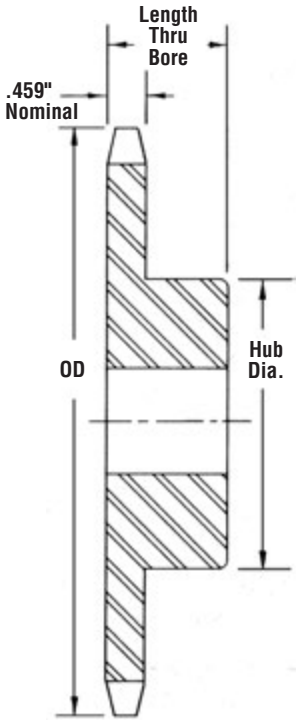

Type A

## Conveyor Series — Carrier Roller
## Double Pitch — 2062/C2062

| No. Teeth Actual | OD | PD | Catalog Number | Type | Bore Stock | Bore Rec. Max | Hub Dia. | Hub LTB | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 4.520 | 3.920 | 2062B8 | B | 0.75 | 1.844 | 2.844 | 1.25 | 2.60 | – | – | – | – |
| 9 | 5.020 | 4.386 | 2062B9 | B | 0.75 | 2.281 | 3.344 | 1.25 | 3.48 | – | – | – | – |
| 10 | 5.520 | 4.854 | 2062B10 | B | 0.75 | 2.563 | 3.828 | 1.25 | 4.54 | – | – | – | – |
| 11 | 6.010 | 5.324 | 2062B11 | B | 0.75 | 2.75 | 4 | 1.25 | 5.20 | – | – | – | – |
| 12 | 6.500 | 5.796 | 2062B12 | B | 0.75 | 2.75 | 4 | 1.25 | 5.70 | A | 2062A12 | 0.719 | 2.98 |
| 13 | 6.990 | 6.268 | 2062B13 | B | 0.75 | 2.75 | 4 | 1.25 | 6.28 | A | 2062A13 | 0.719 | 3.60 |
| 14 | 7.470 | 6.741 | 2062B14 | B | 0.75 | 2.75 | 4 | 1.25 | 6.82 | A | 2062A14 | 0.719 | 4.02 |
| 15 | 7.960 | 7.215 | 2062B15 | B | 0.75 | 2.75 | 4 | 1.25 | 7.48 | A | 2062A15 | 0.719 | 4.76 |
| 16 | 8.440 | 7.689 | 2062B16 | B | 0.75 | 2.75 | 4 | 1.25 | 8.18 | A | 2062A16 | 0.719 | 5.70 |
| 17 | 8.920 | 8.163 | 2062B17 | B | 1 | 2.75 | 4 | 1.25 | 8.82 | A | 2062A17 | 0.938 | 6.16 |
| 18 | 9.410 | 8.638 | 2062B18 | B | 1 | 2.75 | 4 | 1.25 | 9.36 | A | 2062A18 | 0.938 | 6.96 |
| 19 | 9.890 | 9.113 | 2062B19 | B | 1 | 2.75 | 4.25 | 1.25 | 11.10 | A | 2062A19 | 0.938 | 8.00 |
| 20 | 10.370 | 9.589 | 2062B20 | B | 1.313 | 2.75 | 4.25 | 1.25 | 11.66 | A | 2062A20 | 0.938 | 8.46 |
| 21 | 10.850 | 10.064 | 2062B21 | B | 1.313 | 2.75 | 4.25 | 1.25 | 13.24 | A | 2062A21 | 0.938 | 8.93 |
| 22 | 11.330 | 10.540 | 2062B22 | B | 1.313 | 2.75 | 4.25 | 1.25 | 13.78 | A | 2062A22 | 0.938 | 10.74 |
| 23 | 11.810 | 11.016 | 2062B23 | B | 1.313 | 2.75 | 4.25 | 1.25 | 14.90 | A | 2062A23 | 0.938 | 11.64 |
| 24 | 12.290 | 11.492 | 2062B24 | B | 1.313 | 2.75 | 4.25 | 1.25 | 15.66 | A | 2062A24 | 0.938 | 12.64 |
| 25 | 12.770 | 11.968 | 2062B25 | B | 1.313 | 2.75 | 4.25 | 1.25 | 16.80 | A | 2062A25 | 0.938 | 13.78 |
| 26 | 13.250 | 12.444 | 2062B26 | B | 1.313 | 2.75 | 4.25 | 1.75 | 20.20 | A | 2062A26 | 0.938 | 15.00 |
| 28 | 14.210 | 13.397 | 2062B28 | B | 1.25 | 2.75 | 4.25 | 1.75 | 21.86 | A | 2062A28 | 1.25 | 17.32 |
| 30 | 15.170 | 14.350 | 2062B30 | B | 1.25 | 2.75 | 4.25 | 1.75 | 26.00 | A | 2062A30 | 1.25 | 19.50 |

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat.
Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

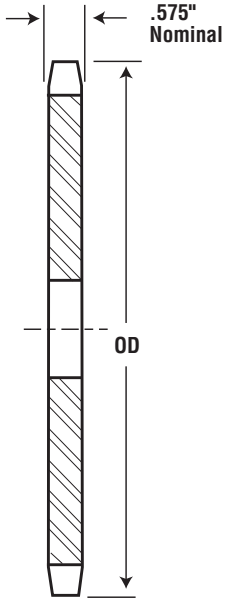



Type B

# Double Pitch
# All Steel Stock Sprockets

## 2-Inch Double-Pitch

### Conveyor or Drive Series — Standard Roller
### Double Pitch — 2080/C2080

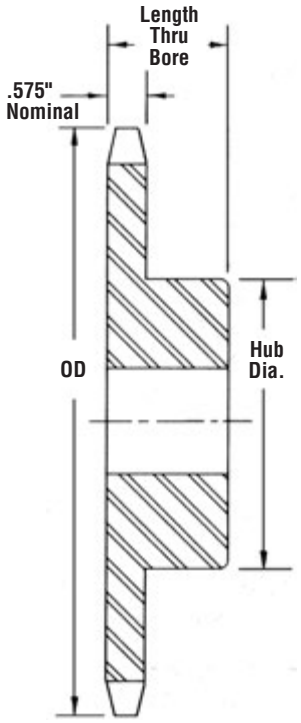



Type A

| No. Teeth Actual | Eff. No. Teeth | OD | PD | Catalog Number | Type | Bore Stock | Bore Rec. Max | Hub Dia. | Hub LTB | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 5.500 | 4.010 | 3.694 | 2080B11 | B | 1 | 1.5 | 2.813★ | 1.625 | 2.5 | – | – | – | – |
| 12 | 6.000 | 4.330 | 4.000 | 2080B12 | B | 1 | 1.688 | 3.125★ | 1.625 | 3.2 | – | – | – | – |
| 13 | 6.500 | 4.660 | 4.304 | 2080B13 | B | 1 | 1.781 | 2.781 | 1.5 | 3.3 | – | – | – | – |
| 14 | 7.000 | 4.980 | 4.610 | 2080B14 | B | 1 | 2.125 | 3.125 | 1.5 | 4.0 | – | – | – | – |
| 15 | 7.500 | 5.300 | 4.917 | 2080B15 | B | 1 | 2.281 | 3.453 | 1.5 | 4.8 | – | – | – | – |
| 16 | 8.000 | 5.630 | 5.226 | 2080B16 | B | 1 | 2.531 | 3.797 | 1.5 | 5.7 | – | – | – | – |
| 17 | 8.500 | 5.950 | 5.536 | 2080B17 | B | 1 | 2.75 | 4 | 1.5 | 6.4 | A | 2080A17 | 0.938 | 3.4 |
| 18 | 9.000 | 6.270 | 5.848 | 2080B18 | B | 1 | 2.75 | 4.25 | 1.5 | 7.4 | A | 2080A18 | 0.938 | 3.8 |
| 19 | 9.500 | 6.590 | 6.160 | 2080B19 | B | 1 | 2.75 | 4.25 | 1.5 | 7.7 | A | 2080A19 | 0.938 | 4.3 |
| 20 | 10.000 | 6.910 | 6.472 | 2080B20 | B | 1 | 2.75 | 4.25 | 1.5 | 8.3 | A | 2080A20 | 0.938 | 4.8 |
| 21 | 10.500 | 7.230 | 6.785 | 2080B21 | B | 1 | 2.75 | 4.25 | 1.75 | 9.4 | A | 2080A21 | 0.938 | 5.3 |
| 22 | 11.000 | 7.560 | 7.099 | 2080B22 | B | 1 | 2.75 | 4.25 | 1.75 | 10.0 | A | 2080A22 | 0.938 | 5.8 |
| 23 | 11.500 | 7.880 | 7.413 | 2080B23 | B | 1 | 2.75 | 4.25 | 1.75 | 10.5 | A | 2080A23 | 0.938 | 6.4 |
| 24 | 12.000 | 8.200 | 7.727 | 2080B24 | B | 1 | 2.75 | 4.25 | 1.75 | 11.1 | A | 2080A24 | 0.938 | 7.1 |
| 25 | 12.500 | 8.520 | 8.042 | 2080B25 | B | 1 | 2.75 | 4.25 | 1.75 | 12.0 | A | 2080A25 | 0.938 | 7.5 |
| 26 | 13.000 | 8.840 | 8.357 | 2080B26 | B | 1.25 | 3.25 | 4.75 | 2 | 14.8 | A | 2080A26 | 1.188 | 8.3 |
| 28 | 14.000 | 9.480 | 8.988 | 2080B28 | B | 1.188 | 3.25 | 4.75 | 2 | 16.6 | A | 2080A28 | 1.188 | 9.2 |
| 30 | 15.000 | 10.110 | 9.620 | 2080B30 | B | 1.188 | 3.25 | 4.75 | 2 | 17.8 | A | 2080A30 | 1.188 | 10.7 |

★ Has recessed groove in hub for chain clearance.

### Conveyor Series — Carrier Roller
### Double Pitch — 2082/C2082




Type B

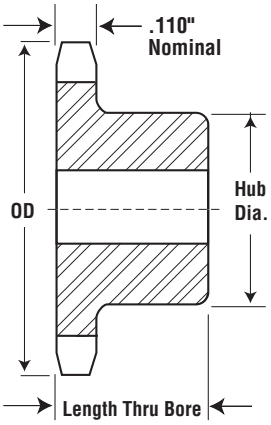
| No. Teeth Actual | OD | PD | Catalog Number | Type | Bore Stock | Bore Rec. Max | Hub Dia. | Hub LTB | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 6.030 | 5.226 | 2082B8 | B | 1 | 2.531 | 3.797 | 1.75 | 6.4 | – | – | – | – |
| 9 | 6.700 | 5.848 | 2082B9 | B | 1 | 2.75 | 4.25 | 1.75 | 8.2 | – | – | – | – |
| 10 | 7.360 | 6.472 | 2082B10 | B | 1 | 2.75 | 4.25 | 1.75 | 9.2 | – | – | – | – |
| 11 | 8.010 | 7.099 | 2082B11 | B | 1 | 2.75 | 4.25 | 1.75 | 10.1 | A | 2082A11 | 0.938 | 5.7 |
| 12 | 8.660 | 7.727 | 2082B12 | B | 1 | 2.75 | 4.25 | 1.75 | 11.2 | A | 2082A12 | 0.938 | 6.8 |
| 13 | 9.310 | 8.357 | 2082B13 | B | 1.25 | 3.25 | 4.75 | 2 | 15.0 | A | 2082A13 | 0.813 | 7.7 |
| 14 | 9.960 | 8.988 | 2082B14 | B | 1.25 | 3.25 | 4.75 | 2 | 15.8 | A | 2082A14 | 0.813 | 9.1 |
| 15 | 10.610 | 9.620 | 2082B15 | B | 1.188 | 3.25 | 4.75 | 2 | 17.8 | A | 2082A15 | 0.813 | 10.7 |
| 16 | 11.250 | 10.252 | 2082B16 | B | 1.188 | 3.25 | 4.75 | 2 | 19.3 | A | 2082A16 | 0.813 | 12.4 |
| 17 | 11.900 | 10.885 | 2082B17 | B | 1.188 | 3.25 | 4.75 | 2 | 21.4 | A | 2082A17 | 0.813 | 14.1 |
| 18 | 12.540 | 11.518 | 2082B18 | B | 1.188 | 3.25 | 4.75 | 2 | 22.9 | A | 2082A18 | 0.813 | 15.4 |
| 19 | 13.190 | 12.151 | 2082B19 | B | 1.188 | 3.25 | 4.75 | 2 | 24.4 | A | 2082A19 | 0.813 | 18.0 |
| 20 | 13.830 | 12.785 | 2082B20 | B | 1.188 | 3.25 | 4.75 | 2 | 26.7 | A | 2082A20 | 0.813 | 19.2 |
| 21 | 14.470 | 13.419 | 2082B21 | B | 1.25 | 3.25 | 4.75 | 2 | 28.4 | A | 2082A21 | 1.250 | 20.8 |
| 22 | 15.110 | 14.053 | 2082B22 | B | 1.25 | 3.25 | 4.75 | 2 | 30.8 | A | 2082A22 | 1.250 | 23.7 |
| 23 | 15.750 | 14.688 | 2082B23 | B | 1.25 | 3.25 | 4.75 | 2 | 32.2 | A | 2082A23 | 1.250 | 24.9 |
| 24 | 16.390 | 15.323 | 2082B24 | B | 1.25 | 3.25 | 4.75 | 2 | 34.9 | A | 2082A24 | 1.250 | 27.6 |
| 25 | 17.030 | 15.958 | 2082B25 | B | 1.25 | 3.25 | 4.75 | 2 | 37.8 | A | 2082A25 | 1.250 | 30.2 |
| 26 | 17.670 | 16.593 | 2082B26 | B | 1.25 | 3.5 | 5.25 | 2 | 41.5 | A | 2082A26 | 1.250 | 32.8 |
| 28 | 18.950 | 17.863 | 2082B28 | B | 1.25 | 3.5 | 5.25 | 2 | 47.7 | A | 2082A28 | 1.25 | 38.6 |
| 30 | 20.230 | 19.134 | 2082B30 | B | 1.25 | 3.5 | 5.25 | 2 | 54.5 | A | 2082A30 | 1.25 | 43.8 |

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat.
Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# No. 25
## ¼" Pitch

# All Steel Stock Sprockets




Type B

**Alteration Charges**

See current discount sheet for alteration charges.

## Single - Type B / Single - Type A

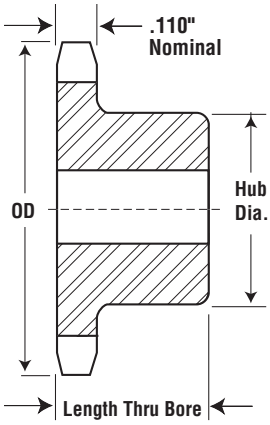
| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 9 | 25B9 | .837 | B | .25 | .25 | .438 | .5 | .03 | – | – | – | – |
| 10 | 25B10 | .919 | B | .25 | .25 | .5 | .5 | .03 | – | – | – | – |
| 11 | 25B11 | 1.002 | B | .25 | .313 | .563 | .5 | .04 | – | – | – | – |
| 12 | 25B12 | 1.083 | B | .25 | .375 | .625 | .5 | .06 | – | – | – | – |
| 13 | 25B13 | 1.167 | B | .25 | .438 | .719 | .5 | .07 | – | – | – | – |
| 14 | 25B14 | 1.246 | B | .25 | .563 | .813 | .5 | .08 | – | – | – | – |
| 15 | 25B15 | 1.326 | B | .25 | .563 | .891 | .5 | .10 | – | – | – | – |
| 16 | 25B16 | 1.407 | B | .25 | .563 | .969 | .5 | .12 | – | – | – | – |
| 17 | 25B17 | 1.487 | B | .25 | .625 | 1.031 | .5 | .14 | – | – | – | – |
| 18 | 25B18 | 1.568 | B | .25 | .75 | 1.125 | .5 | .16 | A | 25A18 | .25 | .04 |
| 19 | 25B19 | 1.648 | B | .25 | .813 | 1.219 | .5 | .19 | A | 25A19 | .25 | .04 |
| 20 | 25B20 | 1.729 | B | .25 | .875 | 1.281 | .625 | .25 | A | 25A20 | .25 | .04 |
| 21 | 25B21 | 1.809 | B | .25 | .875 | 1.375 | .625 | .28 | A | 25A21 | .375 | .04 |
| 22 | 25B22 | 1.889 | B | .25 | .938 | 1.438 | .625 | .31 | A | 25A22 | .375 | .06 |
| 23 | 25B23 | 1.969 | B | .25 | 1 | 1.5 | .625 | .32 | A | 25A23 | .375 | .06 |
| 24 | 25B24 | 2.049 | B | .375 | 1 | 1.5 | .625 | .33 | A | 25A24 | .375 | .08 |
| 25 | 25B25 | 2.129 | B | .375 | 1 | 1.5 | .625 | .34 | A | 25A25 | .375 | .08 |
| 26 | 25B26 | 2.209 | B | .375 | 1 | 1.5 | .625 | .35 | A | 25A26 | .375 | .09 |
| 28 | 25B28 | 2.369 | B | .375 | 1 | 1.5 | .625 | .36 | A | 25A28 | .375 | .10 |
| 30 | 25B30 | 2.529 | B | .375 | 1 | 1.5 | .625 | .38 | A | 25A30 | .375 | .12 |
| 32 | 25B32 | 2.688 | B | .375 | 1 | 1.5 | .625 | .40 | A | 25A32 | .375 | .14 |
| 35 | – | 2.928 | – | – | – | – | – | – | A | 25A35 | .375 | .16 |
| 36 | 25B36 | 3.008 | B | .375 | 1 | 1.5 | .75 | .50 | A | 25A36 | .375 | .18 |
| 40 | 25B40 | 3.327 | B | .5 | 1.375 | 2 | .75 | .53 | A | 25A40 | .5 | .20 |
| 42 | – | 3.486 | – | – | – | – | – | – | A | 25A42 | .5 | .24 |
| 45 | 25B45 | 3.725 | B | .5 | 1.375 | 2 | .75 | .56 | A | 25A45 | .5 | .25 |
| 48 | 25B48 | 3.964 | B | .5 | 1.375 | 2 | .75 | .56 | A | 25A48 | .5 | .32 |
| 54 | 25B54 | 4.442 | B | .5 | 1.375 | 2 | .75 | 1.00 | A | 25A54 | .5 | .38 |
| 60 | 25B60 | 4.920 | B | .5 | 1.375 | 2 | .75 | 1.10 | A | 25A60 | .5 | .54 |
| 70 | 25B70 | 5.717 | B | .5 | 1.375 | 2 | .75 | 1.25 | – | – | – | – |
| 72 | 25B72 | 5.876 | B | .5 | 1.375 | 2 | .75 | 1.30 | A | 25A72 | .5 | .74 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Stainless Steel Stock Sprockets

# No. 25 ¼" Pitch

Stainless Steel




Type B

**Alteration Charges**

See current discount sheet for alteration charges.

## Single - Type B — Stainless

| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | |
| 9 | 25B9SS | 0.837 | B | .25 | .25 | .438 | .5 | .03 |
| 10 | 25B10SS | 0.919 | B | .25 | .25 | .5 | .5 | .03 |
| 11 | 25B11SS | 1.001 | B | .25 | .313 | .563 | .5 | .03 |
| 12 | 25B12SS | 1.083 | B | .25 | .375 | .625 | .5 | .06 |
| 13 | 25B13SS | 1.164 | B | .25 | .438 | .719 | .5 | .07 |
| 14 | 25B14SS | 1.245 | B | .25 | .563 | .813 | .5 | .08 |
| 15 | 25B15SS | 1.326 | B | .25 | .563 | .891 | .5 | .10 |
| 16 | 25B16SS | 1.407 | B | .25 | .563 | .969 | .5 | .12 |
| 17 | 25B17SS | 1.487 | B | .25 | .625 | 1.031 | .5 | .14 |
| 18 | 25B18SS | 1.568 | B | .25 | .75 | 1.125 | .5 | .16 |
| 19 | 25B19SS | 1.648 | B | .25 | .813 | 1.219 | .5 | .19 |
| 20 | 25B20SS | 1.728 | B | .25 | .875 | 1.281 | .625 | .25 |
| 21 | 25B21SS | 1.809 | B | .25 | .875 | 1.375 | .625 | .28 |
| 22 | 25B22SS | 1.889 | B | .25 | .938 | 1.438 | .625 | .31 |
| 23 | 25B23SS | 1.969 | B | .25 | 1 | 1.5 | .625 | .32 |
| 24 | 25B24SS | 2.049 | B | .375 | 1 | 1.5 | .625 | .33 |
| 25 | 25B25SS | 2.129 | B | .375 | 1 | 1.5 | .625 | .34 |
| 26 | 25B26SS | 2.209 | B | .375 | 1 | 1.5 | .625 | .35 |
| 28 | 25B28SS | 2.369 | B | .375 | 1 | 1.5 | .625 | .36 |
| 30 | 25B30SS | 2.529 | B | .375 | 1 | 1.5 | .625 | .38 |
| 32 | 25B32SS | 2.688 | B | .375 | 1 | 1.5 | .625 | .40 |
| 35 | 25B35SS | 2.928 | B | .375 | 1 | 1.5 | .75 | .48 |
| 36 | 25B36SS | 3.008 | B | .375 | 1 | 1.5 | .75 | .50 |
| 40 | 25B40SS | 3.327 | B | .5 | 1.375 | 2 | .75 | .53 |
| 45 | 25B45SS | 3.725 | B | .5 | 1.375 | 2 | .75 | .56 |
| 60 | 25B60SS | 4.920 | B | .5 | 1.375 | 2 | .75 | 1.10 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

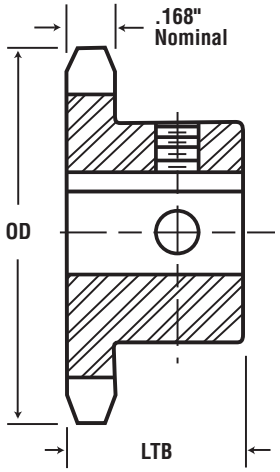
# No. 35
## 3/8" Pitch

# All Steel Stock Sprockets

## Single - Type BS — 2 Setscrews — Bored-To-Size

| No. Teeth | Catalog Number | OD | LTB | Wt. lb (Approx.) | Stock Finished Bores Includes Keyway and 2 Setscrews | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 35BS9 | 1.260 | .75 | 0.10 | ★.375 | | | | | | | |
| 10 | 35BS10 | 1.380 | .75 | 0.11 | ★.375 | ★.5 | † .625 | | | | | |
| 11 | 35BS11 | 1.500 | .75 | 0.15 | ★.375 | ★.5 | † .625 | † .75 | | | | |
| 12 | 35BS12 | 1.630 | .75 | 0.18 | | ★.5 | .625 | † .75 | | | | |
| 13 | 35BS13 | 1.750 | .75 | 0.20 | | ★.5 | .625 | .75 | | | | |
| 14 | 35BS14 | 1.870 | .75 | 0.22 | | ★.5 | .625 | .75 | | | | |
| 15 | 35BS15 | 1.990 | .75 | 0.24 | | ★.5 | .625 | .75 | .875 | 1 | | |
| 16 | 35BS16 | 2.110 | .75 | 0.29 | | ★.5 | .625 | .75 | .875 | 1 | | |
| 17 | 35BS17 | 2.230 | .75 | 0.36 | | ★.5 | .625 | .75 | .875 | 1 | | |
| 18 | 35BS18 | 2.350 | .75 | 0.39 | | ★.5 | .625 | .75 | .875 | 1 | | |
| 19 | 35BS19 | 2.470 | .75 | 0.44 | | ★.5 | .625 | .75 | | 1 | | |
| 20 | 35BS20 | 2.590 | .75 | 0.51 | | ★.5 | .625 | .75 | | 1 | | |
| 21 | 35BS21 | 2.710 | .875 | 0.75 | | ★.5 | .625 | .75 | | 1 | | |
| 22 | 35BS22 | 2.830 | .875 | 0.78 | | ★.5 | .625 | .75 | | 1 | | |
| 23 | 35BS23 | 2.950 | .875 | 0.78 | | ★.5 | .625 | .75 | | 1 | | |
| 24 | 35BS24 | 3.070 | .875 | 0.79 | | ★.5 | .62 5 | .75 | | 1 | | |
| 25 | 35BS25 | 3.190 | .875 | 0.80 | | ★.5 | .625 | .75 | | 1 | | |
| 26 | 35BS26 | 3.310 | .875 | 0.84 | | | .625 | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 27 | 35BS27 | 3.430 | .875 | 0.88 | | | .625 | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 28 | 35BS28 | 3.550 | .875 | 0.86 | | | .625 | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 30 | 35BS30 | 3.790 | .875 | 0.96 | | | .625 | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 32 | 35BS32 | 4.030 | .875 | 1.14 | | | .625 | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 35 | 35BS35 | 4.390 | .875 | 1.38 | | | .625 | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 36 | 35BS36 | 4.510 | .875 | 1.41 | | | .625 | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 40 | 35BS40 | 4.990 | 1 | 1.56 | | | .625 | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 42 | 35BS42 | 5.230 | 1 | 1.64 | | | .625 | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 45 | 35BS45 | 5.590 | 1 | 1.74 | | | .625 | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 48 | 35BS48 | 5.950 | 1 | 1.86 | | | .625 | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 54 | 35BS54 | 6.660 | 1 | 1.98 | | | .625 | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 60 | 35BS60 | 7.380 | 1 | 2.34 | | | | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 70 | 35BS70 | 8.580 | 1 | 3.14 | | | | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 72 | 35BS72 | 8.810 | 1 | 3.30 | | | | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 80 | 35BS80 | 9.770 | 1 | 3.94 | | | | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 84 | 35BS84 | 10.250 | 1 | 4.26 | | | | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 96 | 35BS96 | 11.680 | 1 | 5.22 | | | | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |
| 112 | 35BS112 | 13.590 | 1 | 6.50 | | | | .75 | .875 | 1 | 1.125 | 1.1875 | 1.25 |

★ Indicates no keyway. (2) .25" setscrews only in .5" & .375" bore.
† Keyway with Setscrew at 90°.
Hub diameters vary to suit different bore sizes.
NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

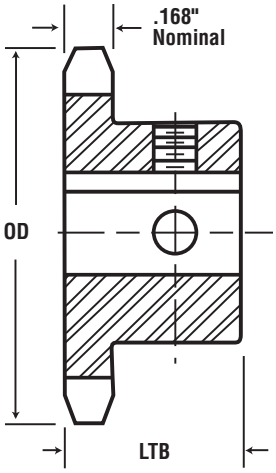



Type BS

Bored-To-Size

# All Steel Stock Sprockets

# No. 35 3/8" Pitch




Type BS

Bored-To-Size

SABER TOOTH®

## No. 35 - Hardened Teeth — 2 Setscrews — Bored-To-Size

| No. Teeth | Catalog Number | OD | LTB | Wt. lb (Approx.) | Stock Finished Bores Includes Keyway and 2 Setscrews | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 35BS9HT | 1.260 | .75 | 0.10 | ★.375 | | | | | | | | | | |
| 10 | 35BS10HT | 1.380 | .75 | 0.11 | ★.375 | — | ★ .5 | — | † .625 | | | | | | |
| 11 | 35BS11HT | 1.500 | .75 | 0.15 | ★.375 | — | ★ .5 | — | † .625 | — | † .75 | | | | |
| 12 | 35BS12HT | 1.630 | .75 | 0.18 | | — | ★ .5 | — | .625 | — | † .75 | | | | |
| 13 | 35BS13HT | 1.750 | .75 | 0.20 | | — | ★ .5 | — | .625 | — | .75 | | | | |
| 14 | 35BS14HT | 1.870 | .75 | 0.22 | | — | ★ .5 | — | .625 | — | .75 | | | | |
| 15 | 35BS15HT | 1.990 | .75 | 0.24 | | — | ★ .5 | — | .625 | — | .75 | — | .875 | — | 1 |
| 16 | 35BS16HT | 2.110 | .75 | 0.29 | | — | ★ .5 | — | .625 | — | .75 | — | .875 | — | 1 |
| 17 | 35BS17HT | 2.230 | .75 | 0.36 | | — | ★ .5 | — | .625 | — | .75 | — | .875 | — | 1 |
| 18 | 35BS18HT | 2.350 | .75 | 0.39 | | — | ★ .5 | — | .625 | — | .75 | — | .875 | — | 1 |
| 19 | 35BS19HT | 2.470 | .75 | 0.44 | | | | | .625 | — | .75 | — | | — | 1 |
| 20 | 35BS20HT | 2.590 | .75 | 0.51 | | | | | .625 | — | .75 | — | | — | 1 |
| 21 | 35BS21HT | 2.710 | .875 | 0.75 | | | | | .625 | — | .75 | — | | — | 1 |
| 22 | 35BS22HT | 2.830 | .875 | 0.76 | | | | | .625 | — | .75 | — | | — | 1 |
| 23 | 35BS23HT | 2.950 | .875 | 0.78 | | | | | .625 | — | .75 | — | | — | 1 |
| 24 | 35BS24HT | 3.070 | .875 | 0.79 | | | | | .625 | | .75 | — | | — | 1 |
| 25 | 35BS25HT | 3.190 | .875 | 0.80 | | | | | .625 | — | .75 | — | | — | 1 |
| 26 | 35BS26HT | 3.310 | .875 | 0.84 | | | | | .625 | — | .75 | — | | — | 1 |
| 28 | 35BS28HT | 3.550 | .875 | 0.88 | | | | | .625 | — | .75 | — | | — | 1 |
| 30 | 35BS30HT | 3.790 | .875 | 0.96 | | | | | .625 | — | .75 | — | | — | 1 |

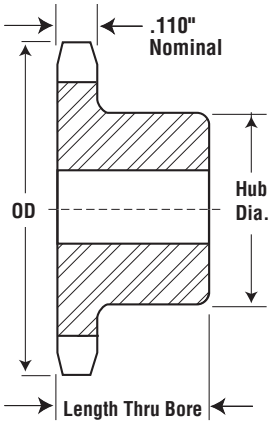
★ Indicates no keyway. (2) .25" setscrews only in .5" & .375" bore at 90°.
† Keyway with Setscrew at 90° & 180°.
Hub diameters vary to suit different bore sizes.
NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

Martin stock hardened teeth sprockets afford longer chain and sprocket life. Hardened teeth on the smaller sprocket of a roller chain drive are recommended if the drive ratio is four to one or greater or if the smaller sprocket has 24 teeth or less and is running at a speed of over 600 RPM

# No. 35
## 3/8" Pitch

# Stainless Steel Stock Sprockets

Stainless Steel




Type B

**Alteration Charges**

See current discount sheet for alteration charges.

## Single - Type B — Stainless

## Single - Type A

| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 9 | 35B9SS | 1.260 | B | .375 | .375 | 0.844 ★ | .75 | 0.10 | | | | |
| 10 | 35B10SS | 1.380 | B | .375 | .563 | 0.969 ★ | .75 | 0.15 | | | | |
| 11 | 35B11SS | 1.500 | B | .375 | .563 | 1.063 ★ | .75 | 0.20 | | | | |
| 12 | 35B12SS | 1.630 | B | .5 | .625 | 1.219 ★ | .75 | 0.22 | | | | |
| 13 | 35B13SS | 1.750 | B | .5 | .75 | 1.25 ★ | .75 | 0.25 | | | | |
| 14 | 35B14SS | 1.870 | B | .5 | .875 | 1.25 | .75 | 0.26 | | | | |
| 15 | 35B15SS | 1.990 | B | .5 | .875 | 1.344 | .75 | 0.30 | | | | |
| 16 | 35B16SS | 2.110 | B | .5 | .938 | 1.469 | .75 | 0.40 | | | | |
| 17 | 35B17SS | 2.230 | B | .5 | 1.063 | 1.594 | .75 | 0.43 | | | | |
| 18 | 35B18SS | 2.350 | B | .5 | 1.188 | 1.719 | .75 | 0.50 | | | | |
| 19 | 35B19SS | 2.470 | B | .5 | 1.25 | 1.844 | .75 | 0.56 | | | | |
| 20 | 35B20SS | 2.590 | B | .5 | 1.313 | 1.938 | .75 | 0.68 | | | | |
| 21 | 35B21SS | 2.710 | B | .5 | 1.375 | 2 | .875 | 0.80 | | | | |
| 22 | 35B22SS | 2.830 | B | .5 | 1.375 | 2 | .875 | 0.82 | | | | |
| 23 | 35B23SS | 2.950 | B | .5 | 1.375 | 2 | .875 | 0.87 | | | | |
| 24 | 35B24SS | 3.070 | B | .5 | 1.375 | 2 | .875 | 0.89 | | | | |
| 25 | 35B25SS | 3.190 | B | .5 | 1.375 | 2 | .875 | 0.91 | | | | |
| 26 | 35B26SS | 3.310 | B | .5 | 1.375 | 2 | .875 | 0.93 | | | | |
| 28 | 35B28SS | 3.550 | B | .5 | 1.375 | 2 | .875 | 1.00 | | | | |
| 30 | 35B30SS | 3.790 | B | .5 | 1.375 | 2 | .875 | 1.06 | | | | |
| 32 | 35B32SS | 4.032 | B | .5 | 1.375 | 2 | .875 | 1.24 | | | | |
| 35 | 35B35SS | 4.390 | B | .625 | 1.5 | 2.25 | .875 | 1.56 | | | | |
| 36 | 35B36SS | 4.551 | B | .625 | 1.5 | 2.25 | .875 | 1.60 | | | | |
| 40 | 35B40SS | 4.990 | B | .625 | 1.5 | 2.25 | 1 | 1.70 | A | 35A40SS | 0.594 | 1.04 |
| 45 | 35B45SS | 5.590 | B | .625 | 1.5 | 2.25 | 1 | 2.18 | A | 35A45SS | 0.594 | 1.26 |
| 60 | 35B60SS | 7.380 | B | .75 | 1.5 | 2.25 | 1 | 3.00 | A | 35A60SS | 0.719 | 2.10 |

★ Has recessed groove in hub for chain clearance.

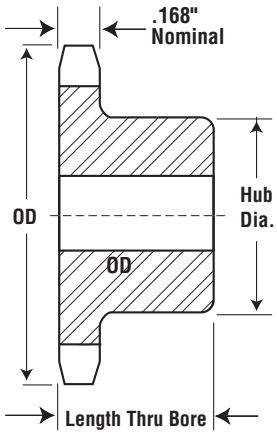
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat. Sprockets altered at factory (rebored with keyway and setscrew added) will be supplied with stainless setscrew.

# All Steel Stock Sprockets

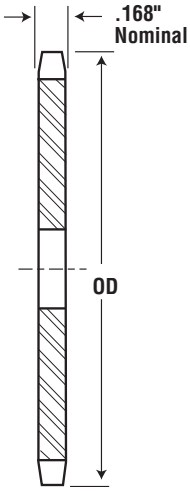
# No. 35 3/8" Pitch

**Alteration Charges**

See current discount sheet for alteration charges.



Type B



Type A

## Single - Type B — Stainless

## Single - Type A

| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 8 | 35B8 | 1.130 | B | .375 | .375 | .75 | .75 | .07 | | | | |
| 9 | 35B9 | 1.260 | B | .375 | .375 | .844 | .75 | .09 | | | | |
| 10 | 35B10 | 1.380 | B | .375 | .563 | .969 | .75 | .14 | | | | |
| 11 | 35B11 | 1.500 | B | .375 | .563 | 1.063 | .75 | .17 | | | | |
| 12 | 35B12 | 1.630 | B | .5 | .563 | 1.219 | .75 | .20 | | | | |
| 13 | 35B13 | 1.750 | B | .5 | .688 | 1.25 | .75 | .23 | | | | |
| 14 | 35B14 | 1.870 | B | .5 | .875 | 1.25 | .75 | .25 | | | | |
| 15 | 35B15 | 1.990 | B | .5 | .875 | 1.344 | .75 | .29 | A | 35A15 | .5 | .10 |
| 16 | 35B16 | 2.110 | B | .5 | .938 | 1.469 | .75 | .35 | A | 35A16 | .5 | .12 |
| 17 | 35B17 | 2.230 | B | .5 | 1.063 | 1.594 | .75 | .42 | A | 35A17 | .5 | .12 |
| 18 | 35B18 | 2.350 | B | .5 | 1.188 | 1.719 | .75 | .48 | A | 35A18 | .5 | .14 |
| 19 | 35B19 | 2.470 | B | .5 | 1.25 | 1.844 | .75 | .54 | A | 35A19 | .5 | .16 |
| 20 | 35B20 | 2.590 | B | .5 | 1.313 | 1.938 | .75 | .59 | A | 35A20 | .5 | .20 |
| 21 | 35B21 | 2.710 | B | .5 | 1.375 | 2 | .875 | .80 | A | 35A21 | .5 | .20 |
| 22 | 35B22 | 2.830 | B | .5 | 1.375 | 2 | .875 | .80 | A | 35A22 | .5 | .22 |
| 23 | 35B23 | 2.950 | B | .5 | 1.375 | 2 | .875 | .82 | A | 35A23 | .5 | .24 |
| 24 | 35B24 | 3.070 | B | .5 | 1.375 | 2 | .875 | .88 | A | 35A24 | .5 | .26 |
| 25 | 35B25 | 3.190 | B | .5 | 1.375 | 2 | .875 | .88 | A | 35A25 | .5 | .28 |
| 26 | 35B26 | 3.310 | B | .5 | 1.375 | 2 | .875 | .90 | A | 35A26 | .5 | .28 |
| 27 | 35B27 | 3.430 | B | .5 | 1.375 | 2 | .875 | .94 | A | 35A27 | .5 | .34 |
| 28 | 35B28 | 3.550 | B | .5 | 1.375 | 2 | .875 | .94 | A | 35A28 | .5 | .34 |
| 30 | 35B30 | 3.790 | B | .5 | 1.375 | 2 | .875 | 1.02 | A | 35A30 | .5 | .46 |
| 32 | 35B32 | 4.030 | B | .5 | 1.375 | 2 | .875 | 1.24 | A | 35A32 | .625 | .46 |
| 35 | 35B35 | 4.390 | B | .625 | 1.5 | 2.25 | .875 | 1.50 | A | 35A35 | .625 | .60 |
| 36 | 35B36 | 4.510 | B | .625 | 1.5 | 2.25 | .875 | 1.56 | A | 35A36 | .625 | .62 |
| 40 | 35B40 | 4.990 | B | .625 | 1.5 | 2.25 | 1 | 1.62 | A | 35A40 | .594 | .70 |
| 42 | 35B42 | 5.230 | B | .625 | 1.5 | 2.25 | 1 | 1.68 | A | 35A42 | .594 | .78 |
| 45 | 35B45 | 5.590 | B | .625 | 1.5 | 2.25 | 1 | 1.78 | A | 35A45 | .594 | .88 |
| 48 | 35B48 | 5.950 | B | .625 | 1.5 | 2.25 | 1 | 1.88 | A | 35A48 | .594 | 1.21 |
| 54 | 35B54 | 6.660 | B | .625 | 1.5 | 2.25 | 1 | 2.20 | A | 35A54 | .594 | 1.32 |
| 60 | 35B60 | 7.380 | B | .75 | 1.5 | 2.25 | 1 | 2.48 | A | 35A60 | .719 | 1.66 |
| 70 | 35B70 | 8.580 | B | .75 | 1.5 | 2.25 | 1 | 3.12 | A | 35A70 | .719 | 2.30 |
| 72 | 35B72 | 8.810 | B | .75 | 1.5 | 2.25 | 1 | 3.42 | A | 35A72 | .719 | 2.56 |
| 80 | 35B80 | 9.770 | B | .75 | 1.5 | 2.25 | 1 | 3.82 | A | 35A80 | .719 | 3.16 |
| 84 | 35B84 | 10.250 | B | .75 | 1.5 | 2.25 | 1 | 4.24 | A | 35A84 | .719 | 3.26 |
| 96 | 35B96 | 11.680 | B | .75 | 1.5 | 2.25 | 1 | 5.16 | A | 35A96 | .719 | 4.64 |
| 112 | 35B112 | 13.590 | B | .75 | 1.5 | 2.25 | 1 | 6.70 | A | 35A112 | .719 | 5.05 |

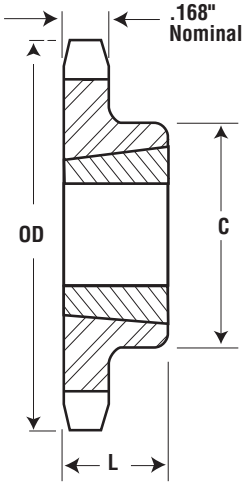
★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# No. 35
## 3/8" Pitch

# All Steel Stock Sprockets

## Single - Taper Bushed




Type B

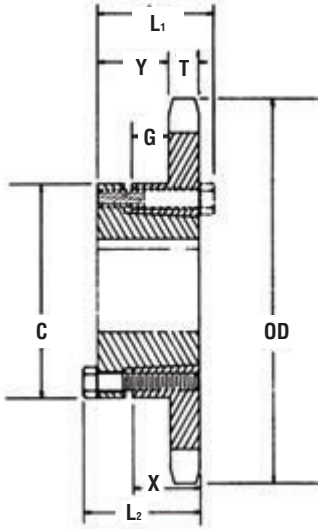
## Single - Taper Bushed

| No. Teeth | Catalog Number | Bushing | Diameter | | Max. Bore | Dimensions | | Type | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | L | C | | Rim Only | Bushing Only |
| 18 | 35BTB18 | 1008 | 2.352 | 2.159 | 1 | .875 | 1.875 ★ | B | 0.4 | 0.3 |
| 19 | 35BTB19 | 1008 | 2.472 | 2.278 | 1 | .875 | 1.813 | B | 0.5 | 0.3 |
| 20 | 35BTB20 | 1008 | 2.593 | 2.397 | 1 | .875 | 1.938 | B | 0.6 | 0.3 |
| 21 | 35BTB21 | 1008 | 2.713 | 2.516 | 1 | .875 | 2.063 | B | 0.7 | 0.3 |
| 22 | 35BTB22 | 1210 | 2.883 | 2.635 | 1.25 | 1 | 2.375 ★ | B | 0.8 | 0.6 |
| 23 | 35BTB23 | 1210 | 2.954 | 2.754 | 1.25 | 1 | 2.438 | B | 0.9 | 0.6 |
| 24 | 35BTB24 | 1210 | 3.074 | 2.873 | 1.25 | 1 | 2.438 | B | 0.9 | 0.6 |
| 25 | 35BTB25 | 1210 | 3.194 | 2.992 | 1.25 | 1 | 2.438 | B | 1.2 | 0.6 |
| 26 | 35BTB26 | 1610 | 3.314 | 3.111 | 1.625 | 1 | 2.875 ★ | B | 1.1 | 0.9 |
| 28 | 35BTB28 | 1610 | 3.553 | 3.349 | 1.625 | 1 | 2.875 | B | 1.2 | 0.9 |
| 30 | 35BTB30 | 1610 | 3.793 | 3.588 | 1.625 | 1 | 3.125 | B | 1.2 | 0.9 |
| 32 | 35BTB32 | 1610 | 4.032 | 3.826 | 1.625 | 1 | 3.25 | B | 1.3 | 0.9 |
| 35 | 35BTB35 | 1610 | 4.392 | 4.183 | 1.625 | 1 | 3.25 | B | 1.4 | 0.9 |
| 36 | 35BTB36 | 1610 | 4.511 | 4.303 | 1.625 | 1 | 3.25 | B | 1.4 | 0.9 |
| 40 | 35BTB40 | 1610 | 4.990 | 4.786 | 1.625 | 1 | 3.25 | B | 1.9 | 0.9 |
| 42 | 35BTB42 | 1610 | 5.229 | 5.018 | 1.625 | 1 | 3.25 | B | 2.0 | 0.9 |
| 45 | 35BTB45 | 1610 | 5.588 | 5.376 | 1.625 | 1 | 3.25 | B | 2.1 | 0.9 |
| 48 | 35BTB48 | 1610 | 5.946 | 5.734 | 1.625 | 1 | 3.25 | B | 2.3 | 0.9 |
| 54 | 35BTB54 | 1610 | 6.663 | 6.449 | 1.625 | 1 | 3.25 | B | 2.6 | 0.9 |
| 60 | 35BTB60 | 1610 | 7.380 | 7.165 | 1.625 | 1 | 3.25 | B | 3.0 | 0.9 |
| 70 | 35BTB70 | 1610 | 8.575 | 8.358 | 1.625 | 1 | 3.25 | B | 3.7 | 0.9 |
| 72 | 35BTB72 | 1610 | 8.814 | 8.597 | 1.625 | 1 | 3.25 | B | 3.9 | 0.9 |
| 80 | 35BTB80 | 1610 | 9.770 | 9.552 | 1.625 | 1 | 3.25 | B | 4.5 | 0.9 |
| 84 | 35BTB84 | 1610 | 10.247 | 10.029 | 1.625 | 1 | 3.25 | B | 4.9 | 0.9 |
| 96 | 35BTB96 | 1610 | 11.680 | 11.461 | 1.625 | 1 | 3.25 | B | 6.0 | 0.9 |
| 112 | 35BTB112 | 1610 | 13.590 | 13.371 | 1.625 | 1 | 3.25 | B | 7.8 | 0.9 |

★ Has recessed groove in hub for chain clearance.

# All Steel Stock Sprockets

# No. 35 3/8" Pitch



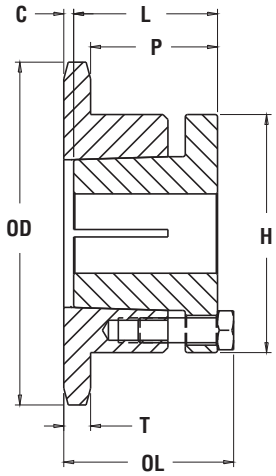

QD — Type B

## Single - Type QD

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | G | X | T | With Hub | Rim Only |
| 19 | 35JA19 | JA | 2.470 | 2.278 | B | 1.25 | 1.125 | 1.125 | 2.063 | .828 | .453 | .625 | 0.168 | 1.18 | 0.28 |
| 20 | 35JA20 | JA | 2.590 | 2.397 | B | 1.25 | 1.125 | 1.125 | 2.063 | .828 | .453 | .625 | 0.168 | 1.22 | 0.32 |
| 21 | 35JA21 | JA | 2.710 | 2.516 | B | 1.25 | 1.125 | 1.125 | 2.063 | .828 | .453 | .625 | 0.168 | 1.24 | 0.34 |
| 22 | 35JA22 | JA | 2.830 | 2.635 | B | 1.25 | 1.125 | 1.125 | 2.063 | .828 | .453 | .625 | 0.168 | 1.26 | 0.36 |
| 23 | 35JA23 | JA | 2.950 | 2.754 | B | 1.25 | 1.125 | 1.125 | 2.063 | .828 | .453 | .625 | 0.168 | 1.28 | 0.38 |
| 24 | 35JA24 | JA | 3.070 | 3.873 | B | 1.25 | 1.125 | 1.125 | 2.063 | .828 | .453 | .625 | 0.168 | 1.30 | 0.40 |
| 25 | 35JA25 | JA | 3.190 | 2.992 | B | 1.25 | 1.125 | 1.125 | 2.063 | .828 | .453 | .625 | 0.168 | 1.34 | 0.44 |
| 26 | 35JA26 | JA | 3.310 | 3.111 | B | 1.25 | 1.125 | 1.125 | 2.063 | .828 | .453 | .625 | 0.168 | 1.36 | 0.46 |
| 27 | 35JA27 | JA | 3.430 | 3.230 | B | 1.25 | 1.125 | 1.125 | 2.063 | .828 | .453 | .625 | 0.168 | 1.38 | 0.48 |
| 28 | 35JA28 | JA | 3.550 | 3.349 | B | 1.25 | 1.125 | 1.125 | 2.063 | .828 | .453 | .625 | 0.168 | 1.42 | 0.52 |
| 30 | 35JA30 | JA | 3.790 | 3.588 | B | 1.25 | 1.125 | 1.125 | 2.063 | .828 | .453 | .625 | 0.168 | 1.46 | 0.56 |
| 32 | 35JA32 | JA | 4.030 | 3.826 | B | 1.25 | 1.125 | 1.125 | 2.063 | .828 | .453 | .625 | 0.168 | 1.68 | 0.78 |
| 35 | 35JA35 | JA | 4.390 | 4.183 | B | 1.25 | 1.125 | 1.125 | 2.063 | .828 | .453 | .625 | 0.168 | 1.94 | 1.04 |
| 36 | 35SH36 | SH | 4.510 | 4.303 | B | 1.625 | 1.438 | 1.438 | 2.688 | .234 | .641 | .813 | 0.168 | 2.06 | 1.06 |
| 40 | 35SH40 | SH | 4.990 | 4.780 | B | 1.625 | 1.438 | 1.438 | 2.688 | .234 | .641 | .813 | 0.168 | 2.18 | 1.18 |
| 42 | 35SH42 | SH | 5.230 | 5.018 | B | 1.625 | 1.438 | 1.438 | 2.688 | .234 | .641 | .813 | 0.168 | 2.26 | 1.26 |
| 45 | 35SH45 | SH | 5.590 | 5.376 | B | 1.625 | 1.438 | 1.438 | 2.688 | .234 | .641 | .813 | 0.168 | 2.40 | 1.40 |
| 48 | 35SH48 | SH | 5.950 | 5.734 | B | 1.625 | 1.438 | 1.438 | 2.688 | .234 | .641 | .813 | 0.168 | 2.58 | 1.58 |
| 54 | 35SH54 | SH | 6.660 | 6.449 | B | 1.625 | 1.438 | 1.438 | 2.688 | .234 | .641 | .813 | 0.168 | 2.88 | 1.88 |
| 60 | 35SH60 | SH | 7.380 | 7.165 | B | 1.625 | 1.438 | 1.438 | 2.688 | .234 | .641 | .813 | 0.168 | 3.28 | 2.28 |
| 70 | 35SH70 | SH | 8.580 | 8.358 | B | 1.625 | 1.438 | 1.438 | 2.688 | .234 | .641 | .813 | 0.168 | 3.94 | 2.94 |
| 72 | 35SH72 | SH | 8.810 | 8.597 | B | 1.625 | 1.438 | 1.438 | 2.688 | .234 | .641 | .813 | 0.168 | 4.14 | 3.14 |
| 80 | 35SH80 | SH | 9.770 | 9.552 | B | 1.625 | 1.438 | 1.438 | 2.688 | .234 | .641 | .813 | 0.168 | 4.68 | 3.68 |
| 84 | 35SH84 | SH | 10.250 | 10.029 | B | 1.625 | 1.438 | 1.438 | 2.688 | .234 | .641 | .813 | 0.168 | 4.86 | 3.96 |
| 96 | 35SH96 | SH | 11.680 | 11.461 | B | 1.625 | 1.438 | 1.438 | 2.688 | .234 | .641 | .813 | 0.168 | 6.38 | 5.38 |
| 112 | 35SH112 | SH | 13.590 | 13.371 | B | 1.625 | 1.438 | 1.438 | 2.688 | .234 | .641 | .813 | 0.168 | 7.60 | 6.60 |

# No. 35
## 3/8" Pitch

# MST® Sprockets



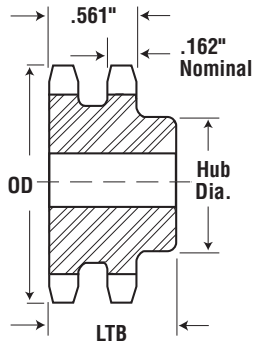

Type 3

## Single - MST® Sprockets

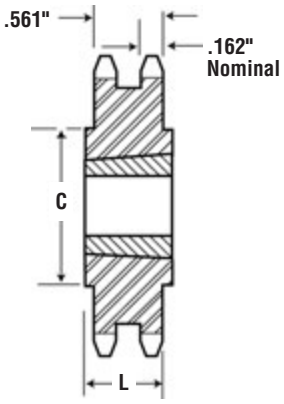
| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 19 | 35H19 | H | 2.470 | 2.278 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 1.3 | 0.5 |
| 20 | 35H20 | H | 2.590 | 2.397 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 1.3 | 0.5 |
| 21 | 35H21 | H | 2.710 | 2.516 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 1.4 | 0.6 |
| 22 | 35H22 | H | 2.830 | 2.635 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 1.5 | 0.7 |
| 23 | 35H23 | H | 2.950 | 2.754 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 1.5 | 0.7 |
| 24 | 35H24 | H | 3.070 | 2.873 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 1.6 | 0.8 |
| 25 | 35H25 | H | 3.190 | 2.992 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 1.6 | 0.8 |
| 26 | 35H26 | H | 3.310 | 3.111 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 1.6 | 0.8 |
| 28 | 35H28 | H | 3.550 | 3.349 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 1.7 | 0.9 |
| 30 | 35H30 | H | 3.790 | 3.588 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 1.7 | 0.9 |
| 32 | 35H32 | H | 4.030 | 3.826 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 1.7 | 0.9 |
| 35 | 35H35 | H | 4.390 | 4.183 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 1.8 | 1.0 |
| 36 | 35H36 | H | 4.510 | 4.303 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 1.8 | 1.0 |
| 40 | 35H40 | H | 4.990 | 4.780 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 2.0 | 1.2 |
| 42 | 35H42 | H | 5.230 | 5.018 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 2.0 | 1.2 |
| 45 | 35H45 | H | 5.590 | 5.376 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 2.2 | 1.4 |
| 48 | 35H48 | H | 5.950 | 5.734 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 2.3 | 1.5 |
| 54 | 35H54 | H | 6.660 | 6.449 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 2.6 | 1.8 |
| 60 | 35H60 | H | 7.380 | 7.165 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 3.1 | 2.3 |
| 70 | 35H70 | H | 8.580 | 8.358 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 3.6 | 2.8 |
| 72 | 35H72 | H | 8.810 | 8.597 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 3.8 | 3.0 |
| 80 | 35H80 | H | 9.770 | 9.552 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 4.6 | 3.8 |
| 84 | 35H84 | H | 10.250 | 10.029 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 4.8 | 4.0 |
| 96 | 35H96 | H | 11.680 | 11.461 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 6.1 | 5.3 |
| 112 | 35H112 | H | 13.590 | 13.371 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.156 | 0.168 | 7.6 | 6.8 |

# All Steel Stock Sprockets

# No. 35-2
## 3/8" Pitch




TYPE B




TAPER BUSHED
TYPE B

## Double - Type B

| No. Teeth | Catalog Number | OD | Type | Bore (inches) | | Hub (inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | Length Thru | |
| 12 | D35B12H | 1.630 | B | .5 | .563 | .984 | 1.25 | 0.32 |
| 13 | D35B13H | 1.750 | B | .5 | .688 | 1.109 | 1.25 | 0.36 |
| 14 | D35B14H | 1.870 | B | .5 | .875 | 1.25 | 1.25 | 0.44 |
| 15 | D35B15H | 1.990 | B | .5 | .938 | 1.406 | 1.25 | 0.56 |
| 16 | D35B16H | 2.110 | B | .5 | .938 | 1.469 | 1.25 | 0.64 |
| 17 | D35B17H | 2.230 | B | .5 | 1.063 | 1.594 | 1.25 | 0.74 |
| 18 | D35B18H | 2.350 | B | .5 | 1.188 | 1.719 | 1.25 | 0.84 |
| 19 | D35B19H | 2.470 | B | .5 | 1.313 | 1.875 | 1.25 | 0.96 |
| 20 | D35B20H | 2.590 | B | .75 | 1.313 | 1.938 | 1.375 | 1.08 |
| 21 | D35B21H | 2.710 | B | .75 | 1.375 | 2.063 | 1.375 | 1.24 |
| 22 | D35B22H | 2.830 | B | .75 | 1.438 | 2.188 | 1.375 | 1.42 |
| 23 | D35B23H | 2.950 | B | .75 | 1.5 | 2.25 | 1.375 | 1.54 |
| 24 | D35B24H | 3.070 | B | .75 | 1.5 | 2.25 | 1.375 | 1.62 |
| 25 | D35B25H | 3.190 | B | .75 | 1.5 | 2.25 | 1.375 | 1.66 |
| 26 | D35B26 | 3.310 | B | .75 | 1.75 | 2.5 | 1.375 | 1.98 |
| 30 | D35B30 | 3.790 | B | .75 | 1.75 | 2.5 | 1.375 | 2.34 |
| 36 | D35B36 | 4.510 | B | .75 | 1.75 | 2.5 | 1.375 | 3.00 |
| 42 | D35B42 | 5.230 | B | .75 | 1.75 | 2.5 | 1.375 | 3.80 |
| 48 | D35B48 | 5.950 | B | .75 | 1.75 | 2.5 | 1.375 | 4.66 |
| 52 | D35B52 | 6.430 | B | .75 | 1.75 | 2.5 | 1.375 | 5.40 |
| 60 | D35B60 | 7.380 | B | .75 | 1.75 | 2.5 | 1.375 | 6.84 |
| 68 | D35B68 | 8.340 | B | .75 | 2.375 | 3.5 | 1.5 | 10.01 |
| 72 | D35B72 | 8.810 | B | .75 | 2.375 | 3.5 | 1.5 | 11.04 |
| 76 | D35B76 | 9.290 | B | .75 | 2.375 | 3.5 | 1.5 | 11.94 |
| 84 | D35B84 | 10.250 | B | .75 | 2.375 | 3.5 | 1.5 | 14.98 |
| 95 | D35B95 | 11.560 | B | 1 | 2.375 | 3.5 | 1.5 | 17.42 |
| 96 | D35B96 | 11.680 | B | 1 | 2.375 | 3.5 | 1.5 | 18.14 |
| 102 | D35B102 | 12.400 | B | 1 | 2.375 | 3.5 | 1.5 | 19.92 |

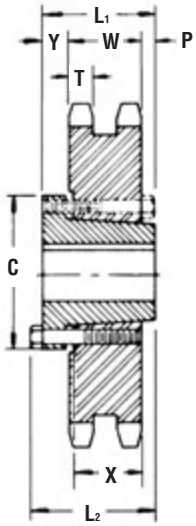
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Sprockets with "H" suffix have hardened teeth.

## Double - Taper Bushed

| No. Teeth | Catalog Number | Bushing | Diameter | | Max. Bore | Dimensions | | Type | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | L | C | | Rim Only | Bushing Only |
| 19 | D35BTB19H | 1008 | 2.472 | 2.278 | 1 | .875 | 1.828 | B | 0.6 | 0.3 |
| 20 | D35BTB20H | 1008 | 2.593 | 2.397 | 1 | .875 | 1.938 | B | 0.8 | 0.3 |
| 21 | D35BTB21H | 1008 | 2.713 | 2.516 | 1 | .875 | 2.063 | B | 1.4 | 0.3 |
| 22 | D35BTB22H | 1008 | 2.833 | 2.635 | 1 | .875 | 2.188 | B | 1.7 | 0.3 |
| 24 | D35BTB24H | 1210 | 3.074 | 2.873 | 1.25 | 1 | 2.438 | B | 1.8 | 0.6 |
| 26 | D35BTB26 | 1210 | 3.314 | 3.111 | 1.25 | 1 | 2.625 | B | 2.0 | 0.6 |
| 30 | D35BTB30 | 1610 | 3.793 | 3.588 | 1.625 | 1 | 3.125 | B | 1.8 | 0.9 |
| 32 | D35BTB32 | 1610 | 4.032 | 3.826 | 1.625 | 1 | 3.25 | B | 2.0 | 0.9 |
| 35 | D35BTB35 | 1610 | 4.392 | 4.183 | 1.625 | 1 | 3.25 | B | 2.3 | 0.9 |
| 40 | D35BTB40 | 1610 | 4.990 | 4.780 | 1.625 | 1 | 3.25 | B | 2.9 | 0.9 |
| 45 | D35BTB45 | 1610 | 5.588 | 5.376 | 1.625 | 1 | 3.25 | B | 3.2 | 0.9 |
| 48 | D35BTB48 | 1610 | 5.946 | 5.734 | 1.625 | 1 | 3.625 | B | 3.5 | 0.9 |
| 54 | D35BTB54 | 1610 | 6.663 | 6.449 | 1.625 | 1 | 3.625 | B | 3.9 | 0.9 |
| 60 | D35BTB60 | 1610 | 7.380 | 7.165 | 1.625 | 1 | 3.625 | B | 4.9 | 0.9 |
| 70 | D35BTB70 | 1610 | 8.575 | 8.358 | 1.625 | 1 | 3.625 | B | 6.3 | 0.9 |
| 80 | D35BTB80 | 1610 | 9.770 | 9.552 | 1.625 | 1 | 3.625 | B | 7.9 | 0.9 |
| 96 | D35BTB96 | 1610 | 11.680 | 11.461 | 1.625 | 1 | 3.625 | B | 9.9 | 0.9 |
| 112 | D35BTB112 | 1610 | 13.590 | 13.371 | 1.625 | 1 | 3.625 | B | 10.9 | 0.9 |

Sprockets with "H" suffix have hardened teeth.




QD – TYPE C

## Double - Type QD

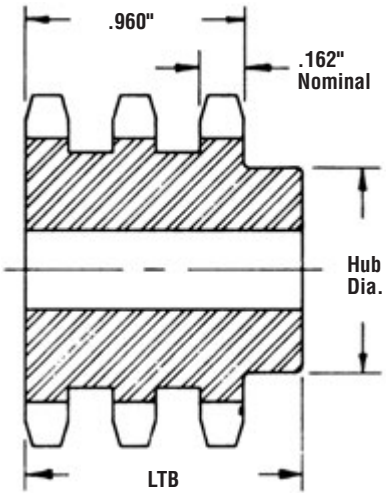
| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | X | T | W | With Hub | Rim Only |
| 68 | D35SDS68 | SDS | 8.340 | 8.120 | C | 2 | 1.5 | 1.5 | 3.188 | .563 | .188 | .75 | 0.162 | 0.561 | 8.40 | 7.40 |
| 72 | D35SDS72 | SDS | 8.810 | 8.597 | C | 2 | 1.5 | 1.5 | 3.188 | .563 | .188 | .75 | 0.162 | 0.561 | 9.28 | 8.28 |
| 76 | D35SDS76 | SDS | 9.290 | 9.074 | C | 2 | 1.5 | 1.5 | 3.188 | .563 | .188 | .75 | 0.162 | 0.561 | 10.32 | 9.32 |
| 84 | D35SK84 | SK | 10.250 | 10.029 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .688 | 1.25 | 0.162 | 0.561 | 13.94 | 11.94 |
| 95 | D35SK95 | SK | 11.560 | 11.342 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .688 | 1.25 | 0.162 | 0.561 | 17.22 | 15.22 |
| 96 | D35SK96 | SK | 11.680 | 11.461 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .688 | 1.25 | 0.162 | 0.561 | 17.74 | 15.74 |
| 102 | D35SK102 | SK | 12.400 | 12.177 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .688 | 1.25 | 0.162 | 0.561 | 19.76 | 17.76 |

# No. 35-3
## 3/8" Pitch

# All Steel Stock Sprockets

## Triple - Type B

| No. Teeth | Catalog Number | OD | Type | Bore (inches) | | Hub (inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | Length Thru | |
| 13 | E35B13H | 1.750 | B | .5 | .688 | .266 | 1.75 | 0.50 |
| 14 | E35B14H | 1.870 | B | .5 | .875 | 1.25 | 1.75 | 0.62 |
| 15 | E35B15H | 1.990 | B | .5 | .938 | 1.406 | 1.75 | 0.78 |
| 16 | E35B16H | 2.110 | B | .5 | .938 | 1.469 | 1.75 | 0.82 |
| 17 | E35B17H | 2.230 | B | .5 | 1.063 | 1.594 | 1.75 | 1.04 |
| 18 | E35B18H | 2.350 | B | .5 | 1.188 | 1.719 | 1.75 | 1.22 |
| 19 | E35B19H | 2.470 | B | .5 | 1.313 | 1.875 | 1.75 | 1.40 |
| 20 | E35B20H | 2.590 | B | .75 | 1.313 | 1.938 | 1.875 | 1.50 |
| 21 | E35B21H | 2.710 | B | .75 | 1.375 | 2.063 | 1.875 | 1.72 |
| 22 | E35B22H | 2.830 | B | .75 | 1.438 | 2.188 | 1.875 | 1.96 |
| 23 | E35B23H | 2.950 | B | .75 | 1.5 | 2.25 | 1.875 | 2.12 |
| 24 | E35B24H | 3.070 | B | .75 | 1.5 | 2.25 | 1.875 | 2.26 |
| 25 | E35B25H | 3.190 | B | .75 | 1.5 | 2.25 | 1.875 | 2.42 |
| 26 | E35B26 | 3.310 | B | .75 | 1.5 | 2.5 | 1.875 | 2.78 |
| 30 | E35B30 | 3.790 | B | .75 | 1.75 | 2.5 | 1.875 | 3.42 |
| 36 | E35B36 | 4.510 | B | .75 | 1.75 | 2.5 | 1.875 | 4.52 |
| 42 | E35B42 | 5.230 | B | .75 | 1.75 | 2.5 | 1.875 | 5.88 |
| 48 | E35B48 | 5.950 | B | .75 | 1.75 | 2.5 | 1.875 | 7.42 |
| 52 | E35B52 | 6.430 | B | .75 | 1.75 | 2.5 | 1.875 | 8.52 |
| 60 | E35B60 | 7.380 | B | .75 | 1.75 | 2.5 | 1.875 | 11.22 |
| 68 | E35B68 | 8.340 | B | .75 | 2.375 | 3.5 | 1.875 | 15.38 |
| 72 | E35B72 | 8.810 | B | .75 | 2.375 | 3.5 | 1.875 | 17.34 |
| 76 | E35B76 | 9.290 | B | .75 | 2.375 | 3.5 | 1.875 | 18.90 |
| 84 | E35B84 | 10.250 | B | .75 | 2.375 | 3.5 | 1.875 | 22.82 |
| 95 | E35B95 | 11.560 | B | 1 | 2.5 | 3.75 | 2.125 | 29.32 |
| 96 | E35B96 | 11.680 | B | 1 | 2.5 | 3.75 | 2.125 | 30.06 |
| 102 | E35B102 | 12.400 | B | 1 | 2.5 | 3.75 | 2.125 | 33.36 |



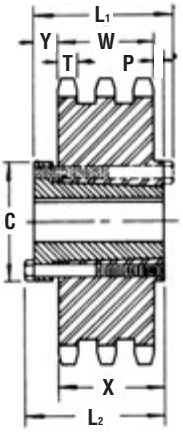

TYPE B

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat.

Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

NOTE: Triple 35 stock sprockets with 25 teeth or less have hardened teeth.

Sprockets with "H" suffix have hardened teeth.




QD — Type C

**Alteration Charges**

See current discount sheet for alteration charges.

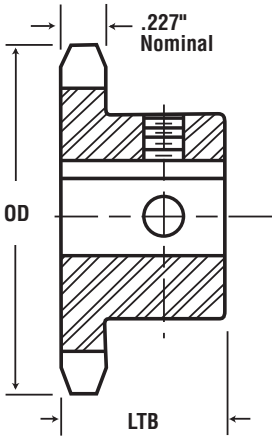
## Triple - Type QD

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | X | T | W | With Hub | Rim Only |
| 68 | E35SK68 | SK | 8.340 | 8.120 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .297 | 1.25 | 0.162 | 0.960 | 13.90 | 11.90 |
| 72 | E35SK72 | SK | 8.810 | 8.597 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .297 | 1.25 | 0.162 | 0.960 | 15.56 | 13.56 |
| 76 | E35SK76 | SK | 9.290 | 9.074 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .297 | 1.25 | 0.162 | 0.960 | 17.42 | 15.42 |
| 84 | E35SK84 | SK | 10.250 | 10.029 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .297 | 1.25 | 0.162 | 0.960 | 20.92 | 18.92 |
| 95 | E35SK95 | SK | 11.560 | 11.342 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .297 | 1.25 | 0.162 | 0.960 | 26.76 | 24.76 |
| 96 | E35SK96 | SK | 11.680 | 11.461 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .297 | 1.25 | 0.162 | 0.960 | 27.58 | 25.58 |
| 102 | E35SK102 | SK | 12.400 | 12.177 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .297 | 1.25 | 0.162 | 0.960 | 31.18 | 29.18 |

# All Steel Stock Sprockets

# No. 41 ½" Pitch

Bored-To-Size




TYPE BS

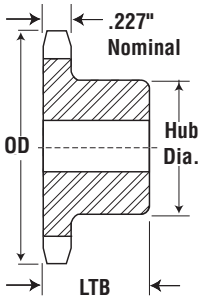
## No. 35 - Hardened Teeth — 2 Setscrews — Bored-To-Size

| No. Teeth | Catalog Number | OD | LTB | Wt. lb (Approx.) | Stock Finished Bores Includes Keyway and 2 Setscrews | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 35BS9HT | 1.260 | .75 | 0.10 | ★.375 | | | | | | | | | | |
| 10 | 35BS10HT | 1.380 | .75 | 0.11 | ★.375 | — | ★ .5 | — | † .625 | | | | | | |
| 11 | 35BS11HT | 1.500 | .75 | 0.15 | ★.375 | — | ★ .5 | — | † .625 | — | † .75 | | | | |
| 12 | 35BS12HT | 1.630 | .75 | 0.18 | | — | ★ .5 | — | .625 | — | † .75 | | | | |
| 13 | 35BS13HT | 1.750 | .75 | 0.20 | | — | ★ .5 | — | .625 | — | .75 | | | | |
| 14 | 35BS14HT | 1.870 | .75 | 0.22 | | — | ★ .5 | — | .625 | — | .75 | | | | |
| 15 | 35BS15HT | 1.990 | .75 | 0.24 | | — | ★ .5 | — | .625 | — | .75 | — | .875 | — | 1 |
| 16 | 35BS16HT | 2.110 | .75 | 0.29 | | — | ★ .5 | — | .625 | — | .75 | — | .875 | — | 1 |
| 17 | 35BS17HT | 2.230 | .75 | 0.36 | | — | ★ .5 | — | .625 | — | .75 | — | .875 | — | 1 |
| 18 | 35BS18HT | 2.350 | .75 | 0.39 | | — | ★ .5 | — | .625 | — | .75 | — | .875 | — | 1 |
| 19 | 35BS19HT | 2.470 | .75 | 0.44 | | | | | .625 | — | .75 | — | | — | 1 |
| 20 | 35BS20HT | 2.590 | .75 | 0.51 | | | | | .625 | — | .75 | — | | — | 1 |
| 21 | 35BS21HT | 2.710 | .875 | 0.75 | | | | | .625 | — | .75 | — | | — | 1 |
| 22 | 35BS22HT | 2.830 | .875 | 0.76 | | | | | .625 | — | .75 | — | | — | 1 |
| 23 | 35BS23HT | 2.950 | .875 | 0.78 | | | | | .625 | — | .75 | — | | — | 1 |
| 24 | 35BS24HT | 3.070 | .875 | 0.79 | | | | | .625 | | .75 | — | | — | 1 |
| 25 | 35BS25HT | 3.190 | .875 | 0.80 | | | | | .625 | — | .75 | — | | — | 1 |
| 26 | 35BS26HT | 3.310 | .875 | 0.84 | | | | | .625 | — | .75 | — | | — | 1 |
| 28 | 35BS28HT | 3.550 | .875 | 0.88 | | | | | .625 | — | .75 | — | | — | 1 |
| 30 | 35BS30HT | 3.790 | .875 | 0.96 | | | | | .625 | — | .75 | — | | — | 1 |

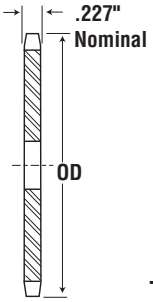
★ Indicates no keyway. (2) .25" setscrews only in .5" & .375" bore at 90°.
† Keyway with Setscrew at 90° & 180°.
Hub diameters vary to suit different bore sizes.
NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

# No. 41
## ½" Pitch

# All Steel & Stainless Steel Stock Sprockets



Type B



Type A

## Single - Type B / Single - Type A

| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 6 | 41B6 | 1.170 | B | .375 | .375 | .656 ★ | .875 | 0.07 | | | | |
| 7 | 41B7 | 1.340 | B | .375 | .375 | .75 ★ | .875 | 0.10 | | | | |
| 8 | 41B8 | 1.510 | B | .5 | .5 | .984 ★ | .875 | 0.19 | | | | |
| 9 | 41B9 | 1.670 | B | .5 | .625 | 1.125 ★ | .875 | 0.20 | | | | |
| 10 | 41B10 | 1.840 | B | .5 | .75 | 1.25 ★ | .875 | 0.27 | | | | |
| 11 | 41B11 | 2.000 | B | .5 | .875 | 1.438 ★ | .875 | 0.35 | | | | |
| 12 | 41B12 | 2.170 | B | .5 | .938 | 1.563 ★ | .875 | 0.44 | | | | |
| 13 | 41B13 | 2.330 | B | .5 | 1 | 1.563 | .875 | 0.50 | | | | |
| 14 | 41B14 | 2.490 | B | .5 | 1.25 | 1.75 | .875 | 0.57 | | | | |
| 15 | 41B15 | 2.650 | B | .5 | 1.313 | 1.906 | .875 | 0.72 | A | 41A15 | .625 | 0.28 |
| 16 | 41B16 | 2.810 | B | .625 | 1.375 | 2.063 | .875 | 0.91 | A | 41A16 | .625 | 0.34 |
| 17 | 41B17 | 2.970 | B | .625 | 1.5 | 2.234 | 1 | 1.09 | A | 41A17 | .625 | 0.36 |
| 18 | 41B18 | 3.140 | B | .625 | 1.625 | 2.375 | 1 | 1.25 | A | 41A18 | .625 | 0.44 |
| 19 | 41B19 | 3.300 | B | .625 | 1.75 | 2.469 | 1 | 1.49 | A | 41A19 | .625 | 0.46 |
| 20 | 41B20 | 3.460 | B | .625 | 1.875 | 2.75 | 1 | 1.64 | A | 41A20 | .625 | 0.52 |
| 21 | 41B21 | 3.620 | B | .625 | 1.875 | 2.875 | 1 | 1.81 | A | 41A21 | .625 | 0.60 |
| 22 | 41B22 | 3.780 | B | .625 | 2 | 3 | 1 | 1.93 | A | 41A22 | .625 | 0.66 |
| 23 | 41B23 | 3.940 | B | .625 | 2.25 | 3.188 | 1 | 2.25 | A | 41A23 | .625 | 0.72 |
| 24 | 41B24 | 4.100 | B | .625 | 2.25 | 3.25 | 1 | 2.33 | A | 41A24 | .625 | 0.82 |
| 25 | 41B25 | 4.260 | B | .625 | 2.25 | 3.25 | 1 | 2.46 | A | 41A25 | .625 | 0.88 |
| 26 | 41B26 | 4.420 | B | .625 | 2.25 | 3.25 | 1 | 2.50 | A | 41A26 | .625 | 0.94 |
| 27 | 41B27 | 4.580 | B | .625 | 2.25 | 3.25 | 1 | 2.56 | A | 41A27 | .625 | 1.00 |
| 28 | 41B28 | 4.740 | B | .625 | 2.25 | 3.25 | 1 | 2.64 | A | 41A28 | .625 | 1.08 |
| 30 | 41B30 | 5.060 | B | .625 | 2.25 | 3.25 | 1 | 2.80 | A | 41A30 | .594 | 1.20 |
| 32 | 41B32 | 5.380 | B | .625 | 2.25 | 3.25 | 1 | 2.96 | A | 41A32 | .594 | 1.44 |
| 35 | 41B35 | 5.860 | B | .625 | 2.375 | 3.25 | 1 | 3.12 | A | 41A35 | .594 | 1.70 |
| 36 | 41B36 | 6.020 | B | .625 | 2.375 | 3.25 | 1 | 3.32 | A | 41A36 | .594 | 1.84 |
| 40 | 41B40 | 6.650 | B | .75 | 2.375 | 3.25 | 1.063 | 4.06 | A | 41A40 | .719 | 2.22 |
| 42 | 41B42 | 6.970 | B | .75 | 2.375 | 3.5 | 1.063 | 4.10 | A | 41A42 | .719 | 2.50 |
| 45 | 41B45 | 7.450 | B | .75 | 2.375 | 3.5 | 1.063 | 4.18 | A | 41A45 | .719 | 2.52 |
| 48 | 41B48 | 7.930 | B | .75 | 2.375 | 3.5 | 1.063 | 4.92 | A | 41A48 | .719 | 2.92 |
| 54 | 41B54 | 8.880 | B | .75 | 2.375 | 3.5 | 1.063 | 5.68 | A | 41A54 | .719 | 3.54 |
| 60 | 41B60 | 9.840 | B | .75 | 2.375 | 3.5 | 1.063 | 6.78 | A | 41A60 | .719 | 4.60 |
| 70 | 41B70 | 11.430 | B | .75 | 2.75 | 4 | 1.188 | 9.54 | A | 41A70 | .719 | 6.22 |
| 72 | 41B72 | 11.750 | B | .75 | 2.75 | 4 | 1.188 | 9.64 | A | 41A72 | .719 | 6.32 |
| 80 | 41B80 | 13.030 | B | .75 | 2.75 | 4 | 1.188 | 11.54 | A | 41A80 | .719 | 8.46 |
| 84 | 41B84 | 13.660 | B | .75 | 2.75 | 4 | 1.188 | 12.20 | A | 41A84 | .719 | 9.12 |
| 96 | 41B96 | 15.570 | B | 1 | 2.75 | 4 | 1.188 | 14.86 | A | 41A96 | .938 | 11.84 |
| 112 | 41B112 | 18.120 | B | 1 | 2.75 | 4 | 1.188 | 19.16 | A | 41A112 | .938 | 15.84 |

## Single - Type B — Stainless

| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | |
| 9 | 41B9SS | 1.670 | B | .5 | .625 | 1.125 ★ | .875 | 0.20 |
| 10 | 41B10SS | 1.840 | B | .5 | .75 | 1.25 ★ | .875 | 0.27 |
| 11 | 41B11SS | 2.000 | B | .5 | .875 | 1.438 ★ | .875 | 0.35 |
| 12 | 41B12SS | 2.170 | B | .5 | .938 | 1.563 ★ | .875 | 0.44 |
| 13 | 41B13SS | 2.330 | B | .5 | 1 | 1.563 | .875 | 0.50 |
| 14 | 41B14SS | 2.490 | B | .5 | 1.25 | 1.75 | .875 | 0.57 |
| 15 | 41B15SS | 2.650 | B | .5 | 1.313 | 1.906 | .875 | 0.72 |
| 16 | 41B16SS | 2.810 | B | .625 | 1.375 | 2.063 | .875 | 0.91 |
| 17 | 41B17SS | 2.970 | B | .625 | 1.5 | 2.234 | 1 | 1.09 |
| 18 | 41B18SS | 3.140 | B | .625 | 1.625 | 2.375 | 1 | 1.25 |
| 19 | 41B19SS | 3.300 | B | .625 | 1.75 | 2.469 | 1 | 1.49 |
| 20 | 41B20SS | 3.460 | B | .625 | 1.875 | 2.75 | 1 | 1.64 |

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat.

Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

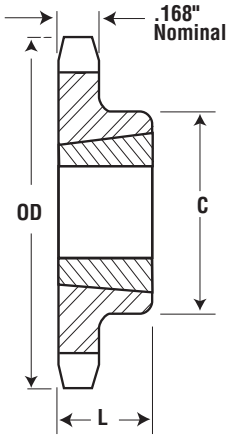
# All Steel Stock Sprockets

# No. 41 ½" Pitch

## Single - Taper Bushed

| No. Teeth | Catalog Number | Bushing | Diameter | | Max. Bore | Dimensions | | Type | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | L | C | | Rim Only | Bushing Only |
| 14 | 41BTB14 | 1008 | 2.490 | 2.247 | 1 | .875 | 1.875 ★ | B | 0.4 | 0.3 |
| 15 | 41BTB15 | 1008 | 2.650 | 2.405 | 1 | .875 | 1.875 | B | 0.5 | 0.3 |
| 16 | 41BTB16 | 1008 | 2.810 | 2.503 | 1 | .875 | 2 | B | 0.6 | 0.3 |
| 17 | 41BTB17 | 1210 | 2.970 | 2.721 | 1.25 | 1 | 2.375 ★ | B | 0.7 | 0.6 |
| 18 | 41BTB18 | 1210 | 3.140 | 2.879 | 1.25 | 1 | 2.375 | B | 0.9 | 0.6 |
| 19 | 41BTB19 | 1210 | 3.300 | 3.038 | 1.25 | 1 | 2.5 | B | 1.1 | 0.6 |
| 20 | 41BTB20 | 1610 | 3.460 | 3.196 | 1.625 | 1 | 2.875 ★ | B | 1.1 | 0.9 |
| 21 | 41BTB21 | 1610 | 3.620 | 3.355 | 1.625 | 1 | 3 ★ | B | 1.2 | 0.9 |
| 22 | 41BTB22 | 1610 | 3.780 | 3.513 | 1.625 | 1 | 3 | B | 1.3 | 0.9 |
| 23 | 41BTB23 | 1610 | 3.940 | 3.672 | 1.625 | 1 | 3 | B | 1.4 | 0.9 |
| 24 | 41BTB24 | 1610 | 4.100 | 3.831 | 1.625 | 1 | 3 | B | 1.4 | 0.9 |
| 25 | 41BTB25 | 1610 | 4.260 | 3.989 | 1.625 | 1 | 3 | B | 1.5 | 0.9 |
| 26 | 41BTB26 | 1610 | 4.420 | 4.148 | 1.625 | 1 | 3 | B | 1.5 | 0.9 |
| 28 | 41BTB28 | 1610 | 4.740 | 4.466 | 1.625 | 1 | 3 | B | 1.7 | 0.9 |
| 30 | 41BTB30 | 1610 | 5.060 | 4.783 | 1.625 | 1 | 3 | B | 1.8 | 0.9 |
| 32 | 41BTB32 | 1610 | 5.380 | 5.101 | 1.625 | 1 | 3 | B | 1.9 | 0.9 |
| 35 | 41BTB35 | 1610 | 5.860 | 5.578 | 1.625 | 1 | 3 | B | 2.3 | 0.9 |
| 36 | 41BTB36 | 1610 | 6.020 | 5.737 | 1.625 | 1 | 3 | B | 2.4 | 0.9 |
| 40 | 41BTB40 | 1610 | 6.650 | 6.373 | 1.625 | 1 | 3 | B | 2.7 | 0.9 |
| 45 | 41BTB45 | 1610 | 7.450 | 7.168 | 1.625 | 1 | 3 | B | 3.5 | 0.9 |
| 48 | 41BTB48 | 1610 | 7.930 | 7.645 | 1.625 | 1 | 3 | B | 4.1 | 0.9 |
| 54 | 41BTB54 | 1610 | 8.880 | 8.599 | 1.625 | 1 | 3 | B | 4.9 | 0.9 |
| 60 | 41BTB60 | 1610 | 9.840 | 9.554 | 1.625 | 1 | 3 | B | 5.7 | 0.9 |
| 70 | 41BTB70 | 1610 | 11.430 | 11.145 | 1.625 | 1 | 3 | B | 7.4 | 0.9 |
| 72 | 41BTB72 | 1610 | 11.750 | 11.463 | 1.625 | 1 | 3 | B | 8.2 | 0.9 |
| 80 | 41BTB80 | 1610 | 13.030 | 12.736 | 1.625 | 1 | 3 | B | 9.6 | 0.9 |
| 96 | 41BTB96 | 1610 | 15.570 | 15.282 | 1.625 | 1 | 3 | B | 13.1 | 0.9 |

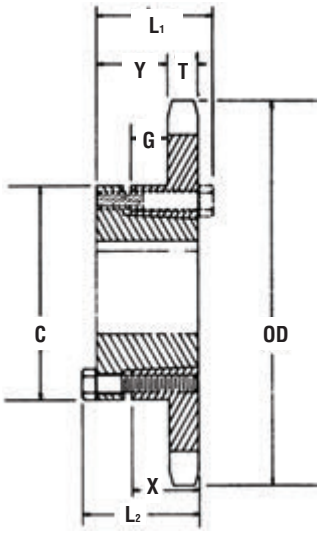
★ Has recessed groove in hub for chain clearance.




Type B

## Single - Type QD

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | G | X | T | With Hub | Rim Only |
| 15 | 41JA15 | JA | 2.650 | 2.405 | B | 1.25 | 1.125 | 1.125 | 2.063 | .765 | .391 | .625 | .227 | 1.22 | 0.32 |
| 16 | 41JA16 | JA | 2.810 | 2.563 | B | 1.25 | 1.125 | 1.125 | 2.063 | .765 | .391 | .625 | .227 | 1.30 | 0.40 |
| 17 | 41JA17 | JA | 2.980 | 2.721 | B | 1.25 | 1.125 | 1.125 | 2.063 | .765 | .391 | .625 | .227 | 1.40 | 0.50 |
| 18 | 41JA18 | JA | 3.140 | 2.879 | B | 1.25 | 1.125 | 1.125 | 2.063 | .765 | .391 | .625 | .227 | 1.50 | 0.60 |
| 19 | 41JA19 | JA | 3.300 | 3.038 | B | 1.25 | 1.125 | 1.125 | 2.063 | .765 | .391 | .625 | .227 | 1.58 | 0.68 |
| 20 | 41SH20 | SH | 3.460 | 3.196 | B | 1.625 | 1.438 | 1.438 | 2.688 | 1.031 | .578 | .813 | .227 | 1.78 | 0.78 |
| 21 | 41SH21 | SH | 3.620 | 3.355 | B | 1.625 | 1.438 | 1.438 | 2.688 | 1.031 | .578 | .813 | .227 | 1.82 | 0.82 |
| 22 | 41SH22 | SH | 3.780 | 3.513 | B | 1.625 | 1.438 | 1.438 | 2.688 | 1.031 | .578 | .813 | .227 | 2.06 | 1.06 |
| 23 | 41SH23 | SH | 3.940 | 3.672 | B | 1.625 | 1.438 | 1.438 | 2.688 | 1.031 | .578 | .813 | .227 | 2.14 | 1.14 |
| 24 | 41SH24 | SH | 4.100 | 3.831 | B | 1.625 | 1.438 | 1.438 | 2.688 | 1.031 | .578 | .813 | .227 | 2.16 | 1.16 |
| 25 | 41SH25 | SH | 4.260 | 3.989 | B | 1.625 | 1.438 | 1.438 | 2.688 | 1.031 | .578 | .813 | .227 | 2.22 | 1.22 |
| 26 | 41SH26 | SH | 4.420 | 4.148 | B | 1.625 | 1.438 | 1.438 | 2.688 | 1.031 | .578 | .813 | .227 | 2.26 | 1.26 |
| 27 | 41SH27 | SH | 4.580 | 4.307 | B | 1.625 | 1.438 | 1.438 | 2.688 | 1.031 | .578 | .813 | .227 | 2.40 | 1.40 |
| 28 | 41SH28 | SH | 4.740 | 4.466 | B | 1.625 | 1.438 | 1.438 | 2.688 | 1.031 | .578 | .813 | .227 | 2.54 | 1.54 |
| 30 | 41SH30 | SH | 5.060 | 4.783 | B | 1.625 | 1.438 | 1.438 | 2.688 | 1.031 | .578 | .813 | .227 | 2.58 | 1.58 |
| 32 | 41SH32 | SH | 5.380 | 5.101 | B | 1.625 | 1.438 | 1.438 | 2.688 | 1.031 | .578 | .813 | .227 | 2.68 | 1.68 |
| 35 | 41SH35 | SH | 5.860 | 5.578 | B | 1.625 | 1.438 | 1.438 | 2.688 | 1.031 | .578 | .813 | .227 | 2.79 | 1.79 |
| 36 | 41SDS36 | SDS | 6.020 | 5.737 | B | 2 | 1.5 | 1.5 | 3.188 | 1.094 | .531 | .75 | .227 | 2.92 | 1.92 |
| 40 | 41SDS40 | SDS | 6.650 | 6.373 | B | 2 | 1.5 | 1.5 | 3.188 | 1.094 | .531 | .75 | .227 | 3.32 | 2.32 |
| 42 | 41SDS42 | SDS | 6.970 | 6.691 | B | 2 | 1.5 | 1.5 | 3.188 | 1.094 | .531 | .75 | .227 | 3.44 | 2.44 |
| 45 | 41SDS45 | SDS | 7.450 | 7.168 | B | 2 | 1.5 | 1.5 | 3.188 | 1.094 | .531 | .75 | .227 | 3.76 | 2.76 |
| 48 | 41SDS48 | SDS | 7.930 | 7.645 | B | 2 | 1.5 | 1.5 | 3.188 | 1.094 | .531 | .75 | .227 | 4.36 | 3.36 |
| 54 | 41SDS54 | SDS | 8.890 | 8.599 | B | 2 | 1.5 | 1.5 | 3.188 | 1.094 | .531 | .75 | .227 | 4.98 | 3.98 |
| 60 | 41SDS60 | SDS | 9.840 | 9.554 | B | 2 | 1.5 | 1.5 | 3.188 | 1.094 | .531 | .75 | .227 | 6.54 | 5.54 |
| 70 | 41SK70 | SK | 11.430 | 11.145 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.641 | 1.031 | 1.25 | .227 | 9.42 | 7.42 |
| 72 | 41SK72 | SK | 11.750 | 11.463 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.641 | 1.031 | 1.25 | .227 | 10.02 | 8.02 |
| 80 | 41SK80 | SK | 13.030 | 12.736 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.641 | 1.031 | 1.25 | .227 | 11.64 | 9.64 |
| 84 | 41SK84 | SK | 13.660 | 13.372 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.641 | 1.031 | 1.25 | .227 | 12.40 | 10.40 |
| 96 | 41SK96 | SK | 15.570 | 15.281 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.641 | 1.031 | 1.25 | .227 | 14.82 | 12.82 |
| 112 | 41SK112 | SK | 18.120 | 17.828 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.641 | 1.031 | 1.25 | .227 | 19.28 | 17.28 |




QD — Type B

# No. 40
## ½" Pitch

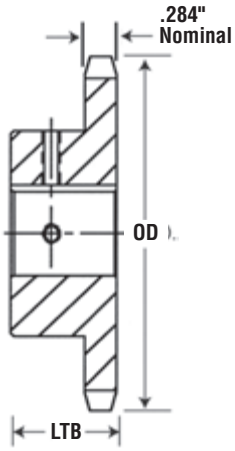
# All Steel Stock Sprockets

## Single - Type BS— 2 Setscrews — Bored-To-Size

| No. Teeth | Catalog Number | OD | LTB | Wt. lb (Approx.) | Stock Finished Bores Includes Keyway and 2 Setscrews | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 40BS9 | 1.67 | .875 | 0.16 | ★.5 | .625 | | | | | | | | | |
| 10 | 40BS10 | 1.84 | .875 | 0.24 | ★.5 | .625 | .75 | | | | | | | | |
| 11 | 40BS11 | 2 | .875 | 0.28 | ★.5 | .625 | .75 | .875 | | | | | | | |
| 12 | 40BS12 | 2.17 | .875 | 0.34 | ★.5 | .625 | .75 | .875 | 1 | | | | | | |
| 13 | 40BS13 | 2.33 | .875 | 0.45 | ★.5 | .625 | .75 | .875 | 1 | | | | | | |
| 14 | 40BS14 | 2.49 | .875 | 0.51 | ★.5 | .625 | .75 | .875 | 1 | 1.125 | | | | | |
| 15 | 40BS15 | 2.65 | .875 | 0.53 | ★.5 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | |
| 16 | 40BS16 | 2.81 | .875 | 0.66 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | |
| 17 | 40BS17 | 2.97 | 1 | 0.88 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | |
| 18 | 40BS18 | 3.14 | 1 | 1.03 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 |
| 19 | 40BS19 | 3.3 | 1 | 1.17 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 |
| 20 | 40BS20 | 3.46 | 1 | 1.33 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 |
| 21 | 40BS21 | 3.62 | 1 | 1.53 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 |
| 22 | 40BS22 | 3.78 | 1 | 1.66 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 |
| 23 | 40BS23 | 3.94 | 1 | 1.92 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 |
| 24 | 40BS24 | 4.1 | 1 | 2.1 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 |
| 25 | 40BS25 | 4.26 | 1 | 2.22 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 26 | 40BS26 | 4.42 | 1 | 2.34 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 27 | 40BS27 | 4.58 | 1 | 2.42 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 28 | 40BS28 | 4.74 | 1 | 2.5 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 29 | 40BS29 | 4.9 | 1 | 2.6 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 30 | 40BS30 | 5.06 | 1 | 2.7 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 31 | 40BS31 | 5.22 | 1 | 2.88 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 32 | 40BS32 | 5.38 | 1 | 3 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 33 | 40BS33 | 5.54 | 1 | 3.03 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 34 | 40BS34 | 5.7 | 1 | 3.11 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 35 | 40BS35 | 5.86 | 1 | 3.2 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 36 | 40BS36 | 6.02 | 1 | 3.39 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 37 | 40BS37 | 6.17 | 1 | 3.45 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 38 | 40BS38 | 6.33 | 1 | 3.5 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 39 | 40BS39 | 6.49 | 1 | 4 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 40 | 40BS40 | 6.65 | 1.125 | 4.28 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 41 | 40BS41 | 6.81 | 1.125 | 4.58 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 42 | 40BS42 | 6.97 | 1.125 | 4.64 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 43 | 40BS43 | 7.13 | 1.125 | 4.8 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 44 | 40BS44 | 7.29 | 1.125 | 4.96 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 45 | 40BS45 | 7.45 | 1.125 | 5.06 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 46 | 40BS46 | 7.61 | 1.125 | 5.19 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 47 | 40BS47 | 7.77 | 1.125 | 5.26 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 48 | 40BS48 | 7.93 | 1.125 | 5.66 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 49 | 40BS49 | 8.09 | 1.125 | 5.72 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 50 | 40BS50 | 8.25 | 1.125 | 5.78 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 51 | 40BS51 | 8.41 | 1.125 | 5.9 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 52 | 40BS52 | 8.57 | 1.125 | 5.94 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 53 | 40BS53 | 8.73 | 1.125 | 6.12 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 54 | 40BS54 | 8.88 | 1.125 | 6.24 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 55 | 40BS55 | 9.04 | 1.125 | 6.66 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 56 | 40BS56 | 9.2 | 1.125 | 6.71 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 57 | 40BS57 | 9.36 | 1.125 | 6.94 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 58 | 40BS58 | 9.52 | 1.125 | 7.17 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 59 | 40BS59 | 9.68 | 1.125 | 7.38 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 60 | 40BS60 | 9.84 | 1.125 | 7.68 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 70 | 40BS70 | 11.43 | 1.25 | 10.8 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 72 | 40BS72 | 11.75 | 1.25 | 11.3 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 80 | 40BS80 | 13.03 | 1.25 | 13.2 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 84 | 40BS84 | 13.66 | 1.25 | 13.84 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 96 | 40BS96 | 15.57 | 1.25 | 17.44 | | | | | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 112 | 40BS112 | 18.12 | 1.25 | 22.45 | | | | | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |

★ Indicates no keyway. (2) 1/4" setscrews only.
Hub diameters vary to suit different bore sizes.
NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

Bored-To-Size




Type BS

# All Steel Stock Sprockets

# No. 40 ½" Pitch

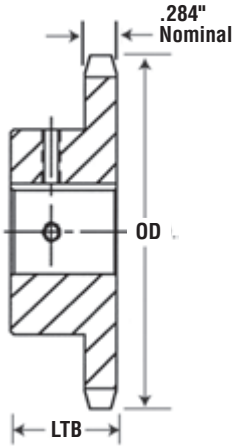
SABER TOOTH®

## No. 40-Hardened Teeth — 2 Setscrews — Bored-To-Size

| No. Teeth | Catalog Number | OD | LTB | Wt. lb | Stock Finished Bores Includes Keyway and 2 Setscrews | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 40BS9HT | 1.670 | .875 | 0.16 | ★.5 | .625 | | | | | | | | | |
| 10 | 40BS10HT | 1.840 | .875 | 0.24 | ★.5 | .625 | .75 | | | | | | | | |
| 11 | 40BS11HT | 2.000 | .875 | 0.28 | ★.5 | .625 | .75 | .875 | | | | | | | |
| 12 | 40BS12HT | 2.170 | .875 | 0.34 | ★.5 | .625 | .75 | .875 | 1 | | | | | | |
| 13 | 40BS13HT | 2.330 | .875 | 0.45 | ★.5 | .625 | .75 | .875 | 1 | | | | | | |
| 14 | 40BS14HT | 2.490 | .875 | 0.51 | ★.5 | .625 | .75 | .875 | 1 | 1.125 | | | | | |
| 15 | 40BS15HT | 2.650 | .875 | 0.53 | ★.5 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | |
| 16 | 40BS16HT | 2.810 | .875 | 0.66 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | |
| 17 | 40BS17HT | 2.970 | 1 | 0.88 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | |
| 18 | 40BS18HT | 3.140 | 1 | 1.03 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 |
| 19 | 40BS19HT | 3.292 | 1 | 1.17 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 |
| 20 | 40BS20HT | 3.460 | 1 | 1.33 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 |
| 21 | 40BS21HT | 3.620 | 1 | 1.53 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 |
| 22 | 40BS22HT | 3.780 | 1 | 1.66 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 |
| 23 | 40BS23HT | 3.940 | 1 | 1.92 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 |
| 24 | 40BS24HT | 4.100 | 1 | 2.10 | | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 |
| 25 | 40BS25HT | 4.260 | 1 | 2.22 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 26 | 40BS26HT | 4.420 | 1 | 2.34 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 28 | 40BS28HT | 4.740 | 1 | 2.50 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |
| 30 | 40BS30HT | 5.060 | 1 | 2.70 | | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | 1.5 |

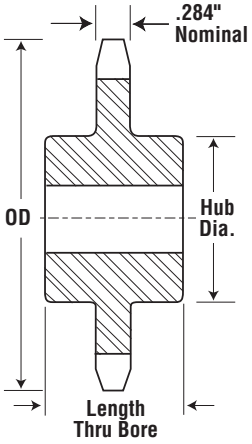
★ Indicates no keyway. (2) 1/4" setscrews only in 1/2" & 3/8" bore at 90°.

NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.




Type BS

Martin stock hardened teeth sprockets afford longer chain and sprocket life. Hardened teeth on the smaller sprocket of a roller chain drive are recommended if the drive ratio is four to one or greater or if the smaller sprocket has 24 teeth or less and is running at a speed of over 600 RPM




Type C

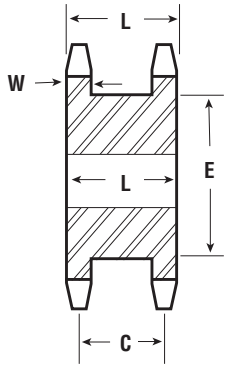
## Single - Type C — Steel

| No. Teeth | Catalog Number | OD | Bore (Inches) | | Hub (Inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|
| | | | Stock | Rec. Max. | Diameter | Length | |
| 12 | 40C12 | 2.170 | .5 | 1 | 1.609 ★ | 1.5 | 0.75 |
| 13 | 40C13 | 2.330 | .5 | 1.063 | 1.75 | 1.5 | 0.94 |
| 14 | 40C14 | 2.490 | .5 | 1.125 | 1.688 | 1.5 | 0.91 |
| 15 | 40C15 | 2.650 | .5 | 1.25 | 1.875 | 1.5 | 1.19 |
| 16 | 40C16 | 2.810 | .5 | 1.375 | 2 | 1.5 | 1.34 |
| 17 | 40C17 | 2.970 | .625 | 1.438 | 2.125 | 1.5 | 1.50 |
| 18 | 40C18 | 3.140 | .625 | 1.5 | 2.313 | 1.5 | 1.80 |

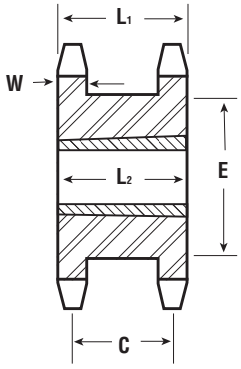
★ Has recessed groove in hub for chain clearance.

# No. 40
## ½" Pitch

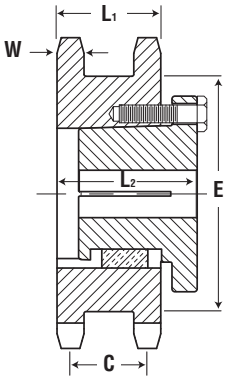
# All Steel Stock Sprockets



Type A



Taper Bush
Type A



MST® Type B

## Double Single - Type A — Steel

| No. Teeth | Catalog Number | Diameter | | Type | Min. Bore | Max. Bore | Dimensions | | | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OD | PD | | | | L | C | E | W (Nom.) | |
| 15 | DS40A15 | 2.650 | 2.405 | A | .5 | 1.25 | 1.406 | 1.125 | 1.813 | .284 | 1.2 |
| 16 | DS40A16 | 2.810 | 2.563 | A | .5 | 1.25 | 1.406 | 1.125 | 2 | .284 | 1.4 |
| 17 | DS40A17 | 2.980 | 2.721 | A | .5 | 1.313 | 1.406 | 1.125 | 2.125 | .284 | 1.6 |
| 18 | DS40A18 | 3.140 | 2.879 | A | .5 | 1.5 | 1.406 | 1.125 | 2.313 | .284 | 1.8 |
| 19 | DS40A19 | 3.300 | 3.038 | A | .625 | 1.688 | 1.406 | 1.125 | 2.5 | .284 | 2.2 |
| 20 | DS40A20 | 3.460 | 3.196 | A | .625 | 1.75 | 1.406 | 1.125 | 2.625 | .284 | 2.6 |
| 21 | DS40A21 | 3.620 | 3.355 | A | .625 | 1.75 | 1.406 | 1.125 | 2.781 | .284 | 2.9 |
| 22 | DS40A22 | 3.780 | 3.513 | A | .625 | 1.813 | 1.406 | 1.125 | 2.938 | .284 | 3.0 |
| 23 | DS40A23 | 3.940 | 3.672 | A | .625 | 2.063 | 1.406 | 1.125 | 3.094 | .284 | 3.5 |
| 24 | DS40A24 | 4.100 | 3.831 | A | .625 | 2.25 | 1.406 | 1.125 | 3.266 | .284 | 4.0 |
| 25 | DS40A25 | 4.260 | 3.989 | A | .625 | 2.25 | 1.406 | 1.125 | 3.438 | .284 | 4.5 |

## Double Single - Taper Bushed— Steel

| No. Teeth | Catalog Number | Bushing Size | Diameter | | Min. Bore | Max. Bore | Type | Dimensions | | | | | Wt. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | | $L_1$ | C | E | $L_2$ | W (Nom.) | Rim Only |
| 18 | DS40ATB18H | 1215 | 3.140 | 2.879 | .5 | 1.25 | A | 1.688 | 1.125 | 2.313 | 1.5 | .284 | 1.0 |
| 19 | DS40ATB19H | 1215 | 3.300 | 3.038 | .5 | 1.25 | A | 1.688 | 1.125 | 2.5 | 1.5 | .284 | 1.1 |
| 20 | DS40ATB20H | 1215 | 3.460 | 3.196 | .5 | 1.25 | A | 1.688 | 1.125 | 2.625 | 1.5 | .284 | 1.3 |
| 21 | DS40ATB21H | 1615 | 3.620 | 3.355 | .5 | 1.625 | A | 1.688 | 1.125 | 2.781 | 1.5 | .284 | 1.3 |
| 23 | DS40ATB23H | 1615 | 3.940 | 3.672 | .5 | 1.625 | A | 1.688 | 1.125 | 3.156 | 1.5 | .284 | 1.5 |
| 24 | DS40ATB24H | 1615 | 4.100 | 3.831 | .5 | 1.625 | A | 1.688 | 1.125 | 3.266 | 1.5 | .284 | 1.7 |

## Double Single - MST®— Steel

| No. Teeth | Catalog Number | Bushing Size | Diameter | | Min. Bore | Max. Bore | Type | Dimensions | | | | | Wt. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | | $L_1$ | C | E | $L_2$ | W (Nom.) | Rim Only |
| 19 | DS40H19H | H | 3.300 | 3.038 | .375 | 1.5 | BH | 1.688 | 1.125 | 2.5 | 2.031 | .284 | 1.5 |
| 21 | DS40H21H | H | 3.620 | 3.355 | .375 | 1.5 | BH | 1.688 | 1.125 | 2.781 | 2.031 | .284 | 2.0 |
| 23 | DS40P23H | P1 | 3.940 | 3.672 | .5 | 1.75 | B | 1.688 | 1.125 | 3.156 | 2.281 | .284 | 2.3 |
| 24 | DS40P24H | P1 | 4.100 | 3.831 | .5 | 1.75 | B | 1.688 | 1.125 | 3.266 | 2.281 | .284 | 2.5 |

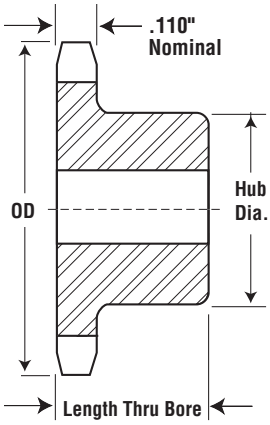
# Stainless Steel Stock Sprockets

# No. 40 ½" Pitch

**Alteration Charges**

See current discount sheet for alteration charges.

Stainless Steel




Type B

## Single - Type B — Stainless

## Single - Type A

| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 8 | 40B8SS | 1.507 | B | .5 | .5 | .969 | .875 | 0.18 | | | | |
| 9 | 40B9SS | 1.840 | B | .5 | .563 | 1.063 | .875 | 0.20 | | | | |
| 10 | 40B10SS | 1.840 | B | .5 | .75 | 1.25 ★ | .875 | 0.28 | | | | |
| 11 | 40B11SS | 2.000 | B | .5 | .813 | 1.375 ★ | .875 | 0.36 | | | | |
| 12 | 40B12SS | 2.170 | B | .5 | .938 | 1.563 ★ | .875 | 0.44 | | | | |
| 13 | 40B13SS | 2.330 | B | .5 | 1.063 | 1.563 | .875 | 0.50 | A | 40A13SS | .5 | 0.22 |
| 14 | 40B14SS | 2.490 | B | .5 | 1.125 | 1.688 | .875 | 0.60 | A | 40A14SS | .5 | 0.26 |
| 15 | 40B15SS | 2.650 | B | .5 | 1.25 | 1.813 | .875 | 0.68 | A | 40A15SS | .625 | 0.30 |
| 16 | 40B16SS | 2.810 | B | .625 | 1.375 | 2 | .875 | 0.82 | A | 40A16SS | .625 | 0.34 |
| 17 | 40B17SS | 2.980 | B | .625 | 1.438 | 2.125 | 1 | 1.06 | A | 40A17SS | .625 | 0.36 |
| 18 | 40B18SS | 3.140 | B | .625 | 1.5 | 2.313 | 1 | 1.24 | A | 40A18SS | .625 | 0.44 |
| 19 | 40B19SS | 3.300 | B | .625 | 1.75 | 2.5 | 1 | 1.42 | A | 40A19SS | .625 | 0.46 |
| 20 | 40B20SS | 3.460 | B | .625 | 1.875 | 2.625 | 1 | 1.60 | A | 40A20SS | .625 | 0.56 |
| 21 | 40B21SS | 3.620 | B | .625 | 1.875 | 2.75 | 1 | 1.68 | A | 40A21SS | .625 | 0.58 |
| 22 | 40B22SS | 3.780 | B | .625 | 1.875 | 2.875 | 1 | 1.81 | A | 40A22SS | .625 | 0.66 |
| 23 | 40B23SS | 3.940 | B | .625 | 2 | 3 | 1 | 2.14 | A | 40A23SS | .625 | 0.72 |
| 24 | 40B24SS | 4.100 | B | .625 | 2.25 | 3.25 | 1 | 2.46 | A | 40A24SS | .625 | 0.82 |
| 25 | 40B25SS | 4.260 | B | .625 | 2.25 | 3.25 | 1 | 2.55 | A | 40A25SS | .625 | 0.88 |
| 26 | 40B26SS | 4.420 | B | .625 | 2.25 | 3.25 | 1 | 2.62 | A | 40A26SS | .594 | 1.31 |
| 28 | 40B28SS | 4.740 | B | .625 | 2.25 | 3.25 | 1 | 2.75 | A | 40A28SS | .594 | 1.35 |
| 30 | 40B30SS | 5.060 | B | .625 | 2.25 | 3.25 | 1 | 2.88 | A | 40A30SS | .594 | 1.39 |
| 32 | 40B32SS | 5.376 | B | .625 | 2.25 | 3.25 | 1 | 3.16 | A | 40A32SS | .594 | 1.48 |
| 35 | 40B35SS | 5.860 | B | .625 | 2.25 | 3.25 | 1 | 3.32 | A | 40A35SS | .594 | 1.92 |
| 36 | 40B36SS | 6.015 | B | .625 | 2.25 | 3.25 | 1 | 3.58 | A | 40A36SS | .594 | 1.84 |
| 40 | 40B40SS | 6.650 | B | .75 | 2.375 | 3.5 | 1.125 | 4.28 | A | 40.656 | .719 | 2.36 |
| 45 | 40B45SS | 7.450 | B | .75 | 2.375 | 3.5 | 1.125 | 4.68 | A | 40.656 | .719 | 3.13 |
| 48 | 40B48SS | 7.928 | B | .75 | 2.375 | 3.5 | 1.125 | 5.84 | A | 40.656 | .719 | 3.22 |
| 54 | 40B54SS | 8.884 | B | .75 | 2.375 | 3.5 | 1.125 | 6.42 | A | 40.656 | .719 | 4.44 |
| 60 | 40B60SS | 9.840 | B | .75 | 2.375 | 3.5 | 1.125 | 7.00 | A | 40.656 | .719 | 5.50 |

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Sprockets altered at factory (rebored with keyway and setscrew added) will be supplied with stainless setscrew.

# No. 40
## ½" Pitch

# All Steel Stock Sprockets

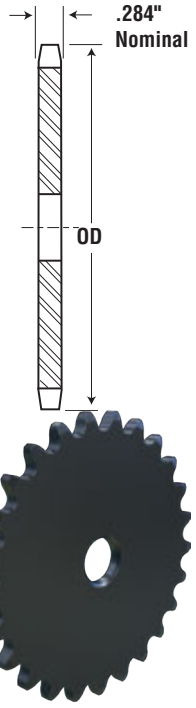
Martin

## Single - Type B / Single - Type A

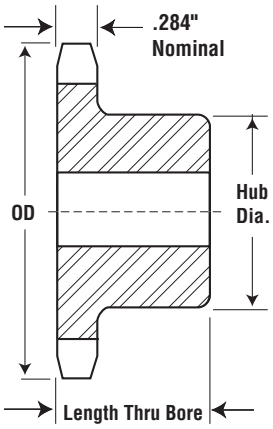
| No. Teeth | Catalog Number | OD | Type | Bore Stock | Bore Rec. Max | Hub Dia. | Hub LTB | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 40B8 | 1.510 | B | .5 | .5 | .984 ★ | .875 | 0.18 | | | | |
| 9 | 40B9 | 1.670 | B | .5 | .563 | 1.063 ★ | .875 | 0.20 | | | | |
| 10 | 40B10 | 1.840 | B | .5 | .75 | 1.25 ★ | .875 | 0.27 | | | | |
| 11 | 40B11 | 2.000 | B | .5 | .875 | 1.75 ★ | .875 | 0.35 | | | | |
| 12 | 40B12 | 2.170 | B | .5 | 1 | 1.563 ★ | .875 | 0.45 | A | 40A12 | .5 | 0.18 |
| 13 | 40B13 | 2.330 | B | .5 | 1.063 | 1.563 | .875 | 0.50 | A | 40A13 | .5 | 0.22 |
| 14 | 40B14 | 2.490 | B | .5 | 1.125 | 1.344 | .875 | 0.59 | A | 40A14 | .5 | 0.26 |
| 15 | 40B15 | 2.650 | B | .5 | 1.25 | 113/16 | .875 | 0.70 | A | 40A15 | .625 | 0.30 |
| 16 | 40B16 | 2.810 | B | .625 | 1.75 | 2 | .875 | 0.79 | A | 40A16 | .625 | 0.34 |
| 17 | 40B17 | 2.980 | B | .625 | 1.219 | 2.125 | 1 | 1.04 | A | 40A17 | .625 | 0.36 |
| 18 | 40B18 | 3.140 | B | .625 | 1.5 | 2.156 | 1 | 1.22 | A | 40A18 | .625 | 0.44 |
| 19 | 40B19 | 3.300 | B | .625 | 1.75 | 2.5 | 1 | 1.43 | A | 40A19 | .625 | 0.46 |
| 20 | 40B20 | 3.460 | B | .625 | 1.875 | 2.625 | 1 | 1.56 | A | 40A20 | .625 | 0.56 |
| 21 | 40B21 | 3.620 | B | .625 | 1.875 | 2.75 | 1 | 1.73 | A | 40A21 | .625 | 0.58 |
| 22 | 40B22 | 3.780 | B | .625 | 1.875 | 2.875 | 1 | 1.96 | A | 40A22 | .625 | 0.66 |
| 23 | 40B23 | 3.940 | B | .625 | 2 | 3 | 1 | 2.13 | A | 40A23 | .625 | 0.72 |
| 24 | 40B24 | 4.100 | B | .625 | 2.25 | 3.25 | 1 | 2.41 | A | 40A24 | .625 | 0.82 |
| 25 | 40B25 | 4.260 | B | .625 | 2.25 | 3.25 | 1 | 2.54 | A | 40A25 | .625 | 0.88 |
| 26 | 40B26 | 4.420 | B | .625 | 2.25 | 3.25 | 1 | 2.58 | A | 40A26 | .625 | 0.94 |
| 27 | 40B27 | 4.580 | B | .625 | 2.25 | 3.25 | 1 | 2.66 | A | 40A27 | .625 | 0.98 |
| 28 | 40B28 | 4.740 | B | .625 | 2.25 | 3.25 | 1 | 2.73 | A | 40A28 | .625 | 1.10 |
| 29 | 40B29 | 4.900 | B | .625 | 2.25 | 3.25 | 1 | 2.80 | A | 40A29 | .564 | 1.22 |
| 30 | 40B30 | 5.060 | B | .625 | 2.25 | 3.25 | 1 | 2.98 | A | 40A30 | .564 | 1.26 |
| 31 | 40B31 | 5.220 | B | .625 | 2.25 | 3.25 | 1 | 3.10 | A | 40A31 | .564 | 1.40 |
| 32 | 40B32 | 5.380 | B | .625 | 2.25 | 3.25 | 1 | 3.16 | A | 40A32 | .564 | 1.48 |
| 33 | 40B33 | 5.540 | B | .625 | 2.25 | 3.25 | 1 | 3.22 | A | 40A33 | .564 | 1.56 |
| 34 | 40B34 | 5.700 | B | .625 | 2.25 | 3.25 | 1 | 3.30 | A | 40A34 | .564 | 1.64 |
| 35 | 40B35 | 5.860 | B | .625 | 2.25 | 3.25 | 1 | 3.46 | A | 40A35 | .564 | 1.70 |
| 36 | 40B36 | 6.020 | B | .625 | 2.25 | 3.25 | 1 | 3.58 | A | 40A36 | .564 | 1.84 |
| 37 | 40B37 | 6.180 | B | .625 | 2.25 | 3.25 | 1 | 3.62 | A | 40A37 | .564 | 1.92 |
| 38 | 40B38 | 6.330 | B | .625 | 2.25 | 3.25 | 1 | 3.70 | A | 40A38 | .564 | 2.00 |
| 39 | 40B39 | 6.490 | B | .625 | 2.25 | 3.25 | 1 | 3.76 | A | 40A39 | .564 | 2.02 |
| 40 | 40B40 | 6.650 | B | .75 | 2.75 | 3.5 | 1.125 | 4.69 | A | 40A40 | .719 | 2.22 |
| 41 | 40B41 | 6.810 | B | .75 | 2.75 | 3.5 | 1.125 | 4.76 | A | 40A41 | .719 | 2.40 |
| 42 | 40B42 | 6.970 | B | .75 | 2.75 | 3.5 | 1.125 | 4.82 | A | 40A42 | .719 | 2.52 |
| 43 | 40B43 | 7.130 | B | .75 | 2.75 | 3.5 | 1.125 | 5.12 | A | 40A43 | .719 | 2.64 |
| 44 | 40B44 | 7.290 | B | .75 | 2.75 | 3.5 | 1.125 | 5.15 | A | 40A44 | .719 | 2.81 |
| 45 | 40B45 | 7.450 | B | .75 | 2.75 | 3.5 | 1.125 | 5.30 | A | 40A45 | .719 | 2.90 |
| 46 | 40B46 | 7.610 | B | .75 | 2.75 | 3.5 | 1.125 | 5.57 | A | 40A46 | .719 | 3.03 |
| 47 | 40B47 | 7.770 | B | .75 | 2.75 | 3.5 | 1.125 | 5.44 | A | 40A47 | .719 | 3.17 |
| 48 | 40B48 | 7.930 | B | .75 | 2.75 | 3.5 | 1.125 | 5.84 | A | 40A48 | .719 | 3.31 |
| 49 | 40B49 | 8.090 | B | .75 | 2.75 | 3.5 | 1.125 | 5.90 | A | 40A49 | .719 | 3.45 |
| 50 | 40B50 | 8.250 | B | .75 | 2.75 | 3.5 | 1.125 | 5.96 | A | 40A50 | .719 | 3.60 |
| 51 | 40B51 | 8.410 | B | .75 | 2.75 | 3.5 | 1.125 | 6.08 | A | 40A51 | .719 | 3.75 |
| 52 | 40B52 | 8.570 | B | .75 | 2.75 | 3.5 | 1.125 | 6.28 | A | 40A52 | .719 | 3.90 |
| 53 | 40B53 | 8.730 | B | .75 | 2.75 | 3.5 | 1.125 | 6.33 | A | 40A53 | .719 | 4.05 |
| 54 | 40B54 | 8.890 | B | .75 | 2.75 | 3.5 | 1.125 | 6.42 | A | 40A54 | .719 | 4.44 |
| 55 | 40B55 | 9.040 | B | .75 | 2.75 | 3.5 | 1.125 | 6.46 | A | 40A55 | .719 | 4.54 |
| 56 | 40B56 | 9.200 | B | .75 | 2.75 | 3.5 | 1.125 | 6.89 | A | 40A56 | .719 | 4.84 |
| 57 | 40B57 | 9.360 | B | .75 | 2.75 | 3.5 | 1.125 | 7.02 | A | 40A57 | .719 | 5.00 |
| 58 | 40B58 | 9.520 | B | .75 | 2.75 | 3.5 | 1.125 | 7.36 | A | 40A58 | .719 | 5.12 |
| 59 | 40B59 | 9.680 | B | .75 | 2.75 | 3.5 | 1.125 | 7.45 | A | 40A59 | .719 | 5.30 |
| 60 | 40B60 | 9.840 | B | .75 | 2.75 | 3.5 | 1.125 | 7.86 | A | 40A60 | .719 | 5.48 |
| 70 | 40B70 | 11.430 | B | .75 | 2.75 | 4 | 1.25 | 11.00 | A | 40A70 | .719 | 7.24 |
| 72 | 40B72 | 11.750 | B | .75 | 2.75 | 4 | 1.25 | 11.50 | A | 40A72 | .719 | 7.56 |
| 80 | 40B80 | 13.030 | B | .75 | 2.75 | 4 | 1.25 | 13.40 | A | 40A80 | .719 | 10.20 |
| 84 | 40B84 | 13.660 | B | .75 | 2.75 | 4 | 1.25 | 14.04 | A | 40A84 | .719 | 10.07 |
| 96 | 40B96 | 15.570 | B | 1 | 2.75 | 4 | 1.25 | 17.56 | A | 40A96 | .938 | 12.15 |
| 112 | 40B112 | 18.120 | B | 1 | 2.75 | 4 | 1.25 | 22.56 | A | 40A112 | .938 | 20.00 |

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.




Type A



Type B

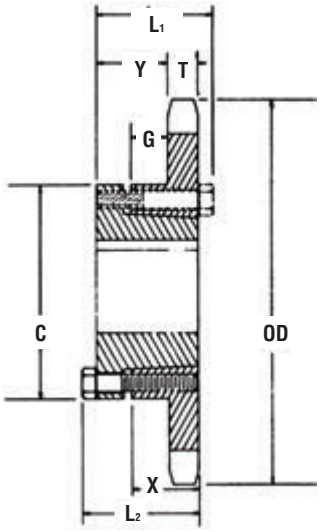
# All Steel Stock Sprockets

# No. 40 ½" Pitch

## Single - Type QD with Hardened Teeth

| No. Teeth | Catalog Number |
|---|---|
| 15 | 40JA15H |
| 16 | 40JA16H |
| 17 | 40JA17H |
| 18 | 40JA18H |
| 19 | 40JA19H |
| 20 | 40SH20H |
| 21 | 40SH21H |
| 22 | 40SH22H |
| 23 | 40SH23H |
| 24 | 40SH24H |
| 25 | 40SH25H |
| 26 | 40SH26H |
| 27 | 40SH27H |
| 28 | 40SH28H |
| 30 | 40SH30H |

SABER TOOTH




QD — Type B

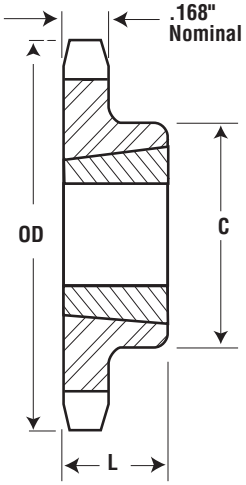
## Single - Type QD

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | G | X | T | With Hub | Rim Only |
| 15 | 40JA15 | JA | 2.650 | 2.405 | B | 1.25 | 1.125 | 1.125 | 2.063 | .719 | .344 | .625 | 0.284 | 1.24 | 0.34 |
| 16 | 40JA16 | JA | 2.810 | 2.563 | B | 1.25 | 1.125 | 1.125 | 2.063 | .719 | .344 | .625 | 0.284 | 1.30 | 0.40 |
| 17 | 40JA17 | JA | 2.980 | 2.721 | B | 1.25 | 1.125 | 1.125 | 2.063 | .719 | .344 | .625 | 0.284 | 1.38 | 0.48 |
| 18 | 40JA18 | JA | 3.140 | 2.879 | B | 1.25 | 1.125 | 1.125 | 2.063 | .719 | .344 | .625 | 0.284 | 1.44 | 0.54 |
| 19 | 40JA19 | JA | 3.300 | 3.038 | B | 1.25 | 1.125 | 1.125 | 2.063 | .719 | .344 | .625 | 0.284 | 1.50 | 0.60 |
| 20 | 40SH20 | SH | 3.460 | 3.196 | B | 1.625 | 1.438 | 1.438 | 2.688 | .969 | .531 | .813 | 0.284 | 1.76 | 0.76 |
| 21 | 40SH21 | SH | 3.620 | 3.355 | B | 1.625 | 1.438 | 1.438 | 2.688 | .969 | .531 | .813 | 0.284 | 1.84 | 0.84 |
| 22 | 40SH22 | SH | 3.780 | 3.513 | B | 1.625 | 1.438 | 1.438 | 2.688 | .969 | .531 | .813 | 0.284 | 1.92 | 0.92 |
| 23 | 40SH23 | SH | 3.940 | 3.672 | B | 1.625 | 1.438 | 1.438 | 2.688 | .969 | .531 | .813 | 0.284 | 2.14 | 1.14 |
| 24 | 40SH24 | SH | 4.100 | 3.831 | B | 1.625 | 1.438 | 1.438 | 2.688 | .969 | .531 | .813 | 0.284 | 2.22 | 1.22 |
| 25 | 40SH25 | SH | 4.260 | 3.989 | B | 1.625 | 1.438 | 1.438 | 2.688 | .969 | .531 | .813 | 0.284 | 2.30 | 1.30 |
| 26 | 40SH26 | SH | 4.420 | 4.148 | B | 1.625 | 1.438 | 1.438 | 2.688 | .969 | .531 | .813 | 0.284 | 2.44 | 1.44 |
| 27 | 40SH27 | SH | 4.580 | 4.307 | B | 1.625 | 1.438 | 1.438 | 2.688 | .969 | .531 | .813 | 0.284 | 2.46 | 1.46 |
| 28 | 40SH28 | SH | 4.740 | 4.466 | B | 1.625 | 1.438 | 1.438 | 2.688 | .969 | .531 | .813 | 0.284 | 2.54 | 1.54 |
| 30 | 40SH30 | SH | 5.060 | 4.783 | B | 1.625 | 1.438 | 1.438 | 2.688 | .969 | .531 | .813 | 0.284 | 2.72 | 1.72 |
| 32 | 40SH32 | SH | 5.380 | 5.101 | B | 1.625 | 1.438 | 1.438 | 2.688 | .969 | .531 | .813 | 0.284 | 2.90 | 1.90 |
| 35 | 40SH35 | SH | 5.860 | 5.578 | B | 1.625 | 1.438 | 1.438 | 3 | .969 | .531 | .813 | 0.284 | 3.22 | 2.22 |
| 36 | 40SDS36 | SDS | 6.020 | 5.737 | B | 2 | 1.5 | 1.5 | 3.156 | 1.031 | .469 | .75 | 0.284 | 3.20 | 2.20 |
| 40 | 40SDS40 | SDS | 6.650 | 6.373 | B | 2 | 1.5 | 1.5 | 3.156 | 1.031 | .469 | .75 | 0.284 | 3.72 | 2.72 |
| 42 | 40SDS42 | SDS | 6.970 | 6.691 | B | 2 | 1.5 | 1.5 | 3.156 | 1.031 | .469 | .75 | 0.284 | 3.92 | 2.92 |
| 45 | 40SDS45 | SDS | 7.450 | 7.168 | B | 2 | 1.5 | 1.5 | 3.156 | 1.031 | .469 | .75 | 0.284 | 4.32 | 3.32 |
| 48 | 40SDS48 | SDS | 7.930 | 7.645 | B | 2 | 1.5 | 1.5 | 3.156 | 1.031 | .469 | .75 | 0.284 | 4.70 | 3.70 |
| 54 | 40SDS54 | SDS | 8.890 | 8.599 | B | 2 | 1.5 | 1.5 | 3.156 | 1.031 | .469 | .75 | 0.284 | 5.78 | 4.78 |
| 60 | 40SDS60 | SDS | 9.840 | 9.554 | B | 2 | 1.5 | 1.5 | 3.156 | 1.031 | .469 | .75 | 0.284 | 6.86 | 5.86 |
| 70 | 40SK70 | SK | 11.430 | 11.145 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.594 | .969 | 1.25 | 0.284 | 10.68 | 8.68 |
| 72 | 40SK72 | SK | 11.750 | 11.463 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.594 | .969 | 1.25 | 0.284 | 10.84 | 8.84 |
| 80 | 40SK80 | SK | 13.030 | 12.736 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.594 | .969 | 1.25 | 0.284 | 13.20 | 11.20 |
| 84 | 40SK84 | SK | 13.660 | 13.372 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.594 | .969 | 1.25 | 0.284 | 13.56 | 11.56 |
| 96 | 40SK96 | SK | 15.570 | 15.282 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.594 | .969 | 1.25 | 0.284 | 17.76 | 15.76 |
| 112 | 40SK112 | SK | 18.120 | 17.828 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.594 | .969 | 1.25 | 0.284 | 22.28 | 20.28 |

# No. 40
## ½" Pitch

# All Steel Stock Sprockets

## Single - Taper Bushed with Hardened Teeth




Type B

| No. Teeth | Catalog Number |
|---|---|
| 14 | 40BTB14H |
| 15 | 40BTB15H |
| 16 | 40BTB16H |
| 17 | 40BTB17H |
| 18 | 40BTB18H |
| 19 | 40BTB19H |
| 20 | 40BTB20H |
| 21 | 40BTB21H |
| 22 | 40BTB22H |
| 23 | 40BTB23H |
| 24 | 40BTB24H |
| 25 | 40BTB25H |
| 26 | 40BTB26H |
| 28 | 40BTB28H |
| 30 | 40BTB30H |

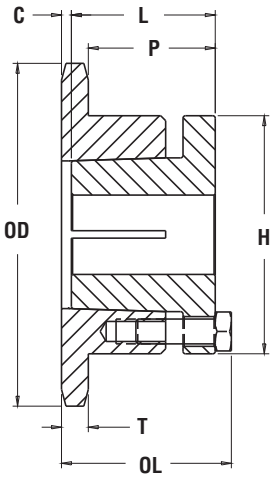
## Single - Taper Bushed

| No. Teeth | Catalog Number | Bushing | Diameter | | Max. Bore | Dimensions | | Type | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | L | C | | Rim Only | Bushing Only |
| 14 | 40BTB14 | 1008 | 2.491 | 2.247 | 1 | .875 | ★ 1.813 | B | 0.3 | 0.3 |
| 15 | 40BTB15 | 1008 | 2.652 | 2.405 | 1 | .875 | 1.813 | B | 0.4 | 0.3 |
| 16 | 40BTB16 | 1008 | 2.814 | 2.563 | 1 | .875 | 1.938 | B | 0.5 | 0.3 |
| 17 | 40BTB17 | 1210 | 2.975 | 2.721 | 1.25 | 1 | ★ 2.375 | B | 0.5 | 0.3 |
| 18 | 40BTB18 | 1210 | 3.135 | 2.879 | 1.25 | 1 | ★ 2.469 | B | 0.6 | 0.6 |
| 19 | 40BTB19 | 1210 | 3.296 | 3.038 | 1.25 | 1 | 2.469 | B | 0.7 | 0.6 |
| 20 | 40BTB20 | 1610 | 3.457 | 3.196 | 1.625 | 1 | ★ 2.781 | B | 0.7 | 0.9 |
| 21 | 40BTB21 | 1610 | 3.617 | 3.355 | 1.625 | 1 | 2.781 | B | 0.8 | 0.9 |
| 22 | 40BTB22 | 1610 | 3.778 | 3.513 | 1.625 | 1 | 2.781 | B | 0.9 | 0.9 |
| 23 | 40BTB23 | 1610 | 3.938 | 3.672 | 1.625 | 1 | 3.094 | B | 1.0 | 0.9 |
| 24 | 40BTB24 | 1610 | 4.098 | 3.831 | 1.625 | 1 | 3.25 | B | 1.4 | 0.9 |
| 25 | 40BTB25 | 1610 | 4.258 | 3.989 | 1.625 | 1 | 3.406 | B | 1.5 | 0.9 |
| 26 | 40BTB26 | 1610 | 4.418 | 4.148 | 1.625 | 1 | 3.5 | B | 1.7 | 0.9 |
| 28 | 40BTB28 | 1610 | 4.738 | 4.466 | 1.625 | 1 | 3.5 | B | 1.8 | 0.9 |
| 30 | 40BTB30 | 1610 | 5.057 | 4.783 | 1.625 | 1 | 3.5 | B | 1.9 | 0.9 |
| 32 | 40BTB32 | 1610 | 5.377 | 5.101 | 1.625 | 1 | 3.5 | B | 1.9 | 0.9 |
| 35 | 40BTB35 | 1610 | 5.855 | 5.578 | 1.625 | 1 | 3.5 | B | 2.3 | 0.9 |
| 36 | 40BTB36 | 1610 | 6.015 | 5.737 | 1.625 | 1 | 3 | B | 2.4 | 0.9 |
| 40 | 40BTB40 | 1610 | 6.653 | 6.373 | 1.625 | 1 | 3 | B | 2.8 | 0.9 |
| 42 | 40BTB42 | 1610 | 6.972 | 6.691 | 1.625 | 1 | 3 | B | 2.9 | 0.9 |
| 45 | 40BTB45 | 1610 | 7.451 | 7.168 | 1.625 | 1 | 3 | B | 3.5 | 0.9 |
| 48 | 40BTB48 | 1610 | 7.928 | 7.645 | 1.625 | 1 | 3 | B | 4.0 | 0.9 |
| 54 | 40BTB54 | 1610 | 8.885 | 8.599 | 1.625 | 1 | 3 | B | 4.9 | 0.9 |
| 60 | 40BTB60 | 1610 | 9.841 | 9.554 | 1.625 | 1 | 3 | B | 6.0 | 0.9 |
| 70 | 40BTB70 | 2012 | 11.434 | 11.145 | 2 | 1.25 | 3.563 | B | 8.2 | 1.7 |
| 72 | 40BTB72 | 2012 | 11.752 | 11.463 | 2 | 1.25 | 3.563 | B | 9.0 | 1.7 |
| 80 | 40BTB80 | 2012 | 13.026 | 12.736 | 2 | 1.25 | 3.563 | B | 10.8 | 1.7 |
| 84 | 40BTB84 | 2012 | 13.663 | 13.372 | 2 | 1.25 | 3.563 | B | 11.3 | 1.7 |
| 96 | 40BTB96 | 2012 | 15.573 | 15.282 | 2 | 1.25 | 3.563 | B | 14.6 | 1.7 |
| 112 | 40BTB112 | 2517 | 18.122 | 17.828 | 2.5 | 1.75 | 4.25 | B | 20.5 | 1.7 |

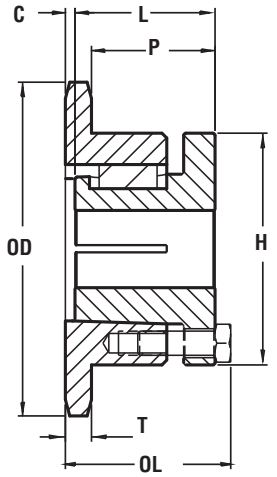
★ Has recessed groove in hub for chain clearance.

# MST® Sprockets

# No. 40 ½" Pitch




Type 3




Type 4

## Single - MST® Sprockets

| No. Teeth | Catalog Number | Bushing | Diameter OD | Diameter PD | Type | Max. Bore | Dimensions OL | Dimensions L | Dimensions C | Dimensions H | Dimensions P | Dimensions T (nom.) | Wt. lb (Approx.) With Hub | Wt. lb (Approx.) Rim Only |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 40H15H | H | 2.650 | 2.405 | 3 | 1.5 | 1.594 | 1.25 | .156 | 2.5 | 1.125 | .284 | 1.3 | 0.5 |
| 16 | 40H16H | H | 2.810 | 2.563 | 3 | 1.5 | 1.594 | 1.25 | .156 | 2.5 | 1.125 | .284 | 1.4 | 0.6 |
| 17 | 40H17H | H | 2.980 | 2.721 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 1.4 | 0.6 |
| 18 | 40H18H | H | 3.140 | 2.879 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 1.4 | 0.6 |
| 18 | 40P18H | P1 | 3.140 | 2.879 | 3 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 2.7 | 1.4 |
| 19 | 40H19H | H | 3.300 | 3.038 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 1.6 | 0.8 |
| 19 | 40P19H | P1 | 3.300 | 3.038 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 2.6 | 1.3 |
| 20 | 40H20H | H | 3.460 | 3.196 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 1.7 | 0.9 |
| 20 | 40P20H | P1 | 3.460 | 3.196 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 2.6 | 1.3 |
| 21 | 40H21H | H | 3.620 | 3.355 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 1.7 | 0.9 |
| 21 | 40P21H | P1 | 3.620 | 3.355 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 2.8 | 1.5 |
| 22 | 40H22H | H | 3.780 | 3.513 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 1.8 | 1.0 |
| 22 | 40P22H | P1 | 3.780 | 3.513 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 2.9 | 1.6 |
| 23 | 40H23H | H | 3.940 | 3.672 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 1.8 | 1.0 |
| 23 | 40P23H | P1 | 3.940 | 3.672 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 3.0 | 1.7 |
| 24 | 40H24H | H | 4.100 | 3.831 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 1.9 | 1.1 |
| 24 | 40P24H | P1 | 4.100 | 3.831 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 3.1 | 1.8 |
| 25 | 40H25H | H | 4.260 | 3.989 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 2.1 | 1.3 |
| 25 | 40P25H | P1 | 4.260 | 3.989 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 3.2 | 1.9 |
| 26 | 40H26H | H | 4.420 | 4.148 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 2.1 | 1.3 |
| 26 | 40P26H | P1 | 4.420 | 4.148 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 3.2 | 1.9 |
| 27 | 40H27H | H | 4.580 | 4.307 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 2.2 | 1.4 |
| 28 | 40H28H | H | 4.740 | 4.466 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 2.2 | 1.4 |
| 28 | 40P28H | P1 | 4.740 | 4.466 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 3.4 | 2.1 |
| 29 | 40P29H | P1 | 4.900 | 4.625 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 3.6 | 2.3 |
| 30 | 40H30H | H | 5.060 | 4.783 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 2.4 | 1.6 |
| 30 | 40P30H | P1 | 5.060 | 4.783 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 3.6 | 2.3 |
| 31 | 40P31 | P1 | 5.220 | 4.942 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 3.8 | 2.5 |
| 32 | 40H32H | H | 5.380 | 5.101 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 2.6 | 1.8 |
| 32 | 40P32 | P1 | 5.380 | 5.101 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 3.9 | 2.6 |
| 33 | 40H33H | H | 5.540 | 5.260 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 2.7 | 1.9 |
| 33 | 40P33 | P1 | 5.540 | 5.260 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 3.9 | 2.6 |
| 34 | 40P34 | P1 | 5.700 | 5.419 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 4.1 | 2.8 |
| 35 | 40H35H | H | 5.860 | 5.578 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 2.9 | 2.1 |
| 35 | 40P35 | P1 | 5.860 | 5.578 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 4.2 | 2.9 |
| 36 | 40H36H | H | 6.020 | 5.737 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 3.1 | 2.3 |
| 36 | 40P36 | P1 | 6.020 | 5.737 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 4.4 | 3.1 |
| 37 | 40P37 | P1 | 6.180 | 5.896 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 4.6 | 3.3 |
| 38 | 40H38H | H | 6.330 | 6.055 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 3.4 | 2.6 |
| 38 | 40P38 | P1 | 6.330 | 6.055 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 4.6 | 3.3 |
| 40 | 40H40H | H | 6.650 | 6.373 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | 1.031 | .284 | 3.6 | 2.8 |
| 40 | 40P40 | P1 | 6.650 | 6.373 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 4.8 | 3.5 |
| 41 | 40P41 | P1 | 6.810 | 6.532 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 4.9 | 3.6 |
| 42 | 40P42 | P1 | 6.970 | 6.691 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 5.2 | 3.9 |
| 44 | 40P44 | P1 | 7.290 | 7.009 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 5.3 | 4.0 |
| 45 | 40P45 | P1 | 7.450 | 7.168 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 5.5 | 4.2 |
| 47 | 40P47 | P1 | 7.770 | 7.486 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 5.9 | 4.6 |
| 48 | 40P48 | P1 | 7.930 | 7.645 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 6.1 | 4.8 |
| 50 | 40P50 | P1 | 8.250 | 7.963 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 6.3 | 5.0 |
| 54 | 40P54 | P1 | 8.890 | 8.599 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 6.8 | 5.5 |
| 56 | 40P56 | P1 | 9.200 | 8.917 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 7.2 | 5.9 |
| 60 | 40P60 | P1 | 9.840 | 9.554 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 7.9 | 6.6 |
| 60 | 40Q60 | Q1 | 9.840 | 9.554 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.219 | .284 | 12.3 | 8.8 |
| 70 | 40P70 | P1 | 11.430 | 11.145 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.656 | .284 | 9.9 | 8.6 |
| 70 | 40Q70 | Q1 | 11.430 | 11.145 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.219 | .284 | 14.5 | 11.0 |
| 72 | 40Q72 | Q1 | 11.750 | 11.463 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.219 | .284 | 14.7 | 11.2 |
| 80 | 40Q80 | Q1 | 13.030 | 12.736 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.219 | .284 | 16.6 | 13.1 |
| 84 | 40Q84 | Q1 | 13.660 | 13.372 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.219 | .284 | 17.6 | 14.1 |
| 96 | 40Q96 | Q1 | 15.570 | 15.281 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.219 | .284 | 16.3 | 12.8 |
| 112 | 40Q112 | Q1 | 18.120 | 17.828 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.219 | .284 | 20.8 | 17.3 |

Sprockets with "H" suffix have hardened teeth.

# No. 40-2
## ½" Pitch

# All Steel Stock Sprockets

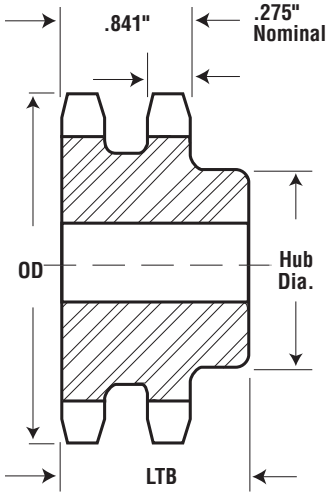
## Double - Type B

| No. Teeth | Catalog Number | OD | Type | Bore (Inches) | | Hub (Inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | LTB | |
| 11 | D40B11H | 2.000 | B | .5 | .75 | 1.438★ | 1.5 | 0.62 |
| 12 | D40B12H | 2.170 | B | .5 | .938 | 1.563★ | 1.5 | 0.76 |
| 13 | D40B13H | 2.330 | B | .5 | 1 | 1.5 | 1.5 | 0.86 |
| 14 | D40B14H | 2.490 | B | .5 | 1.125 | 1.688 | 1.5 | 1.08 |
| 15 | D40B15H | 2.650 | B | .5 | 1.25 | 1.813 | 1.5 | 1.24 |
| 16 | D40B16H | 2.810 | B | .625 | 1.375 | 2 | 1.5 | 1.42 |
| 17 | D40B17H | 2.980 | B | .625 | 1.438 | 2.125 | 1.5 | 1.64 |
| 18 | D40B18H | 3.140 | B | .625 | 1.5 | 2.313 | 1.5 | 1.92 |
| 19 | D40B19H | 3.300 | B | .625 | 1.75 | 2.5 | 1.5 | 2.22 |
| 20 | D40B20H | 3.460 | B | .625 | 1.875 | 2.625 | 1.625 | 2.64 |
| 21 | D40B21H | 3.620 | B | .625 | 1.875 | 2.75 | 1.625 | 2.94 |
| 22 | D40B22H | 3.780 | B | .625 | 1.875 | 2.875 | 1.625 | 3.18 |
| 23 | D40B23H | 3.940 | B | .625 | 2 | 3 | 1.625 | 3.52 |
| 24 | D40B24H | 4.100 | B | .625 | 2.25 | 3.25 | 1.625 | 4.04 |
| 25 | D40B25H | 4.260 | B | .625 | 2.25 | 3.25 | 1.625 | 4.26 |
| 26 | D40B26 | 4.420 | B | .625 | 2.25 | 3.25 | 1.625 | 4.48 |
| 30 | D40B30 | 5.060 | B | .875 | 2.25 | 3.25 | 1.625 | 5.34 |
| 35 | D40B35 | 5.860 | B | .875 | 2.25 | 3.25 | 1.625 | 6.80 |
| 36 | D40B36 | 6.020 | B | .938 | 2.5 | 3.75 | 1.625 | 7.20 |
| 40 | D40B40 | 6.650 | B | .938 | 2.5 | 3.75 | 1.75 | 9.40 |
| 42 | D40B42 | 6.970 | B | .938 | 2.5 | 3.75 | 1.75 | 10.20 |
| 45 | D40B45 | 7.450 | B | .938 | 2.5 | 3.75 | 1.75 | 11.36 |
| 48 | D40B48 | 7.930 | B | .938 | 2.5 | 3.75 | 1.75 | 12.66 |
| 52 | D40B52 | 8.570 | B | .938 | 2.5 | 3.75 | 1.75 | 14.46 |
| 54 | D40B54 | 8.890 | B | .938 | 2.5 | 3.75 | 1.75 | 15.48 |
| 60 | D40B60 | 9.840 | B | .938 | 2.5 | 3.75 | 1.75 | 18.60 |
| 68 | D40B68 | 11.120 | B | 1.188 | 2.75 | 4.25 | 2.125 | 24.96 |
| 72 | D40B72 | 11.750 | B | 1.188 | 2.75 | 4.25 | 2.125 | 27.88 |
| 76 | D40B76 | 12.390 | B | 1.188 | 2.75 | 4.25 | 2.125 | 30.18 |
| 84 | D40B84 | 13.660 | B | 1.188 | 2.75 | 4.25 | 2.125 | 36.24 |
| 95 | D40B95 | 15.410 | B | 1.188 | 2.75 | 4.25 | 2.125 | 38.84 |
| 96 | D40B96 | 15.570 | B | 1.188 | 2.75 | 4.25 | 2.125 | 39.50 |
| 102 | D40B102 | 16.530 | B | 1.188 | 2.75 | 4.25 | 2.125 | 42.72 |
| 112 | D40B112 | 18.120 | B | 1.188 | 2.75 | 4.25 | 2.125 | 55.54 |

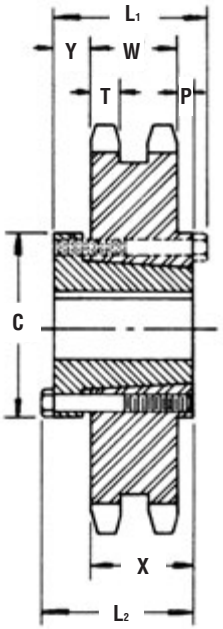
★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

NOTE: Double 40 stock sprockets with 25 teeth or less have hardened teeth. As indicated by H suffix.




Type B




QD - Type C

**Alteration Charges**

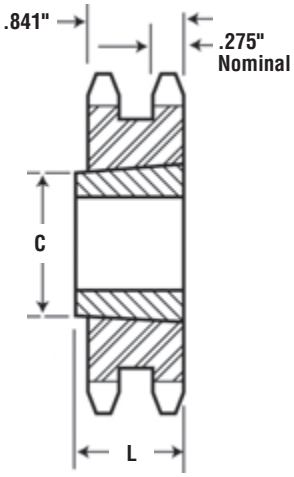
See current discount sheet for alteration charges.

## Double - Type QD

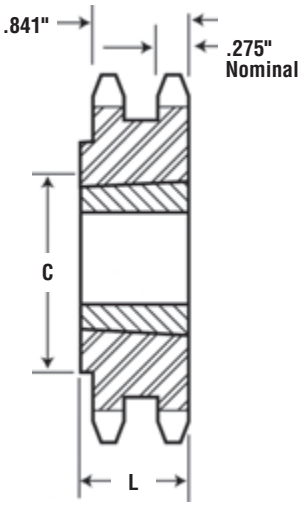
| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | X | T | W | With Hub | Rim Only |
| 36 | D40SK36 | SK | 6.020 | 5.737 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .406 | 1.25 | 0.275 | 0.841 | 6.68 | 4.68 |
| 40 | D40SK40 | SK | 6.650 | 6.373 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .406 | 1.25 | 0.275 | 0.841 | 8.02 | 6.02 |
| 42 | D40SK42 | SK | 6.970 | 6.691 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .406 | 1.25 | 0.275 | 0.841 | 8.82 | 6.82 |
| 45 | D40SK45 | SK | 7.450 | 7.168 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .406 | 1.25 | 0.275 | 0.841 | 9.98 | 7.98 |
| 48 | D40SK48 | SK | 7.930 | 7.645 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .406 | 1.25 | 0.275 | 0.841 | 11.22 | 9.22 |
| 52 | D40SK52 | SK | 8.570 | 8.281 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .406 | 1.25 | 0.275 | 0.841 | 13.04 | 11.04 |
| 54 | D40SK54 | SK | 8.890 | 8.599 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .406 | 1.25 | 0.275 | 0.841 | 14.06 | 12.06 |
| 60 | D40SK60 | SK | 9.840 | 9.554 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | .406 | 1.25 | 0.275 | 0.841 | 16.98 | 14.98 |
| 68 | D40SF68 | SF | 11.180 | 10.826 | C | 2.938 | 2.25 | 2.25 | 4.625 | .75 | .406 | 1.25 | 2.750 | 0.841 | 22.72 | 19.72 |
| 72 | D40SF72 | SF | 11.750 | 11.463 | C | 2.938 | 2.25 | 2.25 | 4.625 | .75 | .406 | 1.25 | 2.750 | 0.841 | 24.20 | 22.20 |
| 76 | D40SF76 | SF | 12.390 | 12.099 | C | 2.938 | 2.25 | 2.25 | 4.625 | .75 | .406 | 1.25 | 2.750 | 0.841 | 28.20 | 25.20 |
| 84 | D40SF84 | SF | 13.660 | 13.372 | C | 2.938 | 2.25 | 2.25 | 4.625 | .75 | .406 | 1.25 | 2.750 | 0.841 | 33.64 | 30.64 |
| 95 | D40SF95 | SF | 15.410 | 15.122 | C | 2.938 | 2.25 | 2.25 | 4.625 | .75 | .406 | 1.25 | 2.750 | 0.841 | 40.22 | 37.22 |
| 102 | D40SF102 | SF | 16.530 | 16.236 | C | 2.938 | 2.25 | 2.25 | 4.625 | .75 | .406 | 1.25 | 2.750 | 0.841 | 42.70 | 39.70 |
| 112 | D40SF112 | SF | 18.120 | 17.828 | C | 2.938 | 2.25 | 2.25 | 4.625 | .75 | .406 | 1.25 | 2.750 | 0.841 | 52.60 | 49.60 |

# All Steel Stock Sprockets

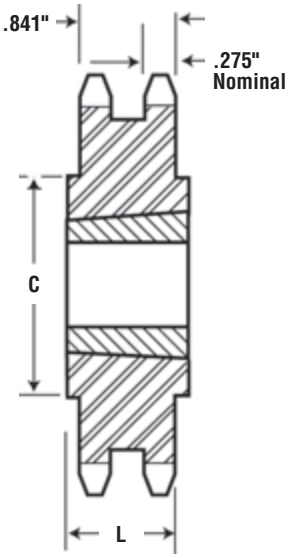
# No. 40-2 ½" Pitch




Type A




Type B




Type C

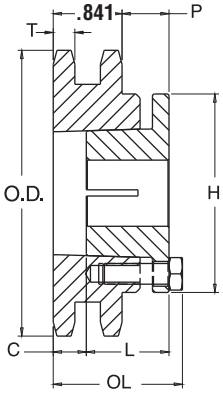
## Double - Taper Bushed

| No. Teeth | Catalog Number | Bushing | Diameters | | Max. Bore. | Dimensions | | Type | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | L | C | | Rim Only | Bushing Only |
| 15 | D40ATB15H | 1008 | 2.652 | 2.405 | 1 | .875 | 1.266 | A | 0.5 | 0.3 |
| 16 | D40ATB16H | 1008 | 2.814 | 2.563 | 1 | .875 | 1.266 | A | 0.6 | 0.3 |
| 17 | D40ATB17H | 1008 | 2.975 | 2.721 | 1 | .875 | 1.266 | A | 0.7 | 0.3 |
| 18 | D40BTB18H | 1210 | 3.135 | 2.879 | 1.25 | 1 | 2.313 | B | 0.7 | 0.6 |
| 19 | D40BTB19H | 1210 | 3.296 | 3.038 | 1.25 | 1 | 2.5 | B | 0.9 | 0.6 |
| 20 | D40BTB20H | 1610 | 3.457 | 3.196 | 1.625 | 1 | 2.625 | B | 0.9 | 0.9 |
| 21 | D40BTB21H | 1610 | 3.617 | 3.355 | 1.625 | 1 | 2.75 | B | 1.0 | 0.9 |
| 23 | D40BTB23H | 1610 | 3.938 | 3.672 | 1.625 | 1 | 3 | B | 1.3 | 0.9 |
| 25 | D40BTB25H | 2012 | 4.258 | 3.989 | 2 | 1.25 | 3.406 | B | 1.6 | 1.7 |
| 30 | D40BTB30 | 2012 | 5.057 | 4.783 | 2 | 1.25 | 4.234 | B | 3.4 | 1.7 |
| 36 | D40BTB36 | 2012 | 6.015 | 5.737 | 2 | 1.25 | 5.156 | B | 5.9 | 1.7 |
| 42 | D40CTB42 | 2517 | 6.972 | 6.691 | 2.5 | 1.75 | 4.25 | C | 7.0 | 3.5 |
| 48 | D40CTB48 | 2517 | 7.928 | 7.645 | 2.5 | 1.75 | 4.25 | C | 9.6 | 3.5 |
| 52 | D40CTB52 | 2517 | 8.566 | 8.281 | 2.5 | 1.75 | 4.25 | C | 11.4 | 3.5 |
| 60 | D40CTB60 | 2517 | 9.841 | 9.554 | 2.5 | 1.75 | 4.25 | C | 15.4 | 3.5 |
| 68 | D40CTB68 | 2517 | 11.115 | 10.826 | 2.5 | 1.75 | 4.25 | C | 20.5 | 3.5 |
| 76 | D40CTB76 | 2517 | 12.389 | 12.099 | 2.5 | 1.75 | 4.25 | C | 25.7 | 3.5 |
| 84 | D40CTB84 | 2517 | 13.663 | 13.372 | 2.5 | 1.75 | 4.25 | C | 31.6 | 3.5 |
| 95 | D40CTB95 | 2517 | 15.414 | 15.122 | 2.5 | 1.75 | 4.25 | C | 34.1 | 3.5 |
| 102 | D40CTB102 | 2517 | 16.529 | 16.236 | 2.5 | 1.75 | 4.25 | C | 36.8 | 3.5 |

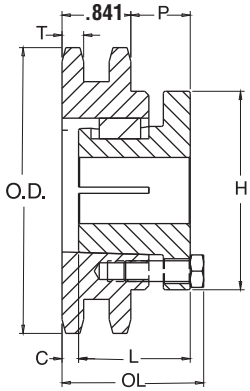
NOTE: Double 40 stock sprockets with 25 teeth or less have hardened teeth. As indicated by H suffix.

# No. 40-2
## ½" Pitch

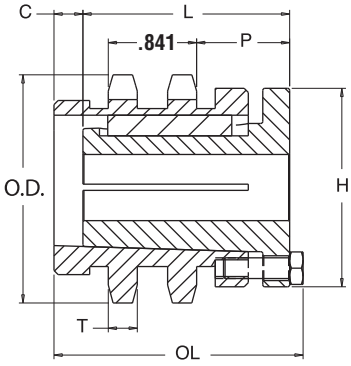
# All Steel Stock Sprockets




Type 11




Type 12




Type 16

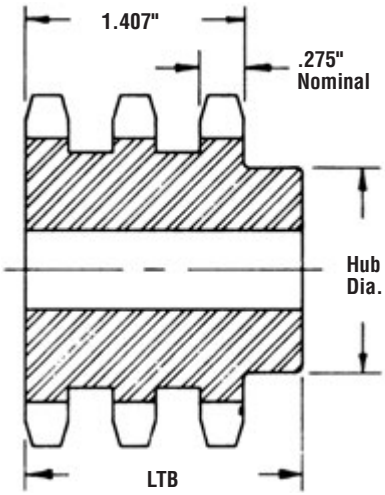
## Double - MST® Sprockets

| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 15 | D40H15H | H | 2.650 | 2.405 | 11 | 1.5 | 2.094 | 1.25 | .719 | 2.5 | 1.125 | 0.275 | 1.7 | 0.9 |
| 16 | D40H16H | H | 2.810 | 2.563 | 11 | 1.5 | 2.094 | 1.25 | .719 | 2.5 | 1.125 | 0.275 | 1.8 | 1.0 |
| 17 | D40H17H | H | 2.980 | 2.721 | 11 | 1.5 | 2.094 | 1.25 | .719 | 2.5 | 1.125 | 0.275 | 1.9 | 1.1 |
| 18 | D40P18H | P1 | 3.140 | 2.879 | 16 | 1.75 | 3.188 | 1.938 | 1 | 3 | 1.375 | 0.275 | 3.1 | 1.8 |
| 19 | D40P19H | P1 | 3.300 | 3.038 | 12 | 1.75 | 2.464 | 1.938 | .281 | 3 | 1.375 | 0.275 | 2.7 | 1.4 |
| 20 | D40P20H | P1 | 3.460 | 3.196 | 12 | 1.75 | 2.406 | 1.938 | .219 | 3 | 1.375 | 0.275 | 2.9 | 1.6 |
| 21 | D40P21H | P1 | 3.620 | 3.355 | 12 | 1.75 | 2.406 | 1.938 | .219 | 3 | 1.375 | 0.275 | 3.1 | 1.8 |
| 22 | D40P22H | P1 | 3.780 | 3.513 | 12 | 1.75 | 2.406 | 1.938 | .219 | 3 | 1.375 | 0.275 | 3.3 | 2.0 |
| 23 | D40P23H | P1 | 3.940 | 3.672 | 12 | 1.75 | 2.188 | 1.938 | | 3 | 1.094 | 0.275 | 3.3 | 2.0 |
| 24 | D40P24H | P1 | 4.100 | 3.831 | 12 | 1.75 | 2.188 | 1.938 | | 3 | 1.094 | 0.275 | 3.5 | 2.2 |
| 25 | D40P25H | P1 | 4.260 | 3.989 | 12 | 1.75 | 2.188 | 1.938 | | 3 | 1.094 | 0.275 | 3.8 | 2.5 |
| 26 | D40P26H | P1 | 4.420 | 4.148 | 12 | 1.75 | 2.188 | 1.938 | | 3 | 1.094 | 0.275 | 4.0 | 2.7 |
| 28 | D40P28H | P1 | 4.740 | 4.466 | 12 | 1.75 | 2.188 | 1.938 | | 3 | 1.094 | 0.275 | 4.4 | 3.1 |
| 30 | D40Q30H | Q1 | 5.060 | 4.783 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 7.7 | 4.2 |
| 32 | D40Q32H | Q1 | 5.380 | 5.101 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 8.8 | 5.3 |
| 35 | D40Q35H | Q1 | 5.860 | 5.578 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 9.6 | 6.1 |
| 36 | D40Q36H | Q1 | 6.020 | 5.737 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 10.0 | 6.5 |
| 40 | D40Q40H | Q1 | 6.650 | 6.373 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 11.4 | 7.9 |
| 42 | D40Q42H | Q1 | 6.970 | 6.691 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 12.4 | 8.9 |
| 45 | D40Q45H | Q1 | 7.450 | 7.168 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 13.6 | 10.1 |
| 48 | D40Q48H | Q1 | 7.930 | 7.645 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 15.3 | 11.8 |
| 52 | D40Q52H | Q1 | 8.570 | 8.281 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 16.1 | 12.6 |
| 54 | D40Q54H | Q1 | 8.890 | 8.599 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 17.8 | 14.3 |
| 60 | D40Q60H | Q1 | 9.840 | 9.554 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 20.9 | 17.4 |
| 68 | D40Q68 | Q1 | 11.120 | 10.826 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 25.0 | 21.5 |
| 72 | D40Q72 | Q1 | 11.750 | 11.463 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 28.5 | 25.0 |
| 76 | D40Q76 | Q1 | 12.390 | 12.099 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 30.4 | 26.9 |
| 84 | D40Q84 | Q1 | 13.660 | 13.372 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 37.6 | 34.1 |
| 95 | D40Q95 | Q1 | 15.410 | 15.122 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 45.5 | 42.0 |
| 96 | D40Q96 | Q1 | 15.570 | 15.281 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 47.6 | 44. |
| 102 | D40Q102 | Q1 | 16.530 | 16.236 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 52.0 | 48.5 |
| 112 | D40Q112 | Q1 | 18.120 | 17.828 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.656 | 0.275 | 64.5 | 61.0 |

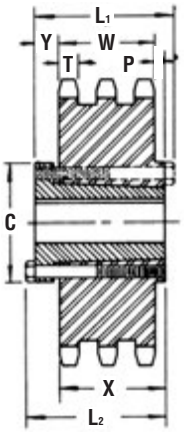
Sprockets with "H" suffix have hardened teeth.

# All Steel Stock Sprockets

# No. 40-3 ½" Pitch




Type B




QD — Type C

**Alteration Charges**

See current discount sheet for alteration charges.

## Triple - Type B

| No. Teeth | Catalog Number | OD | Type | Bore (inches) | | Hub (inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | Length Thru | |
| 11 | E40B11H | 2.000 | B | .5 | .75 | 1.438 ★ | 2.125 | 0.80 |
| 12 | E40B12H | 2.170 | B | .5 | .938 | 1.281 ★ | 2.125 | 1.10 |
| 13 | E40B13H | 2.330 | B | .5 | 1 | 1.5 | 2.125 | 1.24 |
| 14 | E40B14H | 2.490 | B | .5 | 1.125 | 1.344 | 2.125 | 1.50 |
| 15 | E40B15H | 2.650 | B | .5 | 1.25 | 1.406 | 2.125 | 1.76 |
| 16 | E40B16H | 2.810 | B | .625 | 1.375 | 2 | 2.125 | 2.04 |
| 17 | E40B17H | 2.980 | B | .625 | 1.438 | 2.125 | 2.125 | 2.34 |
| 18 | E40B18H | 3.140 | B | .625 | 1.5 | 2.313 | 2.125 | 2.72 |
| 19 | E40B19H | 3.300 | B | .625 | 1.75 | 2.5 | 2.125 | 3.10 |
| 20 | E40B20H | 3.460 | B | .625 | 1.875 | 2.625 | 2.25 | 3.72 |
| 21 | E40B21H | 3.620 | B | .625 | 1.875 | 2.75 | 2.25 | 4.06 |
| 22 | E40B22H | 3.780 | B | .625 | 1.875 | 2.875 | 2.25 | 4.52 |
| 23 | E40B23H | 3.940 | B | .625 | 2 | 3 | 2.25 | 4.96 |
| 24 | E40B24H | 4.100 | B | .625 | 2.25 | 3.25 | 2.25 | 5.64 |
| 25 | E40B25H | 4.260 | B | .625 | 2.25 | 3.25 | 2.25 | 6.02 |
| 26 | E40B26 | 4.420 | B | .625 | 2.25 | 3.25 | 2.25 | 6.36 |
| 30 | E40B30 | 5.060 | B | .875 | 2.25 | 3.25 | 2.25 | 7.84 |
| 35 | E40B35 | 5.860 | B | .875 | 2.25 | 3.25 | 2.25 | 10.30 |
| 36 | E40B36 | 6.020 | B | .938 | 2.5 | 3.75 | 2.375 | 11.72 |
| 42 | E40B42 | 6.970 | B | .938 | 2.5 | 3.75 | 2.375 | 15.36 |
| 48 | E40B48 | 7.930 | B | .938 | 2.5 | 3.75 | 2.375 | 19.36 |
| 52 | E40B52 | 8.570 | B | .938 | 2.5 | 3.75 | 2.375 | 22.44 |
| 60 | E40B60 | 9.840 | B | .938 | 2.5 | 3.75 | 2.375 | 30.02 |
| 68 | E40B68 | 11.120 | B | 1.188 | 2.75 | 4 | 2.625 | 38.44 |
| 72 | E40B72 | 11.750 | B | 1.188 | 2.75 | 4 | 2.625 | 42.46 |
| 76 | E40B76 | 12.390 | B | 1.188 | 2.75 | 4 | 2.625 | 46.90 |
| 84 | E40B84 | 13.660 | B | 1.188 | 2.75 | 4.25 | 2.75 | 57.30 |
| 95 | E40B95 | 15.410 | B | 1.188 | 2.75 | 4.25 | 2.75 | 62.18 |
| 102 | E40B102 | 16.530 | B | 1.188 | 2.75 | 4.25 | 2.75 | 68.40 |

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

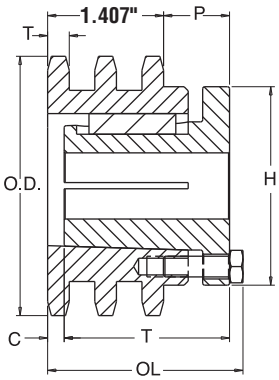
Note: Triple 40 stock sprockets with 25 teeth or less have hardened teeth. As indicated by H suffix.

## Triple - Type QD

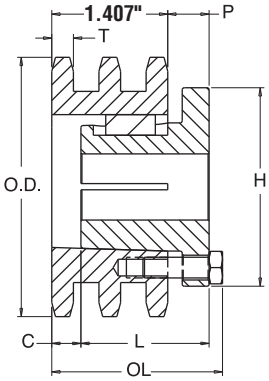
| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | X | T | W | With Hub | Rim Only |
| 36 | E40SK36 | SK | 6.020 | 5.737 | B | 2.625 | 2.125 | 2.125 | 3.875 | .469 | 1.25 | 0.275 | 1.407 | 8.16 | 6.16 |
| 42 | E40SK42 | SK | 6.970 | 6.691 | B | 2.625 | 2.125 | 2.125 | 3.875 | .469 | 1.25 | 0.275 | 1.407 | 11.92 | 9.52 |
| 48 | E40SK48 | SK | 7.930 | 7.645 | B | 2.625 | 2.125 | 2.125 | 3.875 | .469 | 1.25 | 0.275 | 1.407 | 15.13 | 13.16 |
| 52 | E40SK52 | SK | 8.570 | 8.281 | B | 2.625 | 2.125 | 2.125 | 3.875 | .469 | 1.25 | 0.275 | 1.407 | 18.08 | 16.08 |
| 60 | E40SK60 | SK | 9.840 | 9.554 | B | 2.625 | 2.125 | 2.125 | 3.875 | .469 | 1.25 | 0.275 | 1.407 | 24.60 | 22.60 |
| 68 | E40SF68 | SF | 11.120 | 10.826 | B | 2 .938 | 2.25 | 2.25 | 4.625 | .594 | 1.25 | 0.275 | 1.407 | 31.98 | 29.98 |
| 72 | E40SF72 | SF | 11.750 | 11.463 | B | 2 .938 | 2.25 | 2.25 | 4.625 | .594 | 1.25 | 0.275 | 1.407 | 37.40 | 34.40 |
| 76 | E40SF76 | SF | 12.390 | 12.099 | B | 2 .938 | 2.25 | 2.25 | 4.625 | .594 | 1.25 | 0.275 | 1.407 | 51.92 | 48.92 |
| 84 | E40SF84 | SF | 13.660 | 13.372 | B | 2 .938 | 2.25 | 2.25 | 4.625 | .594 | 1.25 | 0.275 | 1.407 | 56.70 | 53.78 |
| 95 | E40SF95 | SF | 15.410 | 15.122 | B | 2 .938 | 2.25 | 2.25 | 4.625 | .594 | 1.25 | 0.275 | 1.407 | 58.94 | 55.94 |
| 102 | E40SF102 | SF | 16.530 | 16.236 | B | 2 .938 | 2.25 | 2.25 | 4.625 | .594 | 1.25 | 0.275 | 1.407 | 62.24 | 59.24 |

# No. 40-3
## ½" Pitch

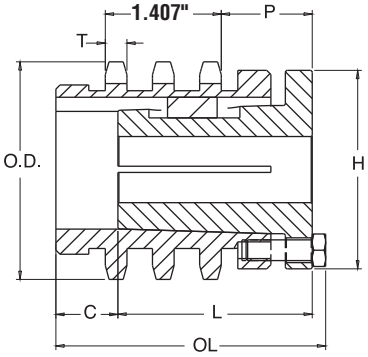
## MST® Sprocket




Type 11




Type 12




Type 27

## Triple - MST® Sprockets

| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 18 | E40P18H | P1 | 3.140 | 2.879 | 27 | 1.75 | 3.75 | 1.938 | 1.563 | 3 | 1.375 | 0.275 | 3.2 | 1.9 |
| 19 | E40P19H | P1 | 3.300 | 3.038 | 22 | 1.75 | 3.031 | 1.938 | .844 | 3 | 1.375 | 0.275 | 3.1 | 1.8 |
| 20 | E40P20H | P1 | 3.460 | 3.196 | 22 | 1.75 | 2.969 | 1.938 | .781 | 3 | 1.313 | 0.275 | 3.3 | 2.0 |
| 23 | E40P23H | P1 | 3.940 | 3.672 | 23 | 1.75 | 2.281 | 1.938 | .094 | 3 | .625 | 0.275 | 3.6 | 2.3 |
| 24 | E40P24H | P1 | 4.100 | 3.831 | 23 | 1.75 | 2.281 | 1.938 | .094 | 3 | .625 | 0.275 | 3.9 | 2.6 |
| 25 | E40P25H | P1 | 4.260 | 3.989 | 23 | 1.75 | 2.281 | 1.938 | .094 | 3 | .625 | 0.275 | 4.3 | 3.0 |
| 27 | E40P27H | P1 | 4.580 | 4.307 | 23 | 1.75 | 2.281 | 1.938 | .094 | 3 | .625 | 0.275 | 4.6 | 3.3 |
| 30 | E40Q30H | Q1 | 5.060 | 4.783 | 22 | 2.344 | 2.781 | 2.5 | | 4.125 | 1.094 | 0.275 | 8.0 | 4.5 |
| 35 | E40Q35H | Q1 | 5.860 | 5.578 | 22 | 2.344 | 2.781 | 2.5 | | 4.125 | 1.094 | 0.275 | 10.4 | 6.9 |
| 36 | E40Q36H | Q1 | 6.020 | 5.737 | 22 | 2.344 | 2.781 | 2.5 | | 4.125 | 1.094 | 0.275 | 11.1 | 7.6 |
| 42 | E40Q42H | Q1 | 6.970 | 6.691 | 22 | 2.344 | 2.781 | 2.5 | | 4.125 | 1.094 | 0.275 | 14.6 | 11.1 |
| 48 | E40Q48H | Q1 | 7.930 | 7.645 | 22 | 2.344 | 2.781 | 2.5 | | 4.125 | 1.094 | 0.275 | 18.7 | 15.2 |
| 52 | E40Q52H | Q1 | 8.570 | 8.281 | 22 | 2.344 | 2.781 | 2.5 | | 4.125 | 1.094 | 0.275 | 22.2 | 18.7 |
| 54 | E40Q54H | Q1 | 8.890 | 8.599 | 22 | 2.344 | 2.781 | 2.5 | | 4.125 | 1.094 | 0.275 | 23.4 | 19.9 |
| 60 | E40Q60H | Q1 | 9.840 | 9.554 | 22 | 2.344 | 2.781 | 2.5 | | 4.125 | 1.094 | 0.275 | 28.8 | 25.3 |
| 68 | E40Q68 | Q1 | 11.120 | 10.826 | 22 | 2.344 | 2.781 | 2.5 | | 4.125 | 1.094 | 0.275 | 37.0 | 33.5 |
| 72 | E40Q72 | Q1 | 11.750 | 11.463 | 22 | 2.344 | 2.781 | 2.5 | | 4.125 | 1.094 | 0.275 | 41.4 | 37.9 |
| 76 | E40Q76 | Q1 | 12.390 | 12.099 | 22 | 2.344 | 2.781 | 2.5 | | 4.125 | 1.094 | 0.275 | 46.0 | 42.5 |
| 84 | E40Q84 | Q1 | 13.660 | 13.372 | 22 | 2.344 | 2.781 | 2.5 | | 4.125 | 1.094 | 0.275 | 55.9 | 52.4 |
| 95 | E40Q95 | Q1 | 15.410 | 15.122 | 22 | 2.344 | 2.781 | 2.5 | | 4.125 | 1.094 | 0.275 | 71.4 | 67.9 |
| 102 | E40Q102 | Q1 | 16.530 | 16.236 | 22 | 2.344 | 2.781 | 2.5 | | 4.125 | 1.094 | 0.275 | 82.0 | 78.5 |

Sprockets with "H" suffix have hardened teeth.

# All Steel Stock Sprockets

# No. 50 5/8" Pitch

## Single - Type BS — 2 Setscrews — Bored-To-Size

| No. Teeth | Catalog Number | OD | LTB | Wt. lb (Approx.) | Stock Finished Bores Includes Keyway and 2 Setscrews | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 50BS9 | 2.090 | 1 | 0.30 | .625 | .75 | | | | | | | | | | | |
| 10 | 50BS10 | 2.300 | 1 | 0.30 | .625 | .75 | .875 | ★ 1 | | | | | | | | | |
| 11 | 50BS11 | 2.500 | 1 | 0.60 | .625 | .75 | .875 | 1 | | | | | | | | | |
| 12 | 50BS12 | 2.710 | 1 | 0.70 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | | | | |
| 13 | 50BS13 | 2.910 | 1 | 0.80 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | | | | |
| 14 | 50BS14 | 3.110 | 1 | 1.00 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | | | | |
| 15 | 50BS15 | 3.320 | 1 | 1.20 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | | |
| 16 | 50BS16 | 3.520 | 1 | 1.45 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | | |
| 17 | 50BS17 | 3.720 | 1 | 1.60 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | | |
| 18 | 50BS18 | 3.920 | 1 | 1.90 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | | |
| 19 | 50BS19 | 4.120 | 1 | 2.00 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | | |
| 20 | 50BS20 | 4.320 | 1 | 2.10 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | | |
| 21 | 50BS21 | 4.520 | 1 | 2.25 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | | |
| 22 | 50BS22 | 4.720 | 1 | 2.40 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | | |
| 23 | 50BS23 | 4.920 | 1 | 2.50 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | | |
| 24 | 50BS24 | 5.120 | 1.25 | 3.00 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | | |
| 25 | 50BS25 | 5.320 | 1.25 | 3.10 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | | |
| 26 | 50BS26 | 5.520 | 1.25 | 3.30 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | | |
| 27 | 50BS27 | 5.720 | 1.25 | 3.46 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | | |
| 28 | 50BS28 | 5.920 | 1.25 | 3.60 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | | |
| 29 | 50BS29 | 6.120 | 1.25 | 3.78 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | | |
| 30 | 50BS30 | 6.320 | 1.25 | 3.90 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | | |
| 31 | 50BS31 | 6.520 | 1.25 | 4.46 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 32 | 50BS32 | 6.720 | 1.25 | 4.70 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 33 | 50BS33 | 6.920 | 1.25 | 4.92 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 34 | 50BS34 | 7.120 | 1.25 | 5.06 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 35 | 50BS35 | 7.320 | 1.25 | 5.30 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 36 | 50BS36 | 7.520 | 1.25 | 5.50 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 37 | 50BS37 | 7.720 | 1.25 | 5.62 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 38 | 50BS38 | 7.920 | 1.25 | 5.80 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 39 | 50BS39 | 8.120 | 1.25 | 6.02 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 40 | 50BS40 | 8.320 | 1.25 | 6.20 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 41 | 50BS41 | 8.520 | 1.25 | 6.45 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 42 | 50BS42 | 8.720 | 1.25 | 6.68 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 43 | 50BS43 | 8.910 | 1.25 | 6.99 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 44 | 50BS44 | 9.110 | 1.25 | 7.30 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 45 | 50BS45 | 9.310 | 1.25 | 8.00 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 46 | 50BS46 | 9.510 | 1.25 | 8.51 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 47 | 50BS47 | 9.710 | 1.25 | 8.76 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 48 | 50BS48 | 9.910 | 1.25 | 9.03 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 49 | 50BS49 | 10.110 | 1.25 | 9.33 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 50 | 50BS50 | 10.310 | 1.25 | 9.63 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 51 | 50BS51 | 10.510 | 1.25 | 9.81 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 52 | 50BS52 | 10.710 | 1.25 | 9.99 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 53 | 50BS53 | 10.910 | 1.25 | 10.37 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 54 | 50BS54 | 11.110 | 1.25 | 10.75 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 55 | 50BS55 | 11.310 | 1.25 | 11.08 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 56 | 50BS56 | 11.500 | 1.25 | 11.41 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 57 | 50BS57 | 11.700 | 1.25 | 11.75 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 58 | 50BS58 | 11.900 | 1.25 | 12.08 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 59 | 50BS59 | 12.100 | 1.25 | 12.41 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 60 | 50BS60 | 12.300 | 1.25 | 13.50 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 70 | 50BS70 | 14.290 | 1.75 | 17.81 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 72 | 50BS72 | 14.690 | 1.75 | 19.13 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 80 | 50BS80 | 16.280 | 1.75 | 24.39 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 84 | 50BS84 | 17.080 | 1.75 | 25.15 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 96 | 50BS96 | 19.470 | 1.75 | 32.57 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |
| 112 | 50BS112 | 22.650 | 1.75 | 41.65 | | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | 1.75 | 1.969 |

★ Keyway with Setscrew at 90°.

Hub diameters vary to suit different bore sizes.

KEYWAY IS ON CENTER LINE OF TOOTH.

# No. 50
## 5/8" Pitch

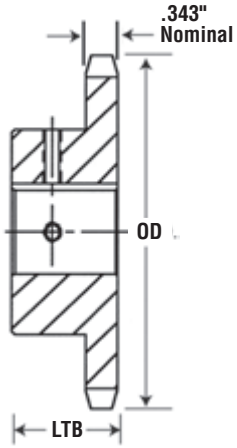
# MST® Sprocket

SABER TOOTH®

## No. 50 — Hardened Teeth — 2 Setscrews — Bored-To-Size

| No. Teeth | Catalog Number | OD | LTB | Wt. lb | Stock Finished Bores Includes Keyway and 2 Setscrews | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 50BS9HT | 2.09 | 1 | 0.3 | .625 | .75 | | | | | | | | | |
| 10 | 50BS10HT | 2.30 | 1 | 0.3 | .625 | .75 | .875 | ★ 1 | | | | | | | |
| 11 | 50BS11HT | 2.50 | 1 | 0.6 | .625 | .75 | .875 | 1 | | | | | | | |
| 12 | 50BS12HT | 2.71 | 1 | 0.7 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | | |
| 13 | 50BS13HT | 2.91 | 1 | 0.8 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | | |
| 14 | 50BS14HT | 3.11 | 1 | 1.0 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | | |
| 15 | 50BS15HT | 3.32 | 1 | 1.2 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | |
| 16 | 50BS16HT | 3.52 | 1 | 1.5 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 |
| 17 | 50BS17HT | 3.72 | 1 | 1.7 | .625 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 |
| 18 | 50BS18HT | 3.92 | 1 | 2.0 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 |
| 19 | 50BS19HT | 4.12 | 1 | 2.2 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 |
| 20 | 50BS20HT | 4.32 | 1 | 2.5 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 |
| 21 | 50BS21HT | 4.52 | 1 | 2.6 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | |
| 22 | 50BS22HT | 4.72 | 1 | 2.8 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | |
| 23 | 50BS23HT | 4.92 | 1 | 3.2 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | |
| 24 | 50BS24HT | 5.12 | 1.25 | 4.0 | | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | |

★ Setscrews at 90° and 180° to key.
NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.



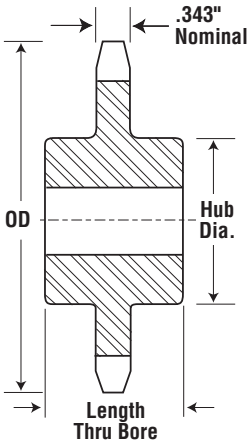

Type BS

Martin stock hardened teeth sprockets afford longer chain and sprocket life. Hardened teeth on the smaller sprocket of a roller chain drive are recommended if the drive ratio is four to one or greater or if the smaller sprocket has 24 teeth or less and is running at a speed of over 600 RPM

## Single - Type C — Steel

| No. Teeth | Catalog Number | OD | Bore (Inches) | | Hub (Inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|
| | | | Stock | Rec. Max. | Diameter | Length | |
| 12 | 50C12 | 2.710 | .625 | 1.25 | 2 ★ | 1.625 | 1.25 |
| 13 | 50C13 | 2.910 | .625 | 1.313 | 1.875 | 1.625 | 1.47 |
| 14 | 50C14 | 3.110 | .625 | 1.438 | 2.125 | 1.625 | 1.69 |
| 15 | 50C15 | 3.320 | .625 | 1.5 | 2.375 | 1.625 | 1.94 |
| 16 | 50C16 | 3.520 | .625 | 1.75 | 2.5 | 1.625 | 2.42 |
| 17 | 50C17 | 3.720 | .625 | 1.875 | 2.734 | 1.625 | 2.75 |
| 18 | 50C18 | 3.920 | .625 | 1.875 | 2.469 | 1.625 | 3.25 |
| 19 | 50C19 | 4.120 | .75 | 2 | 3.078 | 1.625 | 3.87 |
| 20 | 50C20 | 4.320 | .75 | 2 | 3 | 1.625 | 4.40 |

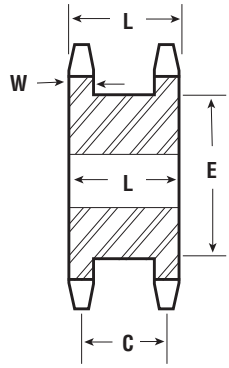
★ Has recessed groove in hub for chain clearance.



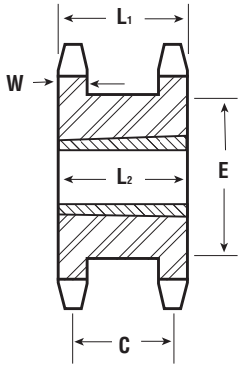

Type C

# All Steel Stock Sprockets

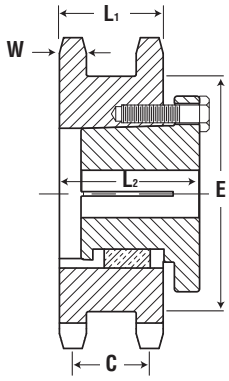
# No. 50 5/8" Pitch




Type A




Taper Bush
Type A




MST® Type B

## Double Single - Type A — Steel

| No. Teeth | Catalog Number | Diameter | | Type | Min. Bore | Max. Bore | Dimensions | | | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OD | PD | | | | L | C | E | W (Nom.) | |
| 15 | DS50A15 | 3.320 | 3.006 | A | .625 | 1.5 | 1.656 | 1.313 | 2.375 | .343 | 2.1 |
| 16 | DS50A16 | 3.520 | 3.204 | A | .625 | 1.688 | 1.656 | 1.313 | 2.484 | .343 | 2.4 |
| 17 | DS50A17 | 3.720 | 3.401 | A | .625 | 1.75 | 1.656 | 1.313 | 2.688 | .343 | 2.9 |
| 18 | DS50A18 | 3.920 | 3.599 | A | .625 | 1.875 | 1.656 | 1.313 | 2.891 | .343 | 3.3 |
| 19 | DS50A19 | 4.120 | 3.797 | A | .625 | 2.063 | 1.656 | 1.313 | 3.078 | .343 | 3.7 |
| 20 | DS50A20 | 4.320 | 3.995 | A | .625 | 2.25 | 1.656 | 1.313 | 3.281 | .343 | 4.2 |
| 21 | DS50A21 | 4.520 | 4.194 | A | .625 | 2.25 | 1.656 | 1.313 | 3.484 | .343 | 4.8 |
| 22 | DS50A22 | 4.720 | 4.392 | A | .625 | 2.438 | 1.656 | 1.313 | 3.688 | .343 | 5.3 |
| 23 | DS50A23 | 4.920 | 4.590 | A | .625 | 2.625 | 1.656 | 1.313 | 3.891 | .343 | 5.8 |
| 24 | DS50A24 | 5.120 | 4.788 | A | .625 | 2.75 | 1.656 | 1.313 | 4.078 | .343 | 6.3 |

## Double Single - Taper Bushed— Steel

| No. Teeth | Catalog Number | Bushing Size | Diameter | | Min. Bore | Max. Bore | Type | Dimensions | | | | | Wt. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | | $L_1$ | C | E | $L_2$ | W Nom. | Rim Only |
| 16 | DS50ATB16H | 1215 | 3.520 | 3.204 | .5 | 1.625 | A | 1.656 | 1.313 | 2.484 | 1.5 | .343 | 1.5 |
| 17 | DS50ATB17H | 1615 | 3.720 | 3.401 | .5 | 1.625 | A | 1.656 | 1.313 | 2.688 | 1.5 | .343 | 1.8 |
| 18 | DS50ATB18H | 1615 | 3.920 | 3.599 | .5 | 1.625 | A | 1.656 | 1.313 | 2.891 | 1.5 | .343 | 2.2 |
| 19 | DS50ATB19H | 1615 | 4.120 | 3.797 | .5 | 1.625 | A | 1.656 | 1.313 | 3.078 | 1.5 | .343 | 2.7 |
| 20 | DS50ATB20H | 1615 | 4.320 | 3.995 | .5 | 1.625 | A | 1.656 | 1.313 | 3.281 | 1.5 | .343 | 5.0 |
| 21 | DS50ATB21H | 2012 | 4.520 | 4.194 | .5 | 2 | A | 1.656 | 1.313 | 3.484 | 1.25 | .343 | 3.3 |
| 23 | DS50ATB23H | 2012 | 4.920 | 4.590 | .5 | 2 | A | 1.656 | 1.313 | 3.891 | 1.25 | .343 | 3.7 |
| 24 | DS50ATB24H | 2012 | 5.120 | 4.788 | .5 | 2 | A | 1.656 | 1.313 | 4.078 | 1.25 | .343 | 4.1 |

Sprockets with "H" suffix have hardened teeth.

## Double Single - MST®— Steel

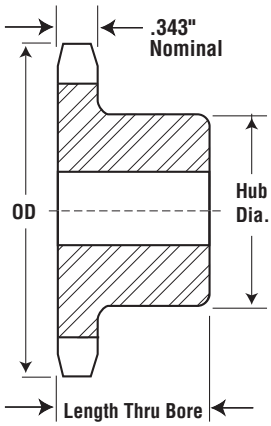
| No. Teeth | Catalog Number | Bushing Size | Diameter | | Min. Bore | Max. Bore | Type | Dimensions | | | | | Wt. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | | $L_1$ | C | E | $L_2$ | W Nom. | Rim Only |
| 17 | DS50H17H | H | 3.720 | 3.401 | .375 | 1.5 | BH | 1.656 | 1.313 | 2.688 | 2.281 | .343 | 2.3 |
| 19 | DS50P19H | P1 | 4.120 | 3.797 | .5 | 1.75 | B | 1.656 | 1.313 | 3.078 | 2.531 | .343 | 2.8 |
| 21 | DS50P21H | P1 | 4.520 | 4.194 | .5 | 1.75 | B | 1.656 | 1.313 | 3.484 | 2.531 | .343 | 3.8 |
| 23 | DS50P23H | P1 | 4.920 | 4.590 | .5 | 1.75 | B | 1.656 | 1.313 | 3.891 | 2.531 | .343 | 4.6 |
| 24 | DS50P24H | P1 | 5.120 | 4.788 | .5 | 1.75 | B | 1.656 | 1.313 | 4.078 | 2.531 | .343 | 5.0 |

Sprockets with "H" suffix have hardened teeth.

# No. 50
## 5/8" Pitch

# Stainless Steel Stock Sprockets

Stainless Steel




Type B

**Alteration Charges**

See current discount sheet for alteration charges.

## Single - Type B — Stainless

## Single - Type A

| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 8 | 50B8SS | 1.884 | B | .625 | .625 | 1.125 | 1 | 0.25 | | | | |
| 9 | 50B9SS | 2.093 | B | .625 | .75 | 1.375 | 1 | 0.36 | | | | |
| 10 | 50B10SS | 2.300 | B | .625 | .875 | 1.563 ★ | 1 | 0.50 | | | | |
| 11 | 50B11SS | 2.500 | B | .625 | 1 | 1.75 ★ | 1 | 0.60 | | | | |
| 12 | 50B12SS | 2.710 | B | .625 | 1.25 | 1.984 ★ | 1 | 0.70 | | | | |
| 13 | 50B13SS | 2.910 | B | .625 | 1.313 | 1.875 | 1 | 0.80 | A | 50A13SS | .625 | 0.42 |
| 14 | 50B14SS | 3.110 | B | .625 | 1.438 | 2.125 | 1 | 1.00 | A | 50A14SS | .625 | 0.50 |
| 15 | 50B15SS | 3.320 | B | .625 | 1.5 | 2.375 | 1 | 1.30 | A | 50A15SS | .625 | 0.54 |
| 16 | 50B16SS | 3.520 | B | .625 | 1.75 | 2.5 | 1 | 1.50 | A | 50A16SS | .625 | 0.68 |
| 17 | 50B17SS | 3.720 | B | .625 | 1.875 | 2.688 | 1 | 1.80 | A | 50A17SS | .625 | 0.76 |
| 18 | 50B18SS | 3.920 | B | .625 | 1.875 | 2.875 | 1 | 2.00 | A | 50A18SS | .625 | 0.86 |
| 19 | 50B19SS | 4.120 | B | .625 | 1.75 | 2.5 | 1 | 2.23 | A | 50A19SS | .625 | 0.94 |
| 20 | 50B20SS | 4.320 | B | .75 | 1.75 | 3 | 1 | 2.30 | A | 50A20SS | .75 | 1.06 |
| 21 | 50B21SS | 4.520 | B | .75 | 2 | 3 | 1 | 2.42 | A | 50A21SS | .719 | 1.40 |
| 22 | 50B22SS | 4.720 | B | .75 | 2 | 3 | 1 | 2.54 | A | 50A22SS | .719 | 1.60 |
| 23 | 50B23SS | 4.920 | B | .75 | 2 | 3 | 1 | 2.67 | A | 50A23SS | .719 | 1.70 |
| 24 | 50B24SS | 5.120 | B | .75 | 2 | 3 | 1.25 | 3.38 | A | 50A24SS | .719 | 1.80 |
| 25 | 50B25SS | 5.320 | B | .75 | 2 | 3 | 1.25 | 3.42 | A | 50A25SS | .719 | 1.90 |
| 26 | 50B26SS | 5.520 | B | .75 | 2 | 3 | 1.25 | 3.57 | A | 50A26SS | .719 | 1.70 |
| 28 | 50B28SS | 5.920 | B | .75 | 2 | 3 | 1.25 | 3.88 | A | 50A28SS | .719 | 2.50 |
| 30 | 50B30SS | 6.320 | B | .75 | 2.25 | 3.25 | 1.25 | 4.54 | A | 50A30SS | .719 | 2.70 |
| 32 | 50B32SS | 6.721 | B | .75 | 2.25 | 3.25 | 1.25 | 4.96 | A | 50A32SS | .719 | 2.72 |
| 35 | 50B35SS | 7.320 | B | .75 | 2.25 | 3.25 | 1.25 | 5.44 | A | 50A35SS | .719 | 3.70 |
| 36 | 50B36SS | 7.519 | B | .75 | 2.25 | 3.25 | 1.25 | 5.64 | A | 50A36SS | .719 | 3.82 |
| 40 | 50B40SS | 8.320 | B | .75 | 2.25 | 3.25 | 1.25 | 6.50 | A | 50A40SS | .719 | 4.70 |
| 45 | 50B45SS | 9.310 | B | .75 | 2.5 | 3.75 | 1.25 | 8.50 | A | 50A45SS | .719 | 6.00 |
| 48 | 50B48SS | 9.911 | B | 1 | 2.5 | 3.75 | 1.25 | 9.28 | A | 50A46SS | .938 | 6.58 |
| 54 | 50B54SS | 11.106 | B | 1 | 2.5 | 3.75 | 1.25 | 11.00 | A | 50A54SS | .938 | 8.30 |
| 60 | 50B60SS | 12.300 | B | 1 | 2.5 | 3.75 | 1.25 | 14.00 | A | 50A60SS | .938 | 10.80 |

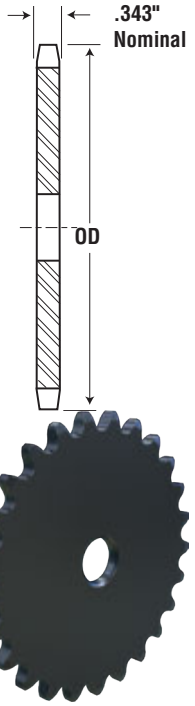
★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

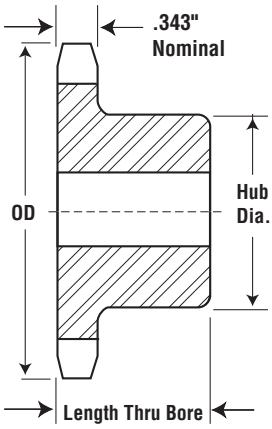
Sprockets altered at factory (rebored with keyway and setscrew added) will be supplied with stainless setscrew.

# All Steel Stock Sprockets

# No. 50 5/8" Pitch




Type A



Type B

**Alteration Charges**

See current discount sheet for alteration charges.

## Single - Type B / Single - Type A

| No. Teeth | Catalog Number | OD | Type | Bore Stock | Bore Rec. Max | Hub Dia. | Hub LTB | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 50B8 | 1.880 | B | .625 | .625 | 1.125 ★ | 1 | 0.25 | | | | |
| 9 | 50B9 | 2.090 | B | .625 | .75 | 1.3755 ★ | 1 | 0.36 | | | | |
| 10 | 50B10 | 2.300 | B | .625 | .875 | 1.5635 ★ | 1 | 0.48 | | | | |
| 11 | 50B11 | 2.500 | B | .625 | 1 | 1.755 ★ | 1 | 0.64 | | | | |
| 12 | 50B12 | 2.710 | B | .625 | 1.25 | 1.9845 ★ | 1 | 0.83 | A | 50A12 | .625 | 0.34 |
| 13 | 50B13 | 2.910 | B | .625 | 1.313 | 1.875 | 1 | 0.88 | A | 50A13 | .625 | 0.42 |
| 14 | 50B14 | 3.110 | B | .625 | 1.438 | 2.125 | 1 | 1.13 | A | 50A14 | .625 | 0.50 |
| 15 | 50B15 | 3.320 | B | .625 | 1.5 | 2.375 | 1 | 1.34 | A | 50A15 | .625 | 0.54 |
| 16 | 50B16 | 3.520 | B | .625 | 1.75 | 2.5 | 1 | 1.51 | A | 50A16 | .625 | 0.68 |
| 17 | 50B17 | 3.720 | B | .625 | 1.875 | 2.625 | 1 | 1.74 | A | 50A17 | .625 | 0.76 |
| 18 | 50B18 | 3.920 | B | .625 | 1.875 | 2.875 | 1 | 2.00 | A | 50A18 | .625 | 0.86 |
| 19 | 50B19 | 4.120 | B | .625 | 2 | 3 | 1 | 2.22 | A | 50A19 | .625 | 0.94 |
| 20 | 50B20 | 4.320 | B | .75 | 2 | 3 | 1 | 2.28 | A | 50A20 | .75 | 1.06 |
| 21 | 50B21 | 4.520 | B | .75 | 2 | 3 | 1 | 2.40 | A | 50A21 | .75 | 1.12 |
| 22 | 50B22 | 4.720 | B | .75 | 2 | 3 | 1 | 2.56 | A | 50A22 | .75 | 1.30 |
| 23 | 50B23 | 4.920 | B | .75 | 2 | 3 | 1 | 2.66 | A | 50A23 | .75 | 1.44 |
| 24 | 50B24 | 5.120 | B | .75 | 2 | 3 | 1.25 | 3.30 | A | 50A24 | .719 | 1.50 |
| 25 | 50B25 | 5.320 | B | .75 | 2 | 3 | 1.25 | 3.40 | A | 50A25 | .719 | 1.62 |
| 26 | 50B26 | 5.520 | B | .75 | 2 | 3 | 1.25 | 3.44 | A | 50A26 | .719 | 1.72 |
| 27 | 50B27 | 5.720 | B | .75 | 2 | 3 | 1.25 | 3.74 | A | 50A27 | .719 | 1.96 |
| 28 | 50B28 | 5.920 | B | .75 | 2 | 3 | 1.25 | 3.80 | A | 50A28 | .719 | 2.04 |
| 29 | 50B29 | 6.120 | B | .75 | 2 | 3 | 1.25 | 4.06 | A | 50A29 | .719 | 2.36 |
| 30 | 50B30 | 6.320 | B | .75 | 2.25 | 3.25 | 1.25 | 4.56 | A | 50A30 | .719 | 2.54 |
| 31 | 50B31 | 6.520 | B | .75 | 2.25 | 3.25 | 1.25 | 4.74 | A | 50A31 | .719 | 2.80 |
| 32 | 50B32 | 6.720 | B | .75 | 2.25 | 3.25 | 1.25 | 4.96 | A | 50A32 | .719 | 2.72 |
| 33 | 50B33 | 6.920 | B | .75 | 2.25 | 3.25 | 1.25 | 5.20 | A | 50A33 | .719 | 3.14 |
| 34 | 50B34 | 7.120 | B | .75 | 2.25 | 3.25 | 1.25 | 5.14 | A | 50A34 | .719 | 3.20 |
| 35 | 50B35 | 7.320 | B | .75 | 2.25 | 3.25 | 1.25 | 5.44 | A | 50A35 | .719 | 3.34 |
| 36 | 50B36 | 7.520 | B | .75 | 2.25 | 3.25 | 1.25 | 5.64 | A | 50A36 | .719 | 3.82 |
| 37 | 50B37 | 7.720 | B | .75 | 2.25 | 3.25 | 1.25 | 5.90 | A | 50A37 | .719 | 3.98 |
| 38 | 50B38 | 7.920 | B | .75 | 2.25 | 3.25 | 1.25 | 6.08 | A | 50A38 | .719 | 4.14 |
| 39 | 50B39 | 8.120 | B | .75 | 2.25 | 3.25 | 1.25 | 6.30 | A | 50A39 | .719 | 4.42 |
| 40 | 50B40 | 8.320 | B | .75 | 2.25 | 3.25 | 1.25 | 6.50 | A | 50A40 | .719 | 4.46 |
| 41 | 50B41 | 8.520 | B | .75 | 2.25 | 3.25 | 1.25 | 6.64 | A | 50A41 | .719 | 4.86 |
| 42 | 50B42 | 8.720 | B | .75 | 2.25 | 3.25 | 1.25 | 6.96 | A | 50A42 | .719 | 4.98 |
| 43 | 50B43 | 8.910 | B | .75 | 2.25 | 3.25 | 1.25 | 7.06 | A | 50A43 | .719 | 5.24 |
| 44 | 50B44 | 9.110 | B | .75 | 2.25 | 3.25 | 1.25 | 7.58 | A | 50A44 | .719 | 5.42 |
| 45 | 50B45 | 9.310 | B | .75 | 2.5 | 3.75 | 1.25 | 8.58 | A | 50A45 | .719 | 5.92 |
| 46 | 50B46 | 9.510 | B | 1 | 2.5 | 3.75 | 1.25 | 8.22 | A | 50A46 | .938 | 6.42 |
| 47 | 50B47 | 9.710 | B | 1 | 2.5 | 3.75 | 1.25 | 8.48 | A | 50A47 | .938 | 6.50 |
| 48 | 50B48 | 9.910 | B | 1 | 2.5 | 3.75 | 1.25 | 9.28 | A | 50A48 | .938 | 6.58 |
| 49 | 50B49 | 10.110 | B | 1 | 2.5 | 3.75 | 1.25 | 9.22 | A | 50A49 | .938 | 7.06 |
| 50 | 50B50 | 10.310 | B | 1 | 2.5 | 3.75 | 1.25 | 9.88 | A | 50A50 | .938 | 7.10 |
| 51 | 50B51 | 10.510 | B | 1 | 2.5 | 3.75 | 1.25 | 9.70 | A | 50A51 | .938 | 7.32 |
| 52 | 50B52 | 10.710 | B | 1 | 2.5 | 3.75 | 1.25 | 10.24 | A | 50A52 | .938 | 7.98 |
| 53 | 50B53 | 10.910 | B | 1 | 2.5 | 3.75 | 1.25 | 10.48 | A | 50A53 | .938 | 8.08 |
| 54 | 50B54 | 11.110 | B | 1 | 2.5 | 3.75 | 1.25 | 11.00 | A | 50A54 | .938 | 8.30 |
| 55 | 50B55 | 11.310 | B | 1 | 2.5 | 3.75 | 1.25 | 10.93 | A | 50A55 | .938 | 8.56 |
| 56 | 50B56 | 11.500 | B | 1 | 2.5 | 3.75 | 1.25 | 11.50 | A | 50A56 | .938 | 8.90 |
| 57 | 50B57 | 11.700 | B | 1 | 2.5 | 3.75 | 1.25 | 12.00 | A | 50A57 | .938 | 9.38 |
| 58 | 50B58 | 11.900 | B | 1 | 2.5 | 3.75 | 1.25 | 11.82 | A | 50A58 | .938 | 10.30 |
| 59 | 50B59 | 12.100 | B | 1 | 2.5 | 3.75 | 1.25 | 12.32 | A | 50A59 | .938 | 10.50 |
| 60 | 50B60 | 12.300 | B | 1 | 2.5 | 3.75 | 1.25 | 13.00 | A | 50A60 | .938 | 10.80 |
| 70 | 50B70 | 14.290 | B | 1 | 2.5 | 3.75 | 1.75 | 18.16 | A | 50A70 | .938 | 14.00 |
| 72 | 50B72 | 14.690 | B | 1 | 2.5 | 3.75 | 1.75 | 19.48 | A | 50A72 | .938 | 15.24 |
| 76 | 50B76 | 15.486 | B | 1 | 2.5 | 3.75 | 1.75 | 21.00 | A | 50A76 | .938 | 20.08 |
| 80 | 50B80 | 16.280 | B | 1 | 2.75 | 4.25 | 1.75 | 24.74 | A | 50A80 | .938 | 21.00 |
| 84 | 50B84 | 17.080 | B | 1 | 2.75 | 4.25 | 1.75 | 25.50 | A | 50A84 | .938 | 22.08 |
| 95 | 50B95 | 19.270 | B | 1 | 2.75 | 4.25 | 1.75 | 32.00 | A | 50A95 | .938 | 27.00 |
| 96 | 50B96 | 19.470 | B | 1 | 2.75 | 4.25 | 1.75 | 32.92 | A | 50A96 | .938 | 27.40 |
| 112 | 50B112 | 22.650 | B | 1 | 2.75 | 4.25 | 1.75 | 42.00 | A | 50A112 | .938 | 37.70 |

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

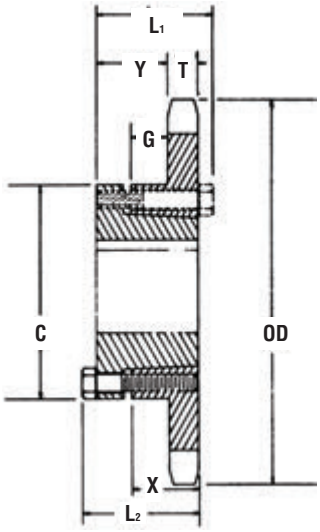
# No. 50
## 5/8" Pitch

# All Steel Stock Sprockets

## Single - Type QD with Hardened Teeth

| No. Teeth | Catalog Number |
|---|---|
| 12 | 50JA12H |
| 13 | 50JA13H |
| 14 | 50JA14H |
| 15 | 50JA15H |
| 16 | 50JA16H |
| 17 | 50SH17H |
| 18 | 50SH18H |
| 19 | 50SH19H |
| 20 | 50SDS20H |
| 21 | 50SDS21H |
| 22 | 50SDS22H |
| 23 | 50SDS23H |
| 24 | 50SDS24H |
| 25 | 50SDS25H |
| 26 | 50SDS26H |
| 27 | 50SDS27H |
| 28 | 50SDS28H |
| 30 | 50SDS30H |

SABER TOOTH




QD — Type B

## Single - Type QD

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | G | X | T | With Hub | Rim Only |
| 12 | 50JA12 | JA | 2.710 | 2.415 | B | 1.25 | 1.125 | 1.125 | 2.063 | .656 | .281 | .625 | 0.343 | 1.24 | 0.34 |
| 13 | 50JA13 | JA | 2.910 | 2.612 | B | 1.25 | 1.125 | 1.125 | 2.063 | .656 | .281 | .625 | 0.343 | 1.30 | 0.40 |
| 14 | 50JA14 | JA | 3.110 | 2.803 | B | 1.25 | 1.125 | 1.125 | 2.063 | .656 | .281 | .625 | 0.343 | 1.45 | 0.52 |
| 15 | 50JA15 | JA | 3.320 | 3.006 | B | 1.25 | 1.125 | 1.125 | 2.063 | .656 | .281 | .625 | 0.343 | 1.50 | 0.60 |
| 16 | 50JA16 | JA | 3.520 | 3.204 | B | 1.25 | 1.125 | 1.125 | 2.063 | .656 | .281 | .625 | 0.343 | 1.58 | 0.68 |
| 17 | 50SH17 | SH | 3.720 | 3.401 | B | 1.625 | 1.438 | 1.438 | 2.688 | .906 | .469 | .813 | 0.343 | 1.84 | 0.84 |
| 18 | 50SH18 | SH | 3.920 | 3.599 | B | 1.625 | 1.438 | 1.438 | 2.688 | .906 | .469 | .813 | 0.343 | 2.04 | 1.04 |
| 19 | 50SH19 | SH | 4.120 | 3.797 | B | 1.625 | 1.438 | 1.438 | 2.688 | .906 | .469 | .813 | 0.343 | 2.24 | 1.24 |
| 20 | 50SDS20 | SDS | 4.320 | 3.995 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 2.20 | 1.20 |
| 21 | 50SDS21 | SDS | 4.520 | 4.194 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 2.32 | 1.32 |
| 22 | 50SDS22 | SDS | 4.720 | 4.392 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 2.48 | 1.42 |
| 23 | 50SDS23 | SDS | 4.920 | 4.590 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 2.58 | 1.58 |
| 24 | 50SDS24 | SDS | 5.120 | 4.788 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 2.70 | 1.70 |
| 25 | 50SDS25 | SDS | 5.320 | 4.987 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 2.86 | 1.86 |
| 26 | 50SDS26 | SDS | 5.520 | 5.185 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 3.00 | 2.00 |
| 27 | 50SDS27 | SDS | 5.720 | 5.384 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 3.12 | 2.12 |
| 28 | 50SDS28 | SDS | 5.920 | 5.582 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 3.32 | 2.32 |
| 30 | 50SDS30 | SDS | 6.320 | 5.979 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 3.64 | 2.64 |
| 32 | 50SDS32 | SDS | 6.720 | 6.376 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 3.98 | 2.98 |
| 35 | 50SDS35 | SDS | 7.320 | 6.972 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 4.62 | 3.62 |
| 36 | 50SDS36 | SDS | 7.520 | 7.171 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 4.64 | 3.64 |
| 40 | 50SDS40 | SDS | 8.320 | 7.966 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 5.74 | 4.74 |
| 42 | 50SDS42 | SDS | 8.720 | 8.363 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 6.40 | 5.40 |
| 45 | 50SDS45 | SDS | 9.310 | 8.960 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 6.90 | 5.90 |
| 48 | 50SDS48 | SDS | 9.910 | 9.556 | B | 2 | 1.5 | 1.5 | 3.188 | .969 | .406 | .75 | 0.343 | 7.66 | 6.66 |
| 54 | 50SK54 | SK | 11.110 | 10.749 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.531 | .906 | 1.25 | 0.343 | 11.68 | 9.68 |
| 60 | 50SK60 | SK | 12.300 | 11.942 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.531 | .906 | 1.25 | 0.343 | 13.88 | 11.88 |
| 70 | 50SK70 | SK | 14.290 | 13.931 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.531 | .906 | 1.25 | 0.343 | 17.52 | 15.52 |
| 72 | 50SK72 | SK | 14.690 | 14.329 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.531 | .906 | 1.25 | 0.343 | 18.44 | 16.44 |
| 80 | 50SF80 | SF | 16.280 | 15.920 | B | 2.938 | 2.25 | 2.25 | 4.625 | 1.656 | .906 | 1.25 | 0.343 | 22.90 | 19.90 |
| 84 | 50SF84 | SF | 17.080 | 16.715 | B | 2.938 | 2.25 | 2.25 | 4.625 | 1.656 | .906 | 1.25 | 0.343 | 25.98 | 22.98 |
| 96 | 50SF96 | SF | 19.470 | 19.102 | B | 2.938 | 2.25 | 2.25 | 4.625 | 1.656 | .906 | 1.25 | 0.343 | 32.88 | 29.88 |
| 112 | 50SF112 | SF | 22.650 | 22.285 | B | 2.938 | 2.25 | 2.25 | 4.625 | 1.656 | .906 | 1.25 | 0.343 | 43.10 | 40.10 |

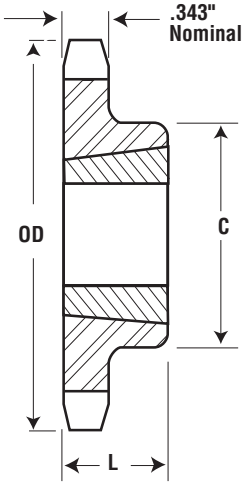
# All Steel Stock Sprockets

# No. 50 5/8" Pitch

## Single - Taper Bushed with Hardened Teeth

| No. Teeth | Catalog Number |
|---|---|
| 12 | 50BTB12H |
| 13 | 50BTB13H |
| 14 | 50BTB14H |
| 15 | 50BTB15H |
| 16 | 50BTB16H |
| 17 | 50BTB17H |
| 18 | 50BTB18H |
| 19 | 50BTB19H |
| 20 | 50BTB20H |
| 21 | 50BTB21H |
| 22 | 50BTB22H |
| 23 | 50BTB23H |
| 24 | 50BTB24H |
| 25 | 50BTB25H |
| 26 | 50BTB26H |
| 27 | 50BTB27H |
| 28 | 50BTB28H |
| 30 | 50BTB30H |

SABER TOOTH




Type B

## Single - Taper Bushed

| No. Teeth | Catalog Number | Bushing | Diameter | | Max. Bore | Dimensions | | Type | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | L | C | | Rim Only | Bushing Only |
| 12 | 50BTB12 | 1008 | 2.708 | 2.415 | 1 | .875 | 1.938 ★ | B | 0.5 | 0.3 |
| 13 | 50BTB13 | 1008 | 2.911 | 2.612 | 1 | .875 | 1.813 | B | 0.5 | 0.3 |
| 14 | 50BTB14 | 1008 | 3.113 | 2.809 | 1 | .875 | 1.938 | B | 0.6 | 0.3 |
| 15 | 50BTB15 | 1210 | 3.315 | 3.006 | 1.25 | 1 | 2.469 ★ | B | 0.7 | 0.6 |
| 16 | 50BTB16 | 1610 | 3.517 | 3.204 | 1.625 | 1 | 2.781 ★ | B | 0.7 | 0.9 |
| 17 | 50BTB17 | 1610 | 3.719 | 3.401 | 1.625 | 1 | 2.781 ★ | B | 0.8 | 0.9 |
| 18 | 50BTB18 | 1610 | 3.920 | 3.599 | 1.625 | 1 | 2.781 | B | 0.9 | 0.9 |
| 19 | 50BTB19 | 1610 | 4.120 | 3.797 | 1.625 | 1 | 3 | B | 1.3 | 0.9 |
| 20 | 50BTB20 | 1610 | 4.321 | 3.995 | 1.625 | 1 | 3.25 | B | 1.6 | 0.9 |
| 21 | 50BTB21 | 1610 | 4.522 | 4.193 | 1.625 | 1 | 3.5 | B | 1.5 | 0.9 |
| 22 | 50BTB22 | 1610 | 4.722 | 4.392 | 1.625 | 1 | 3.5 | B | 1.6 | 0.9 |
| 23 | 50BTB23 | 2012 | 4.922 | 4.590 | 2 | 1.25 | 3.875 | B | 2.0 | 1.7 |
| 24 | 50BTB24 | 2012 | 5.122 | 4.788 | 2 | 1.25 | 4 | B | 2.2 | 1.7 |
| 25 | 50BTB25 | 2012 | 5.322 | 4.987 | 2 | 1.25 | 4 | B | 2.4 | 1.7 |
| 26 | 50BTB26 | 2012 | 5.522 | 5.185 | 2 | 1.25 | 4 | B | 2.5 | 1.7 |
| 27 | 50BTB27 | 2012 | 5.723 | 5.384 | 2 | 1.25 | 4 | B | 2.6 | 1.7 |
| 28 | 50BTB28 | 2012 | 5.922 | 5.582 | 2 | 1.25 | 4 | B | 2.8 | 1.7 |
| 30 | 50BTB30 | 2012 | 6.321 | 5.979 | 2 | 1.25 | 3.563 | B | 3.2 | 1.7 |
| 32 | 50BTB32 | 2012 | 6.721 | 6.376 | 2 | 1.25 | 3.563 | B | 3.6 | 1.7 |
| 35 | 50BTB35 | 2012 | 7.319 | 6.972 | 2 | 1.25 | 3.563 | B | 4.2 | 1.7 |
| 36 | 50BTB36 | 2012 | 7.519 | 7.171 | 2 | 1.25 | 3.563 | B | 4.3 | 1.7 |
| 40 | 50BTB40 | 2012 | 8.316 | 7.966 | 2 | 1.25 | 3.563 | B | 5.2 | 1.7 |
| 42 | 50BTB42 | 2012 | 8.715 | 8.363 | 2 | 1.25 | 3.563 | B | 5.9 | 1.7 |
| 45 | 50BTB45 | 2012 | 9.313 | 8.960 | 2 | 1.25 | 3.563 | B | 6.5 | 1.7 |
| 48 | 50BTB48 | 2012 | 9.911 | 9.556 | 2 | 1.25 | 3.563 | B | 7.3 | 1.7 |
| 54 | 50BTB54 | 2012 | 11.106 | 10.749 | 2 | 1.25 | 3.563 | B | 9.0 | 1.7 |
| 60 | 50BTB60 | 2012 | 12.301 | 11.942 | 2 | 1.25 | 3.563 | B | 10.8 | 1.7 |
| 70 | 50BTB70 | 2517 | 14.292 | 13.931 | 2.5 | 1.75 | 4.25 | B | 14.0 | 3.5 |
| 72 | 50BTB72 | 2517 | 14.690 | 14.329 | 2.5 | 1.75 | 4.25 | B | 15.5 | 3.5 |
| 80 | 50BTB80 | 2517 | 16.282 | 15.920 | 2.5 | 1.75 | 4.25 | B | 19.5 | 3.5 |
| 84 | 50BTB84 | 2517 | 17.079 | 16.715 | 2.5 | 1.75 | 4.25 | B | 22.5 | 3.5 |
| 96 | 50BTB96 | 2517 | 19.466 | 19.102 | 2.5 | 1.75 | 4.25 | B | 29.0 | 3.5 |
| 112 | 50BTB112 | 2517 | 22.651 | 22.285 | 2.5 | 1.75 | 4.25 | B | 38.7 | 3.5 |

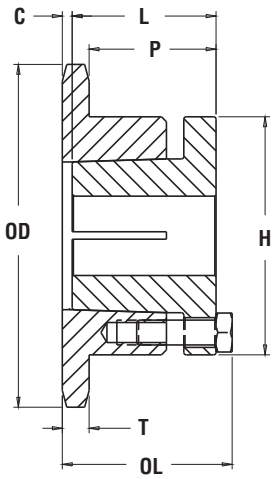
★ Has recessed groove in hub for chain clearance.

# No. 50
## 5/8" Pitch

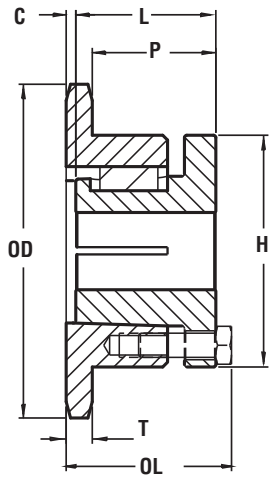
# MST® Sprockets

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (nom.) | With Hub | Rim Only |
| 13 | 50H13H | H | 2.910 | 2.612 | 3 | 1.5 | 1.656 | 1.25 | .219 | 2.5 | 1.125 | 0.343 | 1.4 | 0.6 |
| 14 | 50H14H | H | 3.110 | 2.809 | 3 | 1.5 | 1.594 | 1.25 | .156 | 2.5 | 1.063 | 0.343 | 1.4 | 0.6 |
| 15 | 50H15H | H | 3.320 | 3.006 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 1.6 | 0.8 |
| 15 | 50P15H | P1 | 3.320 | 3.006 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 2.4 | 1.1 |
| 16 | 50H16H | H | 3.520 | 3.204 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 1.7 | 0.9 |
| 16 | 50P16H | P1 | 3.520 | 3.204 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 2.7 | 1.4 |
| 17 | 50H17H | H | 3.720 | 3.401 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 1.8 | 1.0 |
| 17 | 50P17H | P1 | 3.720 | 3.401 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 2.7 | 1.4 |
| 18 | 50H18H | H | 3.920 | 3.599 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 1.9 | 1.1 |
| 18 | 50P18H | P1 | 3.920 | 3.599 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 3.1 | 1.8 |
| 19 | 50H19H | H | 4.120 | 3.797 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 2.1 | 1.3 |
| 19 | 50P19H | P1 | 4.120 | 3.797 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 3.1 | 1.8 |
| 20 | 50H20H | H | 4.320 | 3.995 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 2.3 | 1.5 |
| 20 | 50P20H | P1 | 4.320 | 3.995 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 3.3 | 2.0 |
| 21 | 50H21H | H | 4.520 | 4.194 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 2.2 | 1.4 |
| 21 | 50P21H | P1 | 4.520 | 4.194 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 3.4 | 2.1 |
| 22 | 50H22H | H | 4.720 | 4.392 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 2.3 | 1.5 |
| 22 | 50P22H | P1 | 4.720 | 4.392 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 3.5 | 2.2 |
| 23 | 50H23H | H | 4.920 | 4.590 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 2.5 | 1.7 |
| 23 | 50P23H | P1 | 4.920 | 4.590 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 3.7 | 2.4 |
| 23 | 50Q23H | Q1 | 4.920 | 4.590 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 6.7 | 3.2 |
| 24 | 50H24H | H | 5.120 | 4.788 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 2.6 | 1.8 |
| 24 | 50P24H | P1 | 5.120 | 4.788 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 3.9 | 2.6 |
| 24 | 50Q24H | Q1 | 5.120 | 4.788 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 7.0 | 3.5 |
| 25 | 50H25H | H | 5.320 | 4.987 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 2.7 | 1.9 |
| 25 | 50P25H | P1 | 5.320 | 4.987 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 4.0 | 2.7 |
| 25 | 50Q25H | Q1 | 5.320 | 4.987 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 7.1 | 3.6 |
| 26 | 50H26H | H | 5.520 | 5.185 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 2.8 | 2.0 |
| 26 | 50P26H | P1 | 5.520 | 5.185 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 4.1 | 2.8 |
| 26 | 50Q26H | Q1 | 5.520 | 5.185 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 7.2 | 3.7 |
| 27 | 50H27H | H | 5.720 | 5.384 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 3.0 | 2.2 |
| 27 | 50P27H | P1 | 5.720 | 5.384 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 4.2 | 2.9 |
| 27 | 50Q27H | Q1 | 5.720 | 5.384 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 7.3 | 3.8 |
| 28 | 50H28H | H | 5.920 | 5.582 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 3.3 | 2.5 |
| 28 | 50P28H | P1 | 5.920 | 5.582 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 4.3 | 3.0 |
| 28 | 50Q28H | Q1 | 5.920 | 5.582 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 7.5 | 4.0 |
| 29 | 50P29H | P1 | 6.120 | 5.781 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 4.7 | 3.4 |
| 30 | 50H30H | H | 6.320 | 5.979 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 3.7 | 2.9 |
| 30 | 50P30H | P1 | 6.320 | 5.979 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 4.9 | 3.6 |
| 30 | 50Q30H | Q1 | 6.320 | 5.979 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 9.1 | 5.6 |
| 31 | 50P31 | P1 | 6.520 | 6.178 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 4.9 | 3.6 |
| 32 | 50H32H | H | 6.720 | 6.376 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 4.0 | 3.2 |
| 32 | 50P32 | P1 | 6.720 | 6.376 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 5.2 | 3.9 |
| 32 | 50Q32 | Q1 | 6.720 | 6.376 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 9.6 | 6.1 |
| 33 | 50H33H | H | 6.920 | 6.575 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 4.2 | 3.4 |
| 33 | 50P33 | P1 | 6.920 | 6.575 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 5.4 | 4.1 |
| 34 | 50H34H | H | 7.120 | 6.774 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 4.5 | 3.7 |
| 34 | 50P34 | P1 | 7.120 | 6.774 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 5.6 | 4.3 |
| 35 | 50H35H | H | 7.320 | 6.972 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 4.6 | 3.8 |
| 35 | 50P35 | P1 | 7.320 | 6.972 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 5.6 | 4.3 |
| 35 | 50Q35 | Q1 | 7.320 | 6.972 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 10.3 | 6.8 |
| 36 | 50H36H | H | 7.520 | 7.171 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 4.8 | 4.0 |
| 36 | 50P36 | P1 | 7.520 | 7.171 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.594 | 0.343 | 6.1 | 4.8 |
| 36 | 50Q36 | Q1 | 7.520 | 7.171 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 10.3 | 6.8 |
| 37 | 50Q37 | Q1 | 7.720 | 7.370 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 10.5 | 7.0 |
| 38 | 50H38H | H | 7.920 | 7.569 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 5.2 | 4.4 |
| 38 | 50Q38 | Q1 | 7.920 | 7.569 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 10.9 | 7.4 |
| 39 | 50Q39 | Q1 | 8.120 | 7.767 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 11.1 | 7.6 |
| 40 | 50H40H | H | 8.320 | 7.966 | 3 | 1.5 | 1.5 | 1.25 | .063 | 2.5 | .969 | 0.343 | 5.6 | 4.8 |
| 40 | 50Q40 | Q1 | 8.320 | 7.966 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 11.5 | 8.0 |
| 41 | 50Q41 | Q1 | 8.520 | 8.165 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 11.7 | 8.2 |
| 42 | 50Q42 | Q1 | 8.720 | 8.363 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 11.8 | 8.3 |
| 44 | 50Q44 | Q1 | 9.110 | 8.761 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 12.1 | 8.6 |
| 45 | 50Q45 | Q1 | 9.310 | 8.960 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 12.5 | 9.0 |
| 47 | 50Q47 | Q1 | 9.710 | 9.357 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 12.8 | 9.3 |
| 48 | 50Q48 | Q1 | 9.910 | 9.556 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 13.1 | 9.6 |
| 50 | 50Q50 | Q1 | 10.310 | 9.954 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 13.3 | 9.8 |
| 54 | 50Q54 | Q1 | 11.110 | 10.749 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 14.8 | 11.3 |
| 56 | 50Q56 | Q1 | 11.500 | 11.147 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 15.8 | 12.3 |
| 60 | 50Q60 | Q1 | 12.300 | 11.942 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 16.8 | 13.3 |
| 70 | 50Q70 | Q1 | 14.290 | 13.931 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 20.4 | 16.9 |
| 72 | 50Q72 | Q1 | 14.690 | 14.329 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 21.6 | 18.1 |
| 80 | 50Q80 | Q1 | 16.280 | 15.920 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 24.6 | 21.1 |
| 84 | 50Q84 | Q1 | 17.080 | 16.715 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 27.8 | 24.3 |
| 96 | 50Q96 | Q1 | 19.470 | 19.102 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 33.3 | 29.0 |
| 112 | 50Q112 | Q1 | 22.650 | 22.285 | 4 | 2.688 | 2.781 | 2.5 | | 4.125 | 2.156 | 0.343 | 42.8 | 39.3 |

## Single MST® Sprockets




Type 3

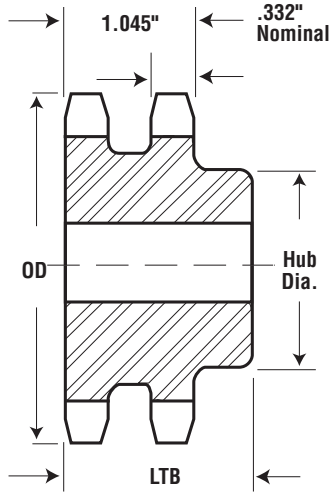



Type 4

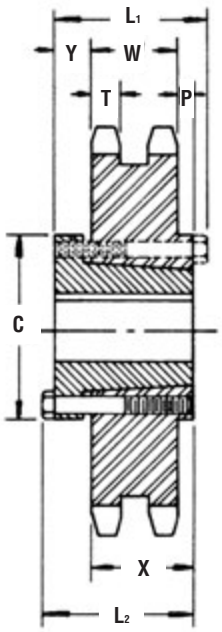
Sprockets with "H" suffix have hardened teeth.

# All Steel Stock Sprockets

# No. 50-2
## 5/8" Pitch




Type B




QD - Type C

**Alteration Charges**

See current discount sheet for alteration charges.

## Double - Type B

| No. Teeth | Catalog Number | OD | Type | Bore (Inches) | | Hub (Inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | LTB | |
| 11 | D50B11H | 2.500 | B | .625 | .406 | 1.469 | 1.75 | 0.96 |
| 12 | D50B12H | 2.710 | B | .625 | 1.125 | 1.688 | 1.75 | 1.25 |
| 13 | D50B13H | 2.910 | B | .625 | 1.313 | 1.875 | 1.75 | 1.56 |
| 14 | D50B14H | 3.110 | B | .625 | 1.375 | 2.063 | 1.75 | 1.86 |
| 15 | D50B15H | 3.320 | B | .75 | 1.5 | 2.313 | 1.75 | 2.22 |
| 16 | D50B16H | 3.520 | B | .75 | 1.75 | 2.5 | 1.75 | 2.62 |
| 17 | D50B17H | 3.720 | B | .75 | 1.875 | 2.688 | 1.75 | 3.04 |
| 18 | D50B18H | 3.920 | B | .75 | 1.406 | 2.875 | 1.75 | 3.58 |
| 19 | D50B19H | 4.120 | B | 1 | 2.125 | 3.125 | 1.75 | 3.90 |
| 20 | D50B20H | 4.320 | B | 1 | 2.25 | 3.25 | 1.75 | 4.26 |
| 21 | D50B21H | 4.520 | B | 1 | 2.375 | 3.5 | 1.75 | 4.90 |
| 22 | D50B22H | 4.720 | B | 1 | 2.375 | 3.563 | 1.875 | 5.58 |
| 23 | D50B23H | 4.920 | B | 1 | 2.5 | 3.625 | 1.875 | 6.10 |
| 24 | D50B24H | 5.120 | B | 1 | 2.5 | 3.625 | 1.875 | 6.50 |
| 25 | D50B25H | 5.320 | B | 1 | 2.5 | 3.625 | 1.875 | 6.94 |
| 26 | D50B26 | 5.520 | B | 1 | 2.5 | 3.75 | 1.875 | 7.54 |
| 30 | D50B30 | 6.320 | B | 1 | 2.5 | 3.75 | 1.875 | 9.40 |
| 32 | D50B32 | 6.720 | B | 1 | 2.5 | 3.75 | 1.875 | 10.46 |
| 35 | D50B35 | 7.320 | B | 1 | 2.5 | 3.75 | 1.875 | 12.28 |
| 36 | D50B36 | 7.520 | B | 1.094 | 2.75 | 4 | 2.125 | 13.94 |
| 40 | D50B40 | 8.320 | B | 1.094 | 2.75 | 4 | 2.125 | 16.54 |
| 42 | D50B42 | 8.720 | B | 1.094 | 2.75 | 4 | 2.125 | 17.92 |
| 45 | D50B45 | 9.310 | B | 1.094 | 2.75 | 4 | 2.125 | 20.30 |
| 48 | D50B48 | 9.910 | B | 1.094 | 2.75 | 4.25 | 2.375 | 24.08 |
| 52 | D50B52 | 10.710 | B | 1.094 | 2.75 | 4.25 | 2.375 | 27.42 |
| 54 | D50B54 | 11.110 | B | 1.094 | 2.75 | 4.25 | 2.375 | 29.16 |
| 60 | D50B60 | 12.300 | B | 1.313 | 3 | 4.5 | 2.375 | 35.88 |
| 68 | D50B68 | 13.890 | B | 1.313 | 3 | 4.5 | 2.375 | 44.98 |
| 72 | D50B72 | 14.690 | B | 1.313 | 3 | 4.5 | 2.375 | 50.22 |
| 76 | D50B76 | 15.490 | B | 1.313 | 3 | 4.5 | 2.375 | 45.64 |
| 84 | D50B84 | 17.080 | B | 1.313 | 3 | 4.5 | 2.375 | 51.64 |
| 95 | D50B95 | 19.270 | B | 1.313 | 3 | 4.5 | 2.375 | 64.32 |
| 96 | D50B96 | 19.470 | B | 1.313 | 3 | 4.5 | 2.375 | 67.42 |
| 102 | D50B102 | 20.660 | B | 1.313 | 3 | 4.5 | 2.375 | 72.68 |
| 112 | D50B112 | 22.650 | B | 1.313 | 3.313 | 5.25 | 2.375 | 90.22 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

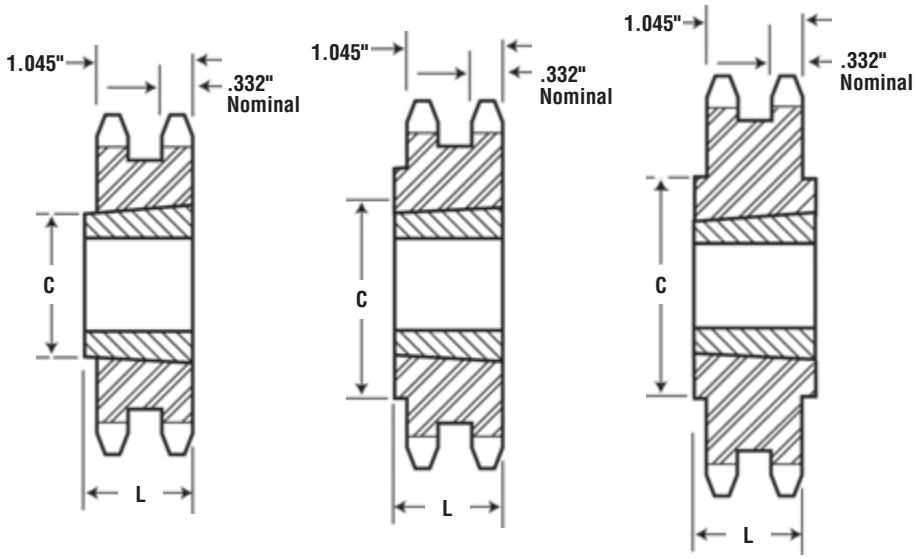
NOTE: Double 50 stock sprockets with 25 teeth or less have hardened teeth, as indicated by H suffix.

## Double - Type QD

| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | X | T | W | With Hub | Rim Only |
| 36 | D50SK36 | SK | 7.520 | 7.171 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | 13/64 | 1.25 | 0.332 | 1.045 | 11.08 | 9.08 |
| 42 | D50SK42 | SK | 8.720 | 8.363 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | 13/64 | 1.25 | 0.332 | 1.045 | 15.16 | 13.16 |
| 48 | D50SK48 | SK | 9.910 | 9.556 | C | 2.625 | 2.125 | 2.125 | 3.875 | .625 | 13/64 | 1.25 | 0.332 | 1.045 | 19.90 | 17.90 |
| 52 | D50SF52 | SF | 10.710 | 10.351 | C | 2.406 | 2.25 | 2.25 | 4.625 | .75 | 13/64 | 1.25 | 0.332 | 1.045 | 24.26 | 21.26 |
| 54 | D50SF54 | SF | 11.110 | 10.749 | C | 2.406 | 2.25 | 2.25 | 4.625 | .75 | 13/64 | 1.25 | 0.332 | 1.045 | 26.18 | 23.18 |
| 60 | D50SF60 | SF | 12.300 | 11.942 | C | 2.406 | 2.25 | 2.25 | 4.625 | .75 | 13/64 | 1.25 | 0.332 | 1.045 | 32.12 | 29.12 |
| 68 | D50SF68 | SF | 13.890 | 13.533 | C | 2.406 | 2.25 | 2.25 | 4.625 | .75 | 13/64 | 1.25 | 0.332 | 1.045 | 41.16 | 38.16 |
| 72 | D50SF72 | SF | 14.690 | 14.329 | C | 2.406 | 2.25 | 2.25 | 4.625 | .75 | 13/64 | 1.25 | 0.332 | 1.045 | 46.28 | 43.26 |
| 76 | D50SF76 | SF | 15.490 | 15.124 | C | 2.406 | 2.25 | 2.25 | 4.625 | .75 | 13/64 | 1.25 | 0.332 | 1.045 | 47.00 | 44.00 |
| 84 | D50SF84 | SF | 17.080 | 16.715 | C | 2.406 | 2.25 | 2.25 | 4.625 | .75 | 13/64 | 1.25 | 0.332 | 1.045 | 48.89 | 45.88 |
| 95 | D50SF95 | SF | 19.270 | 18.903 | C | 2.406 | 2.25 | 2.25 | 4.625 | .75 | 13/64 | 1.25 | 0.332 | 1.045 | 61.80 | 58.88 |
| 102 | D50SF102 | SF | 20.660 | 20.295 | C | 2.406 | 2.25 | 2.25 | 4.625 | .75 | 13/64 | 1.25 | 0.332 | 1.045 | 69.02 | 66.02 |
| 112 | D50SF112 | SF | 22.650 | 22.285 | C | 2.406 | 2.25 | 2.25 | 4.625 | .75 | 13/64 | 1.25 | 0.332 | 1.045 | 88.26 | 85.26 |

# No. 50-2
## 5/8" Pitch

# All Steel Stock Sprockets



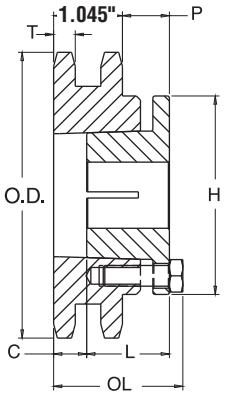

## Double - Taper Bushed

| No. Teeth | Catalog Number | Bushing | Diameters | | Max. Bore. | Dimensions | | Type | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | L | C | | Rim Only | Bushing Only |
| 14 | D50ATB14H | 1008 | 3.113 | 2.809 | 1 | .875 | – | A | 0.8 | 0.3 |
| 15 | D50ATB15H | 1210 | 3.315 | 3.006 | 1.25 | 1 | – | A | 0.9 | 0.6 |
| 16 | D50ATB16H | 1210 | 3.517 | 3.204 | 1.25 | 1 | – | A | 1.1 | 0.6 |
| 17 | D50ATB17H | 1610 | 3.719 | 3.410 | 1.625 | 1 | – | A | 1.1 | 0.6 |
| 18 | D50ATB18H | 1610 | 3.920 | 3.599 | 1.625 | 1 | – | A | 1.3 | 0.9 |
| 19 | D50ATB19H | 1610 | 4.120 | 3.797 | 1.625 | 1 | – | A | 1.6 | 0.9 |
| 20 | D50BTB20H | 2012 | 4.321 | 3.995 | 2 | 1.25 | 3.25 | B | 1.5 | 1.7 |
| 21 | D50BTB21H | 2012 | 4.522 | 4.193 | 2 | 1.25 | 3.5 | B | 1.9 | 1.7 |
| 25 | D50BTB25H | 2012 | 5.322 | 4.987 | 2 | 1.25 | 4.281 | B | 3.8 | 1.7 |
| 30 | D50BTB30 | 2517 | 6.321 | 5.979 | 2.5 | 1.75 | 5.281 | B | 7.5 | 3.5 |
| 36 | D50CTB36 | 2517 | 7.519 | 7.171 | 2.5 | 1.75 | 4.25 | C | 9.4 | 3.5 |
| 42 | D50CTB42 | 2517 | 8.715 | 8.363 | 2.5 | 1.75 | 4.25 | C | 13.4 | 3.5 |
| 48 | D50CTB48 | 2517 | 9.911 | 9.556 | 2.5 | 1.75 | 4.25 | C | 18.6 | 3.5 |
| 52 | D50CTB52 | 2517 | 10.707 | 10.351 | 2.5 | 1.75 | 4.375 | C | 22.2 | 3.5 |
| 60 | D50CTB60 | 2517 | 12.301 | 11.942 | 2.5 | 1.75 | 4.375 | C | 30.3 | 3.5 |
| 68 | D50CTB68 | 2517 | 13.893 | 13.533 | 2.5 | 1.75 | 4.375 | C | 39.4 | 3.5 |
| 76 | D50CTB76 | 2517 | 15.486 | 15.124 | 2.5 | 1.75 | 4.375 | C | 41.2 | 3.5 |
| 84 | D50CTB84 | 2517 | 17.079 | 16.715 | 2.5 | 1.75 | 4.375 | C | 45.3 | 3.5 |
| 95 | D50CTB95 | 2517 | 19.267 | 18.903 | 2.5 | 1.75 | 4.375 | C | 58.8 | 3.5 |
| 102 | D50CTB102 | 2517 | 20.661 | 20.295 | 2.5 | 1.75 | 4.375 | C | 67.1 | 3.5 |

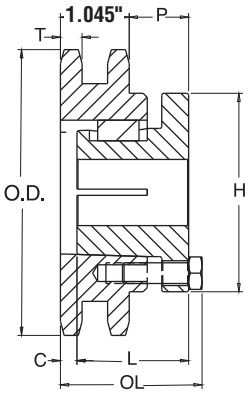
NOTE: Double 50 stock sprockets with 25 teeth or less have hardened teeth, as indicated by H suffix.

# MST® Sprockets

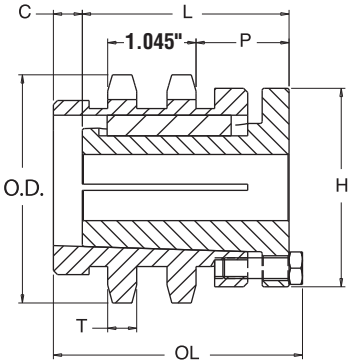
# No. 50-2
## 5/8" Pitch




Type 11




Type 12




Type 16

## Double - MST® Sprockets

| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 14 | D50H14H | H | 3.110 | 2.809 | 11 | 1.5 | 2.313 | 1.25 | .875 | 2.5 | 1.094 | 0.332 | 2.0 | 1.2 |
| 15 | D50P15H | P1 | 3.320 | 3.006 | 16 | 1.75 | 3.438 | 1.938 | 1.25 | 3 | 1.406 | 0.332 | 3.3 | 2.0 |
| 16 | D50P16H | P1 | 3.520 | 3.204 | 12 | 1.75 | 2.688 | 1.938 | .5 | 3 | 1.406 | 0.332 | 2.9 | 1.6 |
| 17 | D50P17H | P1 | 3.720 | 3.401 | 12 | 1.75 | 2.688 | 1.938 | .5 | 3 | 1.406 | 0.332 | 3.4 | 2.1 |
| 18 | D50P18H | P1 | 3.920 | 3.599 | 12 | 1.75 | 2.688 | 1.938 | .5 | 3 | 1.406 | 0.332 | 3.8 | 2.5 |
| 19 | D50P19H | P1 | 4.120 | 3.797 | 12 | 1.75 | 2.188 | 1.938 | | 3 | .906 | 0.332 | 3.3 | 2.0 |
| 20 | D50P20H | P1 | 4.320 | 3.995 | 12 | 1.75 | 2.188 | 1.938 | | 3 | .906 | 0.332 | 3.8 | 2.5 |
| 21 | D50P21H | P1 | 4.520 | 4.194 | 12 | 1.75 | 2.188 | 1.938 | | 3 | .906 | 0.332 | 4.1 | 2.8 |
| 22 | D50P22H | P1 | 4.720 | 4.392 | 12 | 1.75 | 2.188 | 1.938 | | 3 | .906 | 0.332 | 4.5 | 3.2 |
| 23 | D50P23H | P1 | 4.920 | 4.590 | 12 | 1.75 | 2.188 | 1.938 | | 3 | .906 | 0.332 | 4.9 | 3.6 |
| 24 | D50Q24H | Q1 | 5.120 | 4.788 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 7.5 | 4.0 |
| 25 | D50Q25H | Q1 | 5.320 | 4.987 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 8.0 | 4.5 |
| 26 | D50Q26H | Q1 | 5.520 | 5.185 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 8.8 | 5.3 |
| 27 | D50Q27H | Q1 | 5.720 | 5.384 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 9.4 | 5.9 |
| 28 | D50Q28H | Q1 | 5.920 | 5.582 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 9.8 | 6.3 |
| 30 | D50Q30H | Q1 | 6.320 | 5.979 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 11.0 | 7.5 |
| 32 | D50Q32H | Q1 | 6.720 | 6.376 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 12.0 | 8.5 |
| 35 | D50Q35H | Q1 | 7.320 | 6.972 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 13.9 | 10.4 |
| 36 | D50Q36H | Q1 | 7.520 | 7.171 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 14.5 | 11.0 |
| 40 | D50Q40H | Q1 | 8.320 | 7.966 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 17.1 | 13.6 |
| 42 | D50Q42H | Q1 | 8.720 | 8.363 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 18.5 | 15.0 |
| 45 | D50Q45H | Q1 | 9.310 | 8.960 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 21.0 | 17.5 |
| 48 | D50Q48H | Q1 | 9.910 | 9.556 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 23.9 | 20.4 |
| 52 | D50Q52 | Q1 | 10.710 | 10.351 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 26.8 | 23.3 |
| 54 | D50Q54 | Q1 | 11.110 | 10.749 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 26.8 | 23.3 |
| 60 | D50Q60 | Q1 | 12.300 | 11.942 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 29.0 | 25.5 |
| 72 | D50Q72 | Q1 | 14.690 | 14.329 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 46.6 | 43.1 |
| 76 | D50Q76 | Q1 | 15.490 | 15.124 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 49.5 | 46.0 |
| 84 | D50Q84 | Q1 | 17.080 | 16.715 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.469 | 0.332 | 60.2 | 56.7 |
| 95 | D50R95 | R1 | 19.270 | 18.903 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 2.094 | 0.332 | 79.8 | 72.3 |
| 96 | D50R96 | R1 | 19.470 | 19.102 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 2.094 | 0.332 | 88.2 | 80.7 |
| 102 | D50R102 | R1 | 20.660 | 20.295 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 2.094 | 0.332 | 92.0 | 84.5 |
| 112 | D50R112 | R1 | 22.650 | 22.285 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 2.094 | 0.332 | 100.7 | 93.2 |

Sprockets with "H" suffix have hardened teeth.

# No. 50-3
## 5/8" Pitch

# All Steel Stock Sprockets

## Triple - Type B & C

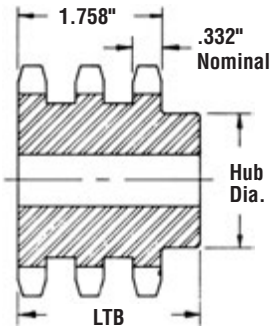
| No. Teeth | Catalog Number | OD | Type | Bore (inches) | | Hub (inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | Length Thru | |
| 11 | E50B11H | 2.500 | B | .625 | .938 | 1.469 | 2.5 | 1.42 |
| 12 | E50B12H | 2.710 | B | .625 | 1.125 | 1.063 | 2.5 | 1.84 |
| 13 | E50B13H | 2.910 | B | .625 | 1.313 | 1.875 | 2.5 | 2.28 |
| 14 | E50B14H | 3.110 | B | .625 | 1.375 | 2.063 | 2.5 | 2.72 |
| 15 | E50B15H | 3.320 | B | .75 | 1.5 | 2.313 | 2.5 | 3.24 |
| 16 | E50B16H | 3.520 | B | .75 | 1.75 | 2.5 | 2.5 | 3.76 |
| 17 | E50B17H | 3.720 | B | .75 | 1.875 | 2.688 | 2.5 | 4.38 |
| 18 | E50B18H | 3.920 | B | .75 | 1.938 | 2.938 | 2.5 | 5.10 |
| 19 | E50B19H | 4.120 | B | 1 | 2.125 | 3.125 | 2.5 | 5.60 |
| 20 | E50B20H | 4.320 | B | 1 | 2.25 | 3.25 | 2.625 | 6.42 |
| 21 | E50B21H | 4.520 | B | 1 | 2.375 | 3.5 | 2.625 | 7.42 |
| 22 | E50B22H | 4.720 | B | 1 | 2.375 | 3.563 | 2.625 | 8.13 |
| 23 | E50B23H | 4.920 | B | 1 | 2.5 | 3.625 | 2.625 | 8.85 |
| 24 | E50B24H | 5.120 | B | 1 | 2.5 | 3.625 | 2.625 | 9.42 |
| 25 | E50B25H | 5.320 | B | 1 | 2.5 | 3.625 | 2.625 | 10.16 |
| 26 | E50B26 | 5.520 | B | 1 | 2.5 | 3.75 | 2.625 | 11.02 |
| 30 | E50B30 | 6.320 | B | 1 | 2.5 | 3.75 | 2.625 | 14.24 |
| 35 | E50B35 | 7.320 | B | 1 | 2.5 | 3.75 | 2.625 | 19.09 |
| 36 | E50B36 | 7.520 | B | 1.188 | 2.75 | 4 | 2.75 | 20.60 |
| 42 | E50B42 | 8.720 | B | 1.188 | 2.75 | 4 | 2.75 | 27.46 |
| 48 | E50B48 | 9.910 | B | 1.188 | 2.75 | 4 | 3.125 | 36.64 |
| 52 | E50B52 | 10.710 | B | 1.188 | 2.75 | 4 | 3.125 | 42.54 |
| 60 | E50B60 | 12.300 | B | 1.313 | 3 | 4.5 | 3.125 | 57.17 |
| 68 | E50B68 | 13.890 | B | 1.313 | 3 | 4.5 | 3.125 | 73.21 |
| 72 | E50C72 | 14.690 | C | 1.313 | 3 | 4.75 | 3.5 | 57.04 |
| 76 | E50C76 | 15.490 | C | 1.313 | 3 | 4.75 | 3.5 | 61.57 |
| 84 | E50C84 | 17.080 | C | 1.313 | 3 | 4.75 | 3.5 | 62.86 |
| 95 | E50C95 | 19.270 | C | 1.313 | 3 | 4.75 | 3.75 | 75.01 |
| 102 | E50C102 | 20.660 | C | 1.313 | 3 | 4.75 | 3.75 | 86.26 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

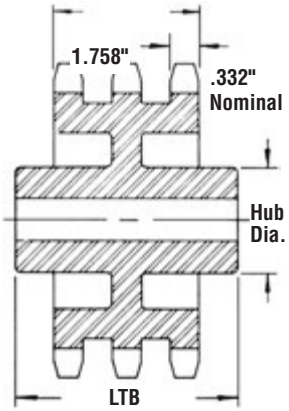
NOTE: Triple 50 stock sprockets with 25 teeth or less have Hardened Teeth. As indicated by H suffix.

**Alteration Charges**

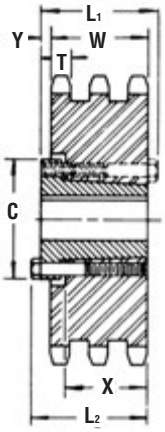
See current discount sheet for alteration charges.




Type B




Type C




QD — Type B

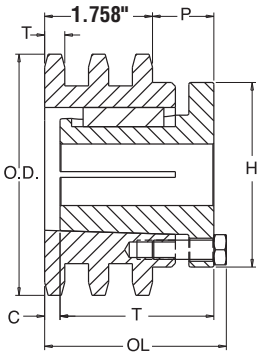
## Triple - Type QD

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | V | X | T | W | With Hub | Rim Only |
| 36 | E50SK36 | SK | 7.520 | 7.171 | B | 2.625 | 2.125 | 2.125 | 3.875 | .125 | | 1.25 | .332 | 1.758 | 14.8 | 12.8 |
| 42 | E50SK42 | SK | 8.720 | 8.363 | B | 2.625 | 2.125 | 2.125 | 3.875 | .125 | | 1.25 | .332 | 1.758 | 21.5 | 19.5 |
| 48 | E50SK48 | SK | 9.910 | 9.556 | B | 2.625 | 2.125 | 2.125 | 3.875 | .125 | | 1.25 | .332 | 1.758 | 29.6 | 27.6 |
| 52 | E50SF52 | SF | 10.710 | 10.351 | B | 2.938 | 2.25 | 2.25 | 4.625 | .25 | | 1.25 | .332 | 1.758 | 31.6 | 28.6 |
| 60 | E50SF60 | SF | 12.300 | 11.942 | B | 2.938 | 2.25 | 2.25 | 4.625 | .25 | | 1.25 | .332 | 1.758 | 42.1 | 41.3 |
| 68 | E50SF68 | SF | 13.890 | 13.533 | B | 2.938 | 2.25 | 2.25 | 4.625 | .25 | | 1.25 | .332 | 1.758 | 53.8 | 45.3 |
| 72 | E50SF72 | SF | 14.690 | 14.329 | B | 2.938 | 2.25 | 2.25 | 4.625 | .25 | .5 | 1.25 | .332 | 1.758 | 46.6 | 60.2 |
| 76 | E50SF76 | SF | 15.490 | 15.124 | B | 2.938 | 2.25 | 2.25 | 4.625 | .25 | .5 | 1.25 | .332 | 1.758 | 49.9 | 67.3 |
| 84 | E50SF84 | SF | 17.080 | 16.715 | B | 2.938 | 2.25 | 2.25 | 4.625 | .25 | .5 | 1.25 | .332 | 1.758 | 53.9 | 72.4 |
| 95 | E50SF95 | SF | 19.270 | 18.903 | B | 2.938 | 2.25 | 2.25 | 4.625 | .25 | .5 | 1.25 | .332 | 1.758 | 62.3 | 91.4 |
| 102 | E50SF102 | SF | 20.660 | 20.295 | B | 2.938 | 2.25 | 2.25 | 4.625 | .25 | .5 | 1.25 | .332 | 1.758 | 69.3 | 103.2 |

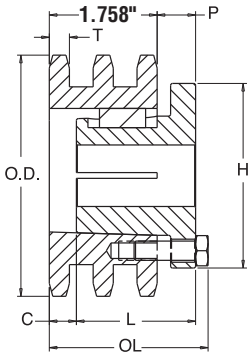
NOTE: Triple 50 stock sprockets with 25 teeth or less have hardened teeth.

# MST® Sprockets

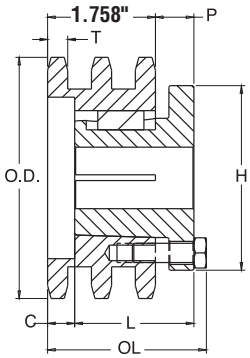
# No. 50-3
## 5/8" Pitch



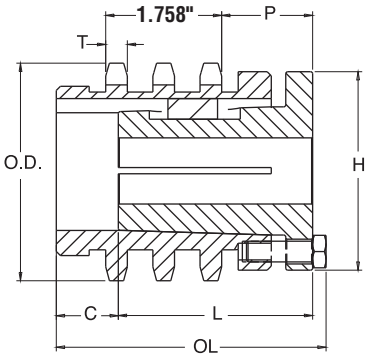

Type 22




Type 23




Type 24




Type 27

## Triple - MST® Sprockets

| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 15 | E50P15H | P2 | 3.320 | 3.006 | 27 | 1.75 | 4.125 | 2.938 | .938 | 3 | 1.375 | .332 | 4.0 | 2.5 |
| 16 | E50P16H | P2 | 3.520 | 3.204 | 22 | 1.75 | 3.375 | 2.938 | .188 | 3 | 1.375 | .332 | 3.9 | 2.4 |
| 17 | E50P17H | P2 | 3.720 | 3.401 | 22 | 1.75 | 3.375 | 2.938 | .188 | 3 | 1.375 | .332 | 4.3 | 2.8 |
| 18 | E50P18H | P2 | 3.920 | 3.599 | 22 | 1.75 | 3.375 | 2.938 | .188 | 3 | 1.375 | .332 | 4.9 | 3.4 |
| 19 | E50P19H | P1 | 4.120 | 3.797 | 24 | 1.75 | 2.625 | 1.938 | .438 | 3 | .625 | .332 | 4.2 | 2.9 |
| 20 | E50P20H | P1 | 4.320 | 3.995 | 24 | 1.75 | 2.625 | 1.938 | .438 | 3 | .625 | .332 | 4.4 | 3.1 |
| 21 | E50P21H | P1 | 4.520 | 4.194 | 24 | 1.75 | 2.625 | 1.938 | .438 | 3 | .625 | .332 | 4.8 | 3.5 |
| 23 | E50P23H | P1 | 4.920 | 4.590 | 24 | 1.75 | 2.625 | 1.938 | .438 | 3 | .625 | .332 | 5.8 | 4.5 |
| 24 | E50Q24H | Q1 | 5.120 | 4.788 | 23 | 2.688 | 2.781 | 2.5 | | 4.125 | .75 | .332 | 8.2 | 4.7 |
| 25 | E50Q25H | Q1 | 5.320 | 4.987 | 23 | 2.688 | 2.781 | 2.5 | | 4.125 | .75 | .332 | 8.5 | 5.0 |
| 26 | E50Q26H | Q1 | 5.520 | 5.185 | 23 | 2.688 | 2.781 | 2.5 | | 4.125 | .75 | .332 | 9.4 | 5.9 |
| 28 | E50Q28H | Q1 | 5.920 | 5.582 | 23 | 2.688 | 2.781 | 2.5 | | 4.125 | .75 | .332 | 10.8 | 7.3 |
| 30 | E50Q30H | Q1 | 6.320 | 5.979 | 23 | 2.688 | 2.781 | 2.5 | | 4.125 | .75 | .332 | 12.3 | 8.8 |
| 32 | E50Q32H | Q1 | 6.720 | 6.376 | 23 | 2.688 | 2.781 | 2.5 | | 4.125 | .75 | .332 | 14.4 | 10.9 |
| 35 | E50Q35H | Q1 | 7.320 | 6.972 | 23 | 2.688 | 2.781 | 2.5 | | 4.125 | .75 | .332 | 17.2 | 13.7 |
| 36 | E50Q36H | Q1 | 7.520 | 7.171 | 23 | 2.688 | 2.781 | 2.5 | | 4.125 | .75 | .332 | 18.1 | 14.6 |
| 40 | E50Q40H | Q1 | 8.320 | 7.966 | 23 | 2.688 | 2.781 | 2.5 | | 4.125 | .75 | .332 | 22.6 | 19.1 |
| 42 | E50Q42H | Q1 | 8.720 | 8.363 | 23 | 2.688 | 2.781 | 2.5 | | 4.125 | .75 | .332 | 25.0 | 21.5 |
| 48 | E50Q48H | Q1 | 9.910 | 9.556 | 23 | 2.688 | 2.781 | 2.5 | | 4.125 | .75 | .332 | 33.1 | 29.6 |
| 52 | E50Q52 | Q1 | 10.710 | 10.351 | 23 | 2.688 | 2.781 | 2.5 | | 4.125 | .75 | .332 | 39.9 | 36.4 |
| 60 | E50R60 | R1 | 12.300 | 11.942 | 22 | 3.75 | 2.156 | 2.875 | | 5.375 | 1.125 | .332 | 55.5 | 48.0 |
| 68 | E50R68 | R1 | 13.890 | 13.533 | 22 | 3.75 | 2.156 | 2.875 | | 5.375 | 1.125 | .332 | 71.0 | 63.5 |
| 72 | E50R72 | R1 | 14.690 | 14.329 | 22 | 3.75 | 2.156 | 2.875 | | 5.375 | 1.125 | .332 | 79.5 | 72.0 |
| 76 | E50R76 | R1 | 15.490 | 15.124 | 22 | 3.75 | 2.156 | 2.875 | | 5.375 | 1.125 | .332 | 88.5 | 81.0 |
| 84 | E50R84 | R1 | 17.080 | 16.715 | 22 | 3.75 | 2.156 | 2.875 | | 5.375 | 1.125 | .332 | 107.5 | 100.0 |
| 95 | E50R95 | R1 | 19.270 | 18.903 | 22 | 3.75 | 2.156 | 2.875 | | 5.375 | 1.125 | .332 | 137.5 | 130.0 |
| 102 | E50R102 | R1 | 20.660 | 20.295 | 22 | 3.75 | 2.156 | 2.875 | | 5.375 | 1.125 | .332 | 158.5 | 151.0 |

Sprockets with "H" suffix have hardened teeth.

# No. 60
## ¾" Pitch

# All Steel Stock Sprockets

## Single - Type BS — 2 Setscrews — Bored-To-Size

| No. Teeth | Catalog Number | OD | LTB | Wt. lb (Approx.) | Stock Finished Bores Includes Keyway and 2 Setscrews | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 60BS9 | 2.510 | 1.25 | 0.6 | .75 | .875 | 1 | | | | | | | | | | | | |
| 10 | 60BS10 | 2.760 | 1.25 | 0.7 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | | | | | | | |
| 11 | 60BS11 | 3.000 | 1.25 | 0.9 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | | | | | | | |
| 11 | 60BS11W | 3.000 | 1.25 | 0.8 | | | | | | 1.25 | | | | | | | | | |
| 12 | 60BS12 | 3.250 | 1.25 | 1.3 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | | | | | | | |
| 12 | 60BS12W | 3.250 | 1.25 | 1.1 | | | | | | 1.25 | | | | | | | | | |
| 13 | 60BS13 | 3.490 | 1.25 | 1.3 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | | | | | |
| 14 | 60BS14 | 3.740 | 1.25 | 1.6 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | | | | | |
| 15 | 60BS15 | 3.980 | 1.25 | 1.7 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | | | | |
| 16 | 60BS16 | 4.220 | 1.25 | 2.1 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 17 | 60BS17 | 4.460 | 1.25 | 2.4 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 18 | 60BS18 | 4.700 | 1.25 | 2.6 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 18 | 60BS18W | 4.700 | 1.25 | 2.6 | | | | | | 1.25 | | | | | | | | | |
| 19 | 60BS19 | 4.950 | 1.25 | 3.4 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 20 | 60BS20 | 5.190 | 1.25 | 3.9 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 21 | 60BS21 | 5.430 | 1.25 | 4.4 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 22 | 60BS22 | 5.670 | 1.25 | 4.7 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 23 | 60BS23 | 5.910 | 1.25 | 5.0 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 24 | 60BS24 | 6.150 | 1.25 | 5.3 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 25 | 60BS25 | 6.390 | 1.25 | 5.4 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 26 | 60BS26 | 6.630 | 1.25 | 5.8 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 27 | 60BS27 | 6.870 | 1.25 | 6.3 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 28 | 60BS28 | 7.110 | 1.25 | 6.4 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 29 | 60BS29 | 7.350 | 1.25 | 6.9 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 30 | 60BS30 | 7.590 | 1.25 | 7.1 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 31 | 60BS31 | 7.830 | 1.25 | 7.4 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 32 | 60BS32 | 8.070 | 1.25 | 7.8 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 33 | 60BS33 | 8.300 | 1.25 | 8.2 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 34 | 60BS34 | 8.540 | 1.25 | 8.5 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 35 | 60BS35 | 8.780 | 1.25 | 8.8 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | | | |
| 36 | 60BS36 | 9.020 | 1.25 | 9.2 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 37 | 60BS37 | 9.260 | 1.25 | 9.9 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 38 | 60BS38 | 9.500 | 1.25 | 10.5 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 39 | 60BS39 | 9.740 | 1.25 | 10.9 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 40 | 60BS40 | 9.980 | 1.25 | 11.2 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 41 | 60BS41 | 10.220 | 1.25 | 11.8 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 42 | 60BS42 | 10.460 | 1.25 | 12.4 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 43 | 60BS43 | 10.700 | 1.25 | 13.0 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 44 | 60BS44 | 10.940 | 1.25 | 13.5 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 45 | 60BS45 | 11.180 | 1.25 | 13.8 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 46 | 60BS46 | 11.420 | 1.25 | 14.1 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 47 | 60BS47 | 11.650 | 1.25 | 14.6 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 48 | 60BS48 | 11.890 | 1.25 | 15.4 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 49 | 60BS49 | 12.130 | 1.25 | 16.4 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 50 | 60BS50 | 12.370 | 1.25 | 17.3 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 51 | 60BS51 | 12.610 | 1.25 | 18.3 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 52 | 60BS52 | 12.850 | 1.25 | 19.3 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 53 | 60BS53 | 13.090 | 1.25 | 20.3 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 54 | 60BS54 | 13.330 | 1.75 | 21.0 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 55 | 60BS55 | 13.570 | 1.75 | 21.2 | | | | | | | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 56 | 60BS56 | 13.810 | 1.75 | 21.3 | | | | | | | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 57 | 60BS57 | 14.040 | 1.75 | 22.2 | | | | | | | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 58 | 60BS58 | 14.280 | 1.75 | 23.0 | | | | | | | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 59 | 60BS59 | 14.520 | 1.75 | 23.8 | | | | | | | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 60 | 60BS60 | 14.760 | 1.75 | 25.0 | | | | | | | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 70 | 60BS70 | 17.150 | 1.75 | 31.4 | | | | | | | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 72 | 60BS72 | 17.630 | 2 | 33.5 | | | | | | | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 80 | 60BS80 | 19.540 | 2 | 41.2 | | | | | | | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 84 | 60BS84 | 20.490 | 2 | 45.8 | | | | | | | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 96 | 60BS96 | 23.360 | 2.25 | 62.3 | | | | | | | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |
| 112 | 60BS112 | 27.180 | 2.25 | 81.0 | | | | | | | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 | 2 | 2.188 | 2.438 |

Hub diameters vary to suit different bore sizes.

W = Winch sprockets – KW 5/16 × 5/32 – One SS at 90°.

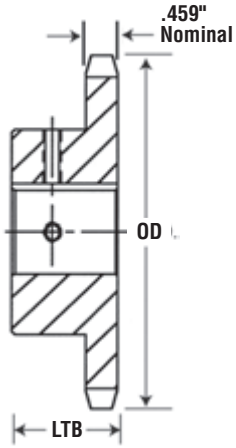
KEYWAY IS ON CENTER LINE OF TOOTH

# All Steel Stock Sprockets

# No. 60 ¾" Pitch

SABER TOOTH®

## No. 60 — Hardened Teeth — 2 Setscrews



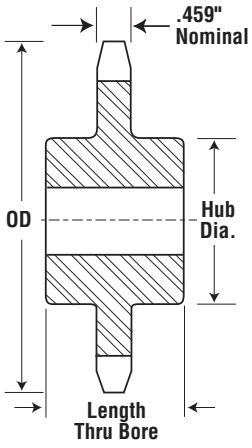

Type BS

| No. Teeth | Catalog Number | OD | LTB | Wt. lb | Stock Finished Bores Includes Keyway and 2 Setscrews | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 60BS9HT | 2.51 | 1.25 | 0.6 | .75 | .875 | 1 | | | | | | | | | |
| 10 | 60BS10HT | 2.76 | 1.25 | 0.7 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | | | | |
| 11 | 60BS11HT | 3.00 | 1.25 | 0.9 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | | | | | |
| 12 | 60BS12HT | 3.25 | 1.25 | 1.3 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | | 1.438 | | | | |
| 13 | 60BS13HT | 3.49 | 1.25 | 1.3 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | | | |
| 14 | 60BS14HT | 3.74 | 1.25 | 1.6 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | | |
| 15 | 60BS15HT | 3.98 | 1.25 | 1.7 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | |
| 16 | 60BS16HT | 4.22 | 1.25 | 2.1 | .75 | .875 | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 |
| 17 | 60BS17HT | 4.46 | 1.25 | 2.4 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 |
| 18 | 60BS18HT | 4.70 | 1.25 | 2.6 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 |
| 19 | 60BS19HT | 4.95 | 1.25 | 3.4 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 |
| 20 | 60BS20HT | 5.19 | 1.25 | 3.9 | | | 1 | 1.125 | 1.188 | 1.25 | 1.375 | 1.438 | 1.5 | 1.625 | 1.75 | 1.938 |

★ Setscrews at 90° and 180° to key.

NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

Martin stock hardened teeth sprockets afford longer chain and sprocket life. Hardened teeth on the smaller sprocket of a roller chain drive are recommended if the drive ratio is four to one or greater or if the smaller sprocket has 24 teeth or less and is running at a speed of over 600 RPM




Type C

## Single - Type C — Steel

| No. Teeth | Catalog Number | OD | Bore (Inches) | | Hub (Inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|
| | | | Stock | Rec. Max. | Diameter | Length | |
| 12 | 60C12 | 3.250 | .75 | 1.375 | 2.375 ★ | 2 | 2.25 |
| 13 | 60C13 | 3.490 | .75 | 1.5 | 2.348 | 2 | 2.75 |
| 14 | 60C14 | 3.740 | .75 | 1.75 | 2.563 | 2 | 3.19 |
| 15 | 60C15 | 3.980 | .75 | 1.875 | 2.875 | 2 | 3.10 |
| 16 | 60C16 | 4.220 | .75 | 2 | 3.0625 | 2 | 4.19 |
| 17 | 60C17 | 4.460 | .75 | 2.25 | 3.25 | 2 | 4.81 |
| 18 | 60C18 | 4.700 | .75 | 2.375 | 3.5 | 2 | 5.62 |

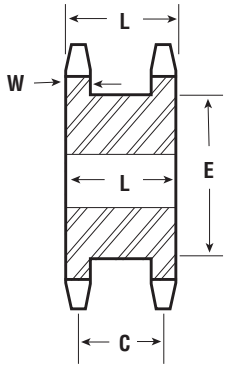
★ Has recessed groove in hub for chain clearance.

# No. 60
## ¾" Pitch

# All Steel Stock Sprockets

## Double Single - Type A — Steel

| No. Teeth | Catalog Number | Diameter | | Type | Min. Bore | Max. Bore | Dimensions | | | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OD | PD | | | | L | C | E | W (Nom.) | |
| 13 | DS60A13 | 3.490 | 3.134 | A | .750 | 1.25 | 1.938 | 1.484 | 2.344 | .459 | 2.6 |
| 14 | DS60A14 | 3.740 | 3.371 | A | .750 | 1.313 | 1.938 | 1.484 | 2.563 | .459 | 3.2 |
| 15 | DS60A15 | 3.980 | 3.607 | A | .750 | 1.5 | 1.938 | 1.484 | 2.875 | .459 | 3.8 |
| 16 | DS60A16 | 4.220 | 3.844 | A | .750 | 1.688 | 1.938 | 1.484 | 3.047 | .459 | 4.5 |
| 17 | DS60A17 | 4.460 | 4.082 | A | .750 | 1.75 | 1.938 | 1.484 | 3.250 | .459 | 5.3 |
| 18 | DS60A18 | 4.700 | 4.319 | A | .750 | 1.875 | 1.938 | 1.484 | 3.500 | .459 | 6.5 |
| 19 | DS60A19 | 4.950 | 4.557 | A | .750 | 2.063 | 1.938 | 1.484 | 3.703 | .459 | 6.8 |
| 20 | DS60A20 | 5.190 | 4.794 | A | .750 | 2.25 | 1.938 | 1.484 | 3.953 | .459 | 7.0 |
| 21 | DS60A21 | 5.430 | 5.032 | A | .750 | 2.75 | 1.938 | 1.484 | 4.188 | .459 | 7.5 |
| 22 | DS60A22 | 5.670 | 5.270 | A | .750 | 2.75 | 1.938 | 1.484 | 4.438 | .459 | 11.0 |
| 23 | DS60A23 | 5.910 | 5.508 | A | .750 | 2.75 | 1.938 | 1.484 | 4.656 | .459 | 11.5 |
| 24 | DS60A24 | 6.150 | 5.749 | A | .750 | 2.75 | 1.938 | 1.484 | 4.906 | .459 | 12.0 |

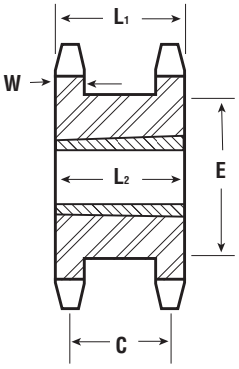


Type A

## Double Single - Taper Bushed — Steel

| No. Teeth | Catalog Number | Bushing Size | Diameter | | Min. Bore | Max. Bore | Type | Dimensions | | | | | Wt. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | | $L_1$ | C | E | $L_2$ | W Nom. | Rim Only |
| 16 | DS60ATB16H | 1615 | 4.220 | 3.844 | .5 | 1.625 | A | 1.938 | 1.484 | 2.984 | 1.5 | .459 | 4.5 |
| 17 | DS60ATB17H | 1615 | 4.460 | 4.002 | .5 | 1.625 | A | 1.938 | 1.484 | 3.219 | 1.5 | .459 | 4.5 |
| 18 | DS60ATB18H | 2012 | 4.700 | 4.319 | .5 | 2 | A | 1.938 | 1.484 | 3.469 | 1.25 | .459 | 5.0 |
| 19 | DS60ATB19H | 2012 | 4.950 | 4.557 | .5 | 2 | A | 1.938 | 1.484 | 3.703 | 1.25 | .459 | 5.8 |
| 20 | DS60ATB20H | 2517 | 5.190 | 4.794 | .5 | 2.5 | A | 1.938 | 1.484 | 3.953 | 1.75 | .459 | 5.6 |
| 21 | DS60ATB21H | 2517 | 5.430 | 5.032 | .5 | 2.5 | A | 1.938 | 1.484 | 4.188 | 1.75 | .459 | 6.4 |
| 23 | DS60ATB23H | 2517 | 5.910 | 5.508 | .5 | 2.5 | A | 1.938 | 1.484 | 4.672 | 1.75 | .459 | 7.3 |
| 24 | DS60ATB24H | 2517 | 6.150 | 5.746 | .5 | 2.5 | A | 1.938 | 1.484 | 4.906 | 1.75 | .459 | 8.2 |

Sprockets with "H" suffix have hardened teeth.

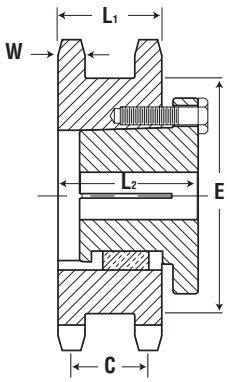


Taper Bush
Type A

## Double Single - MST®— Steel

| No. Teeth | Catalog Number | Bushing Size | Diameter | | Min. Bore | Max. Bore | Type | Dimensions | | | | | Wt. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | | $L_1$ | C | E | $L_2$ | W Nom. | Rim Only |
| 17 | DS60P17H | P1 | 4.460 | 4.002 | .50 | 1.75 | B | 1.938 | 1.484 | 3.219 | 1.938 | .459 | 3.9 |
| 19 | DS60P19H | P1 | 4.950 | 4.557 | .50 | 1.75 | B | 1.938 | 1.484 | 3.703 | 1.938 | .459 | 5.3 |
| 21 | DS60Q21H | Q1 | 5.430 | 5.032 | .75 | 2.688 | B | 1.938 | 1.484 | 4.188 | 2.5 | .459 | 5.4 |
| 22 | DS60Q22H | Q1 | 5.670 | 5.270 | .75 | 2.688 | B | 1.938 | 1.484 | 4.422 | 2.5 | .459 | 6.2 |
| 23 | DS60Q23H | Q1 | 5.910 | 5.508 | .75 | 2.688 | B | 1.938 | 1.484 | 4.672 | 2.5 | .459 | 6.9 |
| 24 | DS60Q24H | Q1 | 6.150 | 5.746 | .75 | 2.688 | B | 1.938 | 1.484 | 4.906 | 2.5 | .459 | 7.6 |

Sprockets with "H" suffix have hardened teeth.

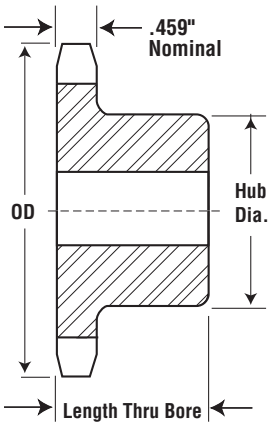


MST® Type B

# Stainless Steel Stock Sprockets

# No. 60 ¾" Pitch

Stainless Steel




Type B

**Alteration Charges**

See current discount sheet for alteration charges.

## Single - Type B — Stainless

## Single - Type A

| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 8 | 60B8SS | 2.261 | B | .625 | .625 | 1.469 ★ | 1.25 | .54 | – | – | – | – |
| 9 | 60B9SS | 2.511 | B | .75 | .875 | 1.563 ★ | 1.25 | .64 | – | – | – | – |
| 10 | 60B10SS | 2.759 | B | .75 | 1.125 | 1.938 ★ | 1.25 | .99 | – | – | – | – |
| 11 | 60B11SS | 3.005 | B | .75 | 1.313 | 2.063 ★ | 1.25 | 1.16 | – | – | – | – |
| 12 | 60B12SS | 3.249 | B | .75 | 1.375 | 2.375 ★ | 1.25 | 1.50 | – | – | – | – |
| 13 | 60B13SS | 3.493 | B | .75 | 1.5 | 2.344 | 1.25 | 1.71 | – | – | – | – |
| 14 | 60B14SS | 3.736 | B | .75 | 1.75 | 2.563 | 1.25 | 2.05 | A | 60A13SS | .75 | .80 |
| 15 | 60B15SS | 3.978 | B | .75 | 1.875 | 2.875 | 1.25 | 2.51 | A | 60A14SS | .75 | .94 |
| 16 | 60B16SS | 4.220 | B | .75 | 2 | 3.063 | 1.25 | 2.88 | A | 60A15SS | .75 | 1.08 |
| 17 | 60B17SS | 4.462 | B | .75 | 2.25 | 3.25 | 1.25 | 3.27 | A | 60A16SS | .75 | 1.24 |
| 18 | 60B18SS | 4.703 | B | .75 | 2.375 | 3.5 | 1.25 | 3.77 | A | 60A17SS | .75 | 1.44 |
| 19 | 60B19SS | 4.945 | B | .75 | 2.375 | 3.5 | 1.25 | 3.98 | A | 60A18SS | .75 | 1.62 |
| 20 | 60B20SS | 5.186 | B | .75 | 2.625 | 3.875 | 1.25 | 4.69 | A | 60A20SS | .75 | 1.84 |
| 21 | 60B21SS | 5.426 | B | .75 | 2.75 | 4 | 1.25 | 5.10 | A | 60A21SS | .75 | 2.34 |
| 22 | 60B22SS | 5.666 | B | .75 | 2.75 | 4 | 1.25 | 5.34 | A | 60A22SS | .75 | 2.56 |
| 23 | 60B23SS | 5.907 | B | .75 | 2.75 | 4 | 1.25 | 5.59 | A | 60A23SS | .75 | 2.81 |
| 24 | 60B24SS | 6.147 | B | .75 | 2.75 | 4 | 1.25 | 5.59 | A | 60A24SS | .719 | 3.08 |
| 25 | 60B25SS | 6.387 | B | .75 | 2.75 | 4 | 1.25 | 6.13 | A | 60A25SS | .719 | 3.35 |
| 26 | 60B26SS | 6.627 | B | .75 | 2.75 | 4 | 1.25 | 6.42 | A | 60A26SS | .719 | 3.67 |
| 28 | 60B28SS | 7.106 | B | .75 | 2.75 | 4 | 1.25 | 7.03 | A | 60A28SS | .719 | 4.28 |
| 30 | 60B30SS | 7.586 | B | .75 | 2.75 | 4 | 1.25 | 7.69 | A | 60A30SS | .719 | 4.94 |
| 32 | 60B32SS | 8.065 | B | .75 | 2.75 | 4 | 1.25 | 5.26 | A | 60A32SS | .719 | 5.52 |
| 35 | 60B35SS | 8.783 | B | 1 | 2.75 | 4 | 1.25 | 9.41 | A | 60A35SS | .938 | 6.74 |
| 36 | 60B36SS | 9.023 | B | 1 | 2.75 | 4 | 1.25 | 9.60 | A | 60A36SS | .938 | 6.82 |
| 40 | 60B40SS | 9.980 | B | 1 | 2.75 | 4.25 | 1.25 | 11.91 | A | 60A40SS | .938 | 8.88 |
| 45 | 60B45SS | 11.176 | B | 1 | 2.75 | 4.25 | 1.25 | 14.34 | A | 60A45SS | .938 | 11.30 |
| 60 | 60B60SS | 14.761 | B | 1.25 | 2.75 | 4.25 | 1.75 | 25.05 | A | 60A60SS | 1.25 | 20.08 |

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Sprockets altered at factory (rebored with keyway and setscrew added) will be supplied with stainless setscrew.

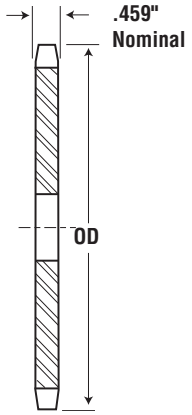
# No. 60
## ¾" Pitch

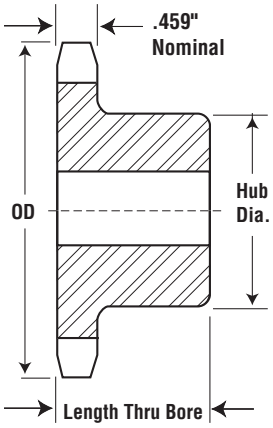
# All Steel Stock Sprockets

Martin

## Single - Type B / Single - Type A

| No. Teeth | Catalog Number | OD | Type | Bore Stock | Bore Rec. Max | Hub Dia. | Hub LTB | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 60B8 | 2.260 | B | .625 | .625 | 1.469 ★ | 1.25 | .54 | – | – | – | – |
| 9 | 60B9 | 2.510 | B | .75 | .875 | 1.563 ★ | 1.25 | .64 | – | – | – | – |
| 10 | 60B10 | 2.760 | B | .75 | 1.125 | 1.938 ★ | 1.25 | .99 | A | 60A10 | .75 | .44 |
| 11 | 60B11 | 3.000 | B | .75 | 1.313 | 2.063 ★ | 1.25 | 1.16 | A | 60A11 | .75 | .54 |
| 12 | 60B12 | 3.250 | B | .75 | 1.375 | 2.375 ★ | 1.25 | 1.47 | A | 60A12 | .75 | .68 |
| 13 | 60B13 | 3.490 | B | .75 | 1.5 | 2.344 | 1.25 | 1.66 | A | 60A13 | .75 | .80 |
| 14 | 60B14 | 3.740 | B | .75 | 1.75 | 2.563 | 1.25 | 2.00 | A | 60A14 | .75 | .94 |
| 15 | 60B15 | 3.980 | B | .75 | 1.875 | 2.875 | 1.25 | 2.51 | A | 60A15 | .75 | 1.08 |
| 16 | 60B16 | 4.220 | B | .75 | 2 | 3.063 | 1.25 | 2.81 | A | 60A16 | .75 | 1.24 |
| 17 | 60B17 | 4.460 | B | .75 | 2.25 | 3.25 | 1.25 | 3.22 | A | 60A17 | .75 | 1.44 |
| 18 | 60B18 | 4.700 | B | .75 | 2.375 | 3.5 | 1.25 | 3.72 | A | 60A18 | .75 | 1.62 |
| 19 | 60B19 | 4.950 | B | .75 | 2.375 | 3.5 | 1.25 | 3.92 | A | 60A19 | .75 | 1.84 |
| 20 | 60B20 | 5.190 | B | .75 | 2.625 | 3.875 | 1.25 | 4.63 | A | 60A20 | .75 | 2.12 |
| 21 | 60B21 | 5.430 | B | .75 | 2.75 | 4 | 1.25 | 5.00 | A | 60A21 | .75 | 2.28 |
| 22 | 60B22 | 5.670 | B | .75 | 2.75 | 4 | 1.25 | 5.25 | A | 60A22 | .75 | 2.48 |
| 23 | 60B23 | 5.910 | B | .75 | 2.75 | 4 | 1.25 | 5.48 | A | 60A23 | .75 | 2.68 |
| 24 | 60B24 | 6.150 | B | .75 | 2.75 | 4 | 1.25 | 5.78 | A | 60A24 | .719 | 3.00 |
| 25 | 60B25 | 6.390 | B | .75 | 2.75 | 4 | 1.25 | 6.13 | A | 60A25 | .719 | 3.34 |
| 26 | 60B26 | 6.630 | B | .75 | 2.75 | 4 | 1.25 | 6.38 | A | 60A26 | .719 | 3.54 |
| 27 | 60B27 | 6.870 | B | .75 | 2.75 | 4 | 1.25 | 6.72 | A | 60A27 | .719 | 3.96 |
| 28 | 60B28 | 7.110 | B | .75 | 2.75 | 4 | 1.25 | 6.88 | A | 60A28 | .719 | 4.14 |
| 29 | 60B29 | 7.350 | B | .75 | 2.75 | 4 | 1.25 | 7.28 | A | 60A29 | .719 | 4.40 |
| 30 | 60B30 | 7.590 | B | .75 | 2.75 | 4 | 1.25 | 7.58 | A | 60A30 | .719 | 4.78 |
| 31 | 60B31 | 7.830 | B | .75 | 2.75 | 4 | 1.25 | 7.72 | A | 60A31 | .719 | 5.24 |
| 32 | 60B32 | 8.070 | B | .75 | 2.75 | 4 | 1.25 | 8.26 | A | 60A32 | .719 | 5.52 |
| 33 | 60B33 | 8.300 | B | 1 | 2.75 | 4 | 1.25 | 8.42 | A | 60A33 | .938 | 5.86 |
| 34 | 60B34 | 8.540 | B | 1 | 2.75 | 4 | 1.25 | 8.80 | A | 60A34 | .938 | 6.16 |
| 35 | 60B35 | 8.780 | B | 1 | 2.75 | 4 | 1.25 | 9.04 | A | 60A35 | .938 | 6.78 |
| 36 | 60B36 | 9.020 | B | 1 | 2.75 | 4 | 1.25 | 9.60 | A | 60A36 | .938 | 6.82 |
| 37 | 60B37 | 9.260 | B | 1 | 2.75 | 4 | 1.25 | 10.24 | A | 60A37 | .938 | 7.52 |
| 38 | 60B38 | 9.500 | B | 1 | 2.75 | 4.25 | 1.25 | 10.84 | A | 60A38 | .938 | 7.84 |
| 39 | 60B39 | 9.740 | B | 1 | 2.75 | 4.25 | 1.25 | 11.36 | A | 60A39 | .938 | 8.28 |
| 40 | 60B40 | 9.980 | B | 1 | 2.75 | 4.25 | 1.25 | 11.50 | A | 60A40 | .938 | 8.56 |
| 41 | 60B41 | 10.220 | B | 1 | 2.75 | 4.25 | 1.25 | 12.14 | A | 60A41 | .938 | 9.10 |
| 42 | 60B42 | 10.460 | B | 1 | 2.75 | 4.25 | 1.25 | 12.74 | A | 60A42 | .938 | 9.84 |
| 43 | 60B43 | 10.700 | B | 1 | 2.75 | 4.25 | 1.25 | 13.00 | A | 60A43 | .938 | 9.74 |
| 44 | 60B44 | 10.940 | B | 1.313 | 2.75 | 4.25 | 1.25 | 13.88 | A | 60A44 | .938 | 10.76 |
| 45 | 60B45 | 11.180 | B | 1.313 | 2.75 | 4.25 | 1.25 | 13.98 | A | 60A45 | .938 | 11.08 |
| 46 | 60B46 | 11.420 | B | 1.313 | 2.75 | 4.25 | 1.25 | 14.60 | A | 60A46 | .938 | 11.50 |
| 47 | 60B47 | 11.650 | B | 1.313 | 2.75 | 4.25 | 1.25 | 15.00 | A | 60A47 | .938 | 12.32 |
| 48 | 60B48 | 11.890 | B | 1.313 | 2.75 | 4.25 | 1.25 | 15.82 | A | 60A48 | .938 | 12.42 |
| 49 | 60B49 | 12.130 | B | 1.313 | 2.75 | 4.25 | 1.25 | 15.90 | A | 60A49 | .938 | 12.92 |
| 50 | 60B50 | 12.370 | B | 1.313 | 2.75 | 4.25 | 1.25 | 17.66 | A | 60A50 | .938 | 13.98 |
| 51 | 60B51 | 12.610 | B | 1.313 | 2.75 | 4.25 | 1.25 | 16.98 | A | 60A51 | .938 | 14.58 |
| 52 | 60B52 | 12.850 | B | 1.313 | 2.75 | 4.25 | 1.25 | 17.93 | A | 60A52 | .938 | 14.60 |
| 53 | 60B53 | 13.090 | B | 1.313 | 2.75 | 4.25 | 1.25 | 17.99 | A | 60A53 | .938 | 15.84 |
| 54 | 60B54 | 13.330 | B | 1.313 | 2.75 | 4.25 | 1.75 | 21.60 | A | 60A54 | .938 | 15.92 |
| 55 | 60B55 | 13.570 | B | 1.25 | 2.75 | 4.25 | 1.75 | 21.14 | A | 60A55 | 1.25 | 16.96 |
| 56 | 60B56 | 13.810 | B | 1.25 | 2.75 | 4.25 | 1.75 | 21.88 | A | 60A56 | 1.25 | 17.60 |
| 57 | 60B57 | 14.040 | B | 1.25 | 2.75 | 4.25 | 1.75 | 22.26 | A | 60A57 | 1.25 | 17.62 |
| 58 | 60B58 | 14.280 | B | 1.25 | 2.75 | 4.25 | 1.75 | 22.80 | A | 60A58 | 1.25 | 19.00 |
| 59 | 60B59 | 14.520 | B | 1.25 | 2.75 | 4.25 | 1.75 | 23.86 | A | 60A59 | 1.25 | 19.20 |
| 60 | 60B60 | 14.760 | B | 1.25 | 2.75 | 4.25 | 1.75 | 25.22 | A | 60A60 | 1.25 | 20.02 |
| 64 | 60B64 | 15.720 | B | 1.25 | 2.75 | 4.25 | 1.75 | 27.40 | A | 60A64 | 1.25 | 23.00 |
| 65 | 60B65 | 15.960 | B | 1.25 | 2.75 | 4.25 | 1.75 | 28.92 | A | 60A65 | 1.25 | 23.24 |
| 66 | – | – | – | – | – | – | – | – | A | 60A66 | 1.25 | 24.42 |
| 68 | 60B68 | 16.670 | B | 1.25 | 2.75 | 4.25 | 1.75 | 30.38 | A | 60A68 | 1.25 | 25.54 |
| 70 | 60B70 | 17.150 | B | 1.25 | 2.75 | 4.25 | 1.75 | 31.98 | A | 60A70 | 1.25 | 27.20 |
| 72 | 60B72 | 17.630 | B | 1.25 | 2.75 | 4.25 | 2 | 34.18 | A | 60A72 | 1.25 | 28.90 |
| 76 | 60B76 | 18.580 | B | 1.25 | 2.75 | 4.25 | 2 | 38.06 | A | 60A76 | 1.25 | 32.34 |
| 80 | 60B80 | 19.540 | B | 1.25 | 2.75 | 4.25 | 2 | 41.88 | A | 60A80 | 1.25 | 45.50 |
| 84 | 60B84 | 20.490 | B | 1.25 | 3.25 | 4.75 | 2 | 46.46 | A | 60A84 | 1.25 | 40.18 |
| 90 | 60B90 | 21.930 | B | 1.25 | 3.313 | 5 | 2.25 | 63.20 | A | 60A90 | 1.25 | 43.44 |
| 96 | 60B96 | 23.360 | B | 1.25 | 3.75 | 5.5 | 2.25 | 63.08 | A | 60A96 | 1.25 | 52.02 |
| 112 | 60B112 | 27.180 | B | 1.25 | 3.75 | 5.5 | 2.25 | 81.78 | A | 60A112 | 1.25 | 70.80 |




**Alteration Charges**

See current discount sheet for alteration charges.

★ Has recessed groove in hub for chain clearance.

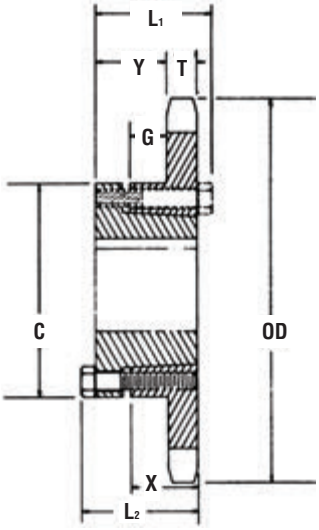
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# All Steel Stock Sprockets

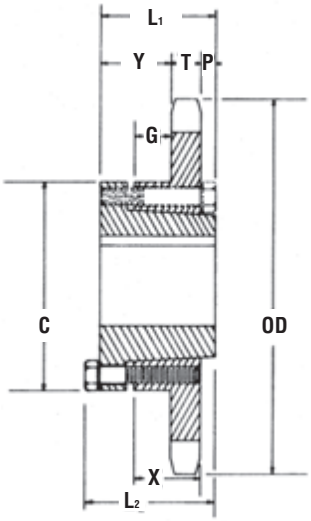
# No. 60 ¾" Pitch

## Single - Type QD With Hardened Teeth

| No. Teeth | Catalog Number |
|---|---|
| 11 | 60JA11H |
| 12 | 60JA12H |
| 13 | 60JA13H |
| 14 | 60SH14H |
| 15 | 60SH15H |
| 16 | 60SH16H |
| 17 | 60SDS17H |
| 18 | 60SDS18H |
| 19 | 60SDS19H |
| 20 | 60SDS20H |
| 21 | 60SDS21H |
| 22 | 60SDS22H |
| 23 | 60SDS23H |
| 24 | 60SDS24H |
| 25 | 60SDS25H |
| 26 | 60SK26H |
| 27 | 60SK27H |
| 28 | 60SK28H |
| 30 | 60SK30H |




QD — Type B




QD — Type B1

SABER TOOTH

## Single - Type QD

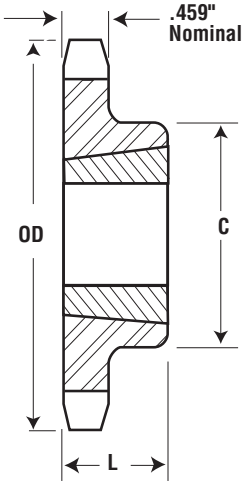
| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | G | X | T | With Hub | Rim Only |
| 11 | 60JA11 | JA | 3.000 | 2.662 | B | 1.25 | 1.125 | 1.125 | 2.063 | .547 | .172 | .625 | .459 | 1.36 | .46 |
| 12 | 60JA12 | JA | 3.250 | 2.898 | B | 1.25 | 1.125 | 1.125 | 2.063 | .547 | .172 | .625 | .459 | 1.5 | .60 |
| 13 | 60JA13 | JA | 3.490 | 3.134 | B | 1.25 | 1.125 | 1.125 | 2.063 | .547 | .172 | .625 | .459 | 1.66 | .76 |
| 14 | 60SH14 | SH | 3.740 | 3.371 | B | 1.625 | 1.438 | 1.438 | 2.688 | .797 | .359 | .813 | .459 | 1.88 | .88 |
| 15 | 60SH15 | SH | 3.980 | 3.607 | B | 1.625 | 1.438 | 1.438 | 2.688 | .797 | .359 | .813 | .459 | 2.08 | 1.08 |
| 16 | 60SH16 | SH | 4.220 | 3.844 | B | 1.625 | 1.438 | 1.438 | 2.688 | .797 | .359 | .813 | .459 | 2.26 | 1.26 |
| 17 | 60SDS17 | SDS | 4.460 | 4.082 | B | 2 | 1.5 | 1.5 | 3.188 | .859 | .297 | .75 | .459 | 2.38 | 1.38 |
| 18 | 60SDS18 | SDS | 4.700 | 4.319 | B | 2 | 1.5 | 1.5 | 3.188 | .859 | .297 | .75 | .459 | 2.56 | 1.56 |
| 19 | 60SDS19 | SDS | 4.950 | 4.557 | B | 2 | 1.5 | 1.5 | 3.188 | .859 | .297 | .75 | .459 | 2.76 | 1.76 |
| 20 | 60SDS20 | SDS | 5.190 | 4.794 | B | 2 | 1.5 | 1.5 | 3.188 | .859 | .297 | .75 | .459 | 3. | 2.00 |
| 21 | 60SDS21 | SDS | 5.430 | 5.032 | B | 2 | 1.5 | 1.5 | 3.188 | .859 | .297 | .75 | .459 | 3.20 | 2.20 |
| 22 | 60SDS22 | SDS | 5.670 | 5.270 | B | 2 | 1.5 | 1.5 | 3.188 | .859 | .297 | .75 | .459 | 3.44 | 2.44 |
| 23 | 60SDS23 | SDS | 5.910 | 5.508 | B | 2 | 1.5 | 1.5 | 3.188 | .859 | .297 | .75 | .459 | 3.70 | 2.70 |
| 24 | 60SDS24 | SDS | 6.150 | 5.746 | B | 2 | 1.5 | 1.5 | 3.188 | .859 | .297 | .75 | .459 | 3.94 | 2.94 |
| 25 | 60SDS25 | SDS | 6.390 | 5.984 | B | 2 | 1.5 | 1.5 | 3.188 | .859 | .297 | .75 | .459 | 4.24 | 3.24 |
| 26 | 60SK26 | SK | 6.630 | 6.222 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.422 | .797 | 1.25 | .459 | 6.18 | 4.18 |
| 27 | 60SK27 | SK | 6.870 | 6.460 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.422 | .797 | 1.25 | .459 | 6.52 | 4.52 |
| 28 | 60SK28 | SK | 7.110 | 6.699 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.422 | .797 | 1.25 | .459 | 6.72 | 4.72 |
| 30 | 60SK30 | SK | 7.590 | 7.175 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.422 | .797 | 1.25 | .459 | 7.34 | 5.34 |
| 32 | 60SK32 | SK | 8.070 | 7.652 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.422 | .797 | 1.25 | .459 | 8.1 | 6.10 |
| 35 | 60SK35 | SK | 8.780 | 8.367 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.422 | .797 | 1.25 | .459 | 9.42 | 7.42 |
| 36 | 60SK36 | SK | 9.020 | 8.605 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.422 | .797 | 1.25 | .459 | 9.70 | 7.70 |
| 40 | 60SK40 | SK | 9.980 | 9.559 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.422 | .797 | 1.25 | .459 | 11.56 | 9.56 |
| 42 | 60SF42 | SF | 10.460 | 10.036 | B | 2.938 | 2.25 | 2.25 | 4.625 | 1.547 | .797 | 1.25 | .459 | 13.78 | 10.78 |
| 45 | 60SF45 | SF | 11.180 | 10.752 | B | 2.938 | 2.25 | 2.25 | 4.625 | 1.547 | .797 | 1.25 | .459 | 15.40 | 12.40 |
| 48 | 60SF48 | SF | 11.890 | 11.467 | B | 2.938 | 2.25 | 2.25 | 4.625 | 1.547 | .797 | 1.25 | .459 | 17.26 | 14.26 |
| 54 | 60SF54 | SF | 13.330 | 12.899 | B | 2.938 | 2.25 | 2.25 | 4.625 | 1.547 | .797 | 1.25 | .459 | 20.02 | 17.02 |
| 60 | 60SF60 | SF | 14.760 | 14.331 | B | 2.938 | 2.25 | 2.25 | 4.625 | 1.547 | .797 | 1.25 | .459 | 23.76 | 20.76 |
| 70 | 60SF70 | SF | 17.150 | 16.717 | B | 2.938 | 2.25 | 2.25 | 4.625 | 1.547 | .797 | 1.25 | .459 | 31.60 | 28.60 |
| 72 | 60SF72 | SF | 17.630 | 17.194 | B | 2.938 | 2.25 | 2.25 | 4.625 | 1.547 | .797 | 1.25 | .459 | 32.58 | 29.58 |
| 80 | 60SF80 | SF | 19.540 | 19.103 | B | 2.938 | 2.25 | 2.25 | 4.625 | 1.547 | .797 | 1.25 | .459 | 41.24 | 38.24 |
| 84 | 60SF84 | SF | 20.490 | 20.058 | B | 2.938 | 2.25 | 2.25 | 4.625 | 1.547 | .797 | 1.25 | .459 | 43.94 | 40.94 |
| 96 | 60SF96 | SF | 23.360 | 22.922 | B | 2.938 | 2.25 | 2.25 | 4.625 | 1.547 | .797 | 1.25 | .459 | 55.40 | 52.40 |
| 112 | 60E112 | E | 27.180 | 26.742 | B1 | 3.5 | 2.625 | 2.938 | 6 | 2.188 | 1.172 | 1.625 | .459 | 83.76 | 73.76 |

# No. 60
# ¾" Pitch

# All Steel Stock Sprockets

## Single - Taper Bushed with Hardened Teeth

| No. Teeth | Catalog Number |
|---|---|
| 11 | 60BTB11H |
| 12 | 60BTB12H |
| 13 | 60BTB13H |
| 14 | 60BTB14H |
| 15 | 60BTB15H |
| 16 | 60BTB16H |
| 17 | 60BTB17H |
| 18 | 60BTB18H |
| 19 | 60BTB19H |
| 20 | 60BTB20H |
| 21 | 60BTB21H |
| 22 | 60BTB22H |
| 23 | 60BTB23H |
| 24 | 60BTB24H |
| 25 | 60BTB25H |
| 26 | 60BTB26H |
| 27 | 60BTB27H |
| 28 | 60BTB28H |
| 30 | 60BTB30H |




Type B

## Single - Taper Bushed

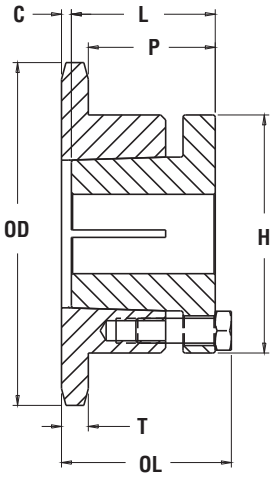
| No. Teeth | Catalog Number | Bushing | Diameter | | Max. Bore | Dimensions | | Type | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | L | C | | Rim Only | Bushing Only |
| 11 | 60BTB11 | 1008 | 3.004 | 2.662 | 1 | 0.875 | 1.813 | B | 0.6 | 0.3 |
| 12 | 60BTB12 | 1008 | 3.249 | 2.898 | 1 | 0.875 | 1.938 | B | 0.8 | 0.3 |
| 13 | 60BTB13 | 1210 | 3.493 | 3.134 | 1.25 | 1 | 2.469 ★ | B | 0.8 | 0.6 |
| 14 | 60BTB14 | 1210 | 3.736 | 3.371 | 1.25 | 1 | 2.594 | B | 1.0 | 0.6 |
| 15 | 60BTB15 | 1610 | 3.979 | 3.607 | 1.625 | 1 | 2.781 | B | 1.0 | 0.9 |
| 16 | 60BTB16 | 1610 | 4.221 | 3.844 | 1.625 | 1 | 3 | B | 1.4 | 0.9 |
| 17 | 60BTB17 | 1610 | 4.462 | 4.082 | 1.625 | 1 | 3.25 | B | 1.8 | 0.9 |
| 18 | 60BTB18 | 1610 | 4.704 | 4.319 | 1.625 | 1 | 3.5 | B | 1.9 | 0.9 |
| 19 | 60BTB19 | 1610 | 4.945 | 4.557 | 1.625 | 1 | 3.5 | B | 2.2 | 0.9 |
| 20 | 60BTB20 | 2012 | 5.185 | 4.794 | 2 | 1.25 | 3.938 | B | 2.2 | 1.7 |
| 21 | 60BTB21 | 2012 | 5.426 | 5.032 | 2 | 1.25 | 4 | B | 2.5 | 1.7 |
| 22 | 60BTB22 | 2012 | 5.666 | 5.270 | 2 | 1.25 | 4 | B | 2.8 | 1.7 |
| 23 | 60BTB23 | 2012 | 5.907 | 5.508 | 2 | 1.25 | 4 | B | 3.1 | 1.7 |
| 24 | 60BTB24 | 2012 | 6.147 | 5.746 | 2 | 1.25 | 3.563 | B | 3.4 | 1.7 |
| 25 | 60BTB25 | 2012 | 6.387 | 5.984 | 2 | 1.25 | 3.563 | B | 3.7 | 1.7 |
| 26 | 60BTB26 | 2012 | 6.627 | 6.222 | 2 | 1.25 | 3.563 | B | 4.0 | 1.7 |
| 27 | 60BTB27 | 2012 | 6.867 | 6.416 | 2 | 1.25 | 3.563 | B | 4.2 | 1.7 |
| 28 | 60BTB28 | 2012 | 7.107 | 6.699 | 2 | 1.25 | 3.563 | B | 4.6 | 1.7 |
| 30 | 60BTB30 | 2012 | 7.586 | 7.175 | 2 | 1.25 | 3.563 | B | 5.2 | 1.7 |
| 32 | 60BTB32 | 2012 | 8.065 | 7.652 | 2 | 1.25 | 3.563 | B | 5.6 | 1.7 |
| 35 | 60BTB35 | 2012 | 8.783 | 8.367 | 2 | 1.25 | 3.563 | B | 6.4 | 1.7 |
| 36 | 60BTB36 | 2012 | 9.022 | 8.605 | 2 | 1.25 | 3.563 | B | 6.6 | 1.7 |
| 40 | 60BTB40 | 2012 | 9.980 | 9.559 | 2 | 1.25 | 3.563 | B | 8.3 | 1.7 |
| 42 | 60BTB42 | 2012 | 10.458 | 10.036 | 2 | 1.25 | 3.563 | B | 10.0 | 1.7 |
| 45 | 60BTB45 | 2012 | 11.175 | 10.752 | 2 | 1.25 | 3.563 | B | 11.5 | 1.7 |
| 48 | 60BTB48 | 2012 | 11.893 | 11.467 | 2 | 1.25 | 3.563 | B | 13.2 | 1.7 |
| 54 | 60BTB54 | 2517 | 13.327 | 12.899 | 2.5 | 1.75 | 4.25 | B | 17.1 | 3.5 |
| 60 | 60BTB60 | 2517 | 14.761 | 14.330 | 2.5 | 1.75 | 4.25 | B | 21.0 | 3.5 |
| 70 | 60BTB70 | 2517 | 17.150 | 16.717 | 2.5 | 1.75 | 4.25 | B | 27.6 | 3.5 |
| 72 | 60BTB72 | 2517 | 17.628 | 17.194 | 2.5 | 1.75 | 4.25 | B | 30.0 | 3.5 |
| 80 | 60BTB80 | 2517 | 19.539 | 19.103 | 2.5 | 1.75 | 4.25 | B | 36.3 | 3.5 |
| 84 | 60BTB84 | 2517 | 20.494 | 20.058 | 2.5 | 1.75 | 4.25 | B | 40.6 | 3.5 |

★ Has recessed groove in hub for chain clearance.

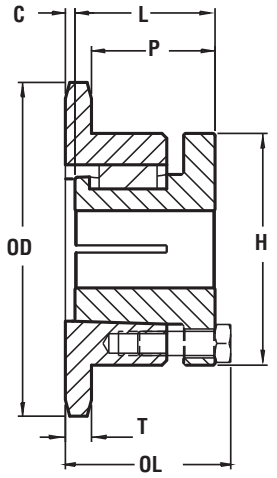
# MST® Stock Sprockets

# No. 60 ¾" Pitch

## Single - MST® Sprockets




Type 3




Type 4

| No. Teeth | Catalog Number | Bushing | Diameter OD | Diameter PD | Type | Max. Bore | Dimensions OL | Dimensions L | Dimensions C | Dimensions H | Dimensions P | Dimensions T (nom.) | Wt. lb (Approx.) With Hub | Wt. lb (Approx.) Rim Only |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 60H11H | H | 3.000 | 2.662 | 3 | 1.5 | 1.813 | 1.25 | 0.375 | 2.5 | 1.156 | .459 | 1.5 | 0.7 |
| 12 | 60H12H | H | 3.250 | 2.898 | 3 | 1.5 | 1.75 | 1.25 | 0.313 | 2.5 | 1.094 | .459 | 1.6 | 0.8 |
| 13 | 60H13H | H | 3.490 | 3.134 | 3 | 1.5 | 1.5 | 1.25 | 0.063 | 2.5 | .844 | .459 | 1.6 | 0.8 |
| 13 | 60P13H | P1 | 3.490 | 3.134 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 2.5 | 1.2 |
| 14 | 60H14H | H | 3.740 | 3.371 | 3 | 1.5 | 1.5 | 1.25 | 0.063 | 2.5 | .844 | .459 | 1.9 | 1.1 |
| 14 | 60P14H | P1 | 3.740 | 3.371 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 2.7 | 1.4 |
| 15 | 60H15H | H | 3.980 | 3.607 | 3 | 1.5 | 1.5 | 1.25 | 0.063 | 2.5 | .844 | .459 | 2.2 | 1.4 |
| 15 | 60P15H | P1 | 3.980 | 3.607 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 3.0 | 1.7 |
| 16 | 60H16H | H | 4.220 | 3.844 | 3 | 1.5 | 1.5 | 1.25 | 0.063 | 2.5 | .844 | .459 | 2.1 | 1.3 |
| 16 | 60P16H | P1 | 4.220 | 3.844 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 3.1 | 1.8 |
| 17 | 60H17H | H | 4.460 | 4.082 | 3 | 1.5 | 1.5 | 1.25 | 0.063 | 2.5 | .844 | .459 | 2.3 | 1.5 |
| 17 | 60P17H | P1 | 4.460 | 4.082 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 3.4 | 2.1 |
| 18 | 60H18H | H | 4.700 | 4.319 | 3 | 1.5 | 1.5 | 1.25 | 0.063 | 2.5 | .844 | .459 | 2.5 | 1.7 |
| 18 | 60P18H | P1 | 4.700 | 4.319 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 3.5 | 2.2 |
| 19 | 60H19H | H | 4.950 | 4.557 | 3 | 1.5 | 1.5 | 1.25 | 0.063 | 2.5 | .844 | .459 | 2.7 | 1.9 |
| 19 | 60P19H | P1 | 4.950 | 4.557 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 3.8 | 2.5 |
| 20 | 60H20H | H | 5.190 | 4.794 | 3 | 1.5 | 1.5 | 1.25 | 0.063 | 2.5 | .844 | .459 | 2.9 | 2.1 |
| 20 | 60P20H | P1 | 5.190 | 4.794 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 4.4 | 3.1 |
| 20 | 60Q20H | Q1 | 5.190 | 4.794 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 7.0 | 3.5 |
| 21 | 60P21H | P1 | 5.430 | 5.032 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 4.2 | 2.9 |
| 21 | 60Q21H | Q1 | 5.430 | 5.032 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 7.1 | 3.6 |
| 22 | 60H22H | H | 5.670 | 5.270 | 3 | 1.5 | 1.5 | 1.25 | 0.063 | 2.5 | .844 | .459 | 3.4 | 2.6 |
| 22 | 60P22H | P1 | 5.670 | 5.270 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 4.5 | 3.2 |
| 22 | 60Q22H | Q1 | 5.670 | 5.270 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 7.5 | 4.0 |
| 23 | 60P23H | P1 | 5.910 | 5.508 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 4.8 | 3.5 |
| 23 | 60Q23H | Q1 | 5.910 | 5.508 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 7.6 | 4.1 |
| 24 | 60H24H | H | 6.150 | 5.746 | 3 | 1.5 | 1.5 | 1.25 | 0.063 | 2.5 | .844 | .459 | 3.8 | 3.0 |
| 24 | 60P24H | P1 | 6.150 | 5.746 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 5.1 | 3.8 |
| 24 | 60Q24H | Q1 | 6.150 | 5.746 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 8.0 | 4.5 |
| 25 | 60P25H | P1 | 6.390 | 5.984 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 5.4 | 4.1 |
| 25 | 60Q25H | Q1 | 6.390 | 5.984 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 9.4 | 5.9 |
| 26 | 60P26H | P1 | 6.630 | 6.222 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 5.6 | 4.3 |
| 26 | 60Q26H | Q1 | 6.630 | 6.222 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 9.8 | 6.3 |
| 27 | 60P27H | P1 | 6.870 | 6.460 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 5.8 | 4.5 |
| 27 | 60Q27H | Q1 | 6.870 | 6.460 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 9.9 | 6.4 |
| 28 | 60P28H | P1 | 7.110 | 6.699 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 6.2 | 4.9 |
| 28 | 60Q28H | Q1 | 7.110 | 6.699 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 10.4 | 6.9 |
| 29 | 60Q29H | Q1 | 7.350 | 6.937 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 10.8 | 7.3 |
| 30 | 60P30H | P1 | 7.590 | 7.175 | 4 | 1.75 | 2.188 | 1.938 | – | 3 | 1.469 | .459 | 6.9 | 5.6 |
| 30 | 60Q30H | Q1 | 7.590 | 7.175 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 11.1 | 7.6 |
| 31 | 60Q31 | Q1 | 7.830 | 7.413 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 11.3 | 7.8 |
| 32 | 60Q32 | Q1 | 8.070 | 7.652 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 11.8 | 8.3 |
| 33 | 60Q33 | Q1 | 8.300 | 7.890 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 12.2 | 8.7 |
| 34 | 60Q34 | Q1 | 8.540 | 8.129 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 12.6 | 9.1 |
| 35 | 60Q35 | Q1 | 8.780 | 8.367 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 12.8 | 9.3 |
| 36 | 60Q36 | Q1 | 9.020 | 8.605 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 13.4 | 9.9 |
| 37 | 60Q37 | Q1 | 9.260 | 8.844 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 13.8 | 10.3 |
| 38 | 60Q38 | Q1 | 9.500 | 9.082 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 14.1 | 10.6 |
| 39 | 60Q39 | Q1 | 9.740 | 9.321 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 14.6 | 11.1 |
| 40 | 60Q40 | Q1 | 9.980 | 9.559 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 15.1 | 11.6 |
| 41 | 60Q41 | Q1 | 10.220 | 9.798 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 15.4 | 11.9 |
| 42 | 60Q42 | Q1 | 10.460 | 10.036 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 16.1 | 12.6 |
| 44 | 60Q44 | Q1 | 10.940 | 10.513 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 16.9 | 13.4 |
| 45 | 60Q45 | Q1 | 11.180 | 10.752 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 17.4 | 13.9 |
| 47 | 60Q47 | Q1 | 11.650 | 11.229 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 19.8 | 16.3 |
| 48 | 60Q48 | Q1 | 11.890 | 11.467 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 19.9 | 16.4 |
| 50 | 60Q50 | Q1 | 12.370 | 11.945 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 20.4 | 16.9 |
| 54 | 60Q54 | Q1 | 13.330 | 12.899 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 23.1 | 19.6 |
| 56 | 60Q56 | Q1 | 13.810 | 13.376 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 23.8 | 20.3 |
| 60 | 60Q60 | Q1 | 14.760 | 14.331 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 26.4 | 22.9 |
| 70 | 60Q70 | Q1 | 17.150 | 16.717 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 34.4 | 30.9 |
| 70 | 60R70 | R1 | 17.150 | 16.717 | 4 | 3.75 | 3.156 | 2.875 | – | 5.375 | 2.406 | .459 | 39.3 | 31.8 |
| 72 | 60Q72 | Q1 | 17.630 | 17.194 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 35.4 | 31.9 |
| 72 | 60R72 | R1 | 17.630 | 17.194 | 4 | 3.75 | 3.156 | 2.875 | – | 5.375 | 2.406 | .459 | 41.6 | 34.1 |
| 80 | 60Q80 | Q1 | 19.540 | 19.103 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 42.6 | 39.1 |
| 80 | 60R80 | R1 | 19.540 | 19.103 | 4 | 3.75 | 3.156 | 2.875 | – | 5.375 | 2.406 | .459 | 49.0 | 41.5 |
| 84 | 60Q84 | Q1 | 20.490 | 20.058 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 45.1 | 41.6 |
| 84 | 60R84 | R1 | 20.490 | 20.058 | 4 | 3.75 | 3.156 | 2.875 | – | 5.375 | 2.406 | .459 | 52.3 | 44.8 |
| 96 | 60Q96 | Q1 | 23.360 | 22.922 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 57.5 | 54.0 |
| 96 | 60R96 | R1 | 23.360 | 22.922 | 4 | 3.75 | 3.156 | 2.875 | – | 5.375 | 2.406 | .459 | 63.5 | 56.0 |
| 112 | 60Q112 | Q1 | 27.180 | 26.742 | 4 | 2.688 | 2.781 | 2.5 | – | 4.125 | 2.031 | .459 | 76.5 | 73.0 |
| 112 | 60R112 | R1 | 27.180 | 26.742 | 4 | 3.75 | 3.156 | 2.875 | – | 5.375 | 2.406 | .459 | 82.0 | 74.5 |

Sprockets with "H" suffix have hardened teeth.

# No. 60-2
## ¾" Pitch

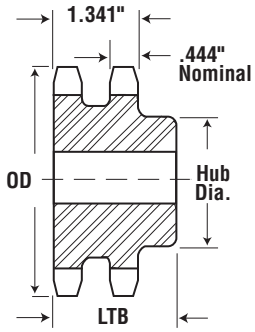
# All Steel Stock Sprockets

## Double - Type B

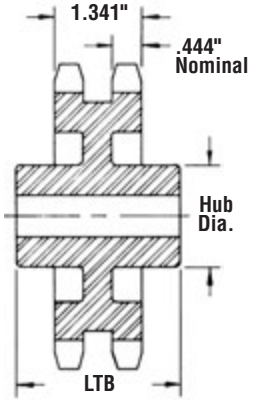
| No. Teeth | Catalog Number | OD | Type | Bore (Inches) | | Hub (Inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | LTB | |
| 11 | D60B11H | 3.000 | B | 1 | 1.25 | 1.813 | 2.125 | 1.62 |
| 12 | D60B12H | 3.250 | B | 1 | 1.438 | 2.125 | 2.125 | 2.20 |
| 13 | D60B13H | 3.490 | B | 1 | 1.5 | 2.25 | 2.125 | 2.60 |
| 14 | D60B14H | 3.740 | B | 1 | 1.75 | 2.5 | 2.125 | 3.24 |
| 15 | D60B15H | 3.980 | B | 1 | 1.875 | 2.813 | 2.125 | 3.96 |
| 16 | D60B16H | 4.220 | B | 1 | 2 | 3 | 2.125 | 4.62 |
| 17 | D60B17H | 4.460 | B | 1 | 2.25 | 3.25 | 2.125 | 5.40 |
| 18 | D60B18H | 4.700 | B | 1 | 2.375 | 3.5 | 2.125 | 6.24 |
| 19 | D60B19H | 4.950 | B | 1 | 2.5 | 3.688 | 2.125 | 7.00 |
| 20 | D60B20H | 5.190 | B | 1 | 2.5 | 3.75 | 2.125 | 7.72 |
| 21 | D60B21H | 5.430 | B | 1 | 2.75 | 4.125 | 2.125 | 8.82 |
| 22 | D60B22H | 5.670 | B | 1 | 2.75 | 4.25 | 2.125 | 9.68 |
| 23 | D60B23H | 5.910 | B | 1 | 2.75 | 4.25 | 2.125 | 10.30 |
| 24 | D60B24H | 6.150 | B | 1 | 2.75 | 4.25 | 2.125 | 11.14 |
| 25 | D60B25H | 6.390 | B | 1 | 2.75 | 4.25 | 2.125 | 11.96 |
| 26 | D60B26 | 6.630 | B | 1 | 2.75 | 4.25 | 2.125 | 12.70 |
| 30 | D60B30 | 7.590 | B | 1 | 2.75 | 4.25 | 2.125 | 16.36 |
| 32 | D60B32 | 8.070 | B | 1.25 | 3 | 4.5 | 2.375 | 19.52 |
| 35 | D60B35 | 8.780 | B | 1.25 | 3 | 4.5 | 2.375 | 22.80 |
| 36 | D60B36 | 9.020 | B | 1.25 | 3 | 4.5 | 2.375 | 23.82 |
| 40 | D60B40 | 9.980 | B | 1.25 | 3.25 | 4.75 | 2.75 | 30.84 |
| 42 | D60B42 | 10.460 | B | 1.25 | 3.25 | 4.75 | 2.75 | 33.08 |
| 45 | D60B45 | 11.180 | B | 1.25 | 3.25 | 4.75 | 2.75 | 37.08 |
| 52 | D60B52 | 12.850 | B | 1.25 | 3.25 | 4.75 | 2.75 | 48.70 |
| 60 | D60B60 | 14.760 | B | 1.25 | 3.25 | 4.75 | 2.75 | 63.10 |
| 68 | D60C68 | 16.670 | C | 1.25 | 3.313 | 5 | 3 | 53.68 |
| 72 | D60C72 | 17.630 | C | 1.25 | 3.313 | 5 | 3 | 53.74 |
| 76 | D60C76 | 18.580 | C | 1.25 | 3.313 | 5 | 3 | 60.28 |
| 95 | D60C95 | 23.120 | C | 1.25 | 3.75 | 5.5 | 3.5 | 87.14 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

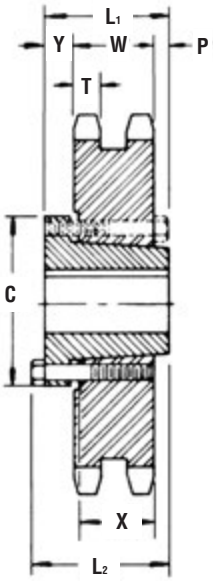
NOTE: Double 50 stock sprockets with 25 teeth or less have hardened teeth, as indicated by H suffix.



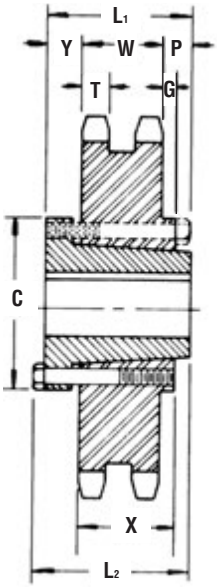

Type B



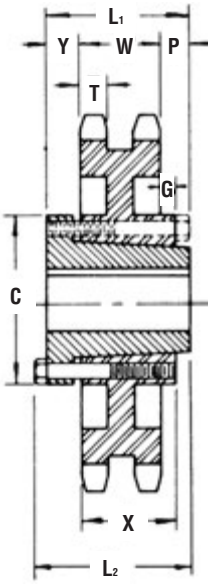

Type C




QD - Type C1




QD - Type C2




QD - Type C4

**Alteration Charges**

See current discount sheet for alteration charges.

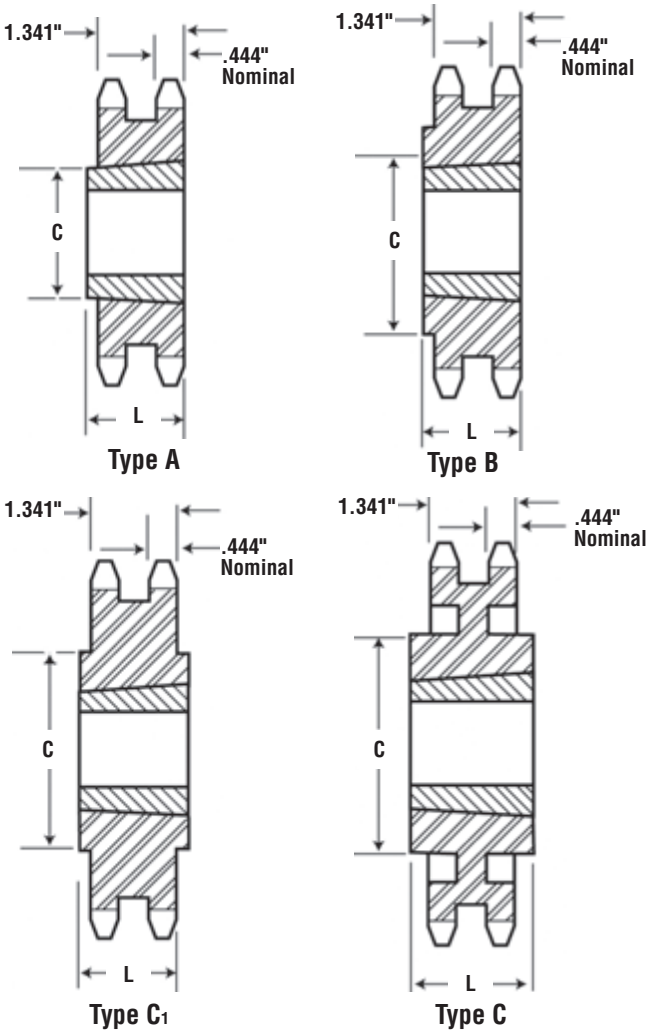
## Double - Type QD

| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | G | X | T | W | With Hub | Rim Only |
| 14 | D60SH14H | SH | 3.740 | 3.371 | B ★ | 1.625 | 1.969 | 1.969 | 2.688 | .5 | – | – | – | .444 | 1.341 | 2.50 | 1.50 |
| 22 | D60SDS22H | SDS | 5.670 | 5.270 | B ★ | 2 | 1.531 | 1.469 | 3.188 | – | – | – | .75 | .444 | 1.341 | 5.44 | 4.44 |
| 36 | D60SF36 | SF | 9.020 | 8.605 | C1 | 2.938 | 2 | 2.25 | 4.625 | 0.75 | – | – | 1.25 | .444 | 1.341 | 19.26 | 16.26 |
| 42 | D60E42 | E | 10.460 | 10.036 | C2 | 3.5 | 2.625 | 2.938 | 6 | .875 | .406 | .281 | 1.625 | .444 | 1.341 | 34.04 | 24.04 |
| 45 | D60E45 | E | 11.180 | 10.752 | C2 | 3.5 | 2.625 | 2.938 | 6 | .875 | .406 | .281 | 1.625 | .444 | 1.341 | 38.26 | 28.36 |
| 52 | D60E52 | E | 12.850 | 12.422 | C2 | 3.5 | 2.625 | 2.938 | 6 | .875 | .406 | .281 | 1.625 | .444 | 1.341 | 49.52 | 39.52 |
| 60 | D60E60 | E | 14.760 | 14.331 | C2 | 3.5 | 2.625 | 2.938 | 6 | .875 | .406 | .281 | 1.625 | .444 | 1.341 | 63.39 | 53.74 |
| 68 | D60E68 | E | 16.670 | 16.240 | C4 | 3.5 | 2.625 | 2.938 | 6 | .875 | .406 | .281 | 1.625 | .444 | 1.341 | 54.32 | 44.32 |
| 76 | D60E76 | E | 18.580 | 18.149 | C4 | 3.5 | 2.625 | 2.938 | 6 | .875 | .406 | .281 | 1.625 | .444 | 1.341 | 61.48 | 51.48 |
| 95 | D60E95 | E | 23.120 | 22.683 | C4 | 3.5 | 2.625 | 2.938 | 6 | .875 | .406 | .281 | 1.625 | .444 | 1.341 | 82.96 | 72.96 |

★ Not illustrated. Dimensions listed correspond approximately to illustrations shown.

# All Steel Stock Sprockets

# No. 60-2
## ¾" Pitch



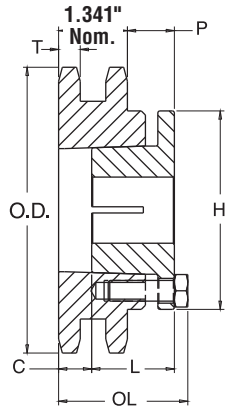

## Double - Taper Bushed

| No. Teeth | Catalog Number | Bushing | Diameters | | Max. Bore. | Dimensions | | Type | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | L | C | | Rim Only | Bushing Only |
| 13 | D60BTB13H | 1215 | 3.493 | 3.134 | 1.25 | 1.5 | 2.25 | B | 1.2 | 1.6 |
| 14 | D60BTB14H | 1215 | 3.736 | 3.371 | 1.25 | 1.5 | 2.5 | B | 1.6 | 1.7 |
| 15 | D60BTB15H | 1615 | 3.979 | 3.607 | 1.625 | 1.5 | 2.813 | B | 1.3 | 1.8 |
| 16 | D60BTB16H | 1615 | 4.221 | 3.844 | 1.625 | 1.5 | 3 | B | 2.2 | 2.3 |
| 17 | D60BTB17H | 1615 | 4.462 | 4.082 | 1.625 | 1.5 | 3.25 | B | 2.5 | 2.8 |
| 18 | D60ATB18H | 2012 | 4.704 | 4.319 | 2 | 1.25 | – | A | 3.0 | 2.4 |
| 19 | D60ATB19H | 2012 | 4.945 | 4.557 | 2 | 1.25 | – | A | 3.5 | 2.9 |
| 20 | D60BTB20H | 2517 | 5.185 | 4.794 | 2.5 | 1.75 | 3.953 | B | 4.0 | 2.9 |
| 21 | D60BTB21H | 2517 | 5.426 | 5.032 | 2.5 | 1.75 | 4.188 | B | 5.0 | 3.8 |
| 25 | D60BTB25H | 2517 | 6.387 | 4.984 | 2.5 | 1.75 | 5.156 | B | 7.5 | 7.4 |
| 30 | D60BTB30 | 2517 | 7.586 | 7.175 | 2.5 | 1.75 | 6.344 | B | 13.5 | 13.3 |
| 36 | D60CTB36 | 2517 | 9.022 | 8.605 | 2.5 | 1.75 | 4.25 | C1 | 17.5 | 17.4 |
| 42 | D60CTB42 | 2517 | 10.458 | 10.036 | 2.5 | 1.75 | 4.25 | C1 | 25.5 | 25.0 |
| 45 | D60CTB45 | 2517 | 11.176 | 10.752 | 2.5 | 1.75 | 4.25 | C1 | 29.5 | 29.3 |
| 52 | D60CTB52 | 2517 | 12.849 | 12.422 | 2.5 | 1.75 | 4.25 | C1 | 41.0 | 40.3 |
| 60 | D60CTB60 | 2517 | 14.761 | 14.330 | 2.5 | 1.75 | 4.25 | C | 32.5 | 33.5 |
| 68 | D60CTB68 | 2517 | 16.672 | 16.240 | 2.5 | 1.75 | 4.5 | C | 36.5 | 43.2 |
| 76 | D60CTB76 | 3020 | 18.583 | 18.149 | 3 | 2 | 5.25 | C | 42.5 | 47.8 |
| 95 | D60CTB95 | 3020 | 23.121 | 22.684 | 3 | 2 | 5.25 | C | 48.5 | 69.8 |

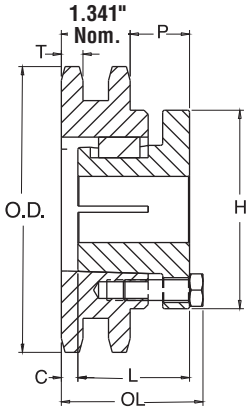
NOTE: Double 60 stock sprockets with 25 teeth or less have hardened teeth, as indicated by H suffix.

# No. 60-2
## ¾" Pitch

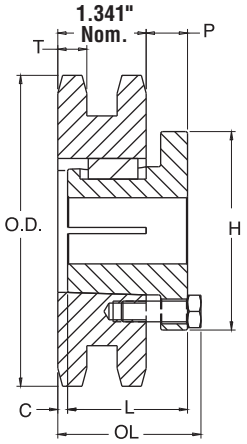
# MST® Sprockets



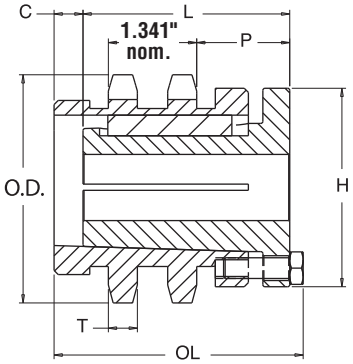

Type 11




Type 12




Type 13




Type 16

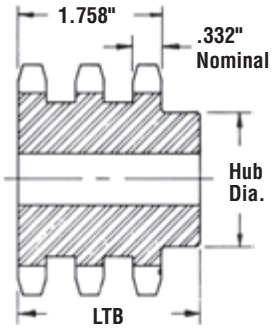
## Double - MST® Sprockets

| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 13 | D60P13H | P1 | 3.490 | 3.134 | 16 | 1.75 | 3.813 | 1.938 | 1.625 | 3 | 1.406 | .444 | 3.8 | 2.5 |
| 14 | D60P14H | P1 | 3.740 | 3.371 | 12 | 1.75 | 3 | 1.938 | .813 | 3 | 1.406 | .444 | 3.6 | 2.3 |
| 15 | D60P15H | P1 | 3.980 | 3.607 | 12 | 1.75 | 3 | 1.938 | .813 | 3 | 1.406 | .444 | 4.0 | 2.7 |
| 16 | D60P16H | P1 | 4.220 | 3.844 | 13 | 1.75 | 2.219 | 1.938 | .031 | 3 | .625 | .444 | 3.7 | 2.4 |
| 17 | D60P17H | P1 | 4.460 | 4.082 | 13 | 1.75 | 2.219 | 1.938 | .031 | 3 | .625 | .444 | 4.1 | 2.8 |
| 18 | D60P18H | P1 | 4.700 | 4.319 | 13 | 1.75 | 2.219 | 1.938 | .031 | 3 | .625 | .444 | 4.7 | 3.4 |
| 19 | D60P19H | P1 | 4.95 | 4.557 | 13 | 1.75 | 2.219 | 1.938 | .031 | 3 | .625 | .444 | 5.3 | 4.0 |
| 20 | D60P20H | P1 | 5.190 | 4.794 | 13 | 1.75 | 2.219 | 1.938 | .031 | 3 | .625 | .444 | 6.0 | 4.7 |
| 21 | D60Q21H | Q1 | 5.430 | 5.032 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.156 | .444 | 8.3 | 4.8 |
| 22 | D60Q22H | Q1 | 5.670 | 5.270 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.156 | .444 | 9.1 | 5.6 |
| 23 | D60Q23H | Q1 | 5.910 | 5.508 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.156 | .444 | 9.8 | 6.3 |
| 24 | D60Q24H | Q1 | 6.15 | 5.746 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.156 | .444 | 10.5 | 7.0 |
| 25 | D60Q25H | Q1 | 6.390 | 5.984 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.156 | .444 | 11.4 | 7.9 |
| 26 | D60Q26H | Q1 | 6.630 | 6.222 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.156 | .444 | 12.3 | 8.8 |
| 27 | D60Q27H | Q1 | 6.870 | 6.460 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.156 | .444 | 13.1 | 9.6 |
| 28 | D60Q28H | Q1 | 7.110 | 6.699 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.156 | .444 | 14.0 | 10.5 |
| 30 | D60Q30H | Q1 | 7.590 | 7.175 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.156 | .444 | 15.8 | 12.3 |
| 32 | D60Q32H | Q1 | 8.070 | 7.652 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.156 | .444 | 17.8 | 14.3 |
| 35 | D60Q35H | Q1 | 8.780 | 8.367 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.156 | .444 | 21.2 | 17.7 |
| 36 | D60Q36H | Q1 | 9.020 | 8.605 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.156 | .444 | 21.9 | 18.4 |
| 40 | D60Q40H | Q1 | 9.980 | 9.559 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.156 | .444 | 27.4 | 23.9 |
| 42 | D60Q42 | Q1 | 10.460 | 10.036 | 12 | 2.688 | 2.781 | 2.5 | | 4.125 | 1.156 | .444 | 29.8 | 26.3 |
| 42 | D60R42 | R1 | 10.460 | 10.036 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 1.531 | .444 | 33.2 | 25.7 |
| 45 | D60R45 | R1 | 11.180 | 10.752 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 1.531 | .444 | 37.7 | 30.2 |
| 48 | D60R48 | R1 | 11.890 | 11.467 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 1.531 | .444 | 42.6 | 35.1 |
| 52 | D60R52 | R1 | 12.85 | 12.422 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 1.531 | .444 | 49.3 | 41.8 |
| 54 | D60R54 | R1 | 13.330 | 12.899 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 1.531 | .444 | 52.6 | 45.1 |
| 60 | D60R60 | R1 | 14.760 | 14.331 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 1.531 | .444 | 62.3 | 54.8 |
| 68 | D60R68 | R1 | 16.670 | 16.240 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 1.531 | .444 | 81.3 | 73.8 |
| 72 | D60R72 | R1 | 17.630 | 17.194 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 1.531 | .444 | 89.3 | 81.8 |
| 76 | D60R76 | R1 | 18.580 | 18.149 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 1.531 | .444 | 100.5 | 93.0 |
| 84 | D60R84 | R1 | 20.490 | 20.058 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 1.531 | .444 | 118.5 | 111.0 |
| 95 | D60R95 | R1 | 23.120 | 22.683 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 1.531 | .444 | 155.5 | 148.0 |
| 96 | D60R96 | R1 | 23.360 | 22.922 | 12 | 3.75 | 3.156 | 2.875 | | 5.375 | 1.531 | .444 | 162.5 | 155.0 |

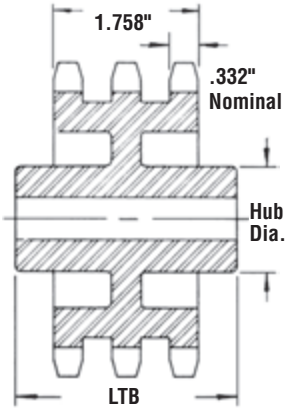
Sprockets with "H" suffix have hardened teeth.

# All Steel Stock Sprockets

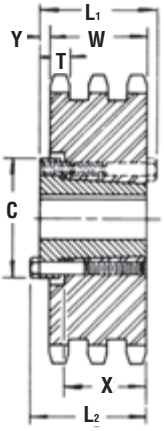
# No. 60-2 ¾" Pitch



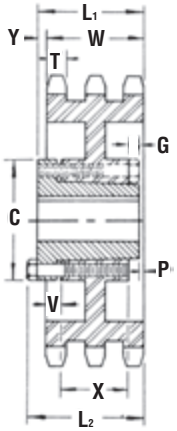

Type B




Type C




QD — Type B




QD — Type B1

## Triple - Type B & C

| No. Teeth | Catalog Number | OD | Type | Bore (inches) | | Hub (inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | Length Thru | |
| 11 | E60B11H | 3.000 | B | 1 | 1.25 | 1.813 | 3 | 2.5 |
| 12 | E60B12H | 3.250 | B | 1 | 1.438 | 2.125 | 3 | 3.3 |
| 13 | E60B13H | 3.490 | B | 1 | 1.5 | 2.25 | 3 | 3.9 |
| 14 | E60B14H | 3.740 | B | 1 | 1.75 | 2.5 | 3 | 4.5 |
| 15 | E60B15H | 3.980 | B | 1 | 1.875 | 2.813 | 3 | 5.4 |
| 16 | E60B16H | 4.220 | B | 1 | 2 | 3 | 3 | 6.5 |
| 17 | E60B17H | 4.460 | B | 1 | 2.25 | 3.25 | 3 | 7.7 |
| 18 | E60B18H | 4.700 | B | 1 | 2.375 | 3.5 | 3 | 8.5 |
| 19 | E60B19H | 4.950 | B | 1 | 2.5 | 3.688 | 3 | 10.0 |
| 20 | E60B20H | 5.190 | B | 1 | 2.5 | 3.75 | 3 | 11.2 |
| 21 | E60B21H | 5.430 | B | 1 | 2.75 | 4.125 | 3 | 12.5 |
| 22 | E60B22H | 5.670 | B | 1 | 2.75 | 4.25 | 3 | 13.2 |
| 23 | E60B23H | 5.910 | B | 1 | 2.75 | 4.25 | 3 | 14.6 |
| 24 | E60B24H | 6.150 | B | 1 | 2.75 | 4.25 | 3 | 15.8 |
| 25 | E60B25H | 6.390 | B | 1 | 2.75 | 4.25 | 3 | 17.0 |
| 26 | E60B26 | 6.630 | B | 1 | 2.75 | 4.25 | 3 | 18.6 |
| 30 | E60B30 | 7.590 | B | 1 | 2.75 | 4.25 | 3 | 23.2 |
| 35 | E60B35 | 8.780 | B | 1.25 | 3 | 4.5 | 3.25 | 34.5 |
| 36 | E60B36 | 9.020 | B | 1.25 | 3 | 4.5 | 3.25 | 37.0 |
| 42 | E60B42 | 10.460 | B | 1.25 | 3.25 | 4.75 | 3.625 | 49.0 |
| 45 | E60B45 | 11.180 | B | 1.25 | 3.25 | 4.75 | 3.625 | 57.0 |
| 52 | E60C52 | 12.850 | C | 1.25 | 3.25 | 4.75 | 3.5 | 73.0 |
| 60 | E60C60 | 14.760 | C | 1.25 | 3.25 | 4.75 | 3.5 | 63.0 |
| 68 | E60C68 | 16.670 | C | 1.25 | 3.25 | 5 | 3.5 | 73.0 |
| 72 | E60C72 | 17.630 | C | 1.25 | 3.25 | 5 | 3.5 | 85.0 |
| 76 | E60C76 | 18.580 | C | 1.5 | 3.75 | 5.5 | 3.5 | 82.0 |
| 95 | E60C95 | 23.120 | C | 1.5 | 3.75 | 5.5 | 4 | 105.0 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

NOTE: Triple 60 stock sprockets with 25 teeth or less have Hardened Teeth. As indicated by H suffix.

**Alteration Charges**

See current discount sheet for alteration charges.

## Triple - Type QD

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | G | V | X | T | W | With Hub | Rim Only |
| 36 | E60E36 | E | 9.020 | 8.605 | B | 3.5 | 2.625 | 2.938 | 6 | .266 | .125 | – | – | 1.625 | .444 | 2.238 | 49.0 | 37.0 |
| 42 | E60E42 | E | 10.460 | 10.036 | B | 3.5 | 2.625 | 2.938 | 6 | .266 | .125 | – | – | 1.625 | .444 | 2.238 | 62.0 | 50.0 |
| 52 | E60E52 | E | 12.850 | 12.422 | B | 3.5 | 2.625 | 2.938 | 6 | .266 | .125 | – | – | 1.625 | .444 | 2.238 | 80.0 | 68.0 |
| 68 | E60E68 | E | 16.670 | 16.240 | B1 | 3.5 | 2.813 | 3.109 | 6 | .563 | .188 | .125 | .313 | 1.625 | .444 | 2.238 | 83.0 | 71.0 |
| 76 | E60E76 | E | 18.580 | 18.149 | B1 | 3.5 | 2.813 | 3.109 | 6 | .563 | .188 | .125 | .313 | 1.625 | .444 | 2.238 | 99.0 | 87.0 |
| 95 | E60E95 | E | 23.120 | 22.683 | B1 | 3.5 | 2.813 | 3.109 | 6 | .563 | .188 | .125 | .313 | 1.625 | .444 | 2.238 | 129.0 | 117.0 |

NOTE: Triple 60 stock sprockets with 25 teeth or less have hardened teeth.

# No. 60-3
## ¾" Pitch

## MST® Sprockets

Martin

### Triple - MST® Sprockets

| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 13 | E60P13H | P2 | 3.49 | 3.134 | 27 | 1.75 | 4.7188 | 2.9375 | 1.5313 | 3 | 1.4063 | .444 | 4.8 | 3.3 |
| 14 | E60P14H | P2 | 3.74 | 3.371 | 22 | 1.75 | 3.9063 | 2.9375 | 1.7188 | 3 | 1.4063 | .444 | 4.8 | 3.3 |
| 15 | E60P15H | P2 | 3.98 | 3.607 | 22 | 1.75 | 3.9063 | 2.9375 | 1.7188 | 3 | 1.4063 | .444 | 5.5 | 4.0 |
| 16 | E60P16H | P1 | 4.22 | 3.844 | 24 | 1.75 | 3 | 1.9375 | .9375 | 3 | .625 | .444 | 4.7 | 3.4 |
| 17 | E60Q17H | Q1 | 4.46 | 4.082 | 27 | 2.6875 | 5 | 3.5 | .4063 | 4.125 | 1.6563 | .444 | 8.1 | 4.6 |
| 18 | E60Q18H | Q1 | 4.7 | 4.319 | 22 | 2.6875 | 4.1875 | 3.5 | .4063 | 4.125 | 1.6563 | .444 | 8.5 | 5.0 |
| 19 | E60Q19H | Q1 | 4.95 | 4.557 | 22 | 2.6875 | 4.1875 | 3.5 | .4063 | 4.125 | 1.6563 | .444 | 9.4 | 5.9 |
| 20 | E60Q20H | Q1 | 5.19 | 4.794 | 22 | 2.6875 | 4.1875 | 3.5 | .4063 | 4.125 | 1.6563 | .444 | 10.5 | 6.2 |
| 21 | E60Q21H | Q1 | 5.43 | 5.032 | 24 | 2.6875 | 3.25 | 2.5 | .4688 | 4.125 | .75 | .444 | 9.2 | 6.4 |
| 22 | E60Q22H | Q1 | 5.67 | 5.27 | 24 | 2.6875 | 3.25 | 2.5 | .4688 | 4.125 | .75 | .444 | 10.1 | 6.6 |
| 23 | E60Q23H | Q1 | 5.91 | 5.508 | 25 | 2.6875 | 2.7813 | 2.5 | | 4.125 | .25 | .444 | 11.2 | 7.7 |
| 24 | E60Q24H | Q1 | 6.15 | 5.746 | 25 | 2.6875 | 2.7813 | 2.5 | | 4.125 | .25 | .444 | 12.3 | 8.8 |
| 25 | E60Q25H | Q1 | 6.39 | 5.984 | 25 | 2.6875 | 2.7813 | 2.5 | | 4.125 | .25 | .444 | 13.5 | 10.0 |
| 26 | E60Q26H | Q1 | 6.63 | 6.222 | 25 | 2.6875 | 2.7813 | 2.5 | | 4.125 | .25 | .444 | 14.6 | 11.1 |
| 27 | E60Q27H | Q1 | 6.87 | 6.46 | 25 | 2.6875 | 2.7813 | 2.5 | | 4.125 | .25 | .444 | 15.9 | 12.4 |
| 28 | E60Q28H | Q1 | 7.11 | 6.699 | 25 | 2.6875 | 2.7813 | 2.5 | | 4.125 | .25 | .444 | 17.1 | 13.6 |
| 30 | E60R30H | R1 | 7.59 | 7.175 | 25 | 3.75 | 3.1563 | 2.875 | | 5.375 | .625 | .444 | 21.5 | 14.0 |
| 32 | E60R32H | R1 | 8.07 | 7.652 | 25 | 3.75 | 3.1563 | 2.875 | | 5.375 | .625 | .444 | 26.5 | 19.0 |
| 35 | E60R35H | R1 | 8.78 | 8.367 | 25 | 3.75 | 3.1563 | 2.875 | | 5.375 | .625 | .444 | 29.5 | 22.0 |
| 36 | E60R36H | R1 | 9.02 | 8.605 | 25 | 3.75 | 3.1563 | 2.875 | | 5.375 | .625 | .444 | 30.9 | 23.4 |
| 40 | E60R40 | R1 | 9.98 | 9.559 | 25 | 3.75 | 3.1563 | 2.875 | | 5.375 | .625 | .444 | 38.8 | 31.3 |
| 42 | E60R42 | R1 | 10.46 | 10.036 | 25 | 3.75 | 3.1563 | 2.875 | | 5.375 | .625 | .444 | 42.8 | 35.3 |
| 52 | E60R52 | R1 | 12.85 | 12.422 | 25 | 3.75 | 3.1563 | 2.875 | | 5.375 | .625 | .444 | 70.7 | 63.2 |

Sprockets with "H" suffix have hardened teeth.

# All Steel Stock Sprockets

# No. 80 1" Pitch

## Single - Type BS — 2 Setscrews — Bored-To-Size

| No. Teeth | Catalog Number | OD | LTB | Wt. lb (Approx.) | Stock Finished Bores Includes Keyway and 2 Setscrews | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 80BS9 | 3.350 | 1.625 | 1.6 | 1 | 1.125 | 1.1875 | 1.25 | | | | | | | | | | | |
| 10 | 80BS10 | 3.680 | 1.625 | 1.7 | 1 | 1.125 | 1.1875 | 1.25 | | | | | | | | | | | |
| 10 | 80BS10W★ | 3.680 | 1.625 | 1.7 | | | | 1.25 | | | | | | | | | | | |
| 11 | 80BS11 | 4.010 | 1.625 | 1.8 | 1 | 1.125 | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | | | | | | | |
| 11 | 80BS11WH★ | 4.010 | 1.625 | 1.8 | | | | 1.25 | | | | | | | | | | | |
| 12 | 80BS12 | 4.330 | 1.625 | 3.0 | 1 | 1.125 | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | | | | | |
| 12 | 80BS12W★ | 4.330 | 1.625 | 3.0 | | | | 1.25 | | | | | | | | | | | |
| 13 | 80BS13 | 4.660 | 1.5 | 3.5 | 1 | 1.125 | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | 1.875 | 1.9375 | 2 | | | |
| 14 | 80BS14 | 4.980 | 1.5 | 4.1 | 1 | 1.125 | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | 1.875 | 1.9375 | 2 | | | |
| 15 | 80BS15 | 5.300 | 1.5 | 5.2 | 1 | 1.125 | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | 1.875 | 1.9375 | 2 | | | |
| 15 | 80BS15W★ | 5.300 | 1.5 | 5.3 | | | | 1.25 | | | | | | | | | | | |
| 16 | 80BS16 | 5.630 | 1.5 | 5.5 | 1 | | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | | |
| 17 | 80BS17 | 5.950 | 1.5 | 6.0 | 1 | | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | |
| 18 | 80BS18 | 6.270 | 1.5 | 6.5 | 1 | | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | |
| 18 | 80BS18W★ | 6.270 | 1.5 | 6.0 | | | | 1.25 | | | 1.5 | | | | | | | | |
| 19 | 80BS19 | 6.590 | 1.5 | 7.0 | 1 | | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | |
| 20 | 80BS20 | 6.910 | 1.5 | 8.0 | 1 | | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | |
| 21 | 80BS21 | 7.240 | 1.75 | 8.9 | 1 | | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | |
| 22 | 80BS22 | 7.560 | 1.75 | 9.5 | 1 | | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | |
| 23 | 80BS23 | 7.880 | 1.75 | 10.2 | 1 | | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | |
| 24 | 80BS24 | 8.200 | 1.75 | 10.8 | 1 | | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | |
| 25 | 80BS25 | 8.520 | 1.75 | 11.4 | 1 | | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | |
| 26 | 80BS26 | 8.840 | 2 | 14.0 | | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 27 | 80BS27 | 9.160 | 2 | 14.7 | | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 28 | 80BS28 | 9.480 | 2 | 15.3 | | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 29 | 80BS29 | 9.800 | 2 | 16.4 | | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 30 | 80BS30 | 10.110 | 2 | 16.7 | | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 31 | 80BS31 | 10.430 | 2 | 18.0 | | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 32 | 80BS32 | 10.750 | 2 | 18.8 | | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 33 | 80BS33 | 11.070 | 2 | 18.9 | | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 34 | 80BS34 | 11.390 | 2 | 20.6 | | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 35 | 80BS35 | 11.710 | 2 | 21.4 | | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 36 | 80BS36 | 12.030 | 2 | 22.4 | | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 37 | 80BS37 | 12.350 | 2 | 23.9 | | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 38 | 80BS38 | 12.670 | 2 | 24.0 | | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 39 | 80BS39 | 12.990 | 2 | 24.9 | | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 40 | 80BS40 | 13.310 | 2 | 26.0 | | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 41 | 80BS41 | 13.630 | 2 | 27.1 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 42 | 80BS42 | 13.940 | 2 | 28.0 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 43 | 80BS43 | 14.260 | 2 | 29.3 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 44 | 80BS44 | 14.580 | 2 | 29.3 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 45 | 80BS45 | 14.900 | 2 | 30.7 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 46 | 80BS46 | 15.220 | 2 | 32.4 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 47 | 80BS47 | 15.540 | 2 | 33.3 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 48 | 80BS48 | 15.860 | 2 | 34.8 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 49 | 80BS49 | 16.180 | 2 | 35.1 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 50 | 80BS50 | 16.500 | 2 | 36.6 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 51 | 80BS51 | 16.810 | 2 | 38.5 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 52 | 80BS52 | 17.130 | 2 | 40.3 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 53 | 80BS53 | 17.450 | 2 | 42.2 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 54 | 80BS54 | 17.770 | 2 | 44.0 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 55 | 80BS55 | 18.090 | 2 | 46.3 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 56 | 80BS56 | 18.410 | 2 | 47.3 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 57 | 80BS57 | 18.730 | 2 | 48.9 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 58 | 80BS58 | 19.040 | 2 | 50.6 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 59 | 80BS59 | 19.360 | 2 | 52.2 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 60 | 80BS60 | 19.680 | 2 | 58.8 | | | | | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |

★ W = Winch Sprockets — KW 5/16 × 5/32 – One S.S. at 90°

Hub diameters vary to suit different bore sizes.

KEYWAY IS ON CENTER LINE OF TOOTH.

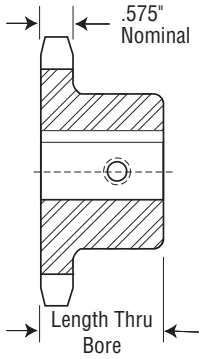
# No. 80
# 1" Pitch

# All Steel Stock Sprockets

## Single Type BS Winch — 1 Setscrew

| No. Teeth | Catalog Number | OD | LTB | Wt. lb (Approx.) | Stock Finished Bores Includes Keyway (see Footnote) and Set Screw at 90° from Keyway | | |
|---|---|---|---|---|---|---|---|
| 10 | 80BS10W | 3.680 | 1.625 | 1.7 | 1.25 | | |
| 11 | 80BS11W | 4.010 | 1.625 | 1.8 | 1.25 | | |
| 12 | 80BS12W | 4.330 | 1.625 | 3.0 | 1.25 | | |
| 15 | 80BS15W | 5.300 | 1.5 | 5.2 | 1.25 | | |
| 18 | 80BS18W | 6.270 | 1.5 | 7.8 | 1.25 | | 1.5 |

Keyway is on center line of tooth.



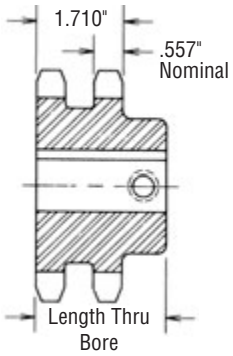

**Single Type BS**

## Double Type BS Winch (Hardened Teeth) — 1 Setscrew

| No. Teeth | Catalog Number | OD | LTB | Wt. lb (Approx.) | Stock Finished Bores Includes Keyway (see Footnote) and Set Screw at 90° from Keyway | | | |
|---|---|---|---|---|---|---|---|---|
| 12 | D80BS12HW | 3.680 | 2.5 | 5.2 | 1.25 | 1.5 | 1.75 | |
| 15 | D80BS15HW | 5.300 | 2.5 | 9.2 | 1.25 | 1.5 | 1.75 | |
| 18 | D80BS18HW | 6.270 | 2.75 | 13.5 | | 1.5 | 1.75 | 2 |
| 20 | D80BS20HW | 6.910 | 2.75 | 16.2 | | 1.5 | 1.75 | 2 |
| 24 | D80BS24HW | 8.200 | 2.75 | 23.2 | | 1.5 | | 2 |

Keyway is on center line of tooth.

Footnote: 1.25" bore has a 5/16 × 5/32" keyway
1.5" bore has a 5/16 × 5/32" keyway
1.75" bore has a 3/8 × 3/16" keyway
2" bore has a 3/8 × 3/16" keyway



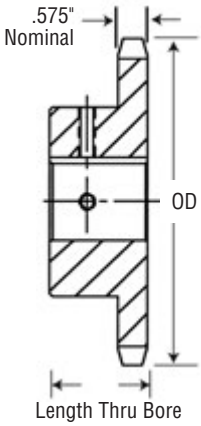

**Double Type BS**

SABER TOOTH®

## Single - Type BS — 2 Setscrews — Bored-To-Size

| No. Teeth | Catalog Number | OD | LTB | Wt. lb | Stock Finished Bores Includes Keyway and 2 Setscrews | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 80BS9HT | 3.350 | 1.625 | 1.6 | 1 | 1.125 | 1.1875 | 1.25 | | | | | | | | | |
| 10 | 80BS10HT | 3.368 | 1.625 | 1.7 | 1 | 1.125 | 1.1875 | 1.25 | | | | | | | | | |
| 11 | 80BS11HT | 4.010 | 1.625 | 1.8 | 1 | 1.125 | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | | | | | |
| 12 | 80BS12HT | 4.330 | 1.625 | 3.0 | 1 | 1.125 | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | | | |
| 13 | 80BS13HT | 4.660 | 1.5 | 3.5 | 1 | 1.125 | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | 1.875 | 1.9375 | 2 | |
| 14 | 80BS14HT | 4.980 | 1.5 | 4.1 | 1 | 1.125 | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | 1.875 | 1.9375 | 2 | |
| 15 | 80BS15HT | 5.300 | 1.5 | 5.2 | 1 | 1.125 | 1.1875 | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | 1.875 | 1.9375 | 2 | |
| 16 | 80BS16HT | 5.630 | 1.5 | 6.1 | 1 | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | |
| 17 | 80BS17HT | 5.950 | 1.5 | 7.0 | 1 | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.4375 |
| 18 | 80BS18HT | 6.270 | 1.5 | 7.8 | 1 | | | 1.25 | 1.375 | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.4375 |
| 19 | 80BS19HT | 6.590 | 1.5 | 8.3 | | | | 1.25 | | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.4375 |
| 20 | 80BS20HT | 6.910 | 1.5 | 9.5 | | | | | | 1.4375 | 1.5 | 1.625 | 1.75 | | 1.9375 | 2 | 2.4375 |

Keyway is on center line of tooth.



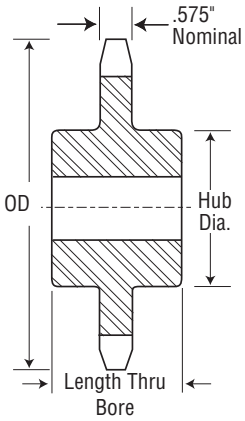

**Type BS**

Martin stock hardened teeth sprockets afford longer chain and sprocket life. Hardened teeth on the smaller sprocket of a roller chain drive are recommended if the drive ratio is four to one or greater or if the smaller sprocket has 24 teeth or less and is running at a speed of over 600 RPM.

## Single - Type C — Steel

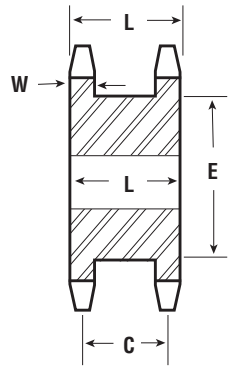
| No. Teeth | Catalog Number | OD | Bore (inches) | | Hub (inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|
| | | | Stock | Rec. Max. | Diameter | Length | |
| 11 | 80C11 | 4.010 | 1 | 1.625 | 2.9062 ★ | 2.375 | 3.87 |
| 12 | 80C12 | 4.330 | 1 | 1.875 | 3.125 ★ | 2.375 | 4.31 |
| 13 | 80C13 | 4.660 | 1 | 2 | 3.0156 | 2.375 | 5.32 |
| 14 | 80C14 | 4.980 | 1 | 2.25 | 3.3438 | 2.375 | 6.44 |
| 15 | 80C15 | 5.300 | 1 | 2.5 | 3.8125 | 2.375 | 7.75 |
| 16 | 80C16 | 5.630 | 1 | 2.75 | 4 | 2.375 | 8.81 |

★ Has recessed groove in hub for chain clearance.

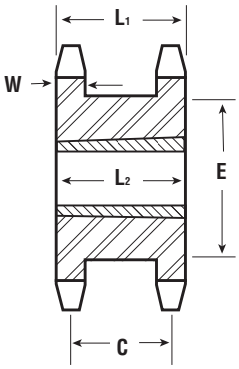


# All Steel Stock Sprockets

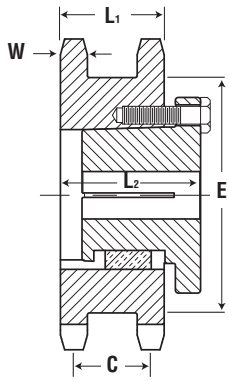
# No. 80 1" Pitch




Type A




Taper Bush
Type A




MST® Type B

## Double Single - Type A — Steel

| No. Teeth | Catalog Number | Diameter | | Type | Min. Bore | Max. Bore | Dimensions | | | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OD | PD | | | | L | C | E | W (Nom.) | |
| 13 | DS80A13 | 4.660 | 4.179 | A | 1 | 2 | 2.1875 | 1.625 | 3.0156 | 0.575 | 6.5 |
| 14 | DS80A14 | 4.980 | 4.494 | A | 1 | 2.25 | 2.1875 | 1.625 | 3.3438 | 0.575 | 7.7 |
| 15 | DS80A15 | 5.300 | 4.810 | A | 1 | 2.375 | 2.1875 | 1.625 | 3.8125 | 0.575 | 9.1 |
| 16 | DS80A16 | 5.630 | 5.126 | A | 1 | 2.6875 | 2.1875 | 1.625 | 4 | 0.575 | 9.5 |
| 17 | DS80A17 | 5.950 | 5.442 | A | 1 | 2.8125 | 2.1875 | 1.625 | 4.3125 | 0.575 | 10.8 |
| 18 | DS80A18 | 6.270 | 5.759 | A | 1 | 3.125 | 2.1875 | 1.625 | 4.6406 | 0.575 | 12.1 |
| 19 | DS80A19 | 6.590 | 6.076 | A | 1 | 3.25 | 2.1875 | 1.625 | 4.9531 | 0.575 | 12.8 |
| 20 | DS80A20 | 6.910 | 6.392 | A | 1 | 3.5 | 2.1875 | 1.625 | 5.2813 | 0.575 | 14.0 |
| 21 | DS80A21 | 7.240 | 6.710 | A | 1 | 3.75 | 2.1875 | 1.625 | 5.5938 | 0.575 | 16.5 |
| 22 | DS80A22 | 7.560 | 7.027 | A | 1 | 3.875 | 2.1875 | 1.625 | 5.9219 | 0.575 | 18.4 |
| 23 | DS80A23 | 7.880 | 7.344 | A | 1 | 3.875 | 2.1875 | 1.625 | 6.2344 | 0.575 | 20.5 |

## Double Single - Taper Bushed— Steel

| No. Teeth | Catalog Number | Bushing Size | Diameter | | Min. Bore | Max. Bore | Type | Dimensions | | | | | Wt. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | | $L_1$ | C | E | $L_2$ | W (Nom.) | Rim Only |
| 17 | DS80ATB17H | 2517 | 5.950 | 5.442 | .5 | 2.5 | A | 2.1875 | 1.625 | 4.3125 | 1.75 | 0.575 | 7.6 |
| 18 | DS80ATB18H | 2517 | 6.270 | 5.759 | .5 | 2.5 | A | 2.1875 | 1.625 | 4.6406 | 1.75 | 0.575 | 8.7 |
| 19 | DS80ATB19H | 3020 | 6.590 | 6.076 | .9375 | 3 | A | 2.1875 | 1.625 | 4.9531 | 2 | 0.575 | 9.7 |
| 20 | DS80ATB20H | 3020 | 6.910 | 6.392 | .9375 | 3 | A | 2.1875 | 1.625 | 5.2813 | 2 | 0.575 | 10.0 |
| 21 | DS80ATB21H | 3020 | 7.240 | 6.710 | .9375 | 3 | A | 2.1875 | 1.625 | 5.5938 | 2 | 0.575 | 12.0 |
| 22 | DS80ATB22H | 3020 | 7.560 | 7.027 | .9375 | 3 | A | 2.1875 | 1.625 | 5.9219 | 2 | 0.575 | 13.0 |
| 23 | DS80ATB23H | 3020 | 7.880 | 7.344 | .9375 | 3 | A | 2.1875 | 1.625 | 6.2344 | 2 | 0.575 | 14.5 |

Sprockets with "H" suffix have hardened teeth.

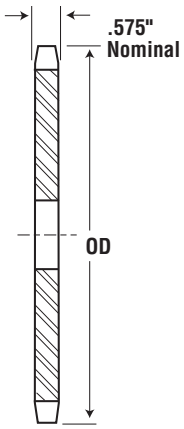
## Double Single - MST®— Steel

| No. Teeth | Catalog Number | Bushing Size | Diameter | | Min. Bore | Max. Bore | Type | Dimensions | | | | | Wt. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | | $L_1$ | C | E | $L_2$ | W (Nom.) | Rim Only |
| 17 | DS80Q17H | Q1 | 5.950 | 5.442 | .75 | 2.6875 | B | 2.1875 | 1.625 | 4.3125 | 3.2344 | 0.575 | 7.2 |
| 19 | DS80Q19H | Q1 | 6.590 | 6.076 | .75 | 2.6875 | B | 2.1875 | 1.625 | 4.9531 | 3.2344 | 0.575 | 10.5 |
| 20 | DS80Q20H | Q1 | 6.910 | 6.392 | .75 | 2.6875 | B | 2.1875 | 1.625 | 5.2813 | 3.2344 | 0.575 | 12.2 |
| 21 | DS80R21H | R1 | 7.240 | 6.710 | 1.125 | 3.75 | B | 2.1875 | 1.625 | 5.5938 | 3.3594 | 0.575 | 12.8 |
| 23 | DS80R23H | R1 | 7.880 | 7.344 | 1.125 | 3.75 | B | 2.1875 | 1.625 | 6.2344 | 3.3594 | 0.575 | 13.3 |

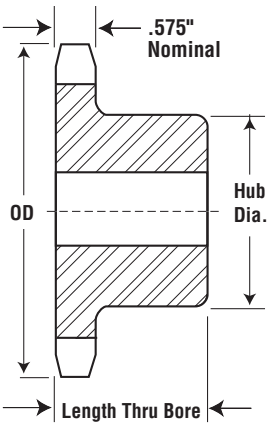
Sprockets with "H" suffix have hardened teeth.

# No. 80
# 1" Pitch

# Stainless Steel Stock Sprockets




Type A




Type B

## Single - Type B — Stainless / Single - Type A

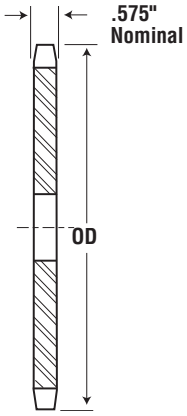
| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 10 | 80B10SS | 3.680 | B | 1 | 1.5 | 2.5625 ★ | 1.625 | 2.14 | – | – | – | – |
| 11 | 80B11SS | 4.010 | B | 1 | 1.625 | 2.8125 ★ | 1.625 | 2.72 | – | – | – | – |
| 12 | 80B12SS | 4.330 | B | 1 | 1.875 | 3.125 ★ | 1.625 | 3.42 | A | 80A12SS | .9375 | 1.50 |
| 13 | 80B13SS | 4.660 | B | 1 | 2 | 3 | 1.5 | 3.53 | A | 80A13SS | .9375 | 1.80 |
| 14 | 80B14SS | 4.980 | B | 1 | 2.25 | 3.25 | 1.5 | 4.19 | A | 80A14SS | .9375 | 2.20 |
| 15 | 80B15SS | 5.300 | B | 1 | 2.5 | 3.8125 | 1.5 | 5.38 | A | 80A15SS | .9375 | 2.50 |
| 16 | 80B16SS | 5.630 | B | 1 | 2.75 | 4 | 1.5 | 6.07 | A | 80A16SS | .9375 | 2.90 |
| 17 | 80B17SS | 5.950 | B | 1 | 2.75 | 4 | 1.5 | 6.45 | A | 80A17SS | .9375 | 3.30 |
| 18 | 80B18SS | 6.270 | B | 1 | 2.75 | 4.25 | 1.5 | 7.34 | A | 80A18SS | .9375 | 3.70 |
| 19 | 80B19SS | 6.590 | B | 1 | 2.75 | 4.25 | 1.5 | 7.80 | A | 80A19SS | .9375 | 4.10 |
| 20 | 80B20SS | 6.910 | B | 1 | 2.75 | 4.25 | 1.5 | 8.22 | A | 80A20SS | .9375 | 4.70 |
| 21 | 80B21SS | 7.240 | B | 1 | 2.75 | 4.25 | 1.75 | 9.40 | A | 80A21SS | .9375 | 5.10 |
| 22 | 80B22SS | 7.560 | B | 1 | 2.75 | 4.25 | 1.75 | 10.00 | A | 80A22SS | .9375 | 5.61 |
| 23 | 80B23SS | 7.880 | B | 1 | 2.75 | 4.25 | 1.75 | 10.70 | A | 80A23SS | .9375 | 6.10 |
| 24 | 80B24SS | 8.200 | B | 1 | 2.75 | 4.25 | 1.75 | 11.36 | A | 80A24SS | .9375 | 6.73 |
| 25 | 80B25SS | 8.520 | B | 1 | 2.75 | 4.25 | 1.75 | 11.90 | A | 80A25SS | .9375 | 7.26 |
| 26 | 80B26SS | 8.840 | B | 1.25 | 3.25 | 4.75 | 2 | 14.57 | A | 80A26SS | 1.1875 | 6.73 |
| 30 | 80B30SS | 10.110 | B | 1.1875 | 3.25 | 4.75 | 2 | 17.50 | A | 80A30SS | 1.1875 | 10.53 |
| 35 | 80B35SS | 11.710 | B | 1.1875 | 3.25 | 4.75 | 2 | 21.48 | A | 80A35SS | 1.1875 | 13.07 |
| 40 | 80B40SS | 13.310 | B | 1.1875 | 3.25 | 4.75 | 2 | 26.00 | A | 80A40SS | 1.1875 | 19.22 |

★ Has recessed groove in hub for chain clearance.

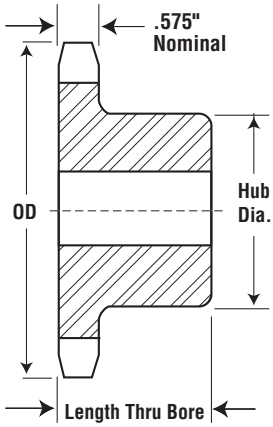
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# All Steel Stock Sprockets

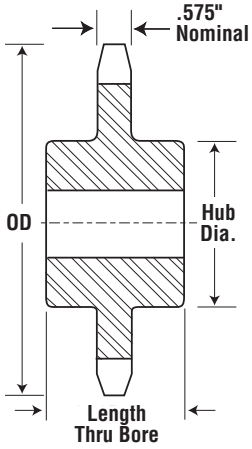
# No. 80 1" Pitch




Type A




Type B




Type C

## Single - Type B & C / Single - Type A

| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 8 | 80B8 | 3.010 | B | 1 | 1 | 1.9375 ★ | 1.625 | 1.4 | – | – | – | – |
| 9 | 80B9 | 3.350 | B | 1 | 1.3125 | 2.25 ★ | 1.625 | 1.6 | A | 80A9 | .9375 | .8 |
| 10 | 80B10 | 3.680 | B | 1 | 1.5 | 2.5625 ★ | 1.625 | 2.2 | A | 80A10 | .9375 | 1.0 |
| 11 | 80B11 | 4.010 | B | 1 | 1.625 | 2.8125 ★ | 1.625 | 3.2 | A | 80A11 | .9375 | 1.3 |
| 12 | 80B12 | 4.330 | B | 1 | 1.875 | 3.125 ★ | 1.625 | 3.4 | A | 80A12 | .9375 | 1.5 |
| 13 | 80B13 | 4.660 | B | 1 | 2 | 3 | 1.5 | 3.5 | A | 80A13 | .9375 | 1.8 |
| 14 | 80B14 | 4.980 | B | 1 | 2.25 | 3.25 | 1.5 | 4.1 | A | 80A14 | .9375 | 2.2 |
| 15 | 80B15 | 5.300 | B | 1 | 2.5 | 3.8125 | 1.5 | 5.3 | A | 80A15 | .9375 | 2.5 |
| 16 | 80B16 | 5.630 | B | 1 | 2.75 | 4 | 1.5 | 5.9 | A | 80A16 | .9375 | 2.9 |
| 17 | 80B17 | 5.950 | B | 1 | 2.75 | 4 | 1.5 | 6.6 | A | 80A17 | .9375 | 3.3 |
| 18 | 80B18 | 6.270 | B | 1 | 2.75 | 4.25 | 1.5 | 7.3 | A | 80A18 | .9375 | 3.7 |
| 19 | 80B19 | 6.590 | B | 1 | 2.75 | 4.25 | 1.5 | 7.8 | A | 80A19 | .9375 | 4.1 |
| 20 | 80B20 | 6.910 | B | 1 | 2.75 | 4.25 | 1.5 | 8.4 | A | 80A20 | .9375 | 4.7 |
| 21 | 80B21 | 7.240 | B | 1 | 2.75 | 4.25 | 1.75 | 9.4 | A | 80A21 | .9375 | 4.9 |
| 22 | 80B22 | 7.560 | B | 1 | 2.75 | 4.25 | 1.75 | 10.0 | A | 80A22 | .9375 | 5.5 |
| 23 | 80B23 | 7.880 | B | 1 | 2.75 | 4.25 | 1.75 | 10.7 | A | 80A23 | .9375 | 6.3 |
| 24 | 80B24 | 8.200 | B | 1 | 2.75 | 4.25 | 1.75 | 11.3 | A | 80A24 | .9375 | 6.7 |
| 25 | 80B25 | 8.520 | B | 1 | 2.75 | 4.25 | 1.75 | 11.9 | A | 80A25 | .9375 | 7.2 |
| 26 | 80B26 | 8.840 | B | 1.25 | 3.25 | 4.75 | 2 | 14.3 | A | 80A26 | 1.1875 | 7.8 |
| 27 | 80B27 | 9.160 | B | 1.25 | 3.25 | 4.75 | 2 | 15.4 | A | 80A27 | 1.1875 | 8.6 |
| 28 | 80B28 | 9.480 | B | 1.25 | 3.25 | 4.75 | 2 | 16.0 | A | 80A28 | 1.1875 | 9.3 |
| 29 | 80B29 | 9.800 | B | 1.1875 | 3.25 | 4.75 | 2 | 17.1 | A | 80A29 | 1.1875 | 9.8 |
| 30 | 80B30 | 10.110 | B | 1.1875 | 3.25 | 4.75 | 2 | 17.4 | A | 80A30 | 1.1875 | 10.7 |
| 31 | 80B31 | 10.430 | B | 1.1875 | 3.25 | 4.75 | 2 | 18.7 | A | 80A31 | 1.1875 | 11.3 |
| 32 | 80B32 | 10.750 | B | 1.1875 | 3.25 | 4.75 | 2 | 19.5 | A | 80A32 | 1.1875 | 12.1 |
| 33 | 80B33 | 11.070 | B | 1.1875 | 3.25 | 4.75 | 2 | 19.6 | A | 80A33 | 1.1875 | 13.6 |
| 34 | 80B34 | 11.390 | B | 1.1875 | 3.25 | 4.75 | 2 | 21.3 | A | 80A34 | 1.1875 | 14.3 |
| 35 | 80B35 | 11.710 | B | 1.1875 | 3.25 | 4.75 | 2 | 22.1 | A | 80A35 | 1.1875 | 14.8 |
| 36 | 80B36 | 12.030 | B | 1.1875 | 3.25 | 4.75 | 2 | 23.1 | A | 80A36 | 1.1875 | 16.1 |
| 37 | 80B37 | 12.350 | B | 1.1875 | 3.25 | 4.75 | 2 | 23.8 | A | 80A37 | 1.1875 | 16.8 |
| 38 | 80B38 | 12.670 | B | 1.1875 | 3.25 | 4.75 | 2 | 24.7 | A | 80A38 | 1.1875 | 17.2 |
| 39 | 80B39 | 12.990 | B | 1.1875 | 3.25 | 4.75 | 2 | 25.6 | A | 80A39 | 1.1875 | 17.9 |
| 40 | 80B40 | 13.310 | B | 1.1875 | 3.25 | 4.75 | 2 | 26.7 | A | 80A40 | 1.1875 | 18.9 |
| 41 | 80B41 | 13.630 | B | 1.25 | 3.25 | 4.75 | 2 | 27.8 | A | 80A41 | 1.25 | 21.0 |
| 42 | 80B42 | 13.940 | B | 1.25 | 3.25 | 4.75 | 2 | 28.7 | A | 80A42 | 1.25 | 21.8 |
| 43 | 80B43 | 14.260 | B | 1.25 | 3.25 | 4.75 | 2 | 29.4 | A | 80A43 | 1.25 | 23.6 |
| 44 | 80B44 | 14.580 | B | 1.25 | 3.25 | 4.75 | 2 | 29.9 | A | 80A44 | 1.25 | 24.3 |
| 45 | 80B45 | 14.900 | B | 1.25 | 3.25 | 4.75 | 2 | 31.4 | A | 80A45 | 1.25 | 25.2 |
| 46 | 80B46 | 15.220 | B | 1.25 | 3.25 | 4.75 | 2 | 33.1 | A | 80A46 | 1.25 | 26.6 |
| 47 | 80B47 | 15.540 | B | 1.25 | 3.25 | 4.75 | 2 | 34.0 | A | 80A47 | 1.25 | 26.4 |
| 48 | 80B48 | 15.860 | B | 1.25 | 3.25 | 4.75 | 2 | 35.5 | A | 80A48 | 1.25 | 27.8 |
| 49 | 80B49 | 16.180 | B | 1.25 | 3.25 | 4.75 | 2 | 35.8 | A | 80A49 | 1.25 | 28.9 |
| 50 | 80B50 | 16.500 | B | 1.25 | 3.25 | 4.75 | 2 | 37.3 | A | 80A50 | 1.25 | 30.9 |
| 51 | 80B51 | 16.810 | B | 1.25 | 3.25 | 4.75 | 2 | 38.6 | A | 80A51 | 1.25 | 32.2 |
| 52 | 80B52 | 17.130 | B | 1.25 | 3.25 | 4.75 | 2 | 39.4 | A | 80A52 | 1.25 | 33.0 |
| 53 | 80B53 | 17.450 | B | 1.25 | 3.25 | 4.75 | 2 | 41.3 | A | 80A53 | 1.25 | 34.9 |
| 54 | 80B54 | 17.770 | B | 1.25 | 3.5 | 5.25 | 2 | 44.7 | A | 80A54 | 1.25 | 36.6 |
| 55 | 80B55 | 18.090 | B | 1.25 | 3.5 | 5.25 | 2 | 45.6 | A | 80A55 | 1.25 | 37.5 |
| 56 | 80B56 | 18.410 | B | 1.25 | 3.5 | 5.25 | 2 | 47.5 | A | 80A56 | 1.25 | 39.4 |
| 57 | 80B57 | 18.730 | B | 1.25 | 3.5 | 5.25 | 2 | 48.5 | A | 80A57 | 1.25 | 40.4 |
| 58 | 80B58 | 19.040 | B | 1.25 | 3.5 | 5.25 | 2 | 50.5 | A | 80A58 | 1.25 | 41.3 |
| 59 | 80B59 | 19.360 | B | 1.25 | 3.5 | 5.25 | 2 | 52.1 | A | 80A59 | 1.25 | 42.9 |
| 60 | 80B60 | 19.680 | B | 1.25 | 3.5 | 5.25 | 2 | 54.5 | A | 80A60 | 1.25 | 45.3 |
| 65 | 80B65 | 21.270 | B | 1.25 | 3.5 | 5.25 | 2 | 61.8 | A | 80A65 | 1.25 | 52.2 |
| 70 | 80C70 | 22.870 | C | 1.5 | 4.25 | 6.25 | 3.5 | 75.7 | A | 80A70 | 1.5 | 59.8 |
| 72 | 80C72 | 23.500 | C | 1.5 | 4.25 | 6.25 | 3.5 | 81.4 | A | 80A72 | 1.5 | 65.7 |
| 76 | 80C76 | 24.780 | C | 1.5 | 4.25 | 6.25 | 3.5 | 87.8 | A | 80A76 | 1.5 | 70.2 |
| 80 | 80C80 | 26.050 | C | 1.5 | 4.25 | 6.25 | 3.5 | 89.9 | A | 80A80 | 1.5 | 79.6 |
| 84 | 80C84 | 27.330 | C | 1.5 | 4.25 | 6.25 | 3.5 | 99.2 | A | 80A84 | 1.5 | 86.1 |
| 90 | 80C90 | 29.240 | C | 1.5 | 4.25 | 6.25 | 3.5 | 106.0 | A | 80A90 | 1.5 | 101.0 |
| 96 | 80C96 | 31.150 | C | 1.5 | 4.25 | 6.25 | 3.5 | 117.0 | A | 80A96 | 1.5 | 120.0 |
| 112 | 80C112 | 36.240 | C | 1.5 | 4.25 | 6.25 | 3.5 | 154.0 | A | 80A112 | 1.5 | 165.0 |

★ Has recessed groove in hub for chain clearance.

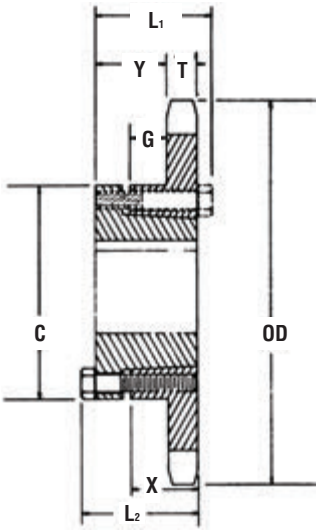
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# No. 80
# 1" Pitch

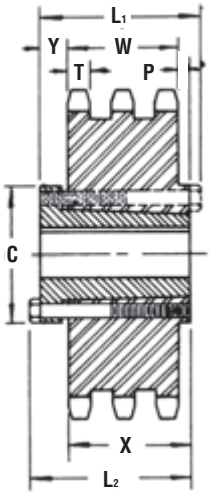
# All Steel Stock Sprockets

## Single - Type QD With Hardened Teeth

| No. Teeth | Catalog Number |
|---|---|
| 11 | 80SH11H |
| 12 | 80SH12H |
| 13 | 80SDS13H |
| 14 | 80SDS14H |
| 15 | 80SK15H |
| 16 | 80SK16H |
| 17 | 80SK17H |
| 18 | 80SK18H |
| 19 | 80SK19H |
| 20 | 80SF20H |
| 21 | 80SF21H |
| 22 | 80SF22H |
| 23 | 80SF23H |
| 24 | 80SF24H |
| 25 | 80SF25H |
| 26 | 80SF26H |
| 27 | 80SF27H |
| 28 | 80SF28H |
| 30 | 80SF30H |




QD — Type B




QD — Type C

## Single - Type QD

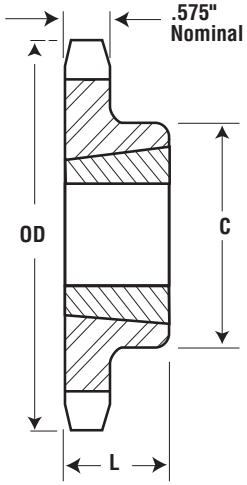
| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | G | X | T | With Hub | Rim Only |
| 11 | 80SH11 | SH | 4.010 | 3.550 | B | 1.625 | 1.4375 | 1.4375 | 2.6875 | 0.6563 | - | 0.2344 | 0.8125 | 0.575 | 2.0 | 1.0 |
| 12 | 80SH12 | SH | 4.330 | 3.864 | B | 1.625 | 1.4375 | 1.4375 | 2.6875 | 0.6563 | - | 0.2344 | 0.8125 | 0.575 | 2.4 | 1.4 |
| 13 | 80SDS13 | SDS | 4.660 | 4.179 | B | 2 | 1.5 | 1.5 | 3.1875 | 0.7344 | - | 0.1719 | 0.75 | 0.575 | 2.5 | 1.5 |
| 14 | 80SDS14 | SDS | 4.980 | 4.494 | B | 2 | 1.5 | 1.5 | 3.1875 | 0.7344 | - | 0.1719 | 0.75 | 0.575 | 2.8 | 1.8 |
| 15 | 80SK15 | SK | 5.300 | 4.810 | B | 2.625 | 2.125 | 2.1250 | 3.875 | 1.2969 | - | 0.6563 | 1.25 | 0.575 | 4.5 | 2.5 |
| 16 | 80SK16 | SK | 5.630 | 5.126 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.2969 | - | 0.6563 | 1.25 | 0.575 | 5.1 | 3.1 |
| 17 | 80SK17 | SK | 5.950 | 5.442 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.2969 | - | 0.6563 | 1.25 | 0.575 | 5.5 | 3.5 |
| 18 | 80SK18 | SK | 6.270 | 5.759 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.2969 | - | 0.6563 | 1.25 | 0.575 | 5.9 | 3.9 |
| 19 | 80SK19 | SK | 6.590 | 6.076 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.2969 | - | 0.6563 | 1.25 | 0.575 | 6.4 | 4.4 |
| 20 | 80SF20 | SF | 6.910 | 6.392 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 8.3 | 5.3 |
| 21 | 80SF21 | SF | 7.240 | 6.710 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 8.7 | 5.7 |
| 22 | 80SF22 | SF | 7.560 | 7.027 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 9.3 | 6.3 |
| 23 | 80SF23 | SF | 7.880 | 7.344 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 9.8 | 6.8 |
| 24 | 80SF24 | SF | 8.200 | 7.661 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 10.5 | 7.5 |
| 25 | 80SF25 | SF | 8.520 | 7.979 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 11.0 | 8.0 |
| 26 | 80SF26 | SF | 8.840 | 8.296 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 11.6 | 8.6 |
| 27 | 80SF27 | SF | 9.160 | 8.614 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 12.4 | 9.4 |
| 28 | 80SF28 | SF | 9.480 | 8.931 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 13.2 | 10.2 |
| 30 | 80SF30 | SF | 10.110 | 9.567 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 14.3 | 11.3 |
| 32 | 80SF32 | SF | 10.750 | 10.202 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 16.0 | 13.0 |
| 33 | 80SF33 | SF | 11.070 | 10.520 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 16.5 | 13.5 |
| 34 | 80SF34 | SF | 11.390 | 10.838 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 17.1 | 14.1 |
| 35 | 80SF35 | SF | 11.710 | 11.156 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 18.5 | 15.5 |
| 36 | 80SF36 | SF | 12.030 | 11.474 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 19.9 | 16.9 |
| 40 | 80SF40 | SF | 13.310 | 12.746 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 23.6 | 20.6 |
| 42 | 80SF42 | SF | 13.940 | 13.382 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 25.4 | 22.4 |
| 45 | 80SF45 | SF | 14.900 | 14.336 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 28.1 | 25.1 |
| 48 | 80SF48 | SF | 15.860 | 15.290 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 31.6 | 28.6 |
| 54 | 80SF54 | SF | 17.770 | 17.198 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 39.8 | 36.8 |
| 60 | 80SF60 | SF | 19.680 | 19.107 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.4219 | - | 0.6563 | 1.25 | 0.575 | 48.8 | 45.8 |
| 70 | 80E70 | E | 22.870 | 22.289 | C | 3.5 | 2.625 | 2.9375 | 6 | 0.875 | 1.1875 | 1.0469 | 1.625 | 0.575 | 65.6 | 55.6 |
| 72 | 80E72 | E | 23.500 | 22.926 | C | 3.5 | 2.625 | 2.9375 | 6 | 0.875 | 1.1875 | 1.0469 | 1.625 | 0.575 | 69.3 | 59.3 |
| 80 | 80E80 | E | 26.050 | 25.471 | C | 3.5 | 2.625 | 2.9375 | 6 | 0.875 | 1.1875 | 1.0469 | 1.625 | 0.575 | 79.2 | 69.2 |
| 84 | 80E84 | E | 27.330 | 26.744 | C | 3.5 | 2.625 | 2.9375 | 6 | 0.875 | 1.1875 | 1.0469 | 1.625 | 0.575 | 84.9 | 74.9 |
| 96 | 80E96 | E | 31.150 | 30.563 | C | 3.5 | 2.625 | 2.9375 | 6 | 0.875 | 1.1875 | 1.0469 | 1.625 | 0.575 | 108.0 | 97.5 |
| 112 | 80F112 | F | 36.240 | 35.655 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 2.0625 | 1.9219 | 2.5 | 0.575 | 145.0 | 134.0 |

# All Steel Stock Sprockets

# No. 80 1" Pitch

## Single - Taper Bushed with Hardened Teeth

| No. Teeth | Catalog Number |
|---|---|
| 10 | 80BTB10H |
| 11 | 80BTB11H |
| 12 | 80BTB12H |
| 13 | 80BTB13H |
| 14 | 80BTB14H |
| 15 | 80BTB15H |
| 16 | 80BTB16H |
| 17 | 80BTB17H |
| 18 | 80BTB18H |
| 19 | 80BTB19H |
| 20 | 80BTB20H |
| 21 | 80BTB21H |
| 22 | 80BTB22H |
| 23 | 80BTB23H |
| 24 | 80BTB24H |
| 25 | 80BTB25H |
| 26 | 80BTB26H |
| 27 | 80BTB27H |
| 28 | 80BTB28H |
| 30 | 80BTB30H |




Type B

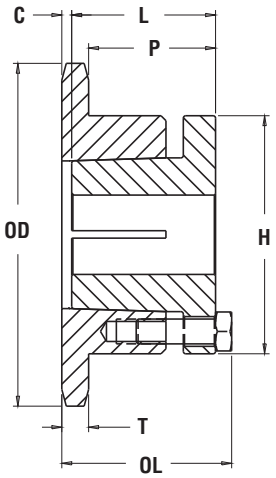
## Single - Taper Bushed

| No. Teeth | Catalog Number | Bushing | Diameter | | Max. Bore | Dimensions | | Type | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | L | C | | Rim Only | Bushing Only |
| 10 | 80BTB10 | 1215 | 3.678 | 3.236 | 1.25 | 1.5 | 2.375 ★ | B | 1.1 | 0.8 |
| 11 | 80BTB11 | 1215 | 4.006 | 3.549 | 1.25 | 1.5 | 2.4688 ★ | B | 1.5 | 0.8 |
| 12 | 80BTB12 | 1615 | 4.332 | 3.864 | 1.625 | 1.5 | 3 ★ | B | 1.8 | 1.2 |
| 13 | 80BTB13 | 1615 | 4.657 | 4.179 | 1.625 | 1.5 | 3 | B | 2.3 | 1.2 |
| 14 | 80BTB14 | 1615 | 4.982 | 4.494 | 1.625 | 1.5 | 3.3438 | B | 2.5 | 1.2 |
| 15 | 80BTB15 | 1615 | 5.305 | 4.810 | 1.625 | 1.5 | 3.5 | B | 2.7 | 1.2 |
| 16 | 80BTB16 | 2012 | 5.627 | 5.126 | 2 | 1.25 | 4 | B | 2.8 | 1.7 |
| 17 | 80BTB17 | 2012 | 5.950 | 5.442 | 2 | 1.25 | 4 | B | 3.1 | 1.7 |
| 18 | 80BTB18 | 2012 | 6.271 | 5.759 | 2 | 1.25 | 3.5625 | B | 2.6 | 1.7 |
| 19 | 80BTB19 | 2012 | 6.593 | 6.076 | 2 | 1.25 | 3.5625 | B | 4.1 | 1.7 |
| 20 | 80BTB20 | 2517 | 6.914 | 6.392 | 2.5 | 1.75 | 4.25 | B | 5.5 | 1.7 |
| 21 | 80BTB21 | 2517 | 7.235 | 6.710 | 2.5 | 1.75 | 4.25 | B | 6.0 | 3.5 |
| 22 | 80BTB22 | 2517 | 7.555 | 7.027 | 2.5 | 1.75 | 4.25 | B | 6.5 | 3.5 |
| 23 | 80BTB23 | 2517 | 7.875 | 7.344 | 2.5 | 1.75 | 4.25 | B | 7.0 | 3.5 |
| 24 | 80BTB24 | 2517 | 8.196 | 7.661 | 2.5 | 1.75 | 4.25 | B | 7.5 | 3.5 |
| 25 | 80BTB25 | 2517 | 8.516 | 7.979 | 2.5 | 1.75 | 4.25 | B | 8.1 | 3.5 |
| 26 | 80BTB26 | 2517 | 8.836 | 8.296 | 2.5 | 1.75 | 4.25 | B | 8.8 | 3.5 |
| 27 | 80BTB27 | 2517 | 9.156 | 8.614 | 2.5 | 1.75 | 4.25 | B | 9.0 | 3.5 |
| 28 | 80BTB28 | 2517 | 9.475 | 8.931 | 2.5 | 1.75 | 4.25 | B | 9.5 | 3.5 |
| 30 | 80BTB30 | 2517 | 10.114 | 9.567 | 2.5 | 1.75 | 4.25 | B | 11.5 | 3.5 |
| 32 | 80BTB32 | 2517 | 10.753 | 10.202 | 2.5 | 1.75 | 4.25 | B | 12.0 | 3.5 |
| 35 | 80BTB35 | 2517 | 11.711 | 11.156 | 2.5 | 1.75 | 4.25 | B | 15.2 | 3.5 |
| 36 | 80BTB36 | 2517 | 12.030 | 11.474 | 2.5 | 1.75 | 4.25 | B | 17.0 | 3.5 |
| 40 | 80BTB40 | 2517 | 13.306 | 12.746 | 2.5 | 1.75 | 4.25 | B | 21.0 | 3.5 |
| 45 | 80BTB45 | 2517 | 14.901 | 14.336 | 2.5 | 1.75 | 4.25 | B | 26.5 | 3.5 |
| 48 | 80BTB48 | 2517 | 15.857 | 15.290 | 2.5 | 1.75 | 4.25 | B | 29.5 | 3.5 |
| 54 | 80BTB54 | 2517 | 17.769 | 17.198 | 2.5 | 1.75 | 4.25 | B | 38.5 | 3.5 |
| 60 | 80BTB60 | 2517 | 19.681 | 19.107 | 2.5 | 1.75 | 4.25 | B | 45.0 | 3.5 |
| 70 | 80BTB70 | 3020 | 22.867 | 22.289 | 3 | 2 | 5.25 | B | 52.3 | 6.5 |
| 80 | 80BTB80 | 3020 | 26.052 | 25.471 | 3 | 2 | 5.25 | B | 69.2 | 6.5 |

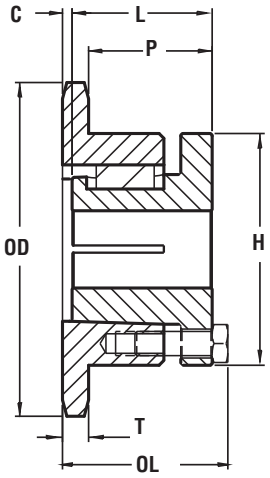
★ Has recessed groove in hub for chain clearance.

# No. 80
# 1" Pitch

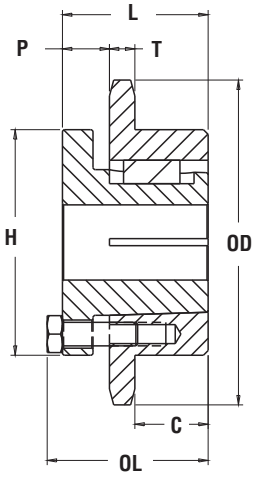
# MST® Sprockets




Type 3




Type 4




Type 5

Sprockets with "H" suffix have hardened teeth.

| No. Teeth | Catalog Number | Bushing | Diameter OD | Diameter PD | Type | Max. Bore | Dimensions OL | Dimensions L | Dimensions C | Dimensions H | Dimensions P | Dimensions T | Wt. lb (Approx.) With Hub | Wt. lb (Approx.) Rim Only |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 80H10H | H | 3.68 | 3.236 | 3 | 1.5 | 2.0938 | 1.25 | .6563 | 2.5 | 1.3281 | .575 | 2.8 | 2 |
| 11 | 80H11H | H | 4.01 | 3.55 | 3 | 1.5 | 1.5 | 1.25 | .0625 | 2.5 | .75 | .575 | 2.1 | 1.3 |
| 11 | 80P11H | P | 4.01 | 3.55 | 4 | 1.75 | 2.3 | 1.9 | .1563 | 3 | 1.5313 | .575 | 2.4 | 1.6 |
| 12 | 80P12H | P1 | 4.33 | 3.864 | 4 | 1.75 | 2.2 | 1.9 | | 3 | 1.375 | .575 | 3.3 | 2 |
| 13 | 80P13H | P1 | 4.66 | 4.179 | 4 | 1.75 | 2.188 | 1.9375 | | 3 | 1.375 | .575 | 3.7 | 2.4 |
| 14 | 80P14H | P1 | 4.98 | 4.494 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.375 | .575 | 3.9 | 2.6 |
| 14 | 80Q14H | Q1 | 4.98 | 4.494 | 4 | 2.6875 | 2.781 | 2.5 | | 4.125 | 1.9375 | .575 | 6.4 | 2.9 |
| 15 | 80P15H | P1 | 5.3 | 4.81 | 4 | 1.75 | 2.188 | 1.938 | | 3 | 1.375 | .575 | 4.3 | 3 |
| 15 | 80Q15H | Q1 | 5.3 | 4.81 | 4 | 2.6875 | 2.781 | 2.5 | | 4.125 | 1.9375 | .575 | 6.9 | 3.4 |
| 16 | 80P16H | P1 | 5.63 | 5.126 | 4 | 1.75 | 2.19 | 1.94 | | 3 | 1.375 | .575 | 4.8 | 3.5 |
| 16 | 80Q16H | Q1 | 5.63 | 5.126 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 8.1 | 4.6 |
| 17 | 80P17H | P1 | 5.95 | 5.442 | 4 | 1.75 | 2.19 | 1.94 | | 3 | 1.375 | .575 | 5.1 | 3.8 |
| 17 | 80Q17H | Q1 | 5.95 | 5.442 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 8.8 | 5.3 |
| 18 | 80P18H | P1 | 6.27 | 5.759 | 4 | 1.75 | 2.19 | 1.94 | | 3 | 1.375 | .575 | 5.7 | 4.4 |
| 18 | 80Q18H | Q1 | 6.27 | 5.759 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 9.5 | 6 |
| 19 | 80P19H | P1 | 6.59 | 6.076 | 4 | 1.75 | 2.19 | 1.94 | | 3 | 1.375 | .575 | 6.2 | 4.9 |
| 19 | 80Q19H | Q1 | 6.59 | 6.076 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 10 | 6.5 |
| 20 | 80Q20H | Q1 | 6.91 | 6.392 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 10.5 | 7 |
| 21 | 80Q21H | Q1 | 7.24 | 6.71 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 10.8 | 7.3 |
| 22 | 80Q22H | Q1 | 7.56 | 7.027 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 11.7 | 8.2 |
| 23 | 80Q23H | Q1 | 7.88 | 7.344 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 12.3 | 8.8 |
| 24 | 80Q24H | Q1 | 8.2 | 7.661 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 12.6 | 9.1 |
| 25 | 80Q25H | Q1 | 8.52 | 7.979 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 13.1 | 9.6 |
| 26 | 80Q26H | Q1 | 8.84 | 8.296 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 14.1 | 10.6 |
| 27 | 80Q27H | Q1 | 9.16 | 8.614 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 14.4 | 10.9 |
| 28 | 80Q28H | Q1 | 9.48 | 8.931 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 15.9 | 12.4 |
| 29 | 80Q29H | Q1 | 9.8 | 9.249 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 16.1 | 12.6 |
| 30 | 80Q30H | Q1 | 10.11 | 9.567 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 16.9 | 13.4 |
| 31 | 80Q31 | Q1 | 10.43 | 9.885 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 17.4 | 13.9 |
| 32 | 80Q32 | Q1 | 10.75 | 10.202 | 4 | 2.6875 | 2.78 | 2.5 | | 4.125 | 1.9375 | .575 | 18.3 | 14.8 |
| 33 | 80Q33 | Q1 | 11.07 | 10.52 | 4 | 2.6875 | 2.781 | 2.5 | | 4.125 | 1.9375 | .575 | 19 | 15.5 |
| 34 | 80Q34 | Q1 | 11.39 | 10.838 | 4 | 2.6875 | 2.781 | 2.5 | | 4.125 | 1.9375 | .575 | 19.8 | 16.3 |
| 35 | 80Q35 | Q1 | 11.71 | 11.156 | 4 | 2.6875 | 2.781 | 2.5 | | 4.125 | 1.9375 | .575 | 21.3 | 17.8 |
| 36 | 80Q36 | Q1 | 12.03 | 11.474 | 4 | 2.6875 | 2.781 | 2.5 | | 4.125 | 1.9375 | .575 | 21.6 | 18.1 |
| 36 | 80R36 | R1 | 12.03 | 11.474 | 4 | 3.75 | 3.156 | 2.875 | | 5.375 | 2.3125 | .575 | 27 | 19.5 |
| 37 | 80Q37 | Q1 | 12.35 | 11.792 | 4 | 2.6875 | 2.781 | 3 | | 4 | 1.9375 | .575 | 22 | 18.5 |
| 38 | 80Q38 | Q1 | 12.67 | 12.11 | 4 | 2.6875 | 2.7813 | 2.5 | | 4.125 | 1.9375 | .575 | 23.5 | 20 |
| 39 | 80R39 | R1 | 12.99 | 12.428 | 4 | 3.75 | 3.1563 | 2.875 | | 5.375 | 2.3125 | .575 | 30.3 | 22.8 |
| 40 | 80Q40 | Q1 | 13.31 | 12.746 | 4 | 2.6875 | 2.7813 | 2.5 | | 4.125 | 1.9375 | .575 | 25.4 | 21.9 |
| 40 | 80R40 | R1 | 13.31 | 12.746 | 4 | 3.75 | 3.1563 | 2.875 | | 5.375 | 2.3125 | .575 | 30.9 | 23.4 |
| 41 | 80R41 | R1 | 13.63 | 13.064 | 4 | 3.75 | 3.1563 | 2.875 | | 5.375 | 2.3125 | .575 | 31.4 | 23.9 |
| 42 | 80Q42 | Q1 | 13.94 | 13.382 | 4 | 2.6875 | 2.7813 | 2.5 | | 4.125 | 1.9375 | .575 | 27.3 | 23.8 |
| 42 | 80R42 | R1 | 13.94 | 13.382 | 4 | 3.75 | 3.1563 | 2.875 | | 5.375 | 2.3125 | .575 | 32.9 | 25.4 |
| 44 | 80R44 | R1 | 14.58 | 14.018 | 4 | 3.75 | 3.1563 | 2.875 | | 5.375 | 2.3125 | .575 | 34.7 | 27.2 |
| 45 | 80Q45 | Q1 | 14.9 | 14.336 | 4 | 2.6875 | 2.7813 | 2.5 | | 4.125 | 1.9375 | .575 | 31.3 | 27.8 |
| 45 | 80R45 | R1 | 14.9 | 14.336 | 4 | 3.75 | 3.1563 | 2.875 | | 5.375 | 2.3125 | .575 | 36 | 28.5 |
| 47 | 80R47 | R1 | 15.54 | 14.972 | 4 | 3.75 | 3.1563 | 2.875 | | 5.375 | 2.3125 | .575 | 38.5 | 31 |
| 48 | 80Q48 | Q1 | 15.86 | 15.29 | 4 | 2.6875 | 2.7813 | 2.5 | | 4.125 | 1.9375 | .575 | 34.3 | 30.8 |
| 48 | 80R48 | R1 | 15.86 | 15.29 | 4 | 3.75 | 3.1563 | 2.875 | | 5.375 | 2.3125 | .575 | 39.8 | 32.3 |
| 50 | 80R50 | R1 | 16.5 | 15.926 | 4 | 3.75 | 3.1563 | 2.875 | | 5.375 | 2.3125 | .575 | 42.6 | 35.1 |
| 54 | 80Q54 | Q1 | 17.77 | 17.198 | 4 | 2.6875 | 2.7813 | 2.5 | | 4.125 | 1.9375 | .575 | 42 | 38.5 |
| 54 | 80R54 | R1 | 17.77 | 17.198 | 4 | 3.75 | 3.1563 | 2.875 | | 5.375 | 2.3125 | .575 | 48.3 | 40.8 |
| 56 | 80R56 | R1 | 18.41 | 17.835 | 4 | 3.75 | 3.1563 | 2.875 | | 5.375 | 2.3125 | .575 | 51.5 | 44 |
| 60 | 80Q60 | Q1 | 19.68 | 19.107 | 4 | 2.6875 | 2.7813 | 2.5 | | 4.125 | 1.9375 | .575 | 50.3 | 46.8 |
| 60 | 80R60 | R1 | 19.68 | 19.107 | 4 | 3.75 | 3.1563 | 2.875 | | 5.375 | 2.3125 | .575 | 54.8 | 47.3 |
| 70 | 80Q70 | Q1 | 22.87 | 22.289 | 4 | 2.6875 | 2.7813 | 2.5 | | 4.125 | 2.3125 | .575 | 63.5 | 60 |
| 70 | 80R70 | R1 | 22.87 | 22.289 | 4 | 3.75 | 3.1563 | 2.875 | | 5.375 | 2.3125 | .575 | 71 | 63.5 |
| 72 | 80Q72 | Q1 | 23.5 | 22.926 | 4 | 2.6875 | 2.7813 | 2.5 | | 4.125 | 2.3125 | .575 | 71 | 67.5 |
| 72 | 80R72 | R1 | 23.5 | 22.926 | 5 | 3.75 | 3.1563 | 2.875 | 1.4375 | 5.375 | .875 | .575 | 76.9 | 69.4 |
| 80 | 80R80 | R1 | 26.05 | 25.471 | 5 | 3.75 | 3.1563 | 2.875 | 1.4375 | 5.375 | .875 | .575 | 92.5 | 85 |
| 84 | 80R84 | R1 | 27.33 | 26.744 | 5 | 3.75 | 3.1563 | 2.875 | 1.4375 | 5.375 | .875 | .575 | 97.5 | 90 |
| 96 | 80R96 | R1 | 31.15 | 30.563 | 5 | 3.75 | 3.1563 | 2.875 | 1.4375 | 5.375 | .875 | .575 | 117.5 | 110 |
| 112 | 80S112 | S1 | 36.24 | 36.655 | 5 | 4.25 | 4.75 | 4.375 | 2.75 | 6.375 | 1.125 | .575 | 178.5 | 165 |

# All Steel Stock Sprockets

# No. 80-2 1" Pitch

## Double - Type B & C

| No. Teeth | Catalog Number | OD | Type | Bore (Inches) | | Hub (Inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | LTB | |
| 10 | D80B10H | 3.680 | B | 1 | 1.625 | 2.5625 | 2.75 | 3.6 |
| 11 | D80B11H | 4.010 | B | 1 | 1.75 | 2.5 | 2.5 | 4.0 |
| 12 | D80B12H | 4.330 | B | 1 | 1.875 | 2.8438 | 2.5 | 5.1 |
| 13 | D80B13H | 4.660 | B | 1 | 2.25 | 3.1563 | 2.5 | 6.3 |
| 14 | D80B14H | 4.980 | B | 1 | 2.375 | 3.4688 | 2.5 | 7.6 |
| 15 | D80B15H | 5.300 | B | 1 | 2.5 | 3.7969 | 2.5 | 9.0 |
| 16 | D80B16H | 5.630 | B | 1 | 2.75 | 4 | 2.75 | 11.0 |
| 17 | D80B17H | 5.950 | B | 1 | 3 | 4.4219 | 2.75 | 13.2 |
| 18 | D80B18H | 6.270 | B | 1 | 3.25 | 4.7344 | 2.75 | 15.0 |
| 19 | D80B19H | 6.590 | B | 1 | 3.3125 | 5 | 2.75 | 17.0 |
| 20 | D80B20H | 6.910 | B | 1 | 3.3125 | 5 | 2.75 | 18.2 |
| 21 | D80B21H | 7.240 | B | 1 | 3.3125 | 5 | 2.75 | 19.6 |
| 22 | D80B22H | 7.560 | B | 1 | 3.3125 | 5 | 2.75 | 21.0 |
| 23 | D80B23H | 7.880 | B | 1 | 3.3125 | 5 | 2.75 | 22.8 |
| 24 | D80B24H | 8.200 | B | 1 | 3.5 | 5.25 | 2.75 | 25.1 |
| 25 | D80B25H | 8.520 | B | 1 | 3.5 | 5.25 | 3 | 28.3 |
| 26 | D80B26 | 8.840 | B | 1 | 3.5 | 5.25 | 3 | 29.9 |
| 30 | D80B30 | 10.110 | B | 1.25 | 3.75 | 5.75 | 3 | 39.5 |
| 32 | D80B32 | 10.750 | B | 1.25 | 3.75 | 5.75 | 3 | 43.8 |
| 35 | D80B35 | 11.710 | B | 1.25 | 3.75 | 5.75 | 3 | 49.1 |
| 36 | D80B36 | 12.030 | B | 1.25 | 3.75 | 5.75 | 3.125 | 54.2 |
| 42 | D80B42 | 13.940 | B | 1.25 | 3.75 | 5.75 | 3.125 | 71.5 |
| 45 | D80B45 | 14.900 | B | 1.25 | 3.75 | 5.75 | 3.125 | 73.5 |
| 52 | D80C52 | 17.130 | C | 1.5 | 3.75 | 5.75 | 3.75 | 78.4 |
| 60 | D80C60 | 19.680 | C | 1.5 | 3.75 | 5.75 | 3.75 | 93.3 |
| 68 | D80C68 | 22.230 | C | 1.5 | 3.8125 | 6 | 4 | 96.2 |
| 76 | D80C76 | 24.780 | C | 1.5 | 3.8125 | 6 | 4 | 113.0 |
| 95 | D80C95 | 30.830 | C | 1.5 | 4 | 6 | 4.25 | 165.0 |

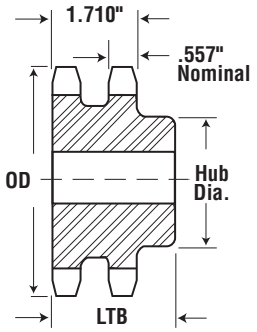
★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

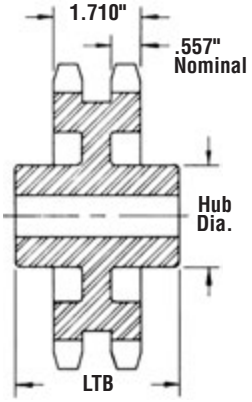
NOTE: Double 80 stock sprockets with 25 teeth or less have hardened teeth, as indicated by H suffix.

**Alteration Charges**

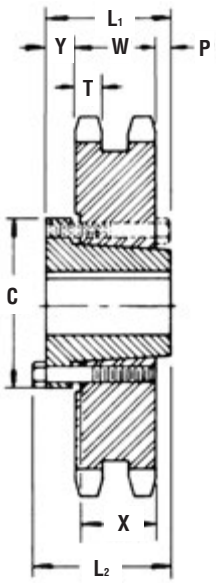
See current discount sheet for alteration charges.



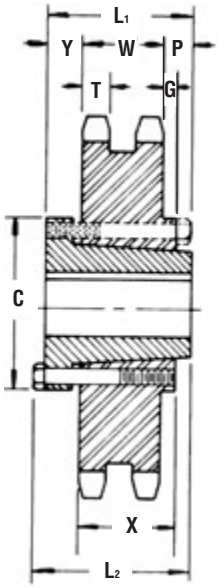

Type B



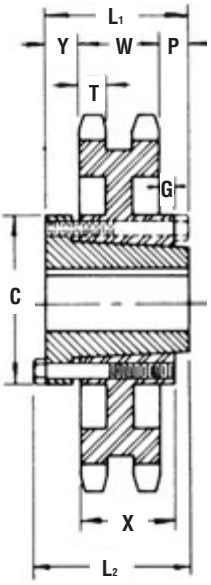

Type C




QD - Type $C_1$




QD - Type $C_2$



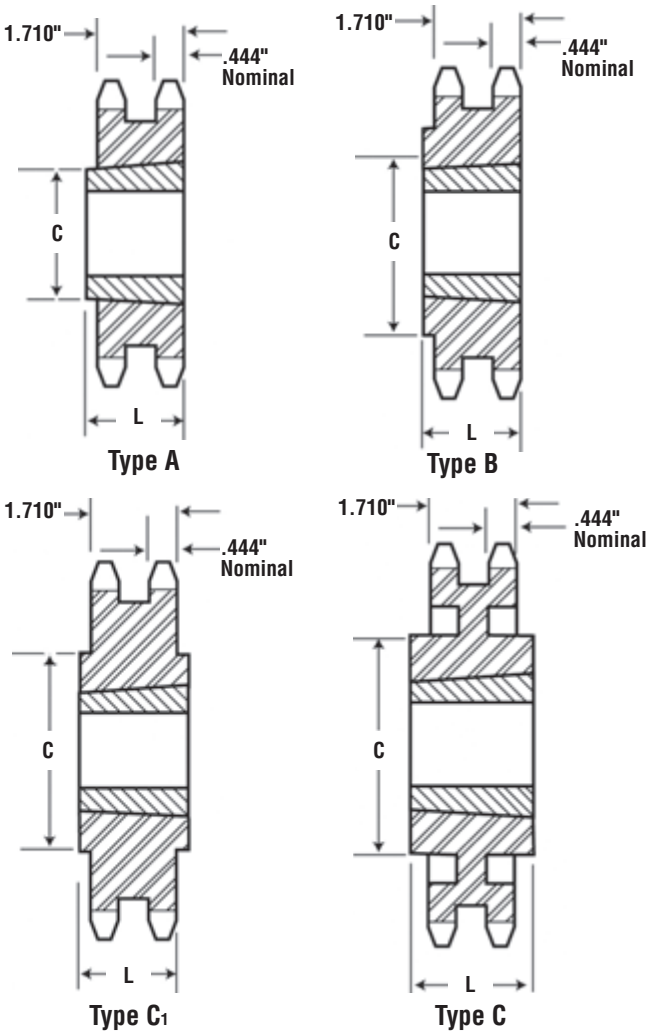

QD - Type $C_4$

## Double - Type QD

| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | G | V | X | T | W | With Hub | Rim Only |
| 36 | D80E36 | E | 12.030 | 11.474 | C1 | 3.5 | 2.625 | 2.9375 | 6 | .7969 | .125 | – | – | 1.625 | 0.557 | 1.710 | 48.3 | 38.2 |
| 42 | D80E42 | E | 13.940 | 13.382 | C1 | 3.5 | 2.625 | 2.9375 | 6 | .7969 | .125 | – | – | 1.625 | 0.557 | 1.710 | 65.3 | 55.3 |
| 45 | D80E45 | E | 14.900 | 14.336 | C1 | 3.5 | 2.625 | 2.9375 | 6 | .7969 | .125 | – | – | 1.625 | 0.557 | 1.710 | 74.6 | 64.6 |
| 52 | D80E52 | E | 17.130 | 16.562 | C3 | 3.5 | 2.625 | 2.9375 | 6 | .7969 | .125 | – | .0938 | 1.625 | 0.557 | 1.710 | 68.2 | 58.2 |
| 60 | D80E60 | E | 19.680 | 19.107 | C3 | 3.5 | 2.625 | 2.9375 | 6 | .7969 | .125 | – | .0938 | 1.625 | 0.557 | 1.710 | 78.2 | 68.2 |
| 68 | D80E68 | E | 22.230 | 21.653 | C3 | 3.5 | 2.625 | 2.9375 | 6 | .7969 | .125 | – | .0938 | 1.625 | 0.557 | 1.710 | 84.2 | 74.2 |
| 76 | D80E76 | E | 24.780 | 24.198 | C3 | 3.5 | 2.625 | 2.9375 | 6 | .7969 | .125 | – | .0938 | 1.625 | 0.557 | 1.710 | 100.0 | 90.1 |
| 95 | D80F95 | F | 30.830 | 30.245 | C4 | 3.9375 | 3.625 | 4 | 6.625 | 1 | .9219 | .7969 | – | 2.5 | 0.557 | 1.710 | 152.0 | 140.0 |

# No. 80-2
## 1" Pitch

# All Steel Stock Sprockets



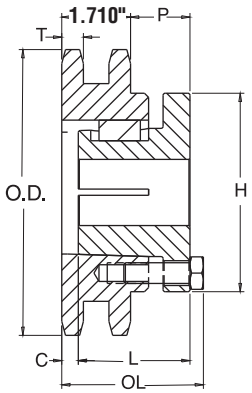

## Double - Taper Bushed

| No. Teeth | Catalog Number | Bushing | Diameters | | Max. Bore. | Dimensions | | Type | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | L | C | | Rim Only | Bushing Only |
| 13 | D80ATB13H | 1615 | 4.657 | 4.179 | 1.625 | 1.5 | – | A | 3.4 | 1.2 |
| 14 | D80ATB14H | 2012 | 4.982 | 4.494 | 2 | 1.25 | – | A | 3.5 | 1.7 |
| 15 | D80ATB15H | 2012 | 5.305 | 4.810 | 2 | 1.25 | – | A | 4.3 | 1.7 |
| 16 | D80ATB16H | 2517 | 5.627 | 5.126 | 2.5 | 1.75 | 3.125 | A | 3.8 | 3.5 |
| 17 | D80ATB17H | 2517 | 5.950 | 5.442 | 2.5 | 1.75 | 3.125 | A | 5.1 | 3.5 |
| 18 | D80ATB18H | 2517 | 6.271 | 5.759 | 2.5 | 1.75 | 3.125 | A | 6.4 | 3.5 |
| 19 | D80BTB19H | 3020 | 6.593 | 6.076 | 3 | 2 | 5 | B | 5.6 | 6.5 |
| 20 | D80BTB20H | 3020 | 6.914 | 6.392 | 3 | 2 | 5.25 | B | 7.1 | 6.5 |
| 21 | D80BTB21H | 3020 | 7.235 | 6.710 | 3 | 2 | 5.5625 | B | 8.9 | 6.5 |
| 25 | D80BTB25H | 3020 | 8.516 | 7.979 | 3 | 2 | 6.875 | B | 16.5 | 6.5 |
| 30 | D80CTB30 | 3020 | 10.114 | 9.567 | 3 | 2 | 5.25 | C | 25.1 | 6.5 |
| 36 | D80CTB36 | 3020 | 12.030 | 11.474 | 3 | 2 | 5.25 | C | 39.4 | 6.5 |
| 42 | D80CTB42 | 3020 | 13.944 | 13.392 | 3 | 2 | 5.25 | C | 36.4 | 6.5 |
| 45 | D80CTB45 | 3020 | 14.901 | 14.336 | 3 | 2 | 5.25 | C1 | 41.4 | 6.5 |
| 52 | D80CTB52 | 3020 | 17.132 | 16.562 | 3 | 2 | 5.25 | C1 | 56.2 | 6.5 |
| 60 | D80CTB60 | 3020 | 19.681 | 19.107 | 3 | 2 | 5.25 | C1 | 66.3 | 6.5 |
| 68 | D80CTB68 | 3020 | 22.230 | 21.653 | 3 | 2 | 5.25 | C1 | 72.0 | 6.5 |
| 76 | D80CTB76 | 3020 | 24.778 | 24.198 | 3 | 2 | 5.25 | C1 | 89.1 | 6.5 |
| 95 | D80CTB95 | 3020 | 30.828 | 30.245 | 3 | 2 | 5.25 | C1 | 112.0 | 6.5 |

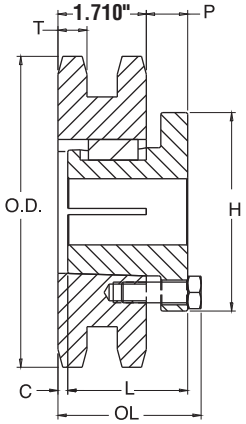
NOTE: Double 80 stock sprockets with 25 teeth or less have hardened teeth, as indicated by H suffix.

# MST® Sprockets

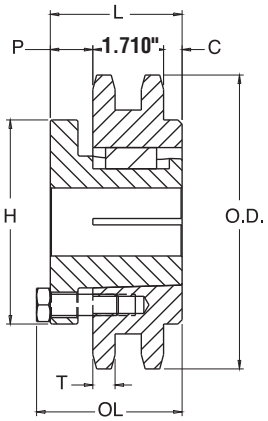
# No. 80-2
## 1" Pitch



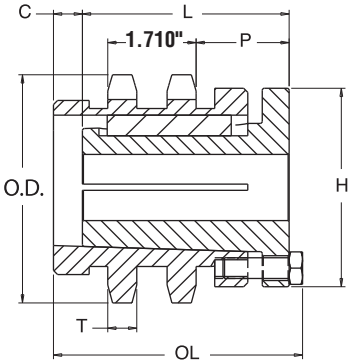

Type 12




Type 13




Type 15




Type 16

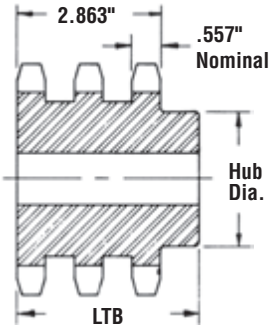
## Double - MST® Sprockets

| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 13 | D80P13H | P1 | 4.660 | 4.179 | 13 | 1.75 | 2.5938 | 1.9375 | .4063 | 3 | .625 | 0.557 | 4.9 | 3.6 |
| 14 | D80Q14H | Q2 | 4.980 | 4.494 | 16 | 2.625 | 4.625 | 3.5 | .8438 | 4.125 | 1.75 | 0.557 | 9.9 | 5.4 |
| 15 | D80Q15H | Q2 | 5.300 | 4.810 | 12 | 2.625 | 3.7813 | 3.5 | 0 | 4.125 | 1.75 | 0.557 | 9.9 | 5.4 |
| 16 | D80Q16H | Q1 | 5.630 | 5.126 | 13 | 2.6875 | 2.7813 | 2.5 | 0 | 4.125 | .75 | 0.557 | 8.3 | 4.8 |
| 17 | D80Q17H | Q1 | 5.950 | 5.442 | 13 | 2.6875 | 2.7813 | 2.5 | 0 | 4.125 | .75 | 0.557 | 9.5 | 6.0 |
| 18 | D80Q18H | Q1 | 6.270 | 5.759 | 13 | 2.6875 | 2.7813 | 2.5 | 0 | 4.125 | .75 | 0.557 | 10.8 | 7.3 |
| 19 | D80Q19H | Q1 | 6.590 | 6.076 | 13 | 2.6875 | 2.7813 | 2.5 | 0 | 4.125 | .75 | 0.557 | 12.0 | 8.5 |
| 20 | D80R20H | R1 | 6.910 | 6.392 | 12 | 3.75 | 3.1563 | 2.875 | 0 | 5.375 | 1.1563 | 0.557 | 15.3 | 7.8 |
| 21 | D80R21H | R1 | 7.240 | 6.710 | 12 | 3.75 | 3.1563 | 2.875 | 0 | 5.375 | 1.1563 | 0.557 | 16.9 | 9.4 |
| 22 | D80R22H | R1 | 7.560 | 7.027 | 12 | 3.75 | 3.1563 | 2.875 | 0 | 5.375 | 1.1563 | 0.557 | 18.3 | 10.8 |
| 23 | D80R23H | R1 | 7.880 | 7.344 | 12 | 3.75 | 3.1563 | 2.875 | 0 | 5.375 | 1.1563 | 0.557 | 19.8 | 12.3 |
| 24 | D80R24H | R1 | 8.200 | 7.661 | 12 | 3.75 | 3.1563 | 2.875 | 0 | 5.375 | 1.1563 | 0.557 | 21.6 | 14.1 |
| 25 | D80R25H | R1 | 8.520 | 7.979 | 12 | 3.75 | 3.1563 | 2.875 | 0 | 5.375 | 1.1563 | 0.557 | 23.3 | 15.8 |
| 26 | D80R26 | R1 | 8.840 | 8.296 | 12 | 3.75 | 3.1563 | 2.875 | 0 | 5.375 | 1.1563 | 0.557 | 25.6 | 18.1 |
| 27 | D80R27 | R1 | 9.160 | 8.614 | 12 | 3.75 | 3.1563 | 2.875 | 0 | 5.375 | 1.1563 | 0.557 | 27.9 | 20.4 |
| 28 | D80R28 | R1 | 9.480 | 8.931 | 12 | 3.75 | 3.1563 | 2.875 | 0 | 5.375 | 1.1563 | 0.557 | 30.2 | 22.7 |
| 30 | D80R30 | R1 | 10.110 | 9.567 | 12 | 3.75 | 3.1563 | 2.875 | 0 | 5.375 | 1.1563 | 0.557 | 34.3 | 26.8 |
| 36 | D80R36 | R1 | 12.030 | 11.474 | 12 | 3.75 | 3.1563 | 2.875 | 0 | 5.375 | 1.1563 | 0.557 | 49.1 | 41.6 |
| 42 | D80R42 | R1 | 13.940 | 13.382 | 12 | 3.75 | 3.1563 | 2.875 | 0 | 5.375 | 1.1563 | 0.557 | 65.5 | 58.0 |
| 45 | D80R45 | R1 | 14.900 | 14.336 | 12 | 3.75 | 3.1563 | 2.875 | 0 | 5.375 | 1.1563 | 0.557 | 75.5 | 68.0 |
| 48 | D80R48 | R2 | 15.860 | 15.290 | 15 | 3.625 | 5.1563 | 4.875 | 2.2813 | 5.375 | .875 | 0.557 | 97.0 | 86.0 |
| 52 | D80R52 | R2 | 17.130 | 16.562 | 15 | 3.625 | 5.1563 | 4.875 | 2.2813 | 5.375 | .875 | 0.557 | 114.0 | 103.0 |
| 54 | D80R54 | R2 | 17.770 | 17.198 | 15 | 3.625 | 5.1563 | 4.875 | 2.2813 | 5.375 | .875 | 0.557 | 122.0 | 111.0 |
| 60 | D80R60 | R2 | 19.680 | 19.107 | 15 | 3.625 | 5.1563 | 4.875 | 2.2813 | 5.375 | .875 | 0.557 | 146.0 | 135.0 |
| 68 | D80R68 | R2 | 22.230 | 21.653 | 15 | 3.625 | 5.1563 | 4.875 | 2.2813 | 5.375 | .875 | 0.557 | 187.0 | 176.0 |
| 72 | D80R72 | R2 | 23.500 | 22.926 | 15 | 3.625 | 5.1563 | 4.875 | 2.2813 | 5.375 | .875 | 0.557 | 209.0 | 198.0 |
| 76 | D80U76 | U0 | 24.780 | 24.198 | 15 | 5.5 | 5.7188 | 5.25 | 2.0313 | 8.375 | 1.5 | 0.557 | 249.0 | 219.0 |
| 95 | D80U95 | U0 | 30.830 | 30.245 | 15 | 5.5 | 5.7188 | 5.25 | 2.0313 | 8.375 | 1.5 | 0.557 | 372.0 | 342.0 |

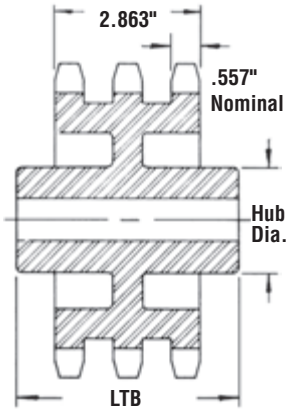
Sprockets with "H" suffix have hardened teeth.

# No. 80-3
## 1" Pitch

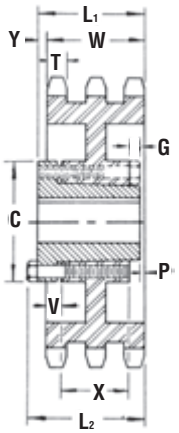
# All Steel Stock Sprockets




Type B




Type C




QD — Type B1

## Triple - Type B & C

| No. Teeth | Catalog Number | OD | Type | Bore (inches) | | Hub (inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | Length Thru | |
| 11 | E80B11H | 4.010 | B | 1 | 1.75 | 2.5 | 3.625 | 5.9 |
| 12 | E80B12H | 4.330 | B | 1 | 1.875 | 2.8438 | 3.625 | 7.5 |
| 13 | E80B13H | 4.660 | B | 1 | 2.25 | 3.1563 | 3.625 | 9.2 |
| 14 | E80B14H | 4.980 | B | 1 | 2.375 | 3.4688 | 3.625 | 11.0 |
| 15 | E80B15H | 5.300 | B | 1 | 2.5 | 3.7969 | 3.625 | 13.1 |
| 16 | E80B16H | 5.630 | B | 1 | 2.75 | 4 | 3.875 | 15.8 |
| 17 | E80B17H | 5.950 | B | 1 | 3 | 4.4219 | 3.875 | 18.6 |
| 18 | E80B18H | 6.270 | B | 1 | 3.25 | 4.7344 | 3.875 | 21.2 |
| 19 | E80B19H | 6.590 | B | 1 | 3.3125 | 5 | 3.875 | 23.7 |
| 20 | E80B20H | 6.910 | B | 1 | 3.3125 | 5 | 3.875 | 26.0 |
| 21 | E80B21H | 7.240 | B | 1 | 3.3125 | 5 | 3.875 | 28.4 |
| 22 | E80B22H | 7.560 | B | 1 | 3.3125 | 5 | 3.875 | 31.0 |
| 23 | E80B23H | 7.880 | B | 1 | 3.3125 | 5 | 3.875 | 33.6 |
| 24 | E80B24H | 8.200 | B | 1 | 3.5 | 5.25 | 3.875 | 37.1 |
| 25 | E80B25H | 8.520 | B | 1 | 3.5 | 5.25 | 3.875 | 40.1 |
| 26 | E80B26 | 8.840 | B | 1 | 3.5 | 5.25 | 3.875 | 42.9 |
| 30 | E80B30 | 10.110 | B | 1.25 | 3.75 | 5.75 | 4.25 | 54.5 |
| 35 | E80B35 | 11.710 | B | 1.25 | 3.75 | 5.75 | 4.25 | 79.5 |
| 36 | E80B36 | 12.030 | B | 1.25 | 3.75 | 5.75 | 4.25 | 83.9 |
| 42 | E80C42 | 13.940 | C | 1.25 | 3.8125 | 6 | 4.5 | 84.9 |
| 45 | E80C45 | 14.900 | C | 1.25 | 3.8125 | 6 | 4.5 | 92.4 |
| 52 | E80C52 | 17.130 | C | 1.5 | 3.8125 | 6 | 4.5 | 107.0 |
| 60 | E80C60 | 19.680 | C | 1.5 | 4.25 | 6.25 | 4.75 | 128.0 |
| 68 | E80C68 | 22.230 | C | 1.5 | 4.25 | 6.25 | 4.75 | 140.0 |
| 76 | E80C76 | 24.780 | C | 1.5 | 4.25 | 6.25 | 4.75 | 165.0 |
| 95 | E80C95 | 30.830 | C | 1.5 | 4.5 | 6.75 | 5 | 240.0 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

**Alteration Charges**

See current discount sheet for alteration charges.

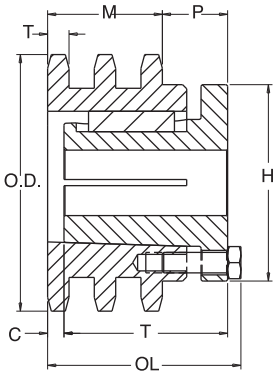
## Triple - Type QD

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | G | V | X | T | W | With Hub | Rim Only |
| 36 | E80E36 | E | 12.030 | 11.474 | B | 3.5 | 3.1094 | 3.4219 | 6 | 0.25 | 0.4844 | 0.125 | 0.625 | 1.625 | 0.557 | 2.863 | 65.1 | 55.1 |
| 42 | E80E42 | E | 13.940 | 13.382 | B | 3.5 | 3.1094 | 3.4219 | 6 | 0.25 | 0.4844 | 0.125 | 0.625 | 1.625 | 0.557 | 2.863 | 81.9 | 71.9 |
| 45 | E80E45 | E | 14.900 | 14.336 | B1 | 3.5 | 3.1094 | 3.4219 | 6 | 0.25 | 0.4844 | 0.125 | 0.625 | 1.625 | 0.557 | 2.863 | 75.3 | 65.3 |
| 52 | E80E52 | E | 17.130 | 16.562 | B1 | 3.5 | 3.1094 | 3.4219 | 6 | 0.25 | 0.4844 | 0.125 | 0.625 | 1.625 | 0.557 | 2.863 | 90.0 | 80.0 |
| 60 | E80F60 | F | 19.680 | 19.107 | B1 | 3.9375 | 3.6719 | 4.0469 | 6.625 | 0.8125 | 0.0469 | 0.125 | 0.1875 | 2.5 | 0.557 | 2.863 | 112.0 | 100.0 |
| 68 | E80F68 | F | 22.230 | 21.653 | B1 | 3.9375 | 3.6719 | 4.0469 | 6.625 | 0.8125 | 0.0469 | 0.125 | 0.1875 | 2.5 | 0.557 | 2.863 | 132.0 | 120.0 |
| 76 | E80F76 | F | 24.780 | 24.198 | B1 | 3.9375 | 3.6719 | 4.0469 | 6.625 | 0.8125 | 0.0469 | 0.125 | 0.1875 | 2.5 | 0.557 | 2.863 | 150.0 | 138.0 |
| 95 | E80F95 | F | 30.830 | 30.245 | B1 | 3.9375 | 3.6719 | 4.0469 | 6.625 | 0.8125 | 0.0469 | 0.125 | 0.1875 | 2.5 | 0.557 | 2.863 | 208.0 | 196.0 |

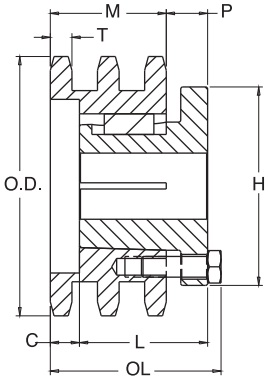
NOTE: Triple 60 stock sprockets with 25 teeth or less have hardened teeth.

# MST® Sprockets

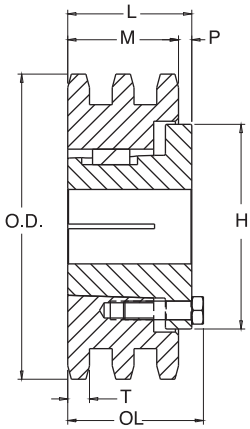
# No. 80-3
## 1" Pitch



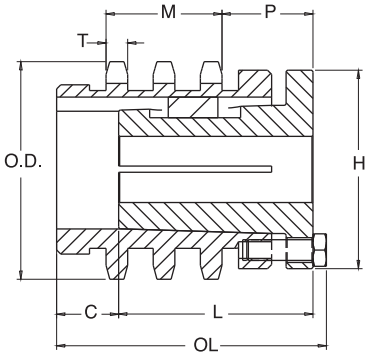

Type 22




Type 24




Type 25




Type 27

## Triple - MST® Sprockets

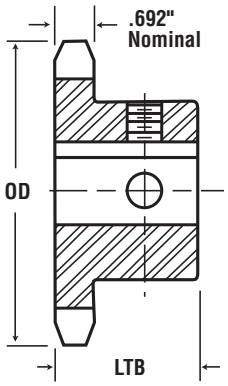
| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 13 | E80P13H | P2 | 4.660 | 4.179 | 24 | 1.75 | 3.75 | 2.9375 | .5625 | 3 | .625 | .557 | 7.2 | 5.7 |
| 14 | E80Q14H | Q2 | 4.980 | 4.494 | 27 | 2.625 | 5.7813 | 3.5 | 2 | 4.125 | 1.75 | .557 | 12.0 | 7.5 |
| 15 | E80Q15H | Q2 | 5.300 | 4.810 | 22 | 2.625 | 4.9063 | 3.5 | 1.125 | 4.125 | 1.75 | .557 | 12.6 | 8.1 |
| 16 | E80Q16H | Q2 | 5.630 | 5.126 | 25 | 2.625 | 3.875 | 3.5 | .0938 | 4.125 | .75 | .557 | 13.8 | 9.3 |
| 17 | E80Q17H | Q2 | 5.950 | 5.442 | 24 | 2.625 | 3.9063 | 3.5 | .125 | 4.125 | .75 | .557 | 14.3 | 9.8 |
| 18 | E80Q18H | Q2 | 6.270 | 5.759 | 24 | 2.625 | 3.9063 | 3.5 | .125 | 4.125 | .75 | .557 | 16.5 | 12.0 |
| 19 | E80Q19H | Q2 | 6.590 | 6.076 | 24 | 2.625 | 3.9063 | 3.5 | .125 | 4.125 | .75 | .557 | 18.4 | 13.9 |
| 20 | E80R20H | R1 | 6.910 | 6.392 | 24 | 3.75 | 4.0313 | 2.875 | .875 | 5.375 | .875 | .557 | 17.7 | 10.2 |
| 21 | E80R21H | R1 | 7.240 | 6.710 | 24 | 3.75 | 4.0313 | 2.875 | .875 | 5.375 | .875 | .557 | 19.9 | 12.4 |
| 22 | E80R22H | R1 | 7.560 | 7.027 | 24 | 3.75 | 4.0313 | 2.875 | .875 | 5.375 | .875 | .557 | 22.1 | 14.6 |
| 23 | E80R23H | R1 | 7.880 | 7.344 | 25 | 3.75 | 3.1563 | 2.875 | | 5.375 | | .557 | 23.4 | 15.9 |
| 24 | E80R24 | R1 | 8.200 | 7.661 | 25 | 3.75 | 3.1563 | 2.875 | | 5.375 | | .557 | 7.2 | 18.5 |
| 25 | E80R25 | R1 | 8.520 | 7.979 | 25 | 3.75 | 3.1563 | 2.875 | | 5.375 | | .557 | 12.0 | 20.3 |
| 26 | E80R26 | R1 | 8.840 | 8.296 | 25 | 3.75 | 3.1563 | 2.875 | | 5.375 | | .557 | 12.6 | 23.4 |
| 27 | E80R27 | R1 | 9.160 | 8.614 | 25 | 3.75 | 3.1563 | 2.875 | | 5.375 | | .557 | 13.8 | 25.8 |
| 28 | E80R28 | R1 | 9.480 | 8.931 | 25 | 3.75 | 3.1563 | 2.875 | | 5.375 | | .557 | 14.3 | 28.1 |
| 30 | E80R30 | R1 | 10.110 | 9.567 | 25 | 3.75 | 3.1563 | 2.875 | | 5.375 | | .557 | 16.5 | 33.3 |
| 36 | E80S36 | S1 | 12.030 | 11.474 | 22 | 4.25 | 5.125 | 4.375 | | 6.375 | 1.5 | .557 | 18.4 | 67.0 |
| 42 | E80S42 | S1 | 13.940 | 13.382 | 22 | 4.25 | 5.125 | 4.375 | | 6.375 | 1.5 | .557 | 17.7 | 96.1 |
| 45 | E80S45 | S1 | 14.900 | 14.336 | 22 | 4.25 | 5.125 | 4.375 | | 6.375 | 1.5 | .557 | 19.9 | 112.0 |
| 52 | E80U52 | U0 | 17.130 | 16.562 | 22 | 5.5 | 5.7188 | 5.25 | | 8.375 | 1.7813 | .557 | 22.1 | 150.0 |
| 60 | E80U60 | U0 | 19.680 | 19.107 | 22 | 5.5 | 5.7188 | 5.25 | | 8.375 | 1.7813 | .557 | 23.4 | 207.0 |
| 68 | E80U68 | U0 | 22.230 | 21.653 | 22 | 5.5 | 5.7188 | 5.25 | | 8.375 | 1.7813 | .557 | 23.4 | 271.0 |
| 76 | E80U76 | U0 | 24.780 | 24.198 | 22 | 5.5 | 5.7188 | 5.25 | | 8.375 | 1.7813 | .557 | 23.4 | 344.0 |
| 95 | E80U95 | U0 | 30.830 | 30.245 | 25 | 5.5 | 5.8594 | 5.25 | .0313 | 8.375 | 1.4063 | .557 | 23.4 | 183.0 |

Sprockets with "H" suffix have hardened teeth.

# No. 100
# 1¼" Pitch

# All Steel Stock Sprockets

Bored-To-Size




Type BS

## Single - Type BS — 2 Setscrews — Bored-To-Size

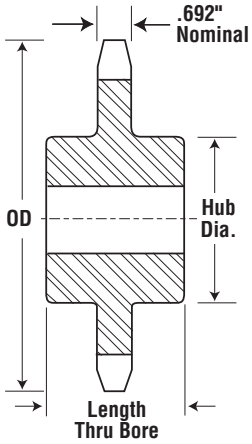
| No. Teeth | Catalog Number | OD | LTB | Wt. lb (Approx.) | Stock Finished Bores Includes Keyway and 2 Setscrews | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 100BS8 | 3.770 | 1.875 | 2.8 | 1 | 1.1875 | 1.25 | | | | | | |
| 9 | 100BS9 | 4.180 | 1.875 | 3.0 | 1 | 1.1875 | 1.25 | 1.4375 | | | | | |
| 10 | 100BS10 | 4.600 | 1.875 | 3.9 | 1 | 1.1875 | 1.25 | 1.4375 | | | | | |
| 11 | 100BS11 | 5.010 | 1.875 | 4.9 | 1 | 1.1875 | 1.25 | 1.4375 | 1.9375 | 2 | 2.1875 | | |
| 12 | 100BS12 | 5.420 | 1.875 | 6.0 | 1 | 1.1875 | 1.25 | 1.4375 | 1.9375 | 2 | 2.1875 | | |
| 13 | 100BS13 | 5.820 | 1.625 | 6.2 | 1 | 1.1875 | 1.25 | 1.4375 | 1.9375 | 2 | 2.1875 | | |
| 14 | 100BS14 | 6.230 | 1.625 | 6.6 | | | 1.25 | 1.4375 | 1.9375 | 2 | 2.1875 | | |
| 15 | 100BS15 | 6.630 | 1.75 | 8.4 | | | 1.25 | 1.4375 | 1.9375 | 2 | 2.1875 | | |
| 16 | 100BS16 | 7.030 | 1.75 | 9.0 | | | | 1.4375 | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 17 | 100BS17 | 7.440 | 1.75 | 9.9 | | | | 1.4375 | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 18 | 100BS18 | 7.840 | 1.75 | 10.6 | | | | 1.4375 | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 19 | 100BS19 | 8.240 | 2 | 12.1 | | | | 1.4375 | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 20 | 100BS20 | 8.640 | 2 | 13.2 | | | | 1.4375 | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 21 | 100BS21 | 9.040 | 2 | 14.3 | | | | 1.4375 | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 22 | 100BS22 | 9.440 | 2 | 15.1 | | | | 1.4375 | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 23 | 100BS23 | 9.840 | 2 | 16.1 | | | | 1.4375 | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 24 | 100BS24 | 10.250 | 2 | 18.1 | | | | 1.4375 | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |
| 25 | 100BS25 | 10.650 | 2 | 18.4 | | | | 1.4375 | 1.9375 | 2 | 2.1875 | 2.4375 | 2.9375 |

Hub diameters vary to suit different bore sizes.

NOTE: KEYWAY IS ON CENTER LINE OF TOOTH.

## Single - Type C — Steel

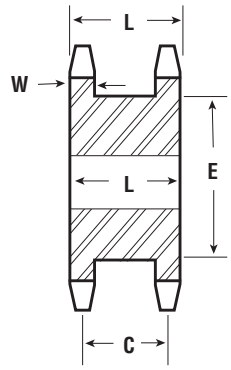
| No. Teeth | Catalog Number | OD | Bore (Inches) | | Hub (Inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|
| | | | Stock | Rec. Max. | Diameter | Length | |
| 10 | 100C10 | 4.600 | 1 | 1.875 | 3.2813 | 2.875 | 6.13 |
| 11 | 100C11 | 5.010 | 1 | 2.25 | 3.5625 | 2.875 | 7.12 |
| 12 | 100C12 | 5.420 | 1 | 2.25 | 4 | 2.875 | 8.37 |
| 13 | 100C13 | 5.820 | 1 | 2.375 | 3.1093 | 2.875 | 10.00 |
| 14 | 100C14 | 6.230 | 1 | 2.75 | 4.1875 | 2.875 | 12.19 |



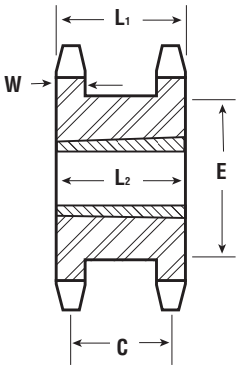

Type C

# All Steel Stock Sprockets

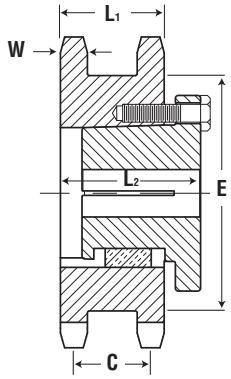
# No. 100 1¼" Pitch




Type A




Taper Bush
Type A




MST® Type B

## Double Single - Type A — Steel

| No. Teeth | Catalog Number | Diameter | | Type | Min. Bore | Max. Bore | Dimensions | | | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OD | PD | | | | L | C | E | W (Nom.) | |
| 13 | DS100A13 | 5.820 | 5.223 | A | 1 | 2.5 | 2.6875 | 2 | 3.7813 | 0.692 | 11.2 |
| 14 | DS100A14 | 6.230 | 5.617 | A | 1.25 | 2.75 | 2.6875 | 2 | 4.1875 | 0.692 | 13.5 |
| 15 | DS100A15 | 6.630 | 6.012 | A | 1.25 | 3.0625 | 2.6875 | 2 | 4.5938 | 0.692 | 16.8 |
| 16 | DS100A16 | 7.030 | 6.407 | A | 1.25 | 3.25 | 2.6875 | 2 | 5 | 0.692 | 19.3 |
| 17 | DS100A17 | 7.440 | 6.803 | A | 1.25 | 3.625 | 2.6875 | 2 | 5.4063 | 0.692 | 21.5 |
| 18 | DS100A18 | 7.840 | 7.198 | A | 1.25 | 3.75 | 2.6875 | 2 | 5.7969 | 0.692 | 23.0 |
| 19 | DS100A19 | 8.240 | 7.595 | A | 1.25 | 4.1875 | 2.6875 | 2 | 6.2031 | 0.692 | 25.0 |
| 20 | DS100A20 | 8.640 | 7.991 | A | 1.25 | 4.1875 | 2.6875 | 2 | 6.6094 | 0.692 | 26.5 |
| 21 | DS100A21 | 9.040 | 8.387 | A | 1.25 | 5.25 | 2.6875 | 2 | 7 | 0.692 | 29.0 |

## Double Single - Taper Bushed— Steel

| No. Teeth | Catalog Number | Bushing Size | Diameter | | Min. Bore | Max. Bore | Type | Dimensions | | | | | Wt. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | | $L_1$ | C | E | $L_2$ | W (Nom.) | Rim Only |
| 15 | DS100ATB15H | 2517 | 6.630 | 6.012 | .75 | 2.5 | A | 2.6875 | 2 | 4.5938 | 1.75 | 0.692 | 12.5 |
| 16 | DS100ATB16H | 2525 | 7.030 | 6.407 | .75 | 2.5 | A | 2.6875 | 2 | 5 | 1.75 | 0.692 | 13.0 |
| 17 | DS100ATB17H | 3020 | 7.440 | 6.803 | .9375 | 3 | A | 2.6875 | 2 | 5.4063 | 2 | 0.692 | 14.0 |
| 18 | DS100ATB18H | 3020 | 7.840 | 7.198 | .9375 | 3 | A | 2.6875 | 2 | 5.7969 | 2 | 0.692 | 16.0 |
| 19 | DS100ATB19H | 3020 | 8.240 | 7.595 | .9375 | 3 | A | 2.6875 | 2 | 6.2031 | 2 | 0.692 | 20.0 |
| 20 | DS100ATB20H | 3020 | 8.640 | 7.991 | .9375 | 3 | A | 2.6875 | 2 | 6.6094 | 1.75 | 0.692 | 27.5 |
| 21 | DS100ATB21H | 3020 | 9.040 | 8.387 | .9375 | 3 | A | 2.6875 | 2 | 7 | 2 | 0.692 | 27.5 |

Sprockets with "H" suffix have hardened teeth.

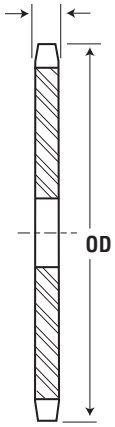
## Double Single - MST®— Steel

| No. Teeth | Catalog Number | Bushing Size | Diameter | | Min. Bore | Max. Bore | Type | Dimensions | | | | | Wt. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | | $L_1$ | C | E | $L_2$ | W (Nom.) | Rim Only |
| 17 | DS100R17H | R1 | 7.440 | 6.803 | 1.125 | 3.75 | B | 2.6875 | 2 | 5.4063 | 3.8438 | 0.692 | 12.5 |
| 19 | DS100R19H | R1 | 8.240 | 7.595 | 1.125 | 3.75 | B | 2.6875 | 2 | 6.2031 | 3.8438 | 0.692 | 18.8 |
| 21 | DS100R21H | R1 | 9.040 | 8.387 | 1.125 | 3.75 | B | 2.6875 | 2 | 7 | 3.8438 | 0.692 | 23.1 |

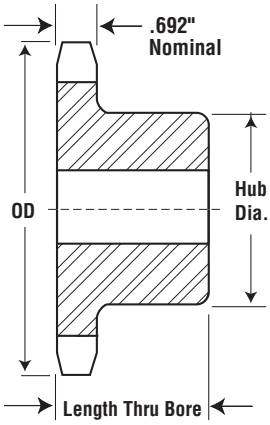
Sprockets with "H" suffix have hardened teeth.

# No. 100
## 1¼" Pitch

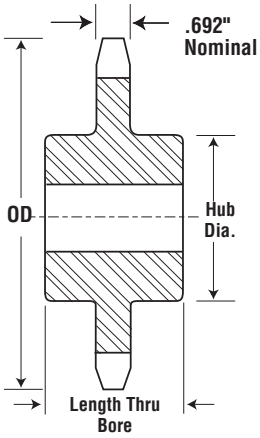
# Stainless Steel Stock Sprockets




Type A




Type B




Type C

## Single - Type B & C — Stainless / Single - Type A

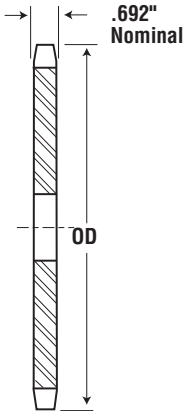
| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 11 | 100B11SS | 5.010 | B | 1 | 2.25 | 3.5625 ★ | 1.875 | 5.3 | – | – | – | – |
| 12 | 100B12SS | 5.420 | B | 1 | 2.25 | 4 ★ | 1.875 | 6.4 | – | – | – | – |
| 13 | 100B13SS | 5.820 | B | 1 | 2.375 | 3.875 | 1.625 | 6.6 | – | – | – | – |
| 14 | 100B14SS | 6.230 | B | 1.25 | 2.75 | 4.1875 | 1.625 | 7.4 | – | – | – | – |
| 15 | 100B15SS | 6.630 | B | 1.25 | 3 | 4.5 | 1.75 | 9.2 | – | – | – | – |
| 16 | 100B16SS | 7.030 | B | 1.3125 | 3 | 4.5 | 1.75 | 9.9 | A | 100A16SS | 1.25 | 5.4 |
| 17 | 100B17SS | 7.440 | B | 1.3125 | 3 | 4.5 | 1.75 | 10.8 | A | 100A17SS | 1.25 | 6.1 |
| 18 | 100B18SS | 7.840 | B | 1.3125 | 3 | 4.5 | 1.75 | 11.5 | A | 100A18SS | 1.25 | 7.0 |
| 19 | 100B19SS | 8.240 | B | 1.3125 | 3 | 4.5 | 2 | 13.1 | A | 100A19SS | 1.25 | 7.8 |
| 20 | 100B20SS | 8.640 | B | 1.3125 | 3 | 4.5 | 2 | 14.2 | A | 100A20SS | 1.25 | 8.8 |
| 21 | 100B21SS | 9.040 | B | 1.3125 | 3 | 4.5 | 2 | 15.3 | A | 100A21SS | 1.25 | 9.8 |

★ Has recessed groove in hub for chain clearance.

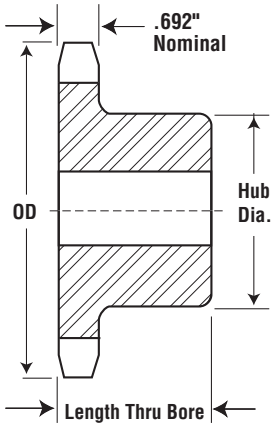
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# All Steel Stock Sprockets

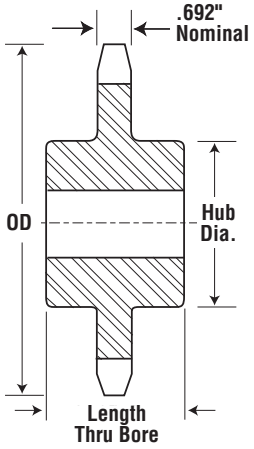
# No. 100 1¼" Pitch




Type A




Type B




Type C

## Single - Type B & C / Single - Type A

| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 7 | | 3.350 | | | | | | | A | 100A7 | 1 | 1.2 |
| 8 | 100B8 | 3.770 | B | 1 | 1.25 | 2.4375 ★ | 1.875 | 2.3 | A | 100A8 | 1 | 1.4 |
| 9 | 100B9 | 4.180 | B | 1 | 1.625 | 21.1875 ★ | 1.875 | 3.2 | A | 100A9 | 1 | 1.6 |
| 10 | 100B10 | 4.600 | B | 1 | 1.875 | 3.25 ★ | 1.875 | 4.1 | A | 100A10 | 1 | 2.0 |
| 11 | 100B11 | 5.010 | B | 1 | 2.25 | 3.5625 ★ | 1.875 | 5.3 | A | 100A11 | 1.25 | 2.5 |
| 12 | 100B12 | 5.420 | B | 1 | 2.25 | 4 ★ | 1.875 | 6.4 | A | 100A12 | 1.25 | 3.0 |
| 13 | 100B13 | 5.820 | B | 1 | 2.375 | 3.875 | 1.625 | 6.6 | A | 100A13 | 1.25 | 3.5 |
| 14 | 100B14 | 6.230 | B | 1.25 | 2.75 | 4.1875 | 1.625 | 7.4 | A | 100A14 | 1.25 | 4.1 |
| 15 | 100B15 | 6.630 | B | 1.25 | 3 | 4.5 | 1.75 | 9.2 | A | 100A15 | 1.25 | 4.7 |
| 16 | 100B16 | 7.030 | B | 1.3125 | 3 | 4.5 | 1.75 | 9.9 | A | 100A16 | 1.25 | 5.4 |
| 17 | 100B17 | 7.440 | B | 1.3125 | 3 | 4.5 | 1.75 | 10.8 | A | 100A17 | 1.25 | 6.1 |
| 18 | 100B18 | 7.840 | B | 1.3125 | 3 | 4.5 | 1.75 | 11.5 | A | 100A18 | 1.25 | 7.0 |
| 19 | 100B19 | 8.240 | B | 1.3125 | 3 | 4.5 | 2 | 13.1 | A | 100A19 | 1.25 | 7.8 |
| 20 | 100B20 | 8.640 | B | 1.3125 | 3 | 4.5 | 2 | 14.2 | A | 100A20 | 1.25 | 8.8 |
| 21 | 100B21 | 9.040 | B | 1.3125 | 3 | 4.5 | 2 | 15.3 | A | 100A21 | 1.25 | 9.8 |
| 22 | 100B22 | 9.440 | B | 1.3125 | 3 | 4.5 | 2 | 16.1 | A | 100A22 | 1.25 | 10.5 |
| 23 | 100B23 | 9.840 | B | 1.25 | 3 | 4.5 | 2 | 17.2 | A | 100A23 | 1.25 | 11.8 |
| 24 | 100B24 | 10.250 | B | 1.25 | 3 | 4.5 | 2 | 19.2 | A | 100A24 | 1.25 | 12.8 |
| 25 | 100B25 | 10.650 | B | 1.25 | 3 | 4.5 | 2 | 19.5 | A | 100A25 | 1.25 | 13.9 |
| 26 | 100B26 | 11.050 | B | 1.25 | 3.3125 | 5 | 2 | 21.7 | A | 100A26 | 1.25 | 15.0 |
| 27 | 100B27 | 11.440 | B | 1.25 | 3.3125 | 5 | 2 | 23.0 | A | 100A27 | 1.25 | 16.0 |
| 28 | 100B28 | 11.840 | B | 1.25 | 3.3125 | 5 | 2 | 24.4 | A | 100A28 | 1.25 | 17.4 |
| 29 | 100B29 | 12.240 | B | 1.25 | 3.3125 | 5 | 2 | 25.0 | A | 100A29 | 1.25 | 19.6 |
| 30 | 100B30 | 12.640 | B | 1.25 | 3.3125 | 5 | 2 | 26.9 | A | 100A30 | 1.25 | 20.1 |
| 31 | | 13.040 | | | | | | | A | 100A31 | 1.25 | 21.5 |
| 32 | 100B32 | 13.440 | B | 1.25 | 3.3125 | 5 | 2 | 29.8 | A | 100A32 | 1.25 | 22.6 |
| 33 | | 13.840 | | | | | | | A | 100A33 | 1.25 | 24.1 |
| 34 | | 14.240 | | | | | | | A | 100A34 | 1.25 | 26.0 |
| 35 | 100B35 | 14.640 | B | 1.25 | 3.3125 | 5 | 2.5 | 36.9 | A | 100A35 | 1.25 | 27.2 |
| 36 | 100B36 | 15.040 | B | 1.25 | 3.3125 | 5 | 2.5 | 38.6 | A | 100A36 | 1.25 | 30.0 |
| 37 | | 15.440 | | | | | | | A | 100A37 | 1.25 | 31.0 |
| 38 | 100B38 | 15.840 | B | 1.25 | 3.3125 | 5 | 2.5 | 41.5 | A | 100A38 | 1.25 | 33.0 |
| 39 | 100B39 | 16.230 | B | 1.25 | 3.3125 | 5 | 2.5 | 43.6 | A | 100A39 | 1.25 | 35.0 |
| 40 | 100B40 | 16.630 | B | 1.25 | 3.3125 | 5 | 2.5 | 46.9 | A | 100A40 | 1.25 | 36.0 |
| 41 | | 17.030 | | | | | | | A | 100A41 | 1.25 | 39.0 |
| 42 | 100B42 | 17.430 | B | 1.25 | 3.3125 | 5 | 2.5 | 50.4 | A | 100A42 | 1.25 | 40.0 |
| 43 | | 17.830 | | | | | | | A | 100A43 | 1.5 | 43.0 |
| 44 | | 18.230 | | | | | | | A | 100A44 | 1.5 | 45.0 |
| 45 | 100B45 | 18.630 | B | 1.5 | 3.3125 | 5 | 2.5 | 54.0 | A | 100A45 | 1.5 | 47.0 |
| 46 | | 19.020 | | | | | | | A | 100A46 | 1.5 | 48.0 |
| 47 | | 19.420 | | | | | | | A | 100A47 | 1.5 | 52.0 |
| 48 | 100B48 | 19.820 | B | 1.5 | 4 | 6 | 2.5 | 66.0 | A | 100A48 | 1.5 | 54.0 |
| 49 | | 20.220 | | | | | | | A | 100A49 | 1.5 | 56.0 |
| 50 | | 20.620 | | | | | | | A | 100A50 | 1.5 | 57.0 |
| 51 | | 21.020 | | | | | | | A | 100A51 | 1.5 | 63.0 |
| 52 | | 21.420 | | | | | | | A | 100A52 | 1.5 | 64.0 |
| 53 | | 21.810 | | | | | | | A | 100A53 | 1.5 | 64.2 |
| 54 | 100C54 | 22.210 | C | 1.5 | 4 | 6 | 3.25 | 78.0 | A | 100A54 | 1.5 | 68.0 |
| 55 | | 22.610 | | | | | | | A | 100A55 | 1.5 | 70.0 |
| 56 | | 23.010 | | | | | | | A | 100A56 | 1.5 | 72.0 |
| 57 | | 23.410 | | | | | | | A | 100A57 | 1.5 | 75.8 |
| 58 | | 23.810 | | | | | | | A | 100A58 | 1.5 | 76.0 |
| 59 | | 24.200 | | | | | | | A | 100A59 | 1.5 | 77.0 |
| 60 | 100C60 | 24.600 | C | 1.5 | 4 | 6 | 3.25 | 89.0 | A | 100A60 | 1.5 | 80.0 |
| 70 | 100C70 | 28.580 | C | 1.5 | 5.25 | 7 | 3.75 | 125.0 | A | 100A70 | 1.5 | 113 |
| 72 | 100C72 | 29.380 | C | 1.5 | 5.25 | 7 | 3.75 | 134.0 | A | 100A72 | 1.5 | 119 |
| 76 | 100C76 | 30.973 | C | 1.5 | 5.25 | 7 | 3.75 | 143.0 | A | 100A76 | 1.5 | 133 |
| 80 | 100C80 | 32.570 | C | 1.5 | 5.25 | 7 | 3.75 | 151.0 | A | 100A80 | 1.5 | 146 |
| 84 | 100C84 | 34.160 | C | 1.5 | 5.25 | 7 | 3.75 | 170.0 | A | 100A84 | 1.5 | 162 |
| 90 | 100C90 | 36.550 | C | 1.5 | 5.25 | 7 | 3.75 | 184.0 | A | 100A90 | 1.5 | 193 |
| 96 | 100C96 | 38.930 | C | 1.5 | 5.25 | 7 | 4.5 | 203.0 | A | 100A96 | 1.5 | 215 |

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

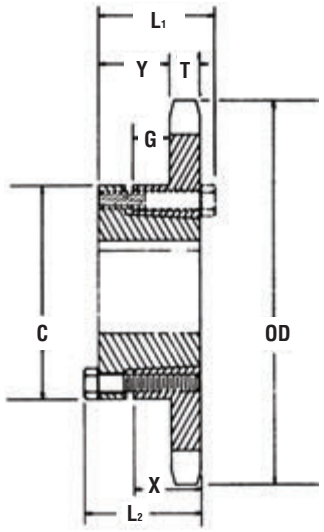
# No. 100
# 1¼" Pitch

# All Steel Stock Sprockets

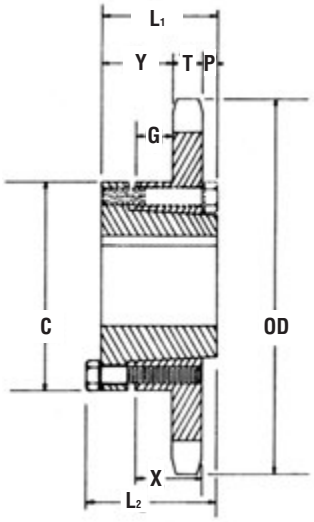
## Single - Type QD With Hardened Teeth

| No. Teeth | Catalog Number |
|---|---|
| 11 | 100SDS11H |
| 12 | 100SDS12H |
| 13 | 100SK13H |
| 14 | 100SK14H |
| 15 | 100SF15H |
| 16 | 100SF16H |
| 17 | 100SF17H |
| 18 | 100E18H |
| 19 | 100E19H |
| 20 | 100E20H |
| 21 | 100E21H |
| 22 | 100E22H |
| 23 | 100E23H |
| 24 | 100E24H |
| 25 | 100E25H |
| 26 | 100E26H |
| 27 | 100E27H |
| 28 | 100E28H |
| 30 | 100E30H |

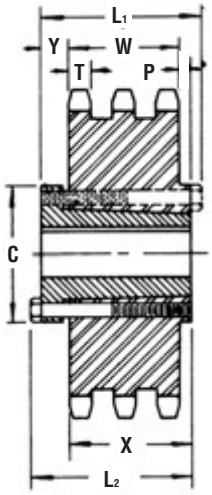
SABER TOOTH



QD — Type B



QD — Type B1



QD — Type C

## Single - Type QD

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | G | X | T | With Hub | Rim Only |
| 11 | 100SDS11 | SDS | 5.010 | 4.437 | B | 2 | 1.5 | 1.5 | 3.1875 | .625 | – | .0625 | .75 | 0.692 | 3.0 | 2.0 |
| 12 | 100SDS12 | SDS | 5.420 | 4.830 | B | 2 | 1.5 | 1.5 | 3.1875 | .625 | – | .0625 | .75 | 0.692 | 3.6 | 2.6 |
| 13 | 100SK13 | SK | 5.820 | 5.223 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.2031 | – | .5625 | 1.25 | 0.692 | 5.3 | 3.3 |
| 14 | 100SK14 | SK | 6.230 | 5.617 | B | 2.625 | 2.125 | 2.125 | 3.875 | 1.2031 | – | .5625 | 1.25 | 0.692 | 6.1 | 4.1 |
| 15 | 100SF15 | SF | 6.630 | 6.012 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.2969 | – | .5625 | 1.25 | 0.692 | 7.8 | 4.8 |
| 16 | 100SF16 | SF | 7.030 | 6.407 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.2969 | – | .5625 | 1.25 | 0.692 | 8.6 | 5.6 |
| 17 | 100SF17 | SF | 7.440 | 6.803 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.2969 | – | .5625 | 1.25 | 0.692 | 9.5 | 6.5 |
| 18 | 100E18 | E | 7.840 | 7.198 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 19.0 | 9.0 |
| 19 | 100E19 | E | 8.240 | 7.595 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 20.2 | 10.2 |
| 20 | 100E20 | E | 8.640 | 7.991 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 21.6 | 11.6 |
| 21 | 100E21 | E | 9.040 | 8.387 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 22.5 | 12.5 |
| 22 | 100E22 | E | 9.440 | 8.783 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 23.5 | 13.5 |
| 23 | 100E23 | E | 9.840 | 9.180 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 24.6 | 14.6 |
| 24 | 100E24 | E | 10.250 | 9.577 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 25.7 | 15.7 |
| 25 | 100E25 | E | 10.650 | 9.973 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 26.8 | 16.8 |
| 26 | 100E26 | E | 11.050 | 10.370 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 28.1 | 18.1 |
| 27 | 100E27 | E | 11.440 | 10.767 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 29.2 | 19.2 |
| 28 | 100E28 | E | 11.840 | 11.164 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 30.7 | 20.7 |
| 30 | 100E30 | E | 12.640 | 11.958 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 33.2 | 23.2 |
| 32 | 100E32 | E | 13.440 | 12.753 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 35.4 | 25.4 |
| 35 | 100E35 | E | 14.640 | 13.945 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 40.5 | 30.5 |
| 36 | 100E36 | E | 15.040 | 14.342 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 42.5 | 32.3 |
| 40 | 100E40 | E | 16.630 | 15.932 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 49.1 | 39.1 |
| 42 | 100E42 | E | 17.430 | 16.727 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 53.4 | 43.4 |
| 45 | 100E45 | E | 18.630 | 17.920 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 58.9 | 48.9 |
| 48 | 100E48 | E | 19.820 | 19.112 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.8125 | .125 | .9375 | 1.625 | 0.692 | 64.0 | 54.0 |
| 54 | 100E54 | E | 22.210 | 21.498 | C | 3.5 | 2.625 | 2.9375 | 6 | .875 | 1.0625 | .9375 | 1.625 | 0.692 | 72.0 | 62.0 |
| 60 | 100E60 | E | 24.600 | 23.884 | C | 3.5 | 2.625 | 2.9375 | 6 | .875 | 1.0625 | .9375 | 1.625 | 0.692 | 84.0 | 74.0 |
| 70 | 100F70 | F | 28.580 | 27.862 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 1.9375 | 1.8125 | 2.5 | 0.692 | 110.5 | 99.0 |
| 72 | 100F72 | F | 29.380 | 28.657 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 1.9375 | 1.8125 | 2.5 | 0.692 | 117.5 | 106.0 |
| 80 | 100F80 | F | 32.570 | 31.839 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 1.9375 | 1.8125 | 2.5 | 0.692 | 134.5 | 123.0 |
| 84 | 100F84 | F | 34.160 | 33.430 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 1.9375 | 1.8125 | 2.5 | 0.692 | 151.5 | 140.0 |

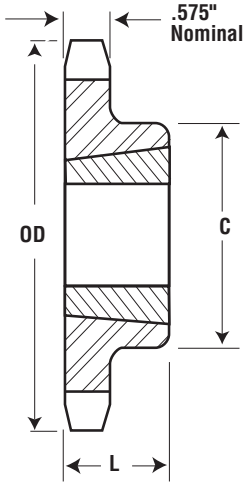
# All Steel Stock Sprockets

# No. 100 1¼" Pitch

## Single - Taper Bushed with Hardened Teeth

| No. Teeth | Catalog Number |
|---|---|
| 11 | 100BTB11H |
| 12 | 100BTB12H |
| 13 | 100BTB13H |
| 14 | 100BTB14H |
| 15 | 100BTB15H |
| 16 | 100BTB16H |
| 17 | 100BTB17H |
| 18 | 100BTB18H |
| 19 | 100BTB19H |
| 20 | 100BTB20H |
| 21 | 100BTB21H |
| 22 | 100BTB22H |
| 24 | 100BTB24H |
| 26 | 100BTB26H |
| 28 | 100BTB28H |
| 30 | 100BTB30H |

SABER TOOTH




Type B

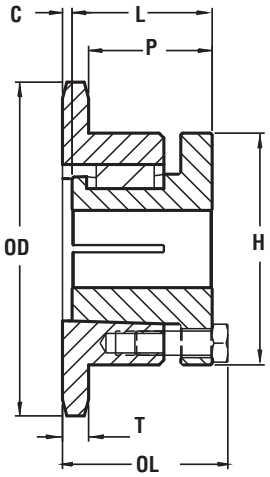
## Single - Taper Bushed

| No. Teeth | Catalog Number | Bushing | Diameter | | Max. Bore | Dimensions | | Type | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | L | C | | Rim Only | Bushing Only |
| 11 | 100BTB11 | 1615 | 5.007 | 4.437 | 1.625 | 1.5 | 3 | B | 2.7 | 1.2 |
| 12 | 100BTB12 | 1615 | 5.415 | 4.830 | 1.625 | 1.5 | 3.25 | B | 3.5 | 1.2 |
| 13 | 100BTB13 | 2012 | 5.821 | 5.223 | 2 | 1.25 | 3.5625 | B | 3.6 | 1.7 |
| 14 | 100BTB14 | 2012 | 6.227 | 5.617 | 2 | 1.25 | 3.5625 | B | 3.9 | 1.7 |
| 15 | 100BTB15 | 2517 | 6.631 | 6.012 | 2.5 | 1.75 | 4.25 | B | 5.0 | 3.5 |
| 16 | 100BTB16 | 2517 | 7.034 | 6.407 | 2.5 | 1.75 | 4.5 | B | 6.4 | 3.5 |
| 17 | 100BTB17 | 2517 | 7.437 | 6.803 | 2.5 | 1.75 | 4.5 | B | 7.1 | 3.5 |
| 18 | 100BTB18 | 2517 | 7.839 | 7.198 | 2.5 | 1.75 | 4.5 | B | 7.8 | 3.5 |
| 19 | 100BTB19 | 2517 | 8.241 | 7.594 | 2.5 | 1.75 | 4.5 | B | 8.7 | 3.5 |
| 20 | 100BTB20 | 2517 | 8.642 | 7.991 | 2.5 | 1.75 | 4.5 | B | 9.6 | 3.5 |
| 21 | 100BTB21 | 2517 | 9.043 | 8.387 | 2.5 | 1.75 | 4.5 | B | 10.6 | 3.5 |
| 22 | 100BTB22 | 2517 | 9.444 | 8.783 | 2.5 | 1.75 | 4.5 | B | 11.0 | 3.5 |
| 24 | 100BTB24 | 2517 | 10.245 | 9.577 | 2.5 | 1.75 | 4.5 | B | 13.0 | 3.5 |
| 26 | 100BTB26 | 2517 | 11.045 | 10.370 | 2.5 | 1.75 | 4.5 | B | 15.0 | 3.5 |
| 28 | 100BTB28 | 3020 | 11.844 | 11.164 | 3 | 2 | 5.25 | B | 16.5 | 6.5 |
| 30 | 100BTB30 | 3020 | 12.643 | 11.958 | 3 | 2 | 5.25 | B | 22.0 | 6.5 |
| 32 | 100BTB32 | 3020 | 13.442 | 12.753 | 3 | 2 | 5.25 | B | 23.0 | 6.5 |
| 35 | 100BTB35 | 3020 | 14.639 | 13.945 | 3 | 2 | 5.25 | B | 28.0 | 6.5 |
| 36 | 100BTB36 | 3020 | 15.038 | 14.342 | 3 | 2 | 5.25 | B | 31.0 | 6.5 |
| 40 | 100BTB40 | 3020 | 16.633 | 15.932 | 3 | 2 | 5.25 | B | 37.0 | 6.5 |
| 45 | 100BTB45 | 3020 | 18.626 | 17.919 | 3 | 2 | 5.25 | B | 46.0 | 6.5 |
| 48 | 100BTB48 | 3020 | 19.821 | 19.112 | 3 | 2 | 5.25 | B | 53.0 | 6.5 |
| 54 | 100BTB54 | 3020 | 22.212 | 21.498 | 3 | 2 | 5.25 | B | 62.0 | 6.5 |
| 60 | 100BTB60 | 3020 | 24.601 | 23.884 | 3 | 2 | 5.25 | B | 72.0 | 6.5 |

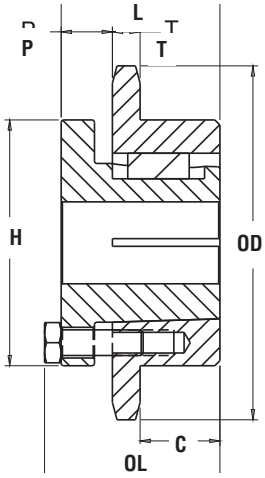
# No. 100
## 1¼" Pitch

# MST® Sprockets

Martin




Type 4




Type 5

## Single - MST® Sprockets

| No. Teeth | Catalog Number | Bush-ing | Diameter | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 11 | 100P11H | P1 | 5.010 | 4.437 | 4 | 1.75 | 2.1875 | 1.9375 | – | 3 | 1.25 | 0.692 | 4.1 | 2.8 |
| 12 | 100Q12H | Q1 | 5.420 | 4.830 | 4 | 2.6875 | 2.8438 | 2.5 | .0625 | 4.125 | 1.875 | 0.692 | 7.0 | 3.5 |
| 13 | 100Q13H | Q1 | 5.820 | 5.223 | 4 | 2.6875 | 2.8438 | 2.5 | .0625 | 4.125 | 1.875 | 0.692 | 7.8 | 4.3 |
| 14 | 100Q14H | Q1 | 6.230 | 5.617 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 9.1 | 5.6 |
| 15 | 100Q15H | Q1 | 6.630 | 6.012 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 10.1 | 6.6 |
| 16 | 100Q16H | Q1 | 7.030 | 6.407 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 10.9 | 7.4 |
| 17 | 100Q17H | Q1 | 7.440 | 6.803 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 11.7 | 8.2 |
| 18 | 100Q18H | Q1 | 7.840 | 7.198 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 12.5 | 9.0 |
| 19 | 100Q19H | Q1 | 8.240 | 7.595 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 13.3 | 9.8 |
| 20 | 100Q20H | Q1 | 8.640 | 7.991 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 14.4 | 10.9 |
| 21 | 100Q21H | Q1 | 9.040 | 8.387 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 15.3 | 11.8 |
| 21 | 100R21H | R1 | 9.040 | 8.387 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 2.1875 | 0.692 | 20.8 | 13.3 |
| 22 | 100Q22H | Q1 | 9.440 | 8.783 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 16.1 | 12.6 |
| 23 | 100Q23H | Q1 | 9.840 | 9.180 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 17.3 | 13.8 |
| 24 | 100Q24H | Q1 | 10.250 | 9.577 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 18.9 | 15.4 |
| 24 | 100R24H | R1 | 10.250 | 9.577 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 2.1875 | 0.692 | 23.1 | 15.6 |
| 25 | 100Q25H | Q1 | 10.650 | 9.973 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 19.5 | 16.0 |
| 25 | 100R25H | R1 | 10.650 | 9.973 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 2.1875 | 0.692 | 24.5 | 17.0 |
| 26 | 100Q26H | Q1 | 11.050 | 10.370 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 20.8 | 17.3 |
| 26 | 100R26H | R1 | 11.050 | 10.370 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 2.1875 | 0.692 | 25.4 | 17.9 |
| 27 | 100Q27H | Q1 | 11.440 | 10.767 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 21.7 | 18.2 |
| 27 | 100R27H | R1 | 11.440 | 10.767 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 2.1875 | 0.692 | 27.1 | 19.6 |
| 28 | 100Q28H | Q1 | 11.840 | 11.164 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 23.1 | 19.6 |
| 28 | 100R28H | R1 | 11.840 | 11.164 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 2.1875 | 0.692 | 28.5 | 21.0 |
| 30 | 100Q30H | Q1 | 12.640 | 11.958 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 25.9 | 22.4 |
| 30 | 100R30H | R1 | 12.640 | 11.958 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 2.1875 | 0.692 | 32.0 | 24.5 |
| 32 | 100Q32 | Q1 | 13.440 | 12.753 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 28.8 | 25.3 |
| 32 | 100R32 | R1 | 13.440 | 12.753 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 2.1875 | 0.692 | 34.0 | 26.5 |
| 35 | 100Q35 | Q1 | 14.640 | 13.945 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.8125 | 0.692 | 33.7 | 30.2 |
| 35 | 100R35 | R1 | 14.640 | 13.945 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 2.1875 | 0.692 | 37.3 | 29.8 |
| 36 | 100R36 | R1 | 15.040 | 14.342 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 2.1875 | 0.692 | 40.5 | 33.0 |
| 40 | 100R40 | R1 | 16.630 | 15.932 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 2.1875 | 0.692 | 48.4 | 40.9 |
| 42 | 100R42 | R1 | 17.430 | 16.727 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 2.1875 | 0.692 | 51.8 | 44.3 |
| 45 | 100R45 | R1 | 18.630 | 17.920 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 2.1875 | 0.692 | 58.0 | 50.5 |
| 48 | 100R48 | R1 | 19.820 | 19.112 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 2.1875 | 0.692 | 65.0 | 57.5 |
| 54 | 100R54 | R1 | 22.210 | 21.498 | 5 | 3.75 | 3.1563 | 2.875 | 1.3125 | 5.375 | .875 | 0.692 | 76.5 | 69.0 |
| 60 | 100R60 | R1 | 24.600 | 23.884 | 5 | 3.75 | 3.1563 | 2.875 | 1.3125 | 5.375 | .875 | 0.692 | 91.5 | 84.0 |
| 70 | 100R70 | R1 | 28.580 | 27.862 | 5 | 3.75 | 3.1563 | 2.875 | 1.3125 | 5.375 | .875 | 0.692 | 111.5 | 104.0 |
| 72 | 100R72 | R1 | 29.380 | 28.657 | 5 | 3.75 | 3.1563 | 2.875 | 1.3125 | 5.375 | .875 | 0.692 | 113.5 | 106.0 |
| 80 | 100R80 | R1 | 32.570 | 31.839 | 5 | 3.75 | 3.1563 | 2.875 | 1.3125 | 5.375 | .875 | 0.692 | 142.5 | 135.0 |
| 84 | 100R84 | R1 | 34.160 | 33.430 | 5 | 3.75 | 3.1563 | 2.875 | 1.3125 | 5.375 | .875 | 0.692 | 145.5 | 138.0 |

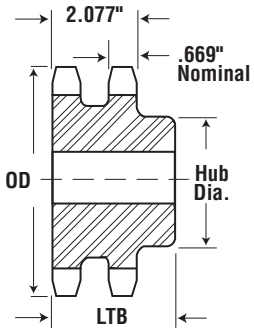
Sprockets with "H" suffix have hardened teeth.

# All Steel Stock Sprockets

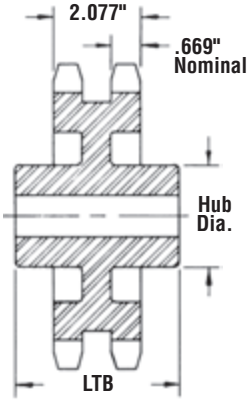
# No. 100-2
## 1¼" Pitch

**Alteration Charges**

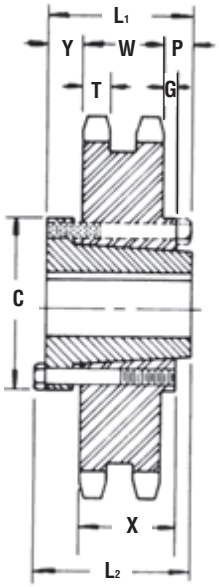
See current discount sheet for alteration charges.



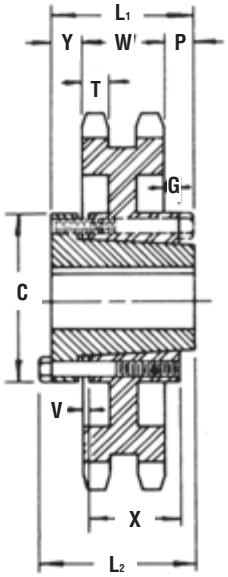

Type B




Type C




QD - Type C2




QD - Type C6

## Double - Type B & C

| No. Teeth | Catalog Number | OD | Type | Bore (Inches) | | Hub (Inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | LTB | |
| 9 | D100B9 | 4.180 | B | 1 | 1.625 | 2.375 | 2.875 | 4.6 |
| 10 | D100B10 | 4.600 | B | 1 | 1.875 | 2.75 | 2.875 | 6.2 |
| 11 | D100B11 | 5.010 | B | 1 | 2.125 | 3.125 | 2.875 | 7.9 |
| 12 | D100B12 | 5.420 | B | 1.125 | 2.25 | 3.375 | 2.875 | 9.3 |
| 13 | D100B13 | 5.820 | B | 1.125 | 2.5 | 3.8125 | 2.875 | 11.4 |
| 14 | D100B14 | 6.230 | B | 1.125 | 2.75 | 4.1875 | 2.875 | 13.6 |
| 15 | D100B15 | 6.630 | B | 1.25 | 3.125 | 4.625 | 3.125 | 17.1 |
| 16 | D100B16 | 7.030 | B | 1.25 | 3.3125 | 5 | 3.125 | 20.1 |
| 17 | D100B17 | 7.440 | B | 1.25 | 3.5 | 5.25 | 3.125 | 23.1 |
| 18 | D100B18 | 7.840 | B | 1.25 | 3.5 | 5.25 | 3.125 | 25.4 |
| 19 | D100B19 | 8.240 | B | 1.25 | 3.75 | 5.5 | 3.375 | 29.6 |
| 20 | D100B20 | 8.640 | B | 1.25 | 3.75 | 5.5 | 3.375 | 32.4 |
| 21 | D100B21 | 9.040 | B | 1.25 | 3.75 | 5.5 | 3.375 | 35.3 |
| 22 | D100B22 | 9.440 | B | 1.25 | 3.75 | 5.5 | 3.375 | 38.4 |
| 23 | D100B23 | 9.840 | B | 1.25 | 3.75 | 5.5 | 3.375 | 41.3 |
| 24 | D100B24 | 10.250 | B | 1.25 | 3.75 | 5.75 | 3.375 | 45.1 |
| 25 | D100B25 | 10.650 | B | 1.25 | 3.75 | 5.75 | 3.375 | 48.5 |
| 26 | D100B26 | 11.050 | B | 1.5 | 3.75 | 5.75 | 3.375 | 51.5 |
| 30 | D100B30 | 12.640 | B | 1.5 | 3.75 | 5.75 | 3.375 | 65.0 |
| 35 | D100C35 | 14.640 | C | 1.5 | 3.8125 | 6 | 4.25 | 75.0 |
| 45 | D100C45 | 18.630 | C | 1.5 | 3.8125 | 6 | 4.5 | 103.0 |
| 60 | D100C60 | 24.600 | C | 1.5 | 5.375 | 7.5 | 5 | 175.0 |
| 70 | D100C70 | 28.580 | C | 1.5 | 5.375 | 7.5 | 5 | 197.0 |
| 80 | D100C80 | 32.570 | C | 1.5 | 5.375 | 7.5 | 5 | 231.0 |

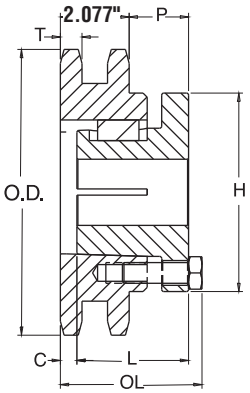
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

## Double - Type QD

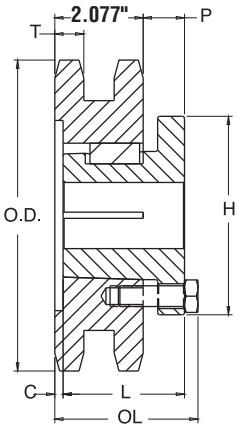
| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | G | V | X | T | W | With Hub | Rim Only |
| 35 | D100F35 | F | 14.640 | 13.945 | C2 | 3.9375 | 3.625 | 4 | 6.625 | 1 | .5469 | .4219 | – | 2.5 | 0.669 | 2.077 | 84.5 | 73.0 |
| 45 | D100F45 | F | 18.630 | 17.920 | C2 | 3.9375 | 3.625 | 4 | 6.625 | 1 | .5469 | .4219 | – | 2.5 | 0.669 | 2.077 | 92.5 | 81.0 |
| 60 | D100J60 | J | 24.600 | 23.884 | C6 | 4.4375 | 4.5 | 5 | 7.25 | 1.2188 | 1.2031 | 1.0938 | .0313 | 3.1875 | 0.669 | 2.077 | 152.0 | 133.0 |
| 70 | D100J70 | J | 28.580 | 27.862 | C6 | 4.4375 | 4.5 | 5 | 7.25 | 1.2188 | 1.2031 | 1.0938 | .0313 | 3.1875 | 0.669 | 2.077 | 180.0 | 161.0 |
| 80 | D100J80 | J | 32.570 | 31.839 | C6 | 4.4375 | 4.5 | 5 | 7.25 | 1.2188 | 1.2031 | 1.0938 | .0313 | 3.1875 | 0.669 | 2.077 | 215.0 | 196.0 |

# No. 100-2
## 1¼" Pitch

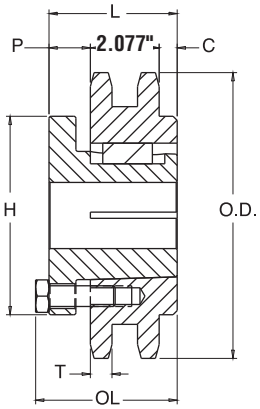
## MST® Sprockets



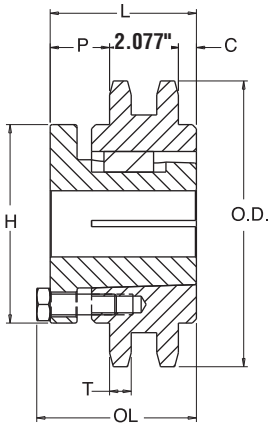

Type 12




Type 14




Type 15




Type 18

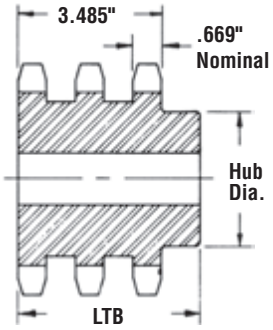
## Double - MST® Sprockets

| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 11 | D100P11H | P1 | 5.010 | 4.437 | 14 | 1.75 | 2.9375 | 1.9375 | .75 | 3 | .625 | 0.669 | 6.0 | 4.7 |
| 12 | D100Q12H | Q2 | 5.420 | 4.830 | 12 | 2.625 | 4.2188 | 3.5 | .4375 | 4.125 | 1.8594 | 0.669 | 10.4 | 5.9 |
| 13 | D100Q13H | Q2 | 5.820 | 5.223 | 12 | 2.625 | 4.2188 | 3.5 | .4375 | 4.125 | 1.8594 | 0.669 | 12.4 | 7.9 |
| 14 | D100Q14H | Q1 | 6.230 | 5.617 | 14 | 2.6875 | 3.0938 | 2.5 | .3125 | 4.125 | .75 | 0.669 | 10.9 | 7.4 |
| 15 | D100Q15H | Q1 | 6.630 | 6.012 | 14 | 2.6875 | 3.0938 | 2.5 | .3125 | 4.125 | .75 | 0.669 | 12.6 | 9.1 |
| 16 | D100Q16H | Q1 | 7.030 | 6.407 | 14 | 2.6875 | 3.0938 | 2.5 | .3125 | 4.125 | .75 | 0.669 | 14.4 | 10.9 |
| 17 | D100R17H | R1 | 7.440 | 6.803 | 14 | 3.75 | 3.2188 | 2.875 | .625 | 5.375 | .875 | 0.669 | 17.5 | 10.0 |
| 18 | D100R18H | R1 | 7.840 | 7.198 | 14 | 3.75 | 3.2188 | 2.875 | .625 | 5.375 | .875 | 0.669 | 19.8 | 12.3 |
| 19 | D100R19 | R1 | 8.240 | 7.595 | 14 | 3.75 | 3.2188 | 2.875 | .625 | 5.375 | .875 | 0.669 | 22.4 | 14.9 |
| 20 | D100R20 | R1 | 8.640 | 7.991 | 14 | 3.75 | 3.2188 | 2.875 | .625 | 5.375 | .875 | 0.669 | 24.9 | 17.4 |
| 21 | D100R21 | R1 | 9.040 | 8.387 | 14 | 3.75 | 3.2188 | 2.875 | .625 | 5.375 | .875 | 0.669 | 27.8 | 20.3 |
| 22 | D100R22 | R1 | 9.440 | 8.783 | 14 | 3.75 | 3.2188 | 2.875 | .625 | 5.375 | .875 | 0.669 | 30.3 | 22.8 |
| 24 | D100R24 | R1 | 10.250 | 9.577 | 14 | 3.75 | 3.2188 | 2.875 | .625 | 5.375 | .875 | 0.669 | 37.0 | 29.5 |
| 35 | D100R35 | R1 | 14.640 | 13.945 | 14 | 3.75 | 3.2188 | 2.875 | .625 | 5.375 | .875 | 0.669 | 84.3 | 76.8 |
| 45 | D100S45 | S1 | 18.630 | 17.920 | 15 | 4.125 | 4.75 | 4.375 | 115/64 | 6.375 | 1.625 | 0.669 | 151.5 | 138.0 |
| 60 | D100S60 | S1 | 24.600 | 23.884 | 15 | 4.125 | 4.75 | 4.375 | 115/64 | 6.375 | 1.625 | 0.669 | 264.5 | 251.0 |
| 70 | D100S70 | S1 | 28.580 | 27.862 | 18 | 4.125 | 7.125 | 6.75 | 2.125 | 6.375 | 2.4375 | 0.669 | 371.5 | 358.0 |
| 80 | D100S80 | S1 | 32.570 | 31.839 | 18 | 4.125 | 7.125 | 6.75 | 2.125 | 6.375 | 2.4375 | 0.669 | 444.5 | 431.0 |

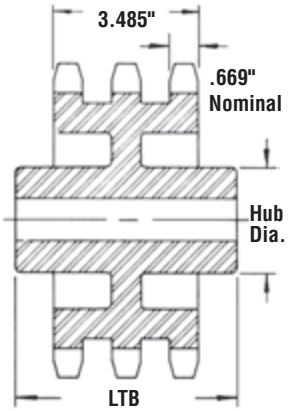
Sprockets with "H" suffix have hardened teeth.

# All Steel Stock Sprockets

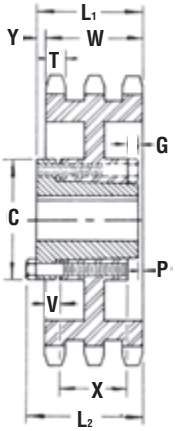
# No. 100-3
## 1¼" Pitch



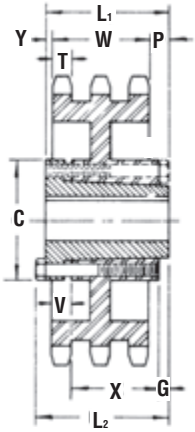

Type B




Type C




QD — Type B1




QD — Type C3

**Alteration Charges**

See current discount sheet for alteration charges.

## Triple - Type B & C

| No. Teeth | Catalog Number | OD | Type | Bore (inches) | | Hub (inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | Length Thru | |
| 11 | E100B11 | 5.010 | B | 1 | 2.125 | 3.125 | 4.125 | 11.7 |
| 12 | E100B12 | 5.420 | B | 1.125 | 2.125 | 3.375 | 4.125 | 13.7 |
| 13 | E100B13 | 5.820 | B | 1.125 | 2.5 | 3.8125 | 4.125 | 16.9 |
| 14 | E100B14 | 6.230 | B | 1.125 | 2.75 | 4.1875 | 4.125 | 20.2 |
| 15 | E100B15 | 6.630 | B | 1.125 | 3.125 | 4.625 | 4.5 | 25.0 |
| 16 | E100B16 | 7.030 | B | 1.125 | 3.3125 | 5 | 4.5 | 29.3 |
| 17 | E100B17 | 7.440 | B | 1.125 | 3.5 | 5.125 | 4.5 | 33.8 |
| 18 | E100B18 | 7.840 | B | 1.125 | 3.5 | 5.125 | 4.75 | 38.6 |
| 19 | E100B19 | 8.240 | B | 1.125 | 3.75 | 5.5 | 4.75 | 43.3 |
| 20 | E100B20 | 8.640 | B | 1.125 | 3.75 | 5.5 | 4.75 | 47.9 |
| 21 | E100B21 | 9.040 | B | 1.125 | 3.75 | 5.5 | 4.75 | 52.3 |
| 22 | E100B22 | 9.440 | B | 1.125 | 3.75 | 5.5 | 4.75 | 57.5 |
| 23 | E100B23 | 9.840 | B | 1.125 | 3.75 | 5.5 | 4.75 | 62.5 |
| 24 | E100B24 | 10.250 | B | 1.125 | 3.75 | 5.75 | 4.75 | 69.0 |
| 25 | E100B25 | 10.650 | B | 1.125 | 3.75 | 5.75 | 4.75 | 73.0 |
| 26 | E100B26 | 11.050 | B | 1.5 | 3.8125 | 5.75 | 4.75 | 79.0 |
| 30 | E100B30 | 12.640 | B | 1.5 | 3.8125 | 5.75 | 4.75 | 103.0 |
| 35 | E100C35 | 14.640 | C | 1.5 | 4 | 6 | 5 | 108.0 |
| 45 | E100C45 | 18.630 | C | 1.5 | 4 | 6 | 5 | 143.0 |
| 60 | E100C60 | 24.600 | C | 1.5 | 5.375 | 7.5 | 5 | 217.0 |
| 70 | E100C70 | 28.580 | C | 1.5 | 5.375 | 7.5 | 5 | 262.0 |
| 80 | E100C80 | 32.570 | C | 1.5 | 5.375 | 7.5 | 5 | 313.0 |

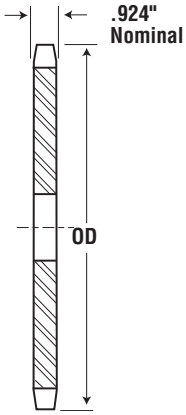
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

## Triple - Type QD

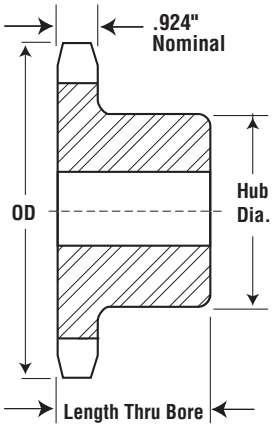
| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | G | V | X | T | W | With Hub | Rim Only |
| 35 | E100F35 | F | 14.640 | 13.945 | B1 | 3.9375 | 3.9844 | 4.3594 | 6.625 | .5 | .3594 | .125 | .5 | 2.5 | 0.669 | 3.485 | 112 | 100 |
| 45 | E100F45 | F | 18.630 | 17.820 | B1 | 3.9375 | 3.9844 | 4.3594 | 6.625 | .5 | .3594 | .125 | .5 | 2.5 | 0.669 | 3.485 | 139 | 120 |
| 60 | E100J60 | J | 24.600 | 28.884 | C3 | 4.4375 | 4.5 | 5 | 7.125 | .5 | .5156 | .375 | .6875 | 3.1875 | 0.669 | 3.485 | 197 | 178 |
| 70 | E100J70 | J | 28.580 | 27.862 | C3 | 4.4375 | 4.5 | 5 | 7.125 | .5 | .5156 | .375 | .6875 | 3.1875 | 0.669 | 3.485 | 247 | 228 |
| 80 | E100J80 | J | 32.570 | 31.839 | C3 | 4.4375 | 4.5 | 5 | 7.125 | .5 | .5156 | .375 | .6875 | 3.1875 | 0.669 | 3.485 | 287 | 268 |

# No. 120
## 1½" Pitch

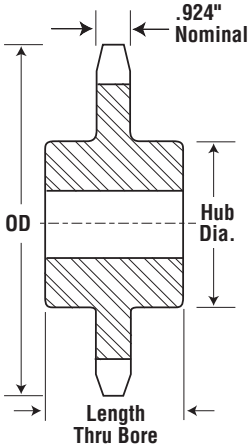
# All Steel Stock Sprockets




Type A




Type B




Type C

## Single - Type B & C

## Single - Type A

| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 8 | – | 4.520 | – | – | – | – | – | – | A | 120A8 | 1.25 | 2.4 |
| 9 | 120B9 | 5.020 | B | 1.375 | 1.8125 | 3.375 ★ | 2.25 | 5.3 | A | 120A9 | 1.25 | 3.0 |
| 10 | 120B10 | 5.520 | B | 1.375 | 2.25 | 3.75 ★ | 2.25 | 7.1 | A | 120A10 | 1.25 | 3.8 |
| 11 | 120B11 | 6.010 | B | 1.375 | 2.375 | 3.5625 | 2.125 | 7.6 | A | 120A11 | 1.25 | 4.8 |
| 12 | 120B12 | 6.500 | B | 1.375 | 2.75 | 4.125 | 2.125 | 9.9 | A | 120A12 | 1.25 | 5.8 |
| 13 | 120B13 | 6.990 | B | 1.375 | 3 | 4.5625 | 2.25 | 12.4 | A | 120A13 | 1.25 | 6.7 |
| 14 | 120B14 | 7.470 | B | 1.375 | 3.25 | 4.75 | 2.25 | 14.4 | A | 120A14 | 1.25 | 8.0 |
| 15 | 120B15 | 7.960 | B | 1.25 | 3.25 | 4.75 | 2.375 | 16.7 | A | 120A15 | 1.25 | 9.1 |
| 16 | 120B16 | 8.440 | B | 1.25 | 3.5 | 5.25 | 2.375 | 19.9 | A | 120A16 | 1.25 | 10.6 |
| 17 | 120B17 | 8.920 | B | 1.25 | 3.5 | 5.25 | 2.375 | 20.8 | A | 120A17 | 1.25 | 12.6 |
| 18 | 120B18 | 9.410 | B | 1.25 | 3.5 | 5.25 | 2.375 | 22.2 | A | 120A18 | 1.25 | 13.6 |
| 19 | 120B19 | 9.890 | B | 1.25 | 3.5 | 5.25 | 2.375 | 24.8 | A | 120A19 | 1.25 | 15.1 |
| 20 | 120B20 | 10.370 | B | 1.25 | 3.5 | 5.25 | 2.375 | 25.8 | A | 120A20 | 1.25 | 16.9 |
| 21 | 120B21 | 10.850 | B | 1.25 | 3.5 | 5.25 | 2.375 | 26.7 | A | 120A21 | 1.25 | 18.7 |
| 22 | 120B22 | 11.330 | B | 1.25 | 3.5 | 5.25 | 2.375 | 28.2 | A | 120A22 | 1.25 | 20.0 |
| 23 | 120B23 | 11.810 | B | 1.25 | 3.5 | 5.25 | 2.375 | 30.3 | A | 120A23 | 1.25 | 22.1 |
| 24 | 120B24 | 12.290 | B | 1.25 | 3.5 | 5.25 | 2.375 | 32.1 | A | 120A24 | 1.25 | 24.8 |
| 25 | 120B25 | 12.770 | B | 1.25 | 3.5 | 5.25 | 2.375 | 34.6 | A | 120A25 | 1.25 | 26.8 |
| 26 | 120B26 | 13.250 | B | 1.5 | 4 | 6 | 2.5 | 40.0 | A | 120A26 | 1.5 | 28.3 |
| 27 | – | 13.730 | – | – | – | – | – | – | A | 120A27 | 1.5 | 30.9 |
| 28 | 120B28 | 14.210 | B | 1.5 | 4 | 6 | 2.5 | 44.9 | A | 120A28 | 1.5 | 33.6 |
| 30 | 120B30 | 15.170 | B | 1.5 | 4 | 6 | 2.5 | 50.2 | A | 120A30 | 1.5 | 39.0 |
| 32 | 120B32 | 16.130 | B | 1.5 | 4 | 6 | 2.5 | 56.0 | A | 120A32 | 1.5 | 43.9 |
| 33 | – | 16.610 | – | – | – | – | – | – | A | 120A33 | 1.5 | 48.2 |
| 34 | – | 17.090 | – | – | – | – | – | – | A | 120A34 | 1.5 | 50.0 |
| 35 | 120B35 | 17.570 | B | 1.5 | 4 | 6 | 2.5 | 62.4 | A | 120A35 | 1.5 | 52.0 |
| 36 | 120B36 | 18.050 | B | 1.5 | 4 | 6 | 2.5 | 66.4 | A | 120A36 | 1.5 | 56.0 |
| 40 | 120C40 | 19.960 | C | 1.5 | 4 | 6 | 3.75 | 92.0 | A | 120A40 | 1.5 | 71.0 |
| 42 | 120C42 | 20.920 | C | 1.5 | 4 | 6 | 3.75 | 98.0 | A | 120A42 | 1.5 | 75.0 |
| 45 | 120C45 | 22.350 | C | 1.5 | 4 | 6 | 3.75 | 99.2 | A | 120A45 | 1.5 | 88.0 |
| 48 | 120C48 | 23.790 | C | 1.5 | 4 | 6 | 4 | 113.0 | A | 120A48 | 1.5 | 103.0 |
| 54 | 120C54 | 26.650 | C | 1.5 | 4 | 6 | 4 | 133.0 | A | 120A54 | 1.5 | 140.0 |
| 60 | 120C60 | 29.520 | C | 1.5 | 5.25 | 7 | 4 | 160.0 | A | 120A60 | 1.5 | 160.0 |
| 70 | 120C70 | 34.300 | C | 1.5 | 5.375 | 7.5 | 4.5 | 206.0 | A | 120A70 | 1.5 | 216.0 |
| 80 | 120C80 | 39.080 | C | 1.5 | 5.375 | 7.5 | 4.5 | 254.0 | A | 120A80 | 1.5 | 284.0 |
| 90 | – | 43.850 | – | – | – | – | – | – | A | 120A90 | 1.5 | 358.0 |

★ Has recessed groove in hub for chain clearance.

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

**Alteration Charges**

See current discount sheet for alteration charges.

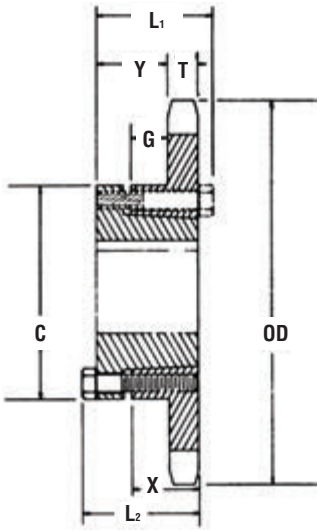
# All Steel Stock Sprockets

# No. 120 1½" Pitch

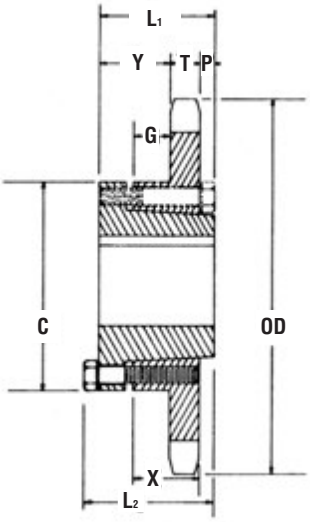
## Single - Type QD With Hardened Teeth

| No. Teeth | Catalog Number |
|---|---|
| 12 | 120SF12H |
| 13 | 120SF13H |
| 14 | 120SF14H |
| 15 | 120SF15H |
| 16 | 120E16H |
| 17 | 120E17H |
| 18 | 120E18H |
| 19 | 120E19H |
| 20 | 120E20H |
| 21 | 120E21H |
| 22 | 120E22H |
| 23 | 120E23H |
| 24 | 120E24H |
| 25 | 120E25H |
| 26 | 120E26H |
| 28 | 120E28H |
| 30 | 120E30H |

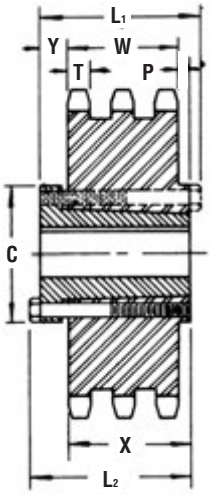
SABER TOOTH



QD — Type B



QD — Type B1



QD — Type C

## Single - Type QD

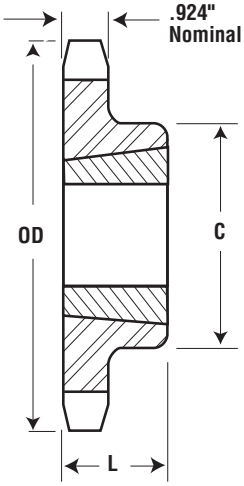
| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | G | X | T | With Hub | Rim Only |
| 12 | 120SF12 | SF | 6.500 | 5.796 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.0781 | – | .3281 | 1.25 | 0.924 | 7.7 | 4.7 |
| 13 | 120SF13 | SF | 6.990 | 6.268 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.0781 | – | .3281 | 1.25 | 0.924 | 9.1 | 6.1 |
| 14 | 120SF14 | SF | 7.470 | 6.741 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.0781 | – | .3281 | 1.25 | 0.924 | 10.4 | 7.4 |
| 15 | 120SF15 | SF | 7.960 | 7.215 | B | 2.9375 | 2.25 | 2.25 | 4.625 | 1.0781 | – | .3281 | 1.25 | 0.924 | 11.8 | 8.0 |
| 16 | 120E16 | E | 8.440 | 7.689 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.5625 | .125 | .7031 | 1.625 | 0.924 | 21.2 | 11.2 |
| 17 | 120E17 | E | 8.920 | 8.163 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.5625 | .125 | .7031 | 1.625 | 0.924 | 23.4 | 13.4 |
| 18 | 120E18 | E | 9.410 | 8.638 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.5625 | .125 | .7031 | 1.625 | 0.924 | 24.8 | 14.8 |
| 19 | 120E19 | E | 9.890 | 9.113 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.5625 | .125 | .7031 | 1.625 | 0.924 | 26.5 | 16.5 |
| 20 | 120E20 | E | 10.370 | 9.589 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.5625 | .125 | .7031 | 1.625 | 0.924 | 29.2 | 19.2 |
| 21 | 120E21 | E | 10.850 | 10.064 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.5625 | .125 | .7031 | 1.625 | 0.924 | 29.9 | 19.9 |
| 22 | 120E22 | E | 11.330 | 10.540 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.5625 | .125 | .7031 | 1.625 | 0.924 | 31.6 | 21.6 |
| 23 | 120E23 | E | 11.810 | 11.016 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.5625 | .125 | .7031 | 1.625 | 0.924 | 33.8 | 23.8 |
| 24 | 120E24 | E | 12.290 | 11.492 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.5625 | .125 | .7031 | 1.625 | 0.924 | 35.8 | 25.8 |
| 25 | 120E25 | E | 12.770 | 11.968 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.5625 | .125 | .7031 | 1.625 | 0.924 | 38.1 | 28.1 |
| 26 | 120E26 | E | 13.250 | 12.444 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.5625 | .125 | .7031 | 1.625 | 0.924 | 39.9 | 29.9 |
| 28 | 120E28 | E | 14.210 | 13.397 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.5625 | .125 | .7031 | 1.625 | 0.924 | 49.7 | 34.7 |
| 30 | 120E30 | E | 15.170 | 14.350 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.5625 | .125 | .7031 | 1.625 | 0.924 | 49.4 | 39.4 |
| 32 | 120F32 | F | 16.130 | 15.303 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 1.6875 | 1.5781 | 2.5 | 0.924 | 62.0 | 50.5 |
| 35 | 120F35 | F | 17.570 | 16.734 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 1.6875 | 1.5781 | 2.5 | 0.924 | 71.0 | 59.5 |
| 36 | 120F36 | F | 18.050 | 17.211 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 1.6875 | 1.5781 | 2.5 | 0.924 | 74.9 | 63.4 |
| 40 | 120F40 | F | 19.960 | 19.118 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 1.6875 | 1.5781 | 2.5 | 0.924 | 88.5 | 77.0 |
| 42 | 120F42 | F | 20.920 | 20.072 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 1.6875 | 1.5781 | 2.5 | 0.924 | 94.5 | 83.0 |
| 45 | 120F45 | F | 22.350 | 21.503 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 1.6875 | 1.5781 | 2.5 | 0.924 | 95.5 | 84.0 |
| 48 | 120F48 | F | 23.790 | 22.935 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 1.6875 | 1.5781 | 2.5 | 0.924 | 103.5 | 92.0 |
| 54 | 120F54 | F | 26.650 | 25.798 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 1.6875 | 1.5781 | 2.5 | 0.924 | 125.0 | 114.0 |
| 60 | 120J60 | J | 29.520 | 28.661 | C | 4.4375 | 4.5 | 5 | 7.25 | 1.1875 | 2.3125 | 2.2656 | 3.1875 | 0.924 | 159.0 | 140.0 |
| 70 | 120J70 | J | 34.300 | 33.434 | C | 4.4375 | 4.5 | 5 | 7.25 | 1.1875 | 2.3125 | 2.2656 | 3.1875 | 0.924 | 196.0 | 177.0 |
| 80 | 120J80 | J | 39.080 | 38.207 | C | 4.4375 | 4.5 | 5 | 7.25 | 1.1875 | 2.3125 | 2.2656 | 3.1875 | 0.924 | 241.0 | 222.0 |

# No. 120
# 1½" Pitch

# All Steel Stock Sprockets

## Single - Taper Bushed

| No. Teeth | Catalog Number | Bushing | Diameter | | Max. Bore | Dimensions | | Type | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | L | C | | Rim Only | Bushing Only |
| 12 | 120BTB12 | 2012 | 6.498 | 5.796 | 2 | 1.25 | 3.5625 | B | 5.5 | 1.7 |
| 13 | 120BTB13 | 2517 | 6.896 | 6.268 | 2.5 | 1.75 | 4.25 | B | 6.0 | 3.5 |
| 14 | 120BTB14 | 2517 | 7.472 | 6.741 | 2.5 | 1.75 | 4.25 | B | 7.0 | 3.5 |
| 15 | 120BTB15 | 2517 | 7.957 | 7.215 | 2.5 | 1.75 | 4.25 | B | 8.0 | 3.5 |
| 16 | 120BTB16 | 3020 | 8.441 | 7.689 | 3 | 2 | 5.25 | B | 10.0 | 6.5 |
| 17 | 120BTB17 | 3020 | 8.924 | 8.163 | 3 | 2 | 5.25 | B | 11.0 | 6.5 |
| 18 | 120BTB18 | 3020 | 9.407 | 8.638 | 3 | 2 | 5.25 | B | 12.0 | 6.5 |
| 19 | 120BTB19 | 3020 | 9.889 | 9.113 | 3 | 2 | 5.25 | B | 14.0 | 6.5 |
| 20 | 120BTB20 | 3020 | 10.371 | 9.588 | 3 | 2 | 5.25 | B | 15.5 | 6.5 |
| 21 | 120BTB21 | 3020 | 10.851 | 10.064 | 3 | 2 | 5.25 | B | 17.5 | 6.5 |
| 24 | 120BTB24 | 3020 | 12.294 | 11.492 | 3 | 2 | 5.25 | B | 23.5 | 6.5 |
| 26 | 120BTB26 | 3020 | 13.254 | 12.444 | 3 | 2 | 5.25 | B | 28.5 | 6.5 |
| 30 | 120BTB30 | 3020 | 15.171 | 14.351 | 3 | 2 | 5.25 | B | 33.5 | 6.5 |
| 35 | 120CTB35 | 3020 | 17.566 | 16.734 | 3 | 2 | 5.25 | C | 52.0 | 6.5 |
| 45 | 120CTB45 | 3030 | 22.351 | 21.503 | 3 | 3 | 5.875 | C | 82.0 | 9.2 |
| 60 | 120CTB60 | 3535 | 29.522 | 28.661 | 3.5 | 3.5 | 6.5 | C | 140.0 | 14.0 |
| 70 | 120CTB70 | 3535 | 34.301 | 33.434 | 3.5 | 3.5 | 6.5 | C | 175.0 | 14.0 |
| 80 | 120CTB80 | 3535 | 39.078 | 38.207 | 3.25 | 3.5 | 6.5 | C | 220.0 | 14.0 |

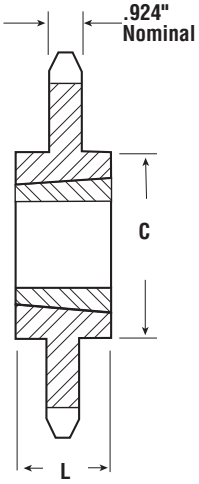


Type B

## Single - Taper Bushed with Hardened Teeth

| No. Teeth | Catalog Number |
|---|---|
| 13 | 120BTB13H |
| 14 | 120BTB14H |
| 15 | 120BTB15H |
| 16 | 120BTB16H |
| 17 | 120BTB17H |
| 18 | 120BTB18H |
| 19 | 120BTB19H |
| 20 | 120BTB20H |
| 21 | 120BTB21H |
| 24 | 120BTB24H |
| 26 | 120BTB26H |
| 30 | 120BTB30H |

SABER TOOTH



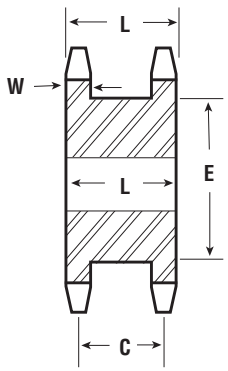
Type C

## Single - Type C — Steel 1½" Pitch

| No. Teeth | Catalog Number | OD | Bore (inches) | | Hub (inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|
| | | | Stock | Rec. Max. | Diameter | Length | |
| 11 | 120C11 | 6.010 | 1.375 | 2.375 | 3.5625 | 3.375 | 12.45 |
| 12 | 120C12 | 6.500 | 1.375 | 2.75 | 4.8125 | 3.375 | 14.80 |
| 13 | 120C13 | 6.990 | 1.375 | 3 | 4.625 | 3.375 | 17.15 |
| 14 | 120C14 | 7.470 | 1.375 | 3.25 | 4.75 | 3.375 | 19.50 |

## Double Single - Type A — Steel

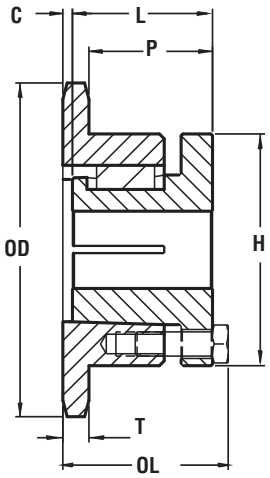
| No. Teeth | Catalog Number | Diameter | | Type | Min. Bore | Max. Bore | Dimensions | | | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OD | PD | | | | L | C | E | W (Nom.) | |
| 15 | DS120A15 | 7.960 | 7.215 | A | 1.4375 | 3.75 | 3.3438 | 2.4375 | 5.4844 | 0.924 | 30.0 |
| 16 | DS120A16 | 8.440 | 7.689 | A | 1.4375 | 4 | 3.3438 | 2.4375 | 6 | 0.924 | 34.0 |
| 17 | DS120A17 | 8.920 | 8.163 | A | 1.4375 | 4.4375 | 3.3438 | 2.4375 | 6.4844 | 0.924 | 37.0 |
| 18 | DS120A18 | 9.410 | 8.638 | A | 1.4375 | 5.1875 | 3.3438 | 2.4375 | 6.4844 | 0.924 | 42.0 |
| 19 | DS120A19 | 9.890 | 9.113 | A | 1.4375 | 5.5 | 3.3438 | 2.4375 | 7.4531 | 0.924 | 47.0 |
| 20 | DS120A20 | 10.370 | 9.589 | A | 1.4375 | 5.9375 | 3.3438 | 2.4375 | 7.9375 | 0.924 | 51.0 |



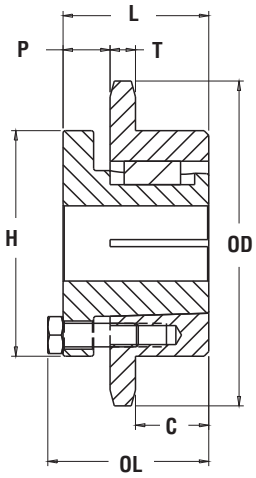
Type A

# MST® Sprockets

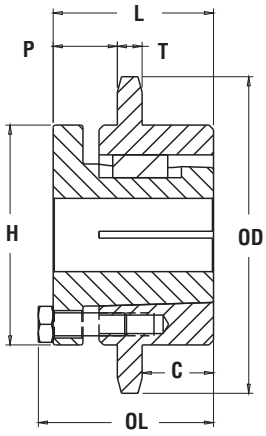
# No. 120
## 1½" Pitch




Type 4




Type 5




Type 6

## Single - MST® Sprockets

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 11 | 120Q11H | Q1 | 6.010 | 5.324 | 4 | 2.6875 | 2.3906 | 2.5 | – | 4.125 | 1.5625 | 0.924 | 8.3 | 4.8 |
| 12 | 120Q12H | Q1 | 6.500 | 5.796 | 4 | 2.6875 | 2.3906 | 2.5 | – | 4.125 | 1.5625 | 0.924 | 9.8 | 6.3 |
| 13 | 120Q13H | Q1 | 6.990 | 6.268 | 4 | 2.6875 | 2.3906 | 2.5 | – | 4.125 | 1.5625 | 0.924 | 11.4 | 7.9 |
| 14 | 120Q14H | Q1 | 7.470 | 6.741 | 4 | 2.6875 | 2.3906 | 2.5 | – | 4.125 | 1.5625 | 0.924 | 12.7 | 9.2 |
| 15 | 120Q15H | Q1 | 7.960 | 7.215 | 4 | 2.6875 | 2.3906 | 2.5 | – | 4.125 | 1.5625 | 0.924 | 13.9 | 10.4 |
| 16 | 120Q16H | Q1 | 8.440 | 7.689 | 4 | 2.6875 | 2.3906 | 2.5 | – | 4.125 | 1.9375 | 0.924 | 15.3 | 11.8 |
| 16 | 120R16H | R1 | 8.440 | 7.689 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 19.5 | 12.0 |
| 17 | 120Q17H | Q1 | 8.920 | 8.163 | 4 | 2.6875 | 2.3906 | 2.5 | – | 4.125 | 1.9375 | 0.924 | 16.9 | 13.4 |
| 17 | 120R17H | R1 | 8.920 | 8.163 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 21.2 | 13.7 |
| 18 | 120Q18H | Q1 | 9.410 | 8.638 | 4 | 2.6875 | 2.3906 | 2.5 | – | 4.125 | 1.9375 | 0.924 | 19.1 | 15.6 |
| 18 | 120R18H | R1 | 9.410 | 8.638 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 22.5 | 15.0 |
| 19 | 120R19H | R1 | 9.890 | 9.113 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 24.4 | 16.9 |
| 20 | 120R20H | R1 | 10.370 | 9.589 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 26.3 | 18.8 |
| 21 | 120R21H | R1 | 10.850 | 10.064 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 28.2 | 20.7 |
| 22 | 120R22H | R1 | 11.330 | 10.540 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 30.0 | 22.5 |
| 23 | 120R23H | R1 | 11.810 | 11.016 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 31.8 | 24.3 |
| 24 | 120R24H | R1 | 12.290 | 11.492 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 34.6 | 27.1 |
| 25 | 120R25H | R1 | 12.770 | 11.968 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 36.6 | 29.1 |
| 26 | 120R26H | R1 | 13.250 | 12.444 | 5 | 3.75 | 3.1563 | 2.875 | 1.0625 | 5.375 | .875 | 0.924 | 40.8 | 33.3 |
| 28 | 120R28H | R1 | 14.210 | 13.397 | 5 | 3.75 | 3.1563 | 2.875 | 1.0625 | 5.375 | .875 | 0.924 | 45.5 | 38.0 |
| 30 | 120R30H | R1 | 15.170 | 14.350 | 5 | 3.75 | 3.1563 | 2.875 | 1.0625 | 5.375 | .875 | 0.924 | 50.8 | 43.3 |
| 32 | 120R32 | R1 | 16.130 | 15.303 | 5 | 3.75 | 3.1563 | 2.875 | 1.0625 | 5.375 | .875 | 0.924 | 56.9 | 49.4 |
| 35 | 120R35 | R2 | 17.570 | 16.734 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.9375 | 0.924 | 79.0 | 68.0 |
| 36 | 120R36 | R2 | 18.050 | 17.211 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.9375 | 0.924 | 83.0 | 72.0 |
| 40 | 120R40 | R2 | 19.960 | 19.118 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.9375 | 0.924 | 93.0 | 82.0 |
| 40 | 120S40 | S1 | 19.960 | 19.118 | 5 | 4.25 | 4.75 | 4.375 | 2.375 | 6.375 | 1.0625 | 0.924 | 96.5 | 83.0 |
| 42 | 120S42 | S1 | 20.920 | 20.072 | 5 | 4.25 | 4.75 | 4.375 | 2.375 | 6.375 | 1.0625 | 0.924 | 103.5 | 90.0 |
| 45 | 120R45 | R2 | 22.350 | 21.503 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.9375 | 0.924 | 113.0 | 102.0 |
| 45 | 120S45 | S1 | 22.350 | 21.503 | 5 | 4.25 | 4.75 | 4.375 | 2.375 | 6.375 | 1.0625 | 0.924 | 113.5 | 100.0 |
| 48 | 120S48 | S1 | 23.790 | 22.935 | 5 | 4.25 | 4.75 | 4.375 | 2.375 | 6.375 | 1.0625 | 0.924 | 124.5 | 111.0 |
| 54 | 120S54 | S1 | 26.650 | 25.798 | 5 | 4.25 | 4.75 | 4.375 | 2.375 | 6.375 | 1.0625 | 0.924 | 151.5 | 138.0 |
| 60 | 120R60 | R2 | 29.520 | 28.661 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.9375 | 0.924 | 190.0 | 179.0 |
| 60 | 120S60 | S1 | 29.520 | 28.661 | 5 | 4.25 | 4.75 | 4.375 | 2.375 | 6.375 | 1.0625 | 0.924 | 193.5 | 180.0 |
| 70 | 120R70 | R2 | 34.300 | 33.434 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.9375 | 0.924 | 159.0 | 148.0 |
| 70 | 120S70 | S2 | 34.300 | 33.434 | 5 | 4.1875 | 7.125 | 6.75 | 2.875 | 6.375 | 2.9375 | 0.924 | 186.0 | 167.0 |
| 80 | 120R80 | R2 | 39.080 | 38.207 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.9375 | 0.924 | 302.0 | 291.0 |
| 80 | 120S80 | S2 | 39.080 | 38.207 | 6 | 4.1875 | 7.125 | 6.75 | 2.875 | 6.375 | 2.9375 | 0.924 | 324.0 | 305.0 |

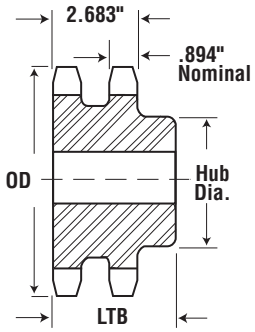
Sprockets with "H" suffix have hardened teeth.

# No. 120-2
## 1½" Pitch

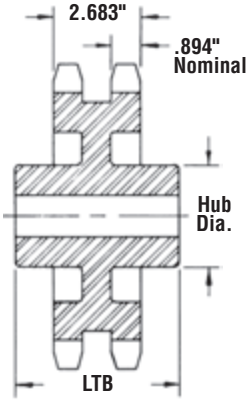
# All Steel Stock Sprockets

**Alteration Charges**

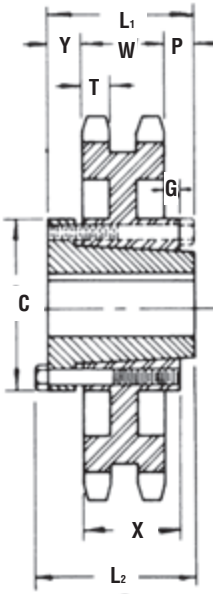
See current discount sheet for alteration charges.



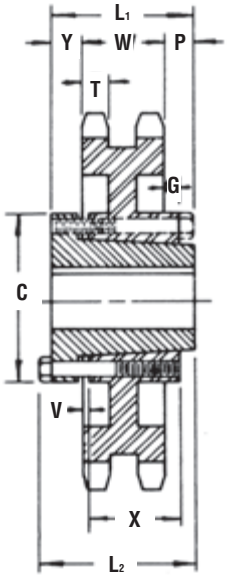

Type B




Type C




QD - Type C5




QD - Type C6

## Double - Type B & C

| No. Teeth | Catalog Number | OD | Type | Bore (Inches) | | Hub (Inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | LTB | |
| 11 | D120B11 | 6.010 | B | 1.5 | 2.375 | 3.5625 | 3.75 | 13.6 |
| 12 | D120B12 | 6.500 | B | 1.5 | 2.75 | 4.0625 | 3.75 | 17.3 |
| 13 | D120B13 | 6.990 | B | 1.5 | 3 | 4.5 | 3.75 | 21.1 |
| 14 | D120B14 | 7.470 | B | 1.5 | 3.3125 | 5 | 3.75 | 25.6 |
| 15 | D120B15 | 7.960 | B | 1.5 | 3.5 | 5.25 | 3.75 | 29.9 |
| 16 | D120B16 | 8.440 | B | 1.5 | 3.5 | 5.25 | 3.75 | 33.8 |
| 17 | D120B17 | 8.920 | B | 1.5 | 3.5 | 5.25 | 3.75 | 36.9 |
| 18 | D120B18 | 9.410 | B | 1.5 | 3.5 | 5.25 | 3.75 | 41.9 |
| 19 | D120B19 | 9.890 | B | 1.5 | 3.5 | 5.25 | 3.75 | 46.5 |
| 20 | D120B20 | 10.370 | B | 1.5 | 3.5 | 5.5 | 3.75 | 50.2 |
| 21 | D120B21 | 10.850 | B | 1.5 | 3.5 | 5.5 | 3.75 | 55.6 |
| 22 | D120B22 | 11.330 | B | 1.5 | 3.8125 | 5.75 | 4 | 64.0 |
| 23 | D120B23 | 11.810 | B | 1.5 | 4 | 6.5 | 4 | 75.0 |
| 24 | D120B24 | 12.290 | B | 1.5 | 4 | 6.5 | 4 | 79.0 |
| 25 | D120B25 | 12.770 | B | 1.5 | 4 | 6.5 | 4 | 84.0 |
| 26 | D120B26 | 13.250 | B | 1.5 | 4 | 6.5 | 4 | 90.0 |
| 30 | D120B30 | 15.170 | B | 1.5 | 4 | 6.5 | 4 | 119.0 |
| 35 | D120C35 | 17.570 | C | 1.5 | 5.375 | 7.5 | 6 | 148.0 |
| 45 | D120C45 | 22.350 | C | 1.5 | 5.375 | 7.5 | 6 | 188.0 |
| 60 | D120C60 | 29.520 | C | 1.5 | 6.375 | 9.5 | 6.25 | 307.0 |

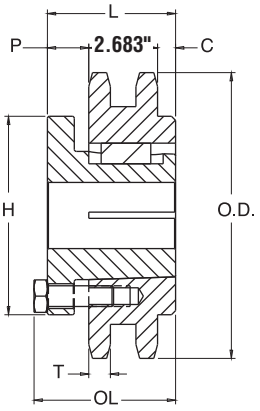
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

## Double - Type QD

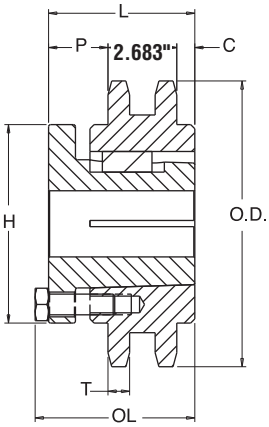
| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | G | V | X | T | W | With Hub | Rim Only |
| 30 | D120J30 | J | 15.170 | 14.350 | C5 | 4.4375 | 4.5 | 5 | 7.25 | .3438 | .7813 | .6563 | .1563 | 3.1875 | .894 | 2.683 | 97.5 | 78.0 |
| 35 | D120J35 | J | 17.570 | 16.734 | C5 | 4.4375 | 4.5 | 5 | 7.25 | .3438 | .7813 | .6563 | .1563 | 3.1875 | .894 | 2.683 | 112.0 | 93.0 |
| 45 | D120J45 | J | 22.350 | 21.502 | C5 | 4.4375 | 4.5 | 5 | 7.25 | .3438 | .7813 | .6563 | .1563 | 3.1875 | .894 | 2.683 | 157.0 | 138.0 |
| 60 | D120M60 | M | 29.520 | 28.661 | C6 | 5.5 | 6.75 | 6.75 | 9 | .9063 | 1.7813 | 1.6563 | .8438 | 5.1875 | .894 | 2.683 | 271.0 | 234.0 |

# MST® Sprockets

# No. 120-2
## 1½" Pitch




Type 15



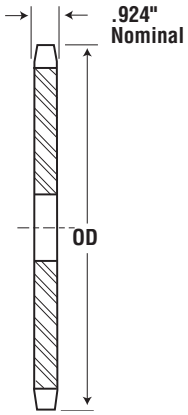

Type 18

## Double - MST® Sprockets

| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 30 | D120S30 | S1 | 15.170 | 14.350 | 15 | 4.25 | 4.75 | 4.1875 | .625 | 6.1875 | 1.0625 | 0.894 | 118.5 | 105.0 |
| 35 | D120S35 | S1 | 17.570 | 16.734 | 15 | 4.25 | 4.75 | 4.1875 | .625 | 6.1875 | 1.0625 | 0.894 | 161.5 | 148.0 |
| 45 | D120S45 | S2 | 22.350 | 21.503 | 18 | 4.1875 | 7.125 | 6.75 | 1.8438 | 6.1875 | 2.2188 | 0.894 | 287.0 | 268.0 |
| 60 | D120U60 | U0 | 29.520 | 28.661 | 15 | 5.5 | 5.7188 | 5.25 | 1.2813 | 8.1875 | 5938 | 0.894 | 213.0 | 183.0 |

# No. 140
## 1¾" Pitch

# All Steel Stock Sprockets



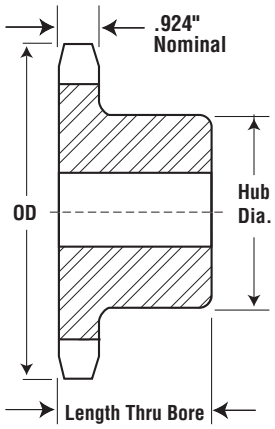

Type A

## Single - Type B & C

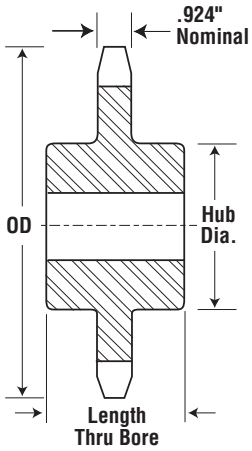
## Single - Type A

| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 11 | 140B11 | 7.010 | B | 1.5 | 2.75 | 4.25 | 2.25 | 11.3 | A | 140A11 | 1.5 | 5.0 |
| 12 | 140B12 | 7.580 | B | 1.5 | 3 | 4.5 | 2.25 | 13.2 | A | 140A12 | 1.5 | 7.8 |
| 13 | 140B13 | 8.150 | B | 1.5 | 3.2813 | 55/16 | 2.375 | 18.9 | A | 140A13 | 1.5 | 8.2 |
| 14 | 140B14 | 8.720 | B | 1.5 | 3.75 | 5.5 | 2.375 | 20.4 | A | 140A14 | 1.5 | 10.0 |
| 15 | 140B15 | 9.280 | B | 1.5 | 4.25 | 6.25 | 2.375 | 25.1 | A | 140A15 | 1.5 | 11.0 |
| 16 | 140B16 | 9.850 | B | 1.5 | 4.25 | 6.25 | 2.5 | 27.9 | A | 140A16 | 1.5 | 14.0 |
| 17 | 140B17 | 10.410 | B | 1.5 | 4.25 | 6.25 | 2.5 | 29.8 | A | 140A17 | 1.5 | 16.0 |
| 18 | 140B18 | 10.980 | B | 1.5 | 4.25 | 6.25 | 2.5 | 32.0 | A | 140A18 | 1.5 | 18.0 |
| 19 | 140B19 | 11.540 | B | 1.5 | 4.25 | 6.25 | 2.5 | 34.1 | A | 140A19 | 1.5 | 21.0 |
| 20 | 140B20 | 12.100 | B | 1.5 | 4.25 | 6.25 | 2.5 | 36.0 | A | 140A20 | 1.5 | 23.0 |
| 21 | 140B21 | 12.660 | B | 1.5 | 4.25 | 6.25 | 2.5 | 38.7 | A | 140A21 | 1.5 | 25.0 |
| 22 | 140B22 | 13.220 | B | 1.5 | 4.25 | 6.25 | 2.5 | 40.6 | A | 140A22 | 1.5 | 28.0 |
| 23 | 140B23 | 13.780 | B | 1.5 | 4.25 | 6.25 | 2.5 | 42.1 | A | 140A23 | 1.5 | 30.0 |
| 24 | 140B24 | 14.340 | B | 1.5 | 4.25 | 6.25 | 2.5 | 46.2 | A | 140A24 | 1.5 | 33.0 |
| 25 | 140B25 | 14.900 | B | 1.5 | 4.25 | 6.25 | 2.5 | 47.8 | A | 140A25 | 1.5 | 34.0 |
| 26 | 140B26 | 15.460 | B | 1.5 | 4.25 | 6.25 | 3 | 57.2 | A | 140A26 | 1.5 | 39.0 |
| 27 | 140B27 | 16.020 | B | 1.5 | 4.25 | 6.25 | 3 | 58.5 | A | 140A27 | 1.5 | 41.0 |
| 28 | 140B28 | 16.580 | B | 1.5 | 4.25 | 6.25 | 3 | 62.2 | A | 140A28 | 1.5 | 45.0 |
| 30 | 140B30 | 17.700 | B | 1.5 | 4.25 | 6.25 | 3 | 69.8 | A | 140A30 | 1.5 | 52.0 |
| 31 | – | 18.260 | – | – | – | – | – | – | A | 140A31 | 1.5 | 56.0 |
| 32 | 140B32 | 18.820 | B | 1.5 | 4.25 | 6.25 | 3 | 76.3 | A | 140A32 | 1.5 | 60.0 |
| 35 | 140C35 | 20.490 | C | 1.5 | 5.25 | 7 | 4 | 108.0 | A | 140A35 | 1.5 | 73.0 |
| 36 | – | 21.050 | – | – | – | – | – | – | A | 140A36 | 1.5 | 77.0 |
| 40 | 140C40 | 23.290 | C | 1.5 | 5.25 | 7 | 4 | 121.0 | A | 140A40 | 1.5 | 93.0 |
| 45 | 140C45 | 26.080 | C | 1.5 | 5.25 | 7 | 4 | 142.0 | A | 140A45 | 1.5 | 131.0 |
| 48 | 140C48 | 27.750 | C | 1.5 | 5.25 | 7 | 4 | 150.0 | A | 140A48 | 1.5 | 134.0 |
| 54 | 140C54 | 31.100 | C | 1.5 | 5.25 | 7 | 4 | 177.0 | A | 140A54 | 1.5 | 173.0 |
| 60 | 140C60 | 34.440 | C | 1.5 | 5.25 | 7 | 5 | 220.0 | A | 140A60 | 1.5 | 219.0 |
| 70 | 140C70 | 40.020 | C | 1.5 | 5.375 | 7.5 | 5 | 282.0 | A | 140A70 | 1.5 | 292.0 |
| 80 | 140C80 | 45.590 | C | 1.5 | 5.375 | 7.5 | 5 | 331.0 | A | 140A80 | 1.5 | 402.0 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.




Type B




Type C

**Alteration Charges**

See current discount sheet for alteration charges.

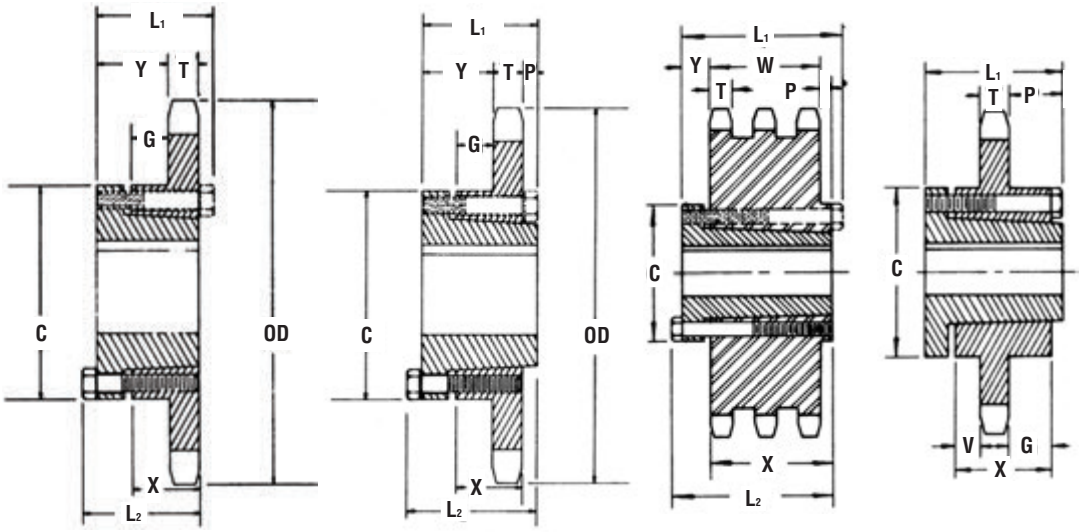
# All Steel Stock Sprockets

# No. 140 1¾" Pitch

## Single - Type QD With Hardened Teeth

| No. Teeth | Catalog Number |
|---|---|
| 11 | 140SF11H |
| 12 | 140SF12H |
| 13 | 140SF13H |
| 14 | 140E14H |
| 15 | 140E15H |
| 16 | 140E16H |
| 17 | 140E17H |
| 18 | 140E18H |
| 19 | 140E19H |
| 20 | 140E20H |
| 21 | 140E21H |
| 22 | 140E22H |
| 23 | 140F23H |
| 24 | 140F24H |
| 25 | 140F25H |
| 26 | 140F26H |
| 30 | 140F30H |

SABER TOOTH




QD — Type B  QD — Type B1  QD — Type C  QD — Type C1

## Single - Type QD

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | G | V | X | T | With Hub | Rim Only |
| 11 | 140SF11 | SF | 7.010 | 6.212 | B | 2.9375 | 2.25 | 2.25 | 4.625 | .2344 | – | .3281 | – | 1.25 | 0.924 | 8.6 | 5.6 |
| 12 | 140SF12 | SF | 7.580 | 6.762 | B | 2.9375 | 2.25 | 2.25 | 4.625 | .2344 | – | .3281 | – | 1.25 | 0.924 | 10.4 | 7.4 |
| 13 | 140SF13 | SF | 8.150 | 7.313 | B | 2.9375 | 2.25 | 2.25 | 4.625 | .2344 | – | .3281 | – | 1.25 | 0.924 | 11.9 | 8.9 |
| 14 | 140E14 | E | 8.720 | 7.864 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.2813 | .125 | .7031 | – | 1.625 | 0.924 | 21.6 | 11.6 |
| 15 | 140E15 | E | 9.280 | 8.417 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.2813 | .125 | .7031 | – | 1.625 | 0.924 | 24.2 | 14.2 |
| 16 | 140E16 | E | 9.850 | 8.970 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.2813 | .125 | .7031 | – | 1.625 | 0.924 | 25.9 | 15.9 |
| 17 | 140E17 | E | 10.410 | 9.524 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.2813 | .125 | .7031 | – | 1.625 | 0.924 | 28.0 | 18.0 |
| 18 | 140E18 | E | 10.980 | 10.078 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.2813 | .125 | .7031 | – | 1.625 | 0.924 | 29.6 | 19.6 |
| 19 | 140E19 | E | 11.540 | 10.632 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.2813 | .125 | .7031 | – | 1.625 | 0.924 | 32.0 | 22.0 |
| 20 | 140E20 | E | 12.100 | 11.187 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.2813 | .125 | .7031 | – | 1.625 | 0.924 | 34.6 | 24.6 |
| 21 | 140E21 | E | 12.660 | 11.742 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.2813 | .125 | .7031 | – | 1.625 | 0.924 | 37.6 | 27.6 |
| 22 | 140E22 | E | 13.220 | 12.297 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.2813 | .125 | .7031 | – | 1.625 | 0.924 | 39.5 | 29.5 |
| 23 | 140F23 | F | 13.780 | 12.852 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.2813 | .125 | 1.5781 | – | 2.5 | 0.924 | 48.0 | 36.4 |
| 24 | 140F24 | F | 14.340 | 13.407 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.2813 | .125 | 1.5781 | – | 2.5 | 0.924 | 51.6 | 40.1 |
| 25 | 140F25 | F | 14.900 | 13.963 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.2813 | .125 | 1.5781 | – | 2.5 | 0.924 | 53.8 | 42.3 |
| 26 | 140F26 | F | 15.460 | 14.518 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.2813 | .125 | 1.5781 | – | 2.5 | 0.924 | 58.0 | 46.5 |
| 30 | 140F30 | F | 17.700 | 16.742 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.2813 | .125 | 1.5781 | – | 2.5 | 0.924 | 72.0 | 60.4 |
| 35 | 140F35 | F | 20.490 | 19.523 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 1.3438 | 1.5781 | – | 2.5 | 0.924 | 89.5 | 78.0 |
| 36 | 140F36 | F | 21.050 | 20.079 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 1.3438 | 1.5781 | – | 2.5 | 0.924 | 95.5 | 84.0 |
| 40 | 140J40 | J | 23.290 | 22.305 | C | 4.2188 | 4.5 | 5 | 7.25 | 1.0938 | 2.375 | 2.2656 | – | 3.1875 | 0.924 | 117.0 | 98.0 |
| 45 | 140J45 | J | 26.080 | 25.087 | C | 4.2188 | 4.5 | 5 | 7.25 | 1.0938 | 2.375 | 2.2656 | – | 3.1875 | 0.924 | 139.0 | 120.0 |
| 48 | 140J48 | J | 27.750 | 26.757 | C | 4.2188 | 4.5 | 5 | 7.25 | 1.0938 | 2.375 | 2.2656 | – | 3.1875 | 0.924 | 148.0 | 129.0 |
| 54 | 140J54 | J | 31.100 | 30.097 | C | 4.2188 | 4.5 | 5 | 7.25 | 1.0938 | 2.375 | 2.2656 | – | 3.1875 | 0.924 | 168.0 | 149.0 |
| 60 | 140J60 | J | 34.440 | 33.438 | C | 4.2188 | 4.5 | 5 | 7.25 | 1.0938 | 2.375 | 2.2656 | – | 3.1875 | 0.924 | 205.0 | 186.0 |
| 70 | 140M70 | M | 40.020 | 39.006 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.9063 | 2.9063 | 2.513 | 1.2031 | 5.1875 | 0.924 | 301.0 | 264.0 |
| 80 | 140M80 | M | 45.590 | 44.575 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.9063 | 2.9063 | 2.513 | 1.2031 | 5.1875 | 0.924 | 385.0 | 348.0 |

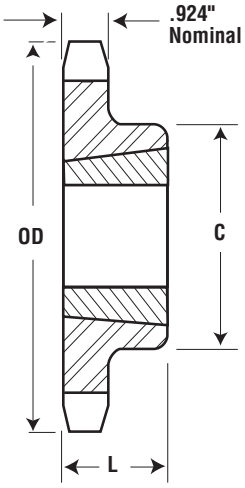
# No. 140
# 1¾" Pitch

# All Steel Stock Sprockets

## Single - Taper Bushed with Hardened Teeth

| No. Teeth | Catalog Number |
|---|---|
| 12 | 140BTB12H |
| 13 | 140BTB13H |
| 14 | 140BTB14H |
| 15 | 140BTB15H |
| 16 | 140BTB16H |
| 17 | 140BTB17H |
| 18 | 140BTB18H |
| 19 | 140BTB19H |
| 21 | 140BTB21H |
| 26 | 140BTB26H |

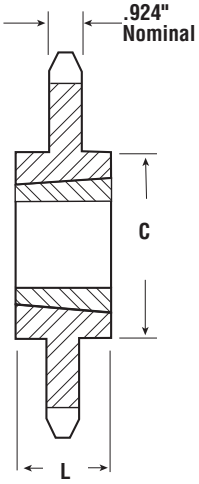
SABER TOOTH



Type B

## Single - Taper Bushed

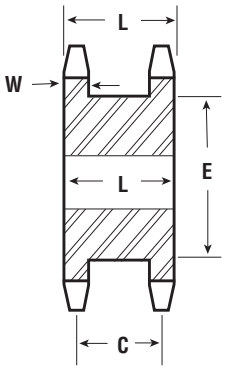
| No. Teeth | Catalog Number | Bushing | Diameter | | Max. Bore | Dimensions | | Type | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | L | C | | Rim Only | Bushing Only |
| 12 | 140BTB12 | 2517 | 7.581 | 6.762 | 2.5 | 1.75 | 4.25 | B | 7.0 | 3.5 |
| 13 | 140BTB13 | 3020 | 8.150 | 7.313 | 3 | 2 | 5.25 | B | 8.0 | 6.5 |
| 14 | 140BTB14 | 3020 | 8.718 | 7.864 | 3 | 2 | 5.25 | B | 10.0 | 6.5 |
| 15 | 140BTB15 | 3020 | 9.283 | 8.417 | 3 | 2 | 5.25 | B | 12.0 | 6.5 |
| 16 | 140BTB16 | 3020 | 9.848 | 8.970 | 3 | 2 | 5.25 | B | 14.0 | 6.5 |
| 17 | 140BTB17 | 3020 | 10.411 | 9.524 | 3 | 2 | 5.25 | B | 16.0 | 6.5 |
| 18 | 140BTB18 | 3020 | 10.975 | 10.078 | 3 | 2 | 5.25 | B | 18.0 | 6.5 |
| 19 | 140BTB19 | 3020 | 11.537 | 10.632 | 3 | 2 | 5.25 | B | 20.0 | 6.5 |
| 21 | 140BTB21 | 3020 | 12.660 | 11.742 | 3 | 2 | 5.25 | B | 24.0 | 6.5 |
| 26 | 140BTB26 | 3020 | 15.463 | 14.518 | 3 | 2 | 5.25 | B | 40.0 | 6.5 |
| 35 | 140CTB35 | 3535 | 20.494 | 19.523 | 3.5 | 3.5 | 6.5 | C | 78.0 | 14.0 |
| 45 | 140CTB45 | 4040 | 26.076 | 25.087 | 4 | 4 | 7.75 | C | 118.0 | 22.0 |
| 60 | 140CTB60 | 4040 | 34.442 | 33.438 | 4 | 4 | 7.75 | C | 188.0 | 22.0 |
| 70 | 140CTB70 | 4040 | 40.017 | 39.006 | 4 | 4 | 7.75 | C | 241.0 | 22.0 |



Type C

## Double Single - Type A — Steel

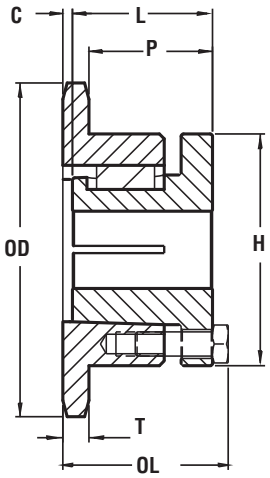
| No. Teeth | Catalog Number | Diameter | | Type | Min. Bore | Max. Bore | Dimensions | | | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OD | PD | | | | L | C | E | W (Nom.) | |
| 14 | DS140A14 | 8.720 | 7.864 | A | 1.4375 | 3.875 | 3.6094 | 2.6875 | 5.875 | 0.924 | 35.0 |
| 15 | DS140A15 | 9.280 | 8.417 | A | 1.4375 | 4.4375 | 3.6094 | 2.6875 | 6.4531 | 0.924 | 43.0 |
| 16 | DS140A16 | 9.850 | 8.970 | A | 1.4375 | 5.25 | 3.6094 | 2.6875 | 7.0156 | 0.924 | 49.0 |
| 17 | DS140A17 | 10.410 | 9.524 | A | 1.4375 | 5.5625 | 3.6094 | 2.6875 | 7.5781 | 0.924 | 58.0 |
| 18 | DS140A18 | 10.980 | 10.078 | A | 1.4375 | 6.125 | 3.6094 | 2.6875 | 8.1406 | 0.924 | 66.0 |



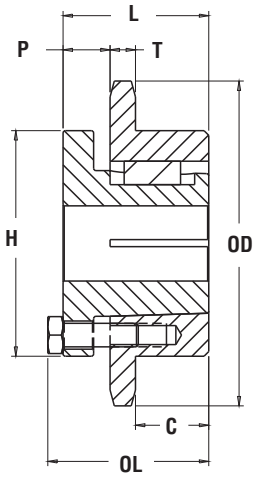
Type A

# MST® Sprockets

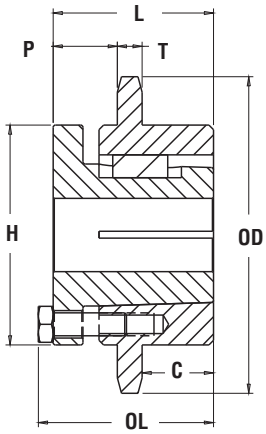
# No. 140
## 1¾" Pitch




Type 4




Type 5




Type 6

## Single - MST® Sprockets

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 11 | 140Q11H | Q1 | 7.010 | 6.212 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.5625 | 0.924 | 9.9 | 6.4 |
| 12 | 140Q12H | Q1 | 7.580 | 6.762 | 4 | 2.6875 | 2.7813 | 2.5 | – | 4.125 | 1.5625 | 0.924 | 12.5 | 9.0 |
| 13 | 140R13H | R1 | 8.150 | 7.313 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 18.6 | 11.1 |
| 14 | 140R14H | R1 | 8.720 | 7.864 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 20.1 | 12.6 |
| 15 | 140R15H | R1 | 9.280 | 8.417 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.0625 | 0.924 | 22.2 | 14.7 |
| 16 | 140R16H | R1 | 9.850 | 8.970 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.0625 | 0.924 | 24.0 | 16.5 |
| 17 | 140R17H | R1 | 10.410 | 9.524 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 26.0 | 18.5 |
| 18 | 140R18H | R1 | 10.980 | 10.078 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 28.0 | 20.5 |
| 19 | 140R19H | R1 | 11.540 | 10.632 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 30.5 | 23.0 |
| 20 | 140R20H | R1 | 12.100 | 11.187 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 32.9 | 25.4 |
| 21 | 140R21H | R1 | 12.660 | 11.742 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.9375 | 0.924 | 35.3 | 27.8 |
| 22 | 140R22H | R1 | 13.220 | 12.297 | 5 | 3.75 | 3.1563 | 2.875 | 1.0625 | 5.375 | .875 | 0.924 | 40.0 | 32.5 |
| 23 | 140R23H | R1 | 13.780 | 12.852 | 5 | 3.75 | 3.1563 | 2.875 | 1.0625 | 5.375 | .875 | 0.924 | 43.5 | 36.0 |
| 24 | 140R24H | R1 | 14.340 | 13.407 | 5 | 3.75 | 3.1563 | 2.875 | 1.0625 | 5.375 | .875 | 0.924 | 45.1 | 37.6 |
| 25 | 140R25H | R1 | 14.900 | 13.963 | 5 | 3.75 | 3.1563 | 2.875 | 1.0625 | 5.375 | .875 | 0.924 | 47.8 | 40.3 |
| 26 | 140R26H | R1 | 15.460 | 14.518 | 5 | 3.75 | 3.1563 | 2.875 | 1.0625 | 5.375 | .875 | 0.924 | 51.5 | 44.0 |
| 30 | 140R30H | R2 | 17.700 | 16.742 | 5 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | .875 | 0.924 | 79.0 | 68.0 |
| 35 | 140R35 | R2 | 20.490 | 19.523 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | .875 | 0.924 | 99.0 | 88.0 |
| 36 | 140R36 | R2 | 21.050 | 20.079 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | .875 | 0.924 | 101.0 | 90.0 |
| 36 | 140S36 | S1 | 21.050 | 20.079 | 5 | 4.25 | 4.75 | 4.375 | 2.375 | 6.375 | 1.0625 | 0.924 | 102.5 | 89.0 |
| 40 | 140R40 | R2 | 23.290 | 22.305 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | .875 | 0.924 | 120.0 | 109.0 |
| 40 | 140S40 | S1 | 23.290 | 22.305 | 5 | 4.25 | 4.75 | 4.375 | 2.375 | 6.375 | 1.0625 | 0.924 | 120.5 | 107.0 |
| 45 | 140S45 | S1 | 26.080 | 25.087 | 5 | 4.25 | 4.75 | 4.375 | 2.375 | 6.375 | 1.0625 | 0.924 | 145.5 | 132.0 |
| 48 | 140S48 | S2 | 27.750 | 26.757 | 6 | 4.1875 | 7.5 | 6.75 | 2.875 | 6.375 | 2.9375 | 0.924 | 188.0 | 169.0 |
| 54 | 140S54 | S2 | 31.100 | 30.097 | 6 | 4.1875 | 7.5 | 6.75 | 2.875 | 6.375 | 2.9375 | 0.924 | 227.0 | 208.0 |
| 60 | 140S60 | S2 | 34.440 | 33.438 | 6 | 4.1875 | 7.5 | 6.75 | 2.875 | 6.375 | 2.9375 | 0.924 | 249.0 | 230.0 |
| 70 | 140S70 | S2 | 40.020 | 39.006 | 6 | 4.1875 | 7.5 | 6.75 | 2.875 | 6.375 | 2.9375 | 0.924 | 330.0 | 311.0 |
| 80 | 140S80 | S2 | 45.590 | 44.575 | 6 | 4.1875 | 7.5 | 6.75 | 2.875 | 6.375 | 2.9375 | 0.924 | 261.0 | 242.0 |

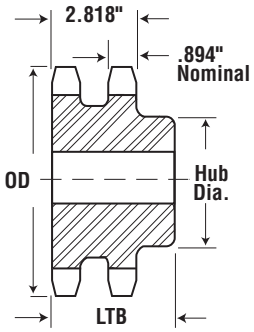
Sprockets with "H" suffix have hardened teeth.

# No. 140-2
## 1¾" Pitch

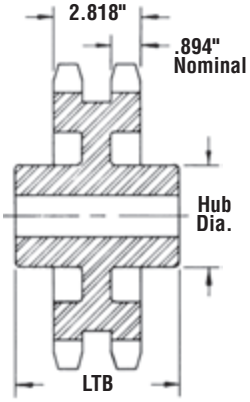
# All Steel Stock Sprockets

**Alteration Charges**

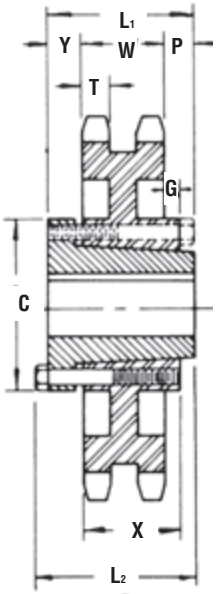
See current discount sheet for alteration charges.



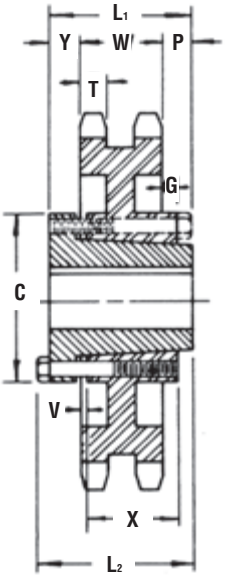

Type B




Type C




QD - Type C5




QD - Type C6

## Double - Type B & C

| No. Teeth | Catalog Number | OD | Type | Bore (Inches) | | Hub (Inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | LTB | |
| 13 | D140B13 | 8.150 | B | 1.625 | 3.3125 | 5 | 3.75 | 29.0 |
| 14 | D140B14 | 8.720 | B | 1.625 | 3.75 | 5.5 | 3.75 | 34.8 |
| 15 | D140B15 | 9.280 | B | 1.625 | 4.5 | 6.5 | 3.75 | 42.5 |
| 16 | D140B16 | 9.850 | B | 1.625 | 5.25 | 7 | 4 | 48.1 |
| 17 | D140B17 | 10.410 | B | 1.625 | 5.25 | 7 | 4 | 57.5 |
| 18 | D140B18 | 10.980 | B | 1.75 | 5.25 | 7 | 4 | 65.6 |
| 19 | D140B19 | 11.540 | B | 1.75 | 5.25 | 7 | 4 | 72.0 |
| 20 | D140B20 | 12.100 | B | 1.75 | 5.25 | 7 | 4 | 76.0 |
| 21 | D140B21 | 12.660 | B | 1.75 | 5.25 | 7 | 4 | 82.0 |
| 22 | D140B22 | 13.220 | B | 1.75 | 5.25 | 7 | 4 | 94.0 |
| 23 | D140B23 | 13.780 | B | 1.75 | 5.25 | 7 | 4 | 100.0 |
| 24 | D140B24 | 14.340 | B | 1.75 | 5.25 | 7 | 4 | 104.0 |
| 25 | D140B25 | 14.900 | B | 1.75 | 5.25 | 7 | 4 | 120.0 |
| 26 | D140B26 | 15.460 | B | 1.75 | 5.25 | 7 | 4 | 128.0 |
| 35 | D140C35 | 20.490 | C | 1.5 | 5.375 | 7.5 | 6 | 180.0 |
| 45 | D140C45 | 26.080 | C | 1.5 | 5.375 | 7.5 | 6 | 232.0 |
| 60 | D140C60 | 34.440 | C | 1.5 | 6.375 | 9.5 | 6.25 | 372.0 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

## Double - Type QD

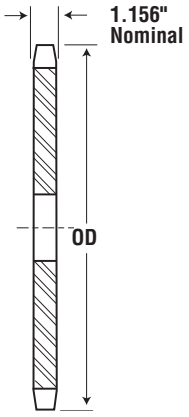
| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | G | V | X | T | W | With Hub | Rim Only |
| 35 | D140J35 | J | 20.490 | 19.523 | C5 | 4.4375 | 4.5 | 5 | 7.25 | .9688 | .7188 | .5938 | .2188 | 3.1875 | 0.894 | 2.818 | 137 | 128 |
| 45 | D140J45 | J | 26.080 | 25.087 | C5 | 4.4375 | 4.5 | 5 | 7.25 | .9688 | .7188 | .5938 | .2188 | 3.1875 | 0.894 | 2.818 | 195 | 176 |
| 60 | D140M60 | M | 34.440 | 33.438 | C6 | 5.5 | 6.75 | 6.75 | 9 | 2.2188 | 1.7188 | 1.5938 | .7813 | 5.1875 | 0.894 | 2.818 | 339 | 302 |

# All Steel Stock Sprockets

# No. 160 2" Pitch

**Alteration Charges**

See current discount sheet for alteration charges.

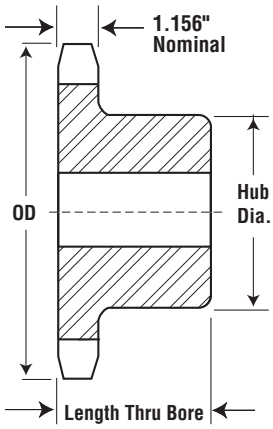



Type A

## Single - Type B & C

## Single - Type A

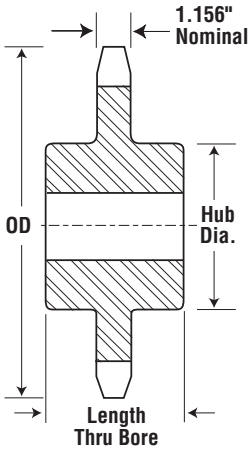
| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 8 | 160B8 | 6.030 | B | 1.5 | 1.875 | 3.25 | 2.25 | 8.0 | A | 160A8 | 1.5 | 5.0 |
| 9 | 160B9 | 6.700 | B | 1.5 | 2.125 | 3.625 | 2.25 | 10.0 | A | 160A9 | 1.5 | 7.0 |
| 10 | 160B10 | 7.360 | B | 1.5 | 2.75 | 4.125 | 2.25 | 12.0 | A | 160A10 | 1.5 | 8.0 |
| 11 | 160B11 | 8.010 | B | 1.5 | 3.25 | 4.75 | 2.5 | 17.0 | A | 160A11 | 1.5 | 10.0 |
| 12 | 160B12 | 8.660 | B | 1.5 | 3.75 | 5.5 | 2.5 | 21.0 | A | 160A12 | 1.5 | 12.0 |
| 13 | 160B13 | 9.310 | B | 1.5 | 4 | 6 | 2.75 | 28.0 | A | 160A13 | 1.5 | 16.0 |
| 14 | 160B14 | 9.960 | B | 1.5 | 4.5 | 6.5 | 2.75 | 32.0 | A | 160A14 | 1.5 | 17.0 |
| 15 | 160B15 | 10.610 | B | 1.5 | 5.25 | 7 | 2.75 | 37.0 | A | 160A15 | 1.5 | 21.0 |
| 16 | 160B16 | 11.260 | B | 1.5 | 5.25 | 7 | 2.75 | 41.0 | A | 160A16 | 1.5 | 24.0 |
| 17 | 160B17 | 11.900 | B | 1.5 | 5.25 | 7 | 2.75 | 45.0 | A | 160A17 | 1.5 | 27.0 |
| 18 | 160B18 | 12.540 | B | 1.5 | 5.25 | 7 | 2.75 | 48.0 | A | 160A18 | 1.5 | 30.0 |
| 19 | 160B19 | 13.190 | B | 1.5 | 5.25 | 7 | 2.75 | 52.0 | A | 160A19 | 1.5 | 34.0 |
| 20 | 160B20 | 13.830 | B | 1.5 | 5.25 | 7 | 2.75 | 56.0 | A | 160A20 | 1.5 | 38.0 |
| 21 | 160B21 | 14.470 | B | 1.5 | 5.25 | 7 | 2.75 | 59.0 | A | 160A21 | 1.5 | 42.0 |
| 22 | 160B22 | 15.110 | B | 1.5 | 5.25 | 7 | 2.75 | 65.0 | A | 160A22 | 1.5 | 46.0 |
| 23 | 160B23 | 15.750 | B | 1.5 | 5.25 | 7 | 2.75 | 68.0 | A | 160A23 | 1.5 | 50.0 |
| 24 | 160B24 | 16.390 | B | 1.5 | 5.25 | 7 | 3 | 77.0 | A | 160A24 | 1.5 | 56.0 |
| 25 | 160B25 | 17.030 | B | 1.5 | 5.25 | 7 | 3 | 81.0 | A | 160A25 | 1.5 | 61.0 |
| 26 | 160B26 | 17.670 | B | 1.5 | 5.25 | 7 | 3 | 86.0 | A | 160A26 | 1.5 | 65.0 |
| 27 | 160B27 | 18.310 | B | 1.5 | 5.25 | 7 | 3 | 91.0 | A | 160A27 | 1.5 | 71.0 |
| 28 | 160B28 | 18.950 | B | 1.5 | 5.25 | 7 | 3 | 98.0 | A | 160A28 | 1.5 | 77.0 |
| 30 | 160B30 | 20.230 | B | 1.5 | 5.25 | 7 | 3 | 108.0 | A | 160A30 | 1.5 | 90.0 |
| 35 | 160C35 | 23.420 | C | 1.5 | 5.5 | 8 | 4.5 | 154.0 | A | 160A35 | 1.5 | 121.0 |
| 40 | 160C40 | 26.610 | C | 1.5 | 5.5 | 8 | 4.5 | 196.0 | A | 160A40 | 1.5 | 138.0 |
| 45 | 160C45 | 29.800 | C | 1.5 | 5.5 | 8 | 5 | 234.0 | A | 160A45 | 1.5 | 204.0 |
| 54 | 160C54 | 35.540 | C | 1.5 | 5.5 | 8 | 5 | 276.0 | A | 160A54 | 1.5 | 294.0 |
| 60 | 160C60 | 39.360 | C | 1.5 | 5.5 | 8 | 5 | 329.0 | A | 160A60 | 1.5 | 366.0 |
| 70 | 160C70 | 45.730 | C | 1.5 | 5.5 | 8 | 5 | 446.0 | A | 160A70 | 1.5 | 507.0 |
| 80 | 160C80 | 52.100 | C | 1.5 | 5.5 | 8 | 6 | 612.0 | A | 160A80 | 1.5 | 656.0 |




Type B

## Single - Type C — Steel 2" Pitch

| No. Teeth | Catalog Number | OD | Bore (inches) | | Hub (inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|
| | | | Stock | Rec. Max. | Diameter | Length | |
| 11 | 160C11 | 8.010 | 1.5 | 3.25 | 4.5 | 4.125 | 21.0 |
| 12 | 160C12 | 8.660 | 1.5 | 3.75 | 5.5 | 4.125 | 26.0 |




Type C

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

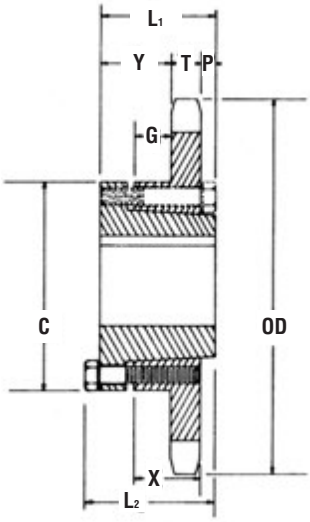
# No. 160
## 2" Pitch

# All Steel Stock Sprockets

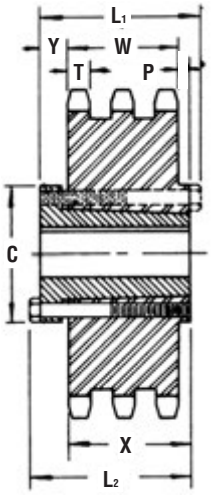
## Single - Type QD With Hardened Teeth

| No. Teeth | Catalog Number |
|---|---|
| 12 | 160E12H |
| 13 | 160E13H |
| 14 | 160E14H |
| 15 | 160F15H |
| 16 | 160F16H |
| 17 | 160F17H |
| 18 | 160F18H |
| 19 | 160F19H |
| 20 | 160F20H |
| 21 | 160F21H |
| 22 | 160F22H |
| 23 | 160F23H |
| 24 | 160F24H |
| 25 | 160F25H |
| 26 | 160J26H |
| 28 | 160J28H |
| 30 | 160J30H |

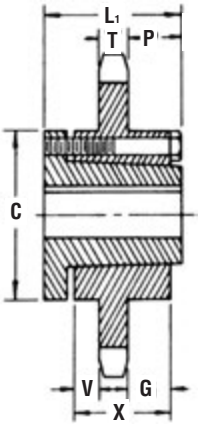
SABER TOOTH



QD — Type B1



QD — Type C



QD — Type C1

## Single - Type QD

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | G | V | X | T | With Hub | Rim Only |
| 12 | 160E12 | E | 8.660 | 7.727 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.3125 | .125 | .4688 | – | 1.625 | 1.156 | 21.0 | 11.0 |
| 13 | 160E13 | E | 9.310 | 8.357 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.3125 | .125 | .4688 | – | 1.625 | 1.156 | 24.0 | 14.0 |
| 14 | 160E14 | E | 9.960 | 8.988 | B1 | 3.5 | 2.625 | 2.9375 | 6 | 1.3125 | .125 | .4688 | – | 1.625 | 1.156 | 26.0 | 16.0 |
| 15 | 160F15 | F | 10.610 | 9.620 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.3125 | .125 | 1.3438 | – | 2.5 | 1.156 | 35.5 | 24.0 |
| 16 | 160F16 | F | 11.260 | 10.252 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.3125 | .125 | 1.3438 | – | 2.5 | 1.156 | 38.5 | 27.0 |
| 17 | 160F17 | F | 11.900 | 10.885 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.3125 | .125 | 1.3438 | – | 2.5 | 1.156 | 42.5 | 31.0 |
| 18 | 160F18 | F | 12.540 | 11.518 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.3125 | .125 | 1.3438 | – | 2.5 | 1.156 | 46.5 | 35.0 |
| 19 | 160F19 | F | 13.190 | 12.151 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.3125 | .125 | 1.3438 | – | 2.5 | 1.156 | 49.5 | 38.0 |
| 20 | 160F20 | F | 13.830 | 12.785 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.3125 | .125 | 1.3438 | – | 2.5 | 1.156 | 53.5 | 42.0 |
| 21 | 160F21 | F | 14.740 | 13.419 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.3125 | .125 | 1.3438 | – | 2.5 | 1.156 | 56.5 | 45.0 |
| 22 | 160F22 | F | 15.110 | 14.053 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.3125 | .125 | 1.3438 | – | 2.5 | 1.156 | 62.5 | 51.0 |
| 23 | 160F23 | F | 15.750 | 14.688 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.3125 | .125 | 1.3438 | – | 2.5 | 1.156 | 66.5 | 55.0 |
| 24 | 160F24 | F | 16.390 | 15.323 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.3125 | .125 | 1.3438 | – | 2.5 | 1.156 | 70.5 | 59.0 |
| 25 | 160F25 | F | 17.030 | 15.958 | B1 | 3.9375 | 3.625 | 4 | 6.625 | 2.3125 | .125 | 1.3438 | – | 2.5 | 1.156 | 75.5 | 64.0 |
| 26 | 160J26 | J | 17.670 | 16.593 | C | 4.4375 | 4.5 | 5 | 7.25 | 1.1875 | 2.125 | 2.0313 | – | 3.1875 | 1.156 | 92.5 | 74.0 |
| 28 | 160J28 | J | 18.950 | 17.863 | C | 4.4375 | 4.5 | 5 | 7.25 | 1.1875 | 2.125 | 2.0313 | – | 3.1875 | 1.156 | 103.0 | 84.0 |
| 30 | 160J30 | J | 20.230 | 19.134 | C | 4.4375 | 4.5 | 5 | 7.25 | 1.1875 | 2.125 | 2.0313 | – | 3.1875 | 1.156 | 115.0 | 96.0 |
| 35 | 160J35 | J | 23.420 | 22.312 | C | 4.4375 | 4.5 | 5 | 7.25 | 1.1875 | 2.125 | 2.0313 | – | 3.1875 | 1.156 | 135.0 | 116.0 |
| 40 | 160M40 | M | 26.610 | 25.491 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.6875 | 2.6875 | 2.4063 | 1.5938 | 5.1875 | 1.156 | 21.0 | 174.0 |
| 45 | 160M45 | M | 29.800 | 28.671 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.6875 | 2.6875 | 2.4063 | 1.5938 | 5.1875 | 1.156 | 245.0 | 208.0 |
| 54 | 160M54 | M | 35.540 | 34.397 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.6875 | 2.6875 | 2.4063 | 1.5938 | 5.1875 | 1.156 | 299.0 | 262.0 |
| 60 | 160M60 | M | 39.360 | 38.215 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.6875 | 2.6875 | 2.4063 | 1.5938 | 5.1875 | 1.156 | 347.0 | 310.0 |
| 70 | 160M70 | M | 45.730 | 44.578 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.6875 | 2.6875 | 2.4063 | 1.5938 | 5.1875 | 1.156 | 468.0 | 431.0 |
| 80 | 160M80 | M | 52.100 | 50.943 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.6875 | 2.6875 | 2.4063 | 1.5938 | 5.1875 | 1.156 | 567.0 | 530.0 |

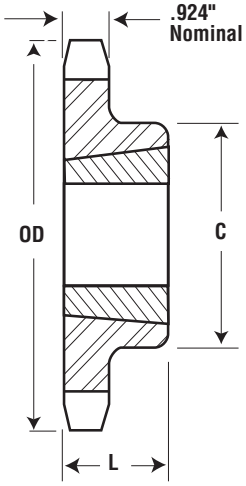
# All Steel Stock Sprockets

# No. 160 2" Pitch

## Single - Taper Bushed with Hardened Teeth

| No. Teeth | Catalog Number |
|---|---|
| 11 | 160BTB11H |
| 12 | 160BTB12H |
| 13 | 160BTB13H |
| 14 | 160BTB14H |
| 15 | 160BTB15H |
| 16 | 160BTB16H |
| 17 | 160BTB17H |
| 18 | 160BTB18H |
| 19 | 160BTB19H |
| 21 | 160BTB21H |
| 26 | 160BTB26H |

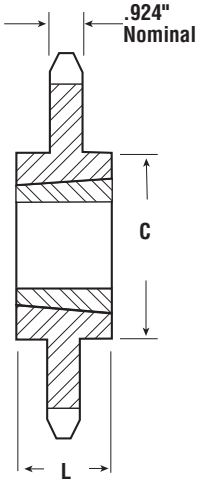
SABER TOOTH




Type B

## Single - Taper Bushed

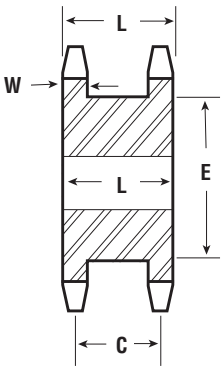
| No. Teeth | Catalog Number | Bushing | Diameter | | Max. Bore | Dimensions | | Type | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | L | C | | Rim Only | Bushing Only |
| 11 | 160BTB11 | 2517 | 8.011 | 7.099 | 2.5 | 1.75 | 4.25 | B | 9.0 | 3.5 |
| 12 | 160BTB12 | 3020 | 8.664 | 7.727 | 3 | 2 | 5.25 | B | 11.0 | 6.5 |
| 13 | 160BTB13 | 3020 | 9.314 | 8.357 | 3 | 2 | 5.25 | B | 13.0 | 6.5 |
| 14 | 160BTB14 | 3020 | 9.963 | 8.988 | 3 | 2 | 5.25 | B | 16.0 | 6.5 |
| 15 | 160BTB15 | 3535 | 10.609 | 9.620 | 3.5 | 3.5 | 6.5 | B | 25.0 | 14.0 |
| 16 | 160BTB16 | 3535 | 11.255 | 10.252 | 3.5 | 3.5 | 6.5 | B | 28.0 | 14.0 |
| 17 | 160BTB17 | 3535 | 11.899 | 10.885 | 3.5 | 3.5 | 6.5 | B | 32.0 | 14.0 |
| 18 | 160BTB18 | 3535 | 12.543 | 11.518 | 3.5 | 3.5 | 6.5 | B | 35.0 | 14.0 |
| 19 | 160BTB19 | 3535 | 13.185 | 12.151 | 3.5 | 3.5 | 6.5 | B | 39.0 | 14.0 |
| 21 | 160BTB21 | 3535 | 14.470 | 13.419 | 3.5 | 3.5 | 6.5 | B | 48.0 | 14.0 |
| 26 | 160BTB26 | 3535 | 17.671 | 16.593 | 3.5 | 3.5 | 6.5 | B | 68.0 | 14.0 |
| 35 | 160CTB35 | 4040 | 23.422 | 22.312 | 4 | 4 | 7.75 | C | 118.0 | 14.0 |
| 45 | 160CTB45 | 4040 | 29.802 | 28.671 | 4 | 4 | 7.75 | C | 186.0 | 22.0 |
| 60 | 160CTB60 | 4545 | 39.362 | 38.215 | 4.5 | 4.5 | 8.75 | C | 292.0 | 30.0 |




Type C

## Double Single - Type A — Steel

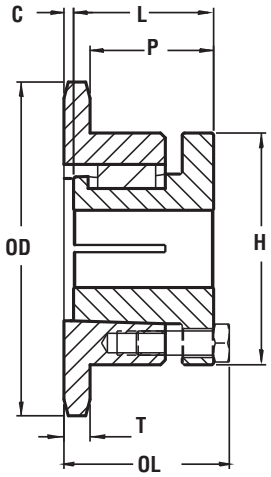
| No. Teeth | Catalog Number | Diameter | | Type | Min. Bore | Max. Bore | Dimensions | | | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OD | PD | | | | L | C | E | W (Nom.) | |
| 15 | DS160A15 | 10.609 | 9.620 | A | 1.6875 | 5.5 | 4.25 | 3.0938 | 7.375 | 1.156 | 69.0 |
| 16 | DS160A16 | 11.255 | 10.252 | A | 1.6875 | 6 | 4.25 | 3.0938 | 8.0156 | 1.156 | 75.0 |
| 17 | DS160A17 | 11.899 | 10.885 | A | 1.6875 | 6.5 | 4.25 | 3.0938 | 8.9688 | 1.156 | 92.0 |
| 18 | DS160A18 | 12.543 | 11.518 | A | 1.6875 | 6.8125 | 4.25 | 3.0938 | 9.3125 | 1.156 | 97.0 |



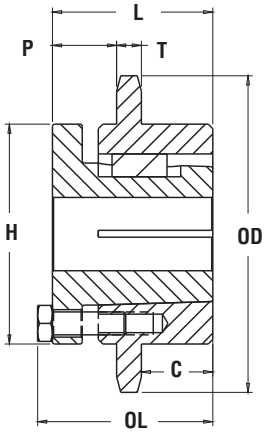

Type A

# No. 160
## 2" Pitch

# MST® Sprockets




Type 4




Type 6

## Single - MST® Sprockets

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 11 | 160R11H | R1 | 8.010 | 7.099 | 4 | 3.75 | 3.4063 | 2.875 | .25 | 5.375 | 1.9688 | 1.156 | 18.3 | 10.8 |
| 12 | 160R12H | R1 | 8.660 | 7.727 | 4 | 3.75 | 3.4063 | 2.875 | .25 | 5.375 | 1.9688 | 1.156 | 21.7 | 14.2 |
| 13 | 160R13H | R1 | 9.310 | 8.357 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.7188 | 1.156 | 23.0 | 15.5 |
| 14 | 160R14H | R1 | 9.960 | 8.988 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.7188 | 1.156 | 26.0 | 18.5 |
| 15 | 160R15H | R1 | 10.610 | 9.620 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.7188 | 1.156 | 29.1 | 21.6 |
| 16 | 160R16H | R1 | 11.260 | 10.252 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.7188 | 1.156 | 32.5 | 25.0 |
| 17 | 160R17H | R1 | 11.900 | 10.885 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.7188 | 1.156 | 35.5 | 28.0 |
| 18 | 160R18H | R1 | 12.540 | 11.518 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.7188 | 1.156 | 39.4 | 31.9 |
| 19 | 160R19H | R1 | 13.190 | 12.151 | 4 | 3.75 | 3.1563 | 2.875 | – | 5.375 | 1.7188 | 1.156 | 43.4 | 35.9 |
| 20 | 160R20H | R2 | 13.830 | 12.785 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.7188 | 1.156 | 62.0 | 51.0 |
| 21 | 160R21H | R2 | 14.470 | 13.419 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.7188 | 1.156 | 67.0 | 56.0 |
| 22 | 160R22H | R2 | 15.110 | 14.053 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.7188 | 1.156 | 71.0 | 60.0 |
| 23 | 160R23H | R2 | 15.750 | 14.688 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.7188 | 1.156 | 76.0 | 65.0 |
| 24 | 160R24H | R2 | 16.390 | 15.323 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.7188 | 1.156 | 82.5 | 71.5 |
| 25 | 160R25H | R2 | 17.030 | 15.958 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.7188 | 1.156 | 85.0 | 74.0 |
| 26 | 160R26H | R2 | 17.670 | 16.593 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.7188 | 1.156 | 90.0 | 79.0 |
| 26 | 160S26H | S2 | 17.670 | 16.593 | 6 | 4.1875 | 7.125 | 6.75 | 2.875 | 6.375 | 2.7188 | 1.156 | 98.0 | 79.0 |
| 28 | 160R28H | R2 | 18.950 | 17.863 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.7188 | 1.156 | 110.8 | 99.8 |
| 28 | 160S28H | S2 | 19.950 | 17.863 | 6 | 4.1875 | 7.125 | 6.75 | 2.875 | 6.375 | 2.7188 | 1.156 | 118.8 | 99.8 |
| 30 | 160R30H | R2 | 20.230 | 19.134 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.7188 | 1.156 | 117.0 | 106.0 |
| 30 | 160S30H | S2 | 20.230 | 19.134 | 6 | 4.1875 | 7.125 | 6.75 | 2.875 | 6.375 | 2.7188 | 1.156 | 134.0 | 115.0 |
| 35 | 160S35 | S2 | 23.420 | 22.312 | 6 | 4.1875 | 7.125 | 6.75 | 2.875 | 6.375 | 2.7188 | 1.156 | 169.0 | 150.0 |
| 40 | 160S40 | S2 | 26.610 | 25.491 | 6 | 4.1875 | 7.125 | 6.75 | 2.875 | 6.375 | 2.7188 | 1.156 | 184.0 | 165.0 |
| 45 | 160S45 | S2 | 29.800 | 28.671 | 6 | 4.1875 | 7.125 | 6.75 | 2.875 | 6.375 | 2.7188 | 1.156 | 223.0 | 204.0 |
| 60 | 160U60 | U0 | 39.360 | 38.215 | 6 | 5.5 | 5.7813 | 5.25 | 1.9375 | 8.375 | 1.6563 | 1.156 | 338.0 | 308.0 |
| 70 | 160U70 | U0 | 45.730 | 44.578 | 6 | 5.5 | 5.7813 | 5.25 | 1.9375 | 8.375 | 1.6563 | 1.156 | 384.0 | 354.0 |
| 80 | 160S80 | S2 | 52.100 | 50.943 | 6 | 4.1875 | 7.125 | 6.75 | 2.875 | 6.375 | 2.7188 | 1.156 | – | – |
| 80 | 160U80 | U1 | 52.100 | 50.943 | 6 | 5.5 | 7.5938 | 7.125 | 2.875 | 8.375 | 2.5938 | 1.156 | 434.0 | 394.0 |

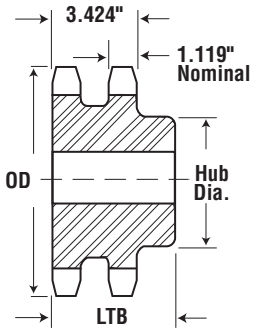
Sprockets with "H" suffix have hardened teeth.

# All Steel Stock Sprockets

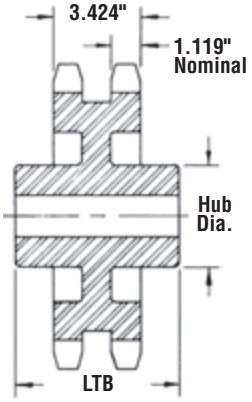
# No. 160-2
## 2" Pitch

**Alteration Charges**

See current discount sheet for alteration charges.




Type B

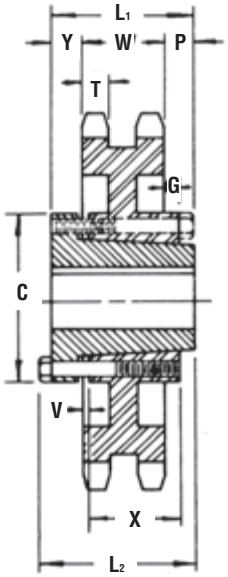



Type C

## Double - Type B & C

| No. Teeth | Catalog Number | OD | Type | Bore (Inches) | | Hub (Inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | LTB | |
| 13 | D160B13 | 9.310 | B | 2 | 4 | 6 | 4.75 | 48.0 |
| 14 | D160B14 | 9.960 | B | 2 | 4.75 | 6.75 | 4.75 | 58.0 |
| 15 | D160B15 | 10.610 | B | 2 | 5.25 | 7 | 4.75 | 68.0 |
| 16 | D160B16 | 11.260 | B | 2 | 5.25 | 7 | 4.75 | 75.0 |
| 17 | D160B17 | 11.900 | B | 2 | 5.25 | 7 | 4.75 | 91.0 |
| 18 | D160B18 | 12.540 | B | 2 | 5.25 | 7 | 4.75 | 96.0 |
| 19 | D160B19 | 13.190 | B | 2 | 5.25 | 7 | 4.75 | 107.0 |
| 20 | D160B20 | 13.830 | B | 2 | 5.25 | 7 | 4.75 | 119.0 |
| 21 | D160B21 | 14.470 | B | 2 | 5.375 | 7.5 | 4.75 | 130.0 |
| 22 | D160B22 | 15.110 | B | 2 | 5.375 | 7.5 | 4.75 | 141.0 |
| 23 | D160B23 | 15.750 | B | 2 | 5.375 | 7.5 | 4.75 | 157.0 |
| 24 | D160B24 | 16.390 | B | 2 | 5.375 | 7.5 | 4.75 | 171.0 |
| 25 | D160B25 | 17.030 | B | 2 | 5.375 | 7.5 | 4.75 | 187.0 |
| 26 | D160B26 | 17.670 | B | 2 | 5.375 | 7.5 | 4.75 | 201.0 |
| 35 | D160C35 | 23.420 | C | 1.5 | 6.75 | 9.5 | 6.625 | 306.0 |
| 45 | D160C45 | 29.800 | C | 1.5 | 7 | 10 | 7.125 | 431.0 |
| 60 | D160C60 | 39.360 | C | 1.5 | 7 | 10 | 7.125 | 564.0 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



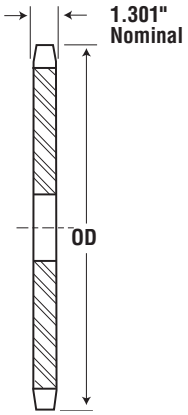

QD - Type C6

## Double - Type QD

| No. Teeth | Catalog Number | Bushing | Diameters | | Type | Max. Bore | Dimensions | | | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | G | V | X | T | W | With Hub | Rim Only |
| 35 | D160M35 | M | 23.420 | 22.312 | C6 | 5.5 | 6.75 | 6.75 | 9 | 2.0469 | 1.2813 | 1.1563 | .6094 | 5.1875 | 1.119 | 3.424 | 259.0 | 222.0 |
| 45 | D160N45 | N | 29.800 | 28.671 | C6 | 6 | 8.125 | 8.125 | 10 | 2.3738 | 2.3594 | 2.1563 | .3281 | 6.25 | 1.119 | 3.424 | 377.0 | 340.0 |
| 60 | D160N60 | N | 39.360 | 38.215 | C6 | 6 | 8.125 | 8.125 | 10 | 2.3738 | 2.3594 | 2.1563 | .3281 | 6.25 | 1.119 | 3.424 | 509.0 | 472.0 |

# No. 180
## 2¼" Pitch

# All Steel Stock Sprockets



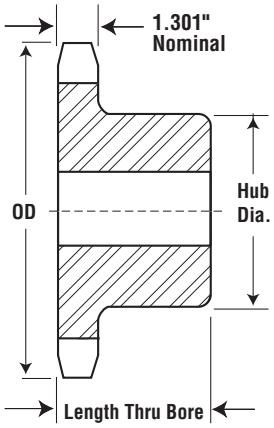

Type A

## Single - Type B & C

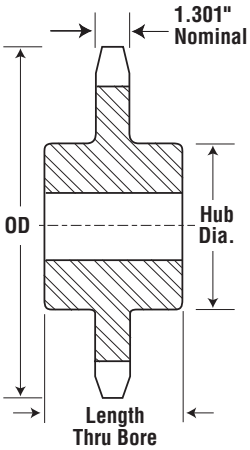
## Single - Type A

| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 11 | 180B11 | 9.010 | B | 1.5 | 3.625 | 5.5 | 3 | 29 | A | 180A11 | 1.5 | 14.0 |
| 12 | 180B12 | 9.750 | B | 1.5 | 4 | 6 | 3 | 32 | A | 180A12 | 1.5 | 16.0 |
| 13 | 180B13 | 10.480 | B | 1.5 | 4.625 | 6.75 | 3.125 | 40 | A | 180A13 | 1.5 | 20.0 |
| 14 | 180B14 | 11.210 | B | 1.5 | 5.25 | 7 | 3.125 | 44 | A | 180A14 | 1.5 | 24.0 |
| 15 | 180B15 | 11.930 | B | 1.5 | 5.25 | 7 | 3.125 | 48 | A | 180A15 | 1.5 | 28.0 |
| 16 | 180B16 | 12.660 | B | 1.5 | 5.25 | 7 | 3.125 | 52 | A | 180A16 | 1.5 | 32.0 |
| 17 | 180B17 | 13.390 | B | 1.5 | 5.25 | 7 | 3.125 | 58 | A | 180A17 | 1.5 | 37.0 |
| 18 | 180B18 | 14.110 | B | 1.5 | 5.25 | 7 | 3.125 | 63 | A | 180A18 | 1.5 | 43.0 |
| 19 | 180B19 | 14.830 | B | 1.5 | 5.375 | 7.5 | 3.375 | 74 | A | 180A19 | 1.5 | 47.0 |
| 20 | 180B20 | 15.560 | B | 1.5 | 5.375 | 7.5 | 3.375 | 81 | A | 180A20 | 1.5 | 53.0 |
| 21 | 180B21 | 16.280 | B | 1.5 | 5.375 | 7.5 | 3.375 | 83 | A | 180A21 | 1.5 | 57.0 |
| 22 | 180B22 | 17.000 | B | 1.5 | 5.375 | 7.5 | 3.375 | 92 | A | 180A22 | 1.5 | 62.0 |
| 23 | 180B23 | 17.720 | B | 1.5 | 5.375 | 7.5 | 3.375 | 99 | A | 180A23 | 1.5 | 69.0 |
| 24 | 180B24 | 18.440 | B | 1.5 | 5.375 | 7.5 | 3.375 | 105 | A | 180A24 | 1.5 | 77.0 |
| 25 | 180B25 | 19.160 | B | 1.5 | 5.375 | 7.5 | 3.375 | 113 | A | 180A25 | 1.5 | 84.0 |
| 28 | 180B28 | 21.320 | B | 1.5 | 5.5 | 8 | 3.5 | 135 | A | 180A28 | 1.5 | 104.0 |
| 30 | 180C30 | 22.760 | C | 1.5 | 5.75 | 8.5 | 4.375 | 180 | A | 180A30 | 1.5 | 120.0 |
| 35 | 180C35 | 26.350 | C | 1.5 | 5.75 | 8.5 | 4.375 | 222 | A | 180A35 | 1.5 | 172.0 |
| 40 | 180C40 | 29.940 | C | 1.5 | 5.75 | 8.5 | 4.375 | 270 | A | 180A40 | 1.5 | 229.0 |
| 45 | 180C45 | 33.530 | C | 1.5 | 6 | 9 | 5 | 315 | A | 180A45 | 1.5 | 284.0 |
| 54 | 180C54 | 39.980 | C | 1.5 | 6 | 9 | 5 | 477 | A | 180A54 | 1.5 | 420.0 |
| 60 | 180C60 | 44.280 | C | 1.5 | 6.5 | 9.5 | 5.375 | 489 | A | 180A60 | 1.5 | 505.0 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.




Type B




Type C

**Alteration Charges**

See current discount sheet for alteration charges.

# All Steel Stock Sprockets

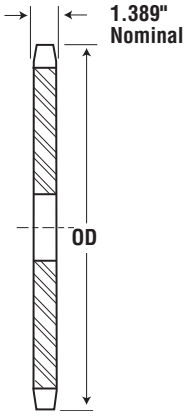
# No. 200 2½" Pitch

## Single - Type B & C

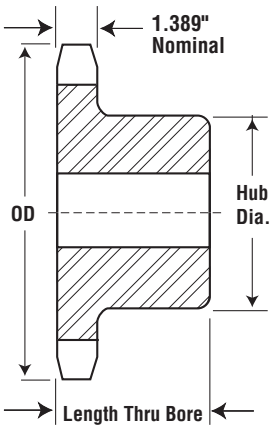
## Single - Type A

| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb | Type | Catalog Number | Stock Bore | Wt. lb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 10 | 200B10 | 9.200 | B | 1.5 | 3.75 | 5.5 | 3 | 26.0 | A | 200A10 | 1.5 | 16.0 |
| 11 | 200B11 | 10.020 | B | 1.5 | 4 | 6 | 3 | 33.0 | A | 200A11 | 1.5 | 20.0 |
| 12 | 200B12 | 10.830 | B | 1.5 | 4.5 | 6.5 | 3 | 37.0 | A | 200A12 | 1.5 | 24.0 |
| 13 | 200B13 | 11.640 | B | 1.5 | 5.25 | 7 | 3 | 46.0 | A | 200A13 | 1.5 | 30.0 |
| 14 | 200B14 | 12.460 | B | 1.5 | 5.375 | 7.5 | 3.5 | 59.0 | A | 200A14 | 1.5 | 32.0 |
| 15 | 200B15 | 13.260 | B | 1.5 | 5.375 | 7.5 | 3.5 | 64.0 | A | 200A15 | 1.5 | 40.0 |
| 16 | 200B16 | 14.070 | B | 1.5 | 5.375 | 7.5 | 3.5 | 72.0 | A | 200A16 | 1.5 | 46.0 |
| 17 | 200B17 | 14.870 | B | 1.5 | 5.375 | 7.5 | 3.5 | 76.0 | A | 200A17 | 1.5 | 51.0 |
| 18 | 200B18 | 15.680 | B | 1.5 | 5.375 | 7.5 | 3.5 | 84.0 | A | 200A18 | 1.5 | 57.0 |
| 19 | 200B19 | 16.480 | B | 1.5 | 5.375 | 7.5 | 3.5 | 91.0 | A | 200A19 | 1.5 | 65.0 |
| 20 | 200B20 | 17.290 | B | 1.5 | 5.375 | 7.5 | 3.5 | 98.0 | A | 200A20 | 1.5 | 72.0 |
| 21 | 200B21 | 18.090 | B | 1.5 | 5.375 | 7.5 | 3.5 | 106.0 | A | 200A21 | 1.5 | 82.0 |
| 22 | 200B22 | 18.890 | B | 1.5 | 5.75 | 8.5 | 4 | 131.0 | A | 200A22 | 1.5 | 88.0 |
| 23 | 200B23 | 19.690 | B | 1.5 | 5.75 | 8.5 | 4 | 136.0 | A | 200A23 | 1.5 | 95.0 |
| 24 | 200B24 | 20.490 | B | 1.5 | 5.75 | 8.5 | 4 | 142.0 | A | 200A24 | 1.5 | 105.0 |
| 25 | 200B25 | 21.290 | B | 1.5 | 5.75 | 8.5 | 4 | 153.0 | A | 200A25 | 1.5 | 113.0 |
| 26 | 200C26 | 22.090 | C | 1.5 | 5.75 | 8.5 | 4.5 | 178.0 | A | 200A26 | 1.5 | 124.0 |
| 28 | 200C28 | 23.690 | C | 1.5 | 5.75 | 8.5 | 4.5 | 195.0 | A | 200A28 | 1.5 | 144.0 |
| 30 | 200C30 | 25.290 | C | 1.5 | 5.75 | 8.5 | 4.5 | 212.0 | A | 200A30 | 1.5 | 167.0 |
| 32 | 200C32 | 26.880 | C | 1.5 | 5.75 | 8.5 | 4.5 | 220.0 | A | 200A32 | 1.5 | 195.0 |
| 35 | 200C35 | 29.280 | C | 1.5 | 5.75 | 8.5 | 4.5 | 254.0 | A | 200A35 | 1.5 | 227.0 |
| 40 | 200C40 | 33.270 | C | 1.5 | 6 | 9 | 5 | 320.0 | A | 200A40 | 1.5 | 301.0 |
| 45 | 200C45 | 37.250 | C | 1.5 | 6 | 9 | 5 | 364.0 | A | 200A45 | 1.5 | 390.0 |
| 54 | 200C54 | 44.420 | C | 1.5 | 6.5 | 9.5 | 5.5 | 512.0 | A | 200A54 | 1.5 | 555.0 |
| 60 | 200C60 | 49.200 | C | 1.5 | 6.5 | 9.5 | 5.5 | 654.0 | A | 200A60 | 1.5 | 692.0 |

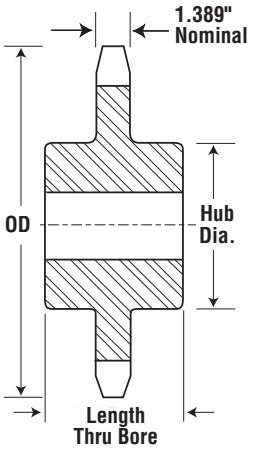
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.




Type A




Type B



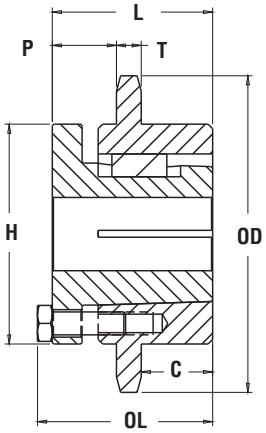

Type C

## Single - Type QD

| No. Teeth | Catalog Number | Bush. | Diameter | | Type | Max. Bore | Dimensions | | | | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | $L_1$ | $L_2$ | C | Y | P | G | V | X | T | With Hub | Rim Only |
| 12 | 200F12 | F | 10.830 | 9.660 | C | 3.9375 | 3.625 | 4 | 6.625 | 1 | 1.3125 | 1.125 | – | 2.5 | 1.389 | 25.5 | 24.0 |
| 13 | 200J13 | J | 11.640 | 10.447 | C | 4.4375 | 4.5 | 5 | 7.25 | 1.1875 | 2 | 1.8125 | – | 3.1875 | 1.389 | 50.5 | 32.0 |
| 14 | 200J14 | J | 12.460 | 11.235 | C | 4.4375 | 4.5 | 5 | 7.25 | 1.1875 | 2 | 1.8125 | – | 3.1875 | 1.389 | 57.5 | 39.0 |
| 15 | 200J15 | J | 13.260 | 12.025 | C | 4.4375 | 4.5 | 5 | 7.25 | 1.1875 | 2 | 1.8125 | – | 3.1875 | 1.389 | 62.5 | 44.0 |
| 16 | 200J16 | J | 14.070 | 12.815 | C | 4.4375 | 4.5 | 5 | 7.25 | 1.1875 | 2 | 1.8125 | – | 3.1875 | 1.389 | 68.5 | 50.0 |
| 17 | 200M17 | M | 14.870 | 13.605 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.7188 | 2.7188 | 2.3125 | 1.5 | 5.1875 | 1.389 | 113.0 | 76.0 |
| 18 | 200M18 | M | 15.680 | 14.397 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.7188 | 2.7188 | 2.3125 | 1.5 | 5.1875 | 1.389 | 119.0 | 82.0 |
| 19 | 200M19 | M | 16.480 | 15.910 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.7188 | 2.7188 | 2.3125 | 1.5 | 5.1875 | 1.389 | 125.0 | 88.0 |
| 20 | 200M20 | M | 17.290 | 15.982 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.7188 | 2.7188 | 2.3125 | 1.5 | 5.1875 | 1.389 | 134.0 | 97.0 |
| 21 | 200M21 | M | 18.090 | 16.775 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.7188 | 2.7188 | 2.3125 | 1.5 | 5.1875 | 1.389 | 140.0 | 103.0 |
| 22 | 200M22 | M | 18.890 | 17.567 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.7188 | 2.7188 | 2.3125 | 1.5 | 5.1875 | 1.389 | 149.0 | 112.0 |
| 23 | 200M23 | M | 19.690 | 18.360 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.7188 | 2.7188 | 2.3125 | 1.5 | 5.1875 | 1.389 | 157.0 | 120.0 |
| 24 | 200M24 | M | 20.490 | 19.152 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.7188 | 2.7188 | 2.3125 | 1.5 | 5.1875 | 1.389 | 168.0 | 131.0 |
| 25 | 200M25 | M | 21.290 | 19.947 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.7188 | 2.7188 | 2.3125 | 1.5 | 5.1875 | 1.389 | 175.0 | 138.0 |
| 26 | 200M26 | M | 22.090 | 20.740 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.7188 | 2.7188 | 2.3125 | 1.5 | 5.1875 | 1.389 | 185.0 | 148.0 |
| 28 | 200M28 | M | 23.690 | 22.330 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.7188 | 2.7188 | 2.3125 | 1.5 | 5.1875 | 1.389 | 205.0 | 168.0 |
| 30 | 200M30 | M | 25.290 | 23.917 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.7188 | 2.7188 | 2.3125 | 1.5 | 5.1875 | 1.389 | 227.0 | 190.0 |
| 32 | 200M32 | M | 26.880 | 25.505 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.7188 | 2.7188 | 2.3125 | 1.5 | 5.1875 | 1.389 | 251.0 | 214.0 |
| 35 | 200M35 | M | 29.280 | 27.890 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.7188 | 2.7188 | 2.3125 | 1.5 | 5.1875 | 1.389 | 265.0 | 228.0 |
| 40 | 200M40 | M | 33.270 | 31.865 | C1 | 5.5 | 6.75 | 6.75 | 9 | 2.7188 | 2.7188 | 2.3125 | 1.5 | 5.1875 | 1.389 | 315.0 | 278.0 |
| 45 | 200N45 | N | 37.250 | 35.840 | C1 | 5.875 | 8.125 | 8.125 | 10 | 3.4063 | 3.4063 | 3.1875 | 1.6875 | 6.25 | 1.389 | 405.0 | 348.0 |
| 54 | 200N54 | N | 44.420 | 42.995 | C1 | 5.875 | 8.125 | 8.125 | 10 | 3.4063 | 3.4063 | 3.1875 | 1.6875 | 6.25 | 1.389 | 535.0 | 478.0 |
| 60 | 200N60 | N | 49.200 | 47.767 | C1 | 5.875 | 8.125 | 8.125 | 10 | 3.4063 | 3.4063 | 3.1875 | 1.6875 | 6.25 | 1.389 | 665.0 | 608.0 |

# No. 200
## 2½" Pitch

# All Steel Stock Sprockets




Type 6

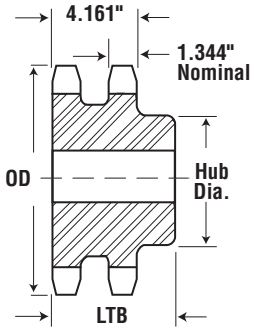
## Single - MST® Sprockets

| No. Teeth | Catalog Number | Bushing | Diameter | | Type | Max. Bore | Dimensions | | | | | | Wt. lb (Approx.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OD | PD | | | OL | L | C | H | P | T (Nom.) | With Hub | Rim Only |
| 12 | 200R12 | R2 | 10.830 | 9.660 | 6 | 3.625 | 5.1563 | 4.875 | 2 | 5.375 | 1.5 | 1.389 | 46.3 | 35.3 |
| 13 | 200S13 | S2 | 11.640 | 10.447 | 6 | 4.1875 | 7.125 | 6.75 | 2.875 | 6.375 | 2.5 | 1.389 | 71.2 | 52.2 |
| 14 | 200S14 | S2 | 12.460 | 11.235 | 6 | 4.1875 | 7.125 | 6.75 | 2.875 | 6.375 | 2.5 | 1.389 | 76.5 | 57.5 |
| 15 | 200S15 | S2 | 13.260 | 12.025 | 6 | 4.1875 | 7.125 | 6.75 | 2.875 | 6.375 | 2.5 | 1.389 | 80.0 | 61.0 |
| 16 | 200S16 | S2 | 14.070 | 12.815 | 6 | 4.1875 | 7.125 | 6.75 | 2.875 | 6.375 | 2.5 | 1.389 | 90.0 | 71.0 |
| 17 | 200S17 | S2 | 14.870 | 13.605 | 6 | 4.1875 | 7.125 | 6.75 | 2.875 | 6.375 | 2.5 | 1.389 | 98.0 | 79.0 |
| 18 | 200U18 | U0 | 15.680 | 14.397 | 6 | 5.5 | 5.7188 | 5.25 | 1.625 | 8.375 | 2.5313 | 1.389 | 106.5 | 76.5 |
| 19 | 200U19 | U0 | 16.480 | 15.190 | 6 | 5.5 | 5.7188 | 5.25 | 1.625 | 8.375 | 2.5313 | 1.389 | 113.7 | 83.7 |
| 20 | 200U20 | U0 | 17.290 | 15.982 | 6 | 5.5 | 5.7188 | 5.25 | 1.625 | 8.375 | 2.5313 | 1.389 | 121.3 | 91.3 |
| 21 | 200U21 | U0 | 18.090 | 16.775 | 6 | 5.5 | 5.7188 | 5.25 | 1.625 | 8.375 | 2.5313 | 1.389 | 129.4 | 99.4 |
| 22 | 200U22 | U0 | 18.890 | 17.567 | 6 | 5.5 | 5.7188 | 5.25 | 1.625 | 8.375 | 2.5313 | 1.389 | 140.0 | 110.0 |
| 23 | 200U23 | U0 | 19.690 | 18.360 | 6 | 5.5 | 5.7188 | 5.25 | 1.625 | 8.375 | 2.5313 | 1.389 | 147.0 | 117.0 |
| 24 | 200U24 | U0 | 20.490 | 19.152 | 6 | 5.5 | 5.7188 | 5.25 | 1.625 | 8.375 | 2.5313 | 1.389 | 156.0 | 126.0 |
| 25 | 200U25 | U0 | 21.290 | 19.947 | 6 | 5.5 | 5.7188 | 5.25 | 1.625 | 8.375 | 2.5313 | 1.389 | 170.0 | 140.0 |
| 26 | 200U26 | U0 | 22.090 | 20.740 | 6 | 5.5 | 5.7188 | 5.25 | 1.625 | 8.375 | 2.5313 | 1.389 | 180.0 | 150.0 |
| 28 | 200U28 | U0 | 23.690 | 22.330 | 6 | 5.5 | 5.7188 | 5.25 | 1.625 | 8.375 | 2.5313 | 1.389 | 199.0 | 169.0 |
| 30 | 200U30 | U0 | 25.290 | 23.917 | 6 | 5.5 | 5.7188 | 5.25 | 1.625 | 8.375 | 2.5313 | 1.389 | 218.0 | 188.0 |
| 32 | 200U32 | U0 | 26.880 | 25.505 | 6 | 5.5 | 5.7188 | 5.25 | 1.625 | 8.375 | 2.5313 | 1.389 | 242.0 | 212.0 |
| 35 | 200U35 | U1 | 29.280 | 27.890 | 6 | 5.5 | 7.5938 | 7.125 | 2.875 | 8.375 | 2.875 | 1.389 | 292.0 | 252.0 |
| 40 | 200U40 | U1 | 33.270 | 31.865 | 6 | 5.5 | 7.5938 | 7.125 | 2.875 | 8.375 | 2.875 | 1.389 | 346.0 | 306.0 |
| 45 | 200U45 | U1 | 37.250 | 35.840 | 6 | 5.5 | 7.5938 | 7.125 | 2.875 | 8.375 | 2.875 | 1.389 | 330.0 | 290.0 |
| 54 | 200U54 | U2 | 44.420 | 42.995 | 6 | 5 | 10.5938 | 10.125 | 4.25 | 8.375 | 3.963 | 1.389 | 435.0 | 385.0 |
| 60 | 200U60 | U2 | 49.200 | 47.767 | 6 | 5 | 10.5938 | 10.125 | 4.25 | 8.375 | 3.963 | 1.389 | 495.0 | 445.0 |

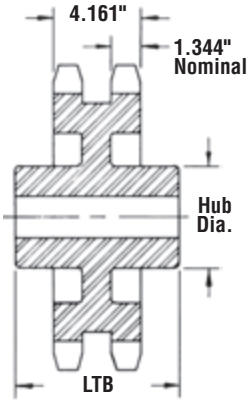
Sprockets with "H" suffix have hardened teeth.

# All Steel Stock Sprockets

# No. 200-2
## 2½" Pitch




Type B




Type C

## Double - Type B & C

| No. Teeth | Catalog Number | OD | Type | Bore (Inches) | | Hub (Inches) | | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max. | Dia. | LTB | |
| 11 | D200B11 | 10.020 | B | 2 | 3.75 | 5.5 | 5.875 | 57 |
| 12 | D200B12 | 10.830 | B | 2 | 4.5 | 6.5 | 6.25 | 80 |
| 13 | D200B13 | 11.640 | B | 2 | 5.25 | 7 | 6.375 | 96 |
| 14 | D200B14 | 12.460 | B | 2 | 5.5 | 8 | 6.375 | 119 |
| 15 | D200B15 | 13.260 | B | 2 | 5.75 | 8.5 | 6.375 | 138 |
| 16 | D200B16 | 14.070 | B | 2 | 5.75 | 8.5 | 6.625 | 161 |
| 17 | D200B17 | 14.870 | B | 2 | 5.75 | 8.5 | 6.625 | 178 |
| 18 | D200B18 | 15.680 | B | 2 | 5.75 | 8.5 | 6.625 | 196 |
| 19 | D200B19 | 16.480 | B | 2 | 5.75 | 8.5 | 6.625 | 217 |
| 20 | D200B20 | 17.290 | B | 2 | 5.75 | 8.5 | 6.625 | 236 |
| 21 | D200B21 | 18.090 | B | 2 | 5.75 | 8.5 | 6.625 | 250 |
| 22 | D200B22 | 18.890 | B | 2 | 5.75 | 8.5 | 6.625 | 284 |
| 23 | D200B23 | 19.690 | B | 2 | 5.75 | 8.5 | 6.625 | 308 |
| 24 | D200B24 | 20.490 | B | 2 | 5.75 | 8.5 | 6.625 | 330 |
| 25 | D200B25 | 21.290 | B | 2 | 5.75 | 8.5 | 6.625 | 358 |
| 26 | D200B26 | 22.090 | B | 2 | 5.75 | 8.5 | 6.625 | 386 |
| 45 | D200C45 | 37.250 | C | 1.5 | 7 | 10 | 8.5 | 665 |
| 60 | D200C60 | 49.200 | C | 1.5 | 7 | 10 | 9 | 972 |

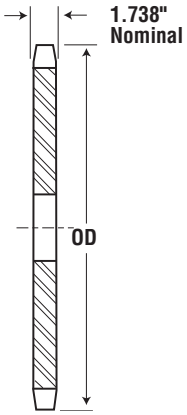
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

**Alteration Charges**

See current discount sheet for alteration charges.

# No. 240
## 3" Pitch

# All Steel Stock Sprockets

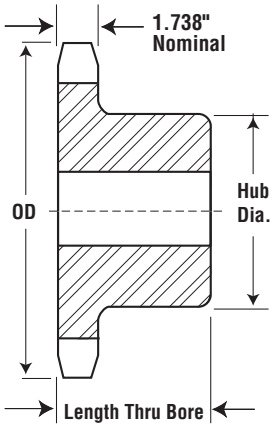



Type A

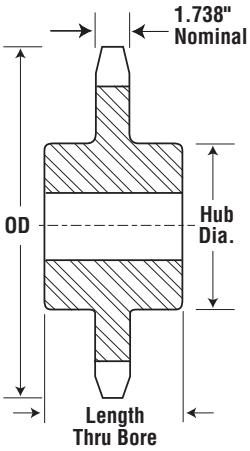
## Single - Type B & C

## Single - Type A

| No. Teeth | Catalog Number | OD | Type | Bore | | Hub | | Wt. lb (Approx.) | Type | Catalog Number | Stock Bore | Wt. lb (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Stock | Rec. Max | Dia. | LTB | | | | | |
| 10 | 240B10 | 11.030 | B | 1.5 | 4.5 | 6.5 | 3.375 | 49.0 | A | 240A10 | 1.5 | 30.0 |
| 11 | 240B11 | 12.020 | B | 1.5 | 4.75 | 7 | 3.875 | 66.0 | A | 240A11 | 1.5 | 37.0 |
| 12 | 240B12 | 13.000 | B | 1.5 | 5.375 | 7.5 | 3.875 | 72.0 | A | 240A12 | 1.5 | 45.0 |
| 13 | 240B13 | 13.970 | B | 1.5 | 5.375 | 7.5 | 3.875 | 81.0 | A | 240A13 | 1.5 | 54.0 |
| 14 | 240B14 | 14.940 | B | 1.5 | 5.375 | 7.5 | 3.875 | 88.0 | A | 240A14 | 1.5 | 62.0 |
| 15 | 240B15 | 15.910 | B | 1.5 | 5.375 | 7.5 | 3.875 | 98.0 | A | 240A15 | 1.5 | 68.0 |
| 16 | 240B16 | 16.880 | B | 1.5 | 5.5 | 8 | 4.125 | 120.0 | A | 240A16 | 1.5 | 82.0 |
| 17 | 240B17 | 17.850 | B | 1.5 | 5.5 | 8 | 4.125 | 137.0 | A | 240A17 | 1.5 | 93.0 |
| 18 | 240B18 | 18.810 | B | 1.5 | 5.5 | 8 | 4.125 | 142.0 | A | 240A18 | 1.5 | 108.0 |
| 19 | 240B19 | 19.780 | B | 1.5 | 5.5 | 8 | 4.125 | 154.0 | A | 240A19 | 1.5 | 120.0 |
| 20 | 240B20 | 20.740 | B | 1.5 | 5.5 | 8 | 4.125 | 169.0 | A | 240A20 | 1.5 | 128.0 |
| 21 | 240B21 | 21.710 | B | 1.5 | 5.5 | 8 | 4.125 | 186.0 | A | 240A21 | 1.5 | 148.0 |
| 25 | 240B25 | 25.550 | B | 1.5 | 5.5 | 8 | 4.125 | 254.0 | A | 240A25 | 1.5 | 208.0 |
| 30 | 240C30 | 30.340 | C | 1.5 | 6 | 9 | 6.25 | 398.0 | A | 240A30 | 1.5 | 310.0 |
| 35 | 240C35 | 35.130 | C | 1.5 | 6 | 9 | 6.25 | 527.0 | A | 240A35 | 1.5 | 416.0 |
| 40 | 240C40 | 39.920 | C | 1.5 | 7 | 10 | 6.75 | 672.0 | A | 240A40 | 1.5 | 548.0 |
| 45 | 240C45 | 44.700 | C | 1.5 | 7 | 10 | 6.75 | 850.0 | A | 240A45 | 1.5 | 702.0 |
| 54 | 240C54 | 53.310 | C | 1.5 | 7 | 10 | 6.75 | 1148.0 | A | 240A54 | 1.5 | 1022.0 |
| 60 | 240C60 | 59.040 | C | 1.5 | 7 | 10 | 6.75 | 1419.0 | A | 240A60 | 1.5 | 1268.0 |




Type B




Type C

# Metric Sprockets
# ISO STANDARDS

## Types A - B & C Stock Sprockets

Type A
Simplex

Type B
Simplex

Type C
Triplex

Type B
Duplex

Taper Bushed
Simplex

Taper Bushed
Duplex

Instant Split®
Sprocket

# Made-To-Order

Taper Bushed
Double-Simplex
Hardened Teeth

**Double-Simplex**

QD Bushed
Simplex

**QD Sprockets**

Idler
Ball Bearing

**Idler Sprockets**

Type B
Simplex
Stainless

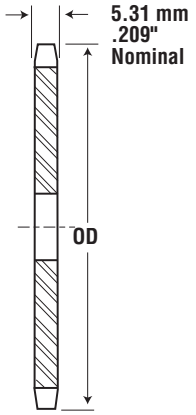
**Stainless Steel**

# ISO 06B-1
## METRIC 35

**Metric Sprockets**

## 0.375 INCH (9.525 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/3
ISO 06B-1
PITCH: 9.53 mm (0.375")
ROLLER DIAMETER: 6.35 mm (0.250")
ROLLER WIDTH: 5.72 mm (0.225")
TENSILE: 910 kilos (2000 lbs.)

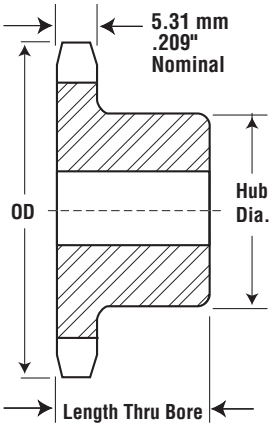



### Simplex - Type B — Steel / Type A — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore | | Hub | | Weight Approx. (kg) | Catalog Number | Bore Stock (mm) | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | | | | |
| 8 | 24.89 | 06B8 | 8 | 9 | 13 | 22 | 0.03 | – | – | – |
| 9 | 27.85 | 06B9 | 8 | 11 | 16 | 22 | 0.04 | – | – | – |
| 10 | 30.82 | 06B10 | 8 | 12 | 20 | 22 | 0.06 | – | – | – |
| 11 | 33.81 | 06B11 | 8 | 14 | 23 | 25 | 0.09 | – | – | – |
| 12 | 36.80 | 06B12 | 8 | 16 | 26 | 25 | 0.10 | – | – | – |
| 13 | 39.80 | 06B13 | 10 | 18 | 29 | 25 | 0.11 | – | – | – |
| 14 | 42.80 | 06B14 | 10 | 19 | 31 | 25 | 0.12 | – | – | – |
| 15 | 45.81 | 06B15 | 10 | 20 | 34 | 25 | 0.14 | 06A15 | 8 | 0.07 |
| 16 | 48.82 | 06B16 | 10 | 22 | 37 | 25 | 0.18 | 06A16 | 10 | 0.08 |
| 17 | 51.84 | 06B17 | 10 | 25 | 40 | 28 | 0.20 | 06A17 | 10 | 0.18 |
| 18 | 54.85 | 06B18 | 10 | 25 | 43 | 28 | 0.23 | 06A18 | 10 | 0.11 |
| 19 | 57.87 | 06B19 | 10 | 28 | 46 | 28 | 0.25 | 06A19 | 10 | 0.12 |
| 20 | 60.89 | 06B20 | 10 | 30 | 49 | 28 | 0.31 | 06A20 | 10 | 0.13 |
| 21 | 63.91 | 06B21 | 12 | 30 | 50 | 28 | 0.36 | 06A21 | 10 | 0.14 |
| 22 | 66.93 | 06B22 | 12 | 32 | 51 | 28 | 0.37 | 06A22 | 10 | 0.15 |
| 23 | 69.95 | 06B23 | 12 | 32 | 52 | 28 | 0.39 | 06A23 | 10 | 0.17 |
| 24 | 72.97 | 06B24 | 12 | 32 | 54 | 28 | 0.40 | 06A24 | 10 | 0.19 |
| 25 | 76.00 | 06B25 | 12 | 35 | 57 | 28 | 0.41 | 06A25 | 10 | 0.20 |
| 26 | 79.02 | 06B26 | 12 | 38 | 60 | 28 | 0.42 | 06A26 | 10 | 0.21 |
| 27 | 82.05 | 06B27 | 12 | 38 | 60 | 28 | 0.44 | 06A27 | 10 | 0.22 |
| 28 | 85.07 | 06B28 | 12 | 38 | 60 | 28 | 0.45 | 06A28 | 10 | 0.23 |
| 29 | 88.10 | 06B29 | 12 | 38 | 60 | 28 | 0.47 | 06A29 | 10 | 0.25 |
| 30 | 91.12 | 06B30 | 12 | 38 | 60 | 30 | 0.48 | 06A30 | 10 | 0.27 |
| 32 | 97.18 | 06B32 | 14 | 40 | 65 | 30 | 0.56 | 06A32 | 12 | 0.20 |
| 35 | 106.26 | 06B35 | 14 | 40 | 65 | 30 | 0.68 | 06A35 | 12 | 0.27 |
| 36 | 109.29 | 06B36 | 16 | 45 | 70 | 30 | 0.71 | 06A36 | 12 | 0.28 |
| 38 | 115.35 | 06B38 | 16 | 45 | 70 | 30 | 0.77 | 06A38 | 14 | 0.43 |
| 40 | 121.40 | 06B40 | 16 | 45 | 70 | 30 | 0.81 | 06A40 | 14 | 0.45 |
| 42 | 127.46 | 06B42 | 16 | 45 | 70 | 30 | 0.85 | 06A42 | 14 | 0.48 |
| 45 | 136.55 | 06B45 | 16 | 45 | 75 | 30 | 0.91 | 06A45 | 14 | 0.51 |
| 48 | 145.64 | 06B48 | 16 | 45 | 75 | 30 | 0.97 | 06A48 | 14 | 0.54 |
| 54 | 163.82 | 06B54 | 16 | 45 | 75 | 30 | 1.09 | 06A54 | 14 | 0.61 |
| 57 | 172.91 | 06B57 | 19 | 45 | 75 | 30 | 1.27 | 06A57 | 18 | 0.86 |
| 60 | 182.00 | 06B60 | 19 | 45 | 75 | 30 | 1.34 | 06A60 | 18 | 0.91 |
| 64 | 194.12 | 06B64 | 19 | 45 | 75 | 30 | 1.43 | 06A64 | 18 | 0.97 |
| 70 | 212.30 | 06B70 | 19 | 45 | 75 | 30 | 1.56 | 06A70 | 18 | 1.06 |
| 72 | 218.37 | 06B72 | 19 | 45 | 75 | 30 | 1.60 | 06A72 | 18 | 1.09 |
| 76 | 230.49 | 06B76 | 19 | 45 | 75 | 30 | 1.91 | 06A76 | 18 | 1.45 |
| 80 | 242.61 | 06B80 | 19 | 45 | 75 | 30 | 2.01 | 06A80 | 18 | 1.53 |
| 84 | 254.74 | 06B84 | 19 | 45 | 75 | 30 | 2.11 | 06A84 | 18 | 1.60 |
| 90 | 272.93 | 06B90 | 19 | 52 | 75 | 30 | 2.26 | 06A90 | 18 | 1.72 |
| 95 | 288.08 | 06B95 | 19 | 52 | 75 | 30 | 2.61 | 06A95 | 18 | 2.18 |
| 96 | 291.11 | 06B96 | 19 | 52 | 75 | 30 | 2.64 | 06A96 | 18 | 2.20 |
| 114 | 345.68 | 06B114 | 19 | 52 | 75 | 30 | 3.63 | 06A114 | 18 | 3.13 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

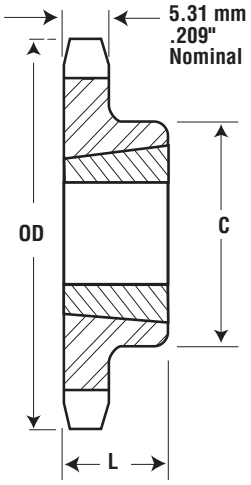
Type A



Type B

## 0.375 INCH (9.525 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/3
ISO 06B-1
PITCH: 9.53 mm (0.375")
ROLLER DIAMETER: 6.35 mm (0.250")
ROLLER WIDTH: 5.72 mm (0.225")
TENSILE: 910 kilos (2000 lbs.)




Type B

## Simplex - Taper Bushed — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bushing | Max. Bore (mm) | Dimensions | | Weight (Approx.) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | L (mm) | C (mm) | Rim (kg) | Bushing (kg) |
| 18 | 54.85 | 06BTB18H | 1008 | 25.40 | 22.23 | 47.63 ★ | 0.18 | 0.14 |
| 19 | 57.87 | 06BTB19H | 1008 | 25.40 | 22.23 | 46.04 | 0.23 | 0.14 |
| 20 | 60.89 | 06BTB20H | 1008 | 25.40 | 22.23 | 49.20 | 0.27 | 0.14 |
| 21 | 63.91 | 06BTB21H | 1008 | 25.40 | 22.23 | 52.39 | 0.32 | 0.14 |
| 22 | 66.93 | 06BTB22H | 1210 | 31.75 | 25.40 | 60.33 | 0.36 | 0.27 |
| 23 | 69.95 | 06BTB23H | 1210 | 31.75 | 25.40 | 61.91 | 0.41 | 0.27 |
| 24 | 72.97 | 06BTB24H | 1210 | 31.75 | 25.40 | 61.91 | 0.41 | 0.27 |
| 25 | 76.00 | 06BTB25H | 1210 | 31.75 | 25.40 | 61.91 | 0.54 | 0.27 |
| 26 | 79.02 | 06BTB26H | 1610 | 41.28 | 25.40 | 73.03 ★ | 0.50 | 0.41 |
| 28 | 85.07 | 06BTB28H | 1610 | 41.28 | 25.40 | 73.03 | 0.54 | 0.41 |
| 30 | 91.12 | 06BTB30H | 1610 | 41.28 | 25.40 | 79.38 | 0.54 | 0.41 |
| 32 | 97.18 | 06BTB32 | 1610 | 41.28 | 25.40 | 82.55 | 0.59 | 0.41 |
| 35 | 106.26 | 06BTB35 | 1610 | 41.28 | 25.40 | 82.55 | 0.64 | 0.41 |
| 36 | 109.29 | 06BTB36 | 1610 | 41.28 | 25.40 | 82.55 | 0.64 | 0.41 |
| 38 | 115.35 | 06BTB38 | 1610 | 41.28 | 25.40 | 82.55 | 0.68 | 0.41 |
| 40 | 121.40 | 06BTB40 | 1610 | 41.28 | 25.40 | 82.55 | 0.86 | 0.41 |
| 45 | 136.55 | 06BTB45 | 1610 | 41.28 | 25.40 | 82.55 | 0.95 | 0.41 |
| 48 | 145.65 | 06BTB48 | 1610 | 41.28 | 25.40 | 82.55 | 1.04 | 0.41 |
| 54 | 163.82 | 06BTB54 | 1610 | 41.28 | 25.40 | 82.55 | 1.18 | 0.41 |
| 57 | 172.91 | 06BTB57 | 1610 | 41.28 | 25.40 | 82.55 | 1.25 | 0.41 |
| 60 | 182.00 | 06BTB60 | 1610 | 41.28 | 25.40 | 82.55 | 1.36 | 0.41 |
| 70 | 212.30 | 06BTB70 | 1610 | 41.28 | 25.40 | 82.55 | 1.68 | 0.41 |
| 76 | 230.49 | 06BTB76 | 1610 | 41.28 | 25.40 | 82.55 | 1.82 | 0.41 |
| 95 | 288.08 | 06BTB95 | 1610 | 41.28 | 25.40 | 82.55 | 2.28 | 0.41 |

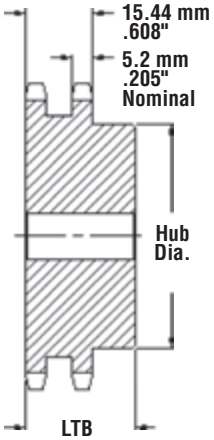
★ Has recessed groove in hub for chain clearance.
Sprockets with "H" suffix have hardened teeth.

# ISO 06B-2
## METRIC 35-2

**Metric Sprockets**

## 0.375 INCH (9.525 MM) PITCH DUPLEX WIDTH CHAINS

**CHAIN DATA:**
BS 228/3
ISO 06B-2
PITCH: 9.53 mm (0.375")
ROLLER DIAMETER: 6.35 mm (0.250")
ROLLER WIDTH: 5.72 mm (0.225")
TENSILE: 1730 kilos (3800 lbs.)




Type B

## Duplex - Type B — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (Inches) | | Hub (Inches) | | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | |
| 12 | 36.80 | D06B12 | 10 | 16 | 25 | 25 | 0.16 |
| 13 | 39.79 | D06B13 | 10 | 18 | 28 | 25 | 0.20 |
| 14 | 42.80 | D06B14 | 10 | 18 | 31 | 25 | 0.25 |
| 15 | 45.81 | D06B15 | 10 | 20 | 34 | 25 | 0.29 |
| 16 | 48.82 | D06B16 | 12 | 20 | 37 | 30 | 0.34 |
| 17 | 51.83 | D06B17 | 12 | 24 | 40 | 30 | 0.39 |
| 18 | 54.85 | D06B18 | 12 | 25 | 43 | 30 | 0.45 |
| 19 | 57.87 | D06B19 | 12 | 28 | 46 | 30 | 0.52 |
| 20 | 60.89 | D06B20 | 12 | 30 | 49 | 30 | 0.59 |
| 21 | 63.91 | D06B21 | 12 | 30 | 52 | 30 | 0.68 |
| 22 | 66.93 | D06B22 | 12 | 35 | 55 | 30 | 0.75 |
| 23 | 69.95 | D06B23 | 12 | 38 | 58 | 30 | 0.80 |
| 24 | 72.97 | D06B24 | 12 | 39 | 61 | 30 | 0.84 |
| 25 | 76.00 | D06B25 | 12 | 40 | 64 | 30 | 0.89 |
| 26 | 79.02 | D06B26 | 12 | 42 | 67 | 30 | 0.91 |
| 27 | 82.05 | D06B27 | 12 | 45 | 70 | 30 | 1.00 |
| 28 | 85.07 | D06B28 | 12 | 48 | 73 | 30 | 1.07 |
| 29 | 88.10 | D06B29 | 12 | 50 | 76 | 30 | 1.14 |
| 30 | 91.12 | D06B30 | 12 | 52 | 80 | 30 | 1.22 |
| 32 | 98.18 | D06B32 | 16 | 52 | 80 | 30 | 1.30 |
| 35 | 106.26 | D06B35 | 16 | 52 | 80 | 30 | 1.42 |
| 36 | 109.29 | D06B36 | 16 | 60 | 90 | 30 | 1.58 |
| 38 | 115.35 | D06B38 | 16 | 60 | 90 | 30 | 1.72 |
| 40 | 121.40 | D06B40 | 16 | 52 | 80 | 35 | 1.81 |
| 42 | 127.46 | D06B42 | 19 | 60 | 90 | 35 | 2.05 |
| 45 | 136.55 | D06B45 | 19 | 60 | 90 | 35 | 2.35 |
| 48 | 145.64 | D06B48 | 19 | 60 | 90 | 35 | 2.75 |
| 52 | 157.75 | D06B52 | 19 | 60 | 90 | 35 | 3.13 |
| 57 | 172.91 | D06B57 | 19 | 60 | 90 | 35 | 3.47 |
| 60 | 182.00 | D06B60 | 19 | 60 | 90 | 35 | 3.78 |
| 68 | 206.24 | D06B68 | 19 | 60 | 90 | 35 | 4.43 |
| 70 | 212.30 | D06B70 | 19 | 60 | 90 | 35 | 4.56 |
| 72 | 218.37 | D06B72 | 19 | 60 | 90 | 35 | 4.89 |
| 76 | 230.49 | D06B76 | 19 | 60 | 90 | 38 | 5.67 |
| 84 | 254.74 | D06B84 | 19 | 60 | 90 | 38 | 7.10 |
| 95 | 288.08 | D06B95 | 25 | 62 | 95 | 38 | 8.64 |
| 96 | 291.11 | D06B96 | 25 | 62 | 95 | 38 | 8.75 |
| 114 | 345.68 | D06B114 | 25 | 62 | 95 | 38 | 11.12 |

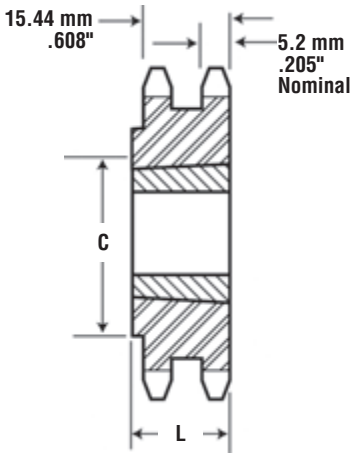
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Metric Sprockets

# ISO 06B-2
## METRIC 35-2

## 0.375 INCH (9.525 MM) PITCH DUPLEX WIDTH CHAINS

**CHAIN DATA:**
BS 228/3
ISO 06B-2
PITCH: 9.53 mm (0.375")
ROLLER DIAMETER: 6.35 mm (0.250")
ROLLER WIDTH: 5.72 mm (0.225")
TENSILE: 1730 kilos (3800 lbs.)



Type B

## Duplex - Taper Bushed — Steel

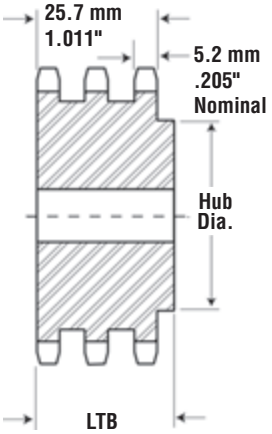
| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bushing | Max. Bore. (mm) | Dimensions | | Weight (Approx.) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | L (mm) | C (mm) | Rim (kg) | Bushing (kg) |
| 19 | 57.87 | D06BTB19 | 1008 | 25.40 | 22.23 | 46.43 | 0.6 | 0.14 |
| 20 | 60.89 | D06BTB20 | 1008 | 25.40 | 22.23 | 49.20 | 0.8 | 0.14 |
| 21 | 63.91 | D06BTB21 | 1008 | 25.40 | 22.23 | 52.39 | 1.4 | 0.14 |
| 22 | 66.93 | D06BTB22 | 1008 | 25.40 | 22.23 | 55.56 | 1.7 | 0.14 |
| 24 | 72.97 | D06BTB24 | 1210 | 31.75 | 25.40 | 61.91 | 1.8 | 0.27 |
| 25 | 76.00 | D06BTB25 | 1210 | 31.75 | 25.40 | 61.91 | 1.9 | 0.27 |
| 26 | 79.02 | D06BTB26 | 1210 | 31.75 | 25.40 | 66.68 | 2.0 | 0.27 |
| 30 | 91.12 | D06BTB30 | 1610 | 41.28 | 25.40 | 79.38 | 1.8 | 0.41 |
| 32 | 97.18 | D06BTB32 | 1610 | 41.28 | 25.40 | 82.55 | 2.0 | 0.41 |
| 35 | 106.26 | D06BTB35 | 1610 | 41.28 | 25.40 | 82.55 | 2.3 | 0.41 |
| 38 | 115.34 | D06BTB38 | 1610 | 41.28 | 25.40 | 82.55 | 2.5 | 0.41 |
| 40 | 121.40 | D06BTB40 | 1610 | 41.28 | 25.40 | 82.55 | 2.9 | 0.41 |
| 45 | 136.55 | D06BTB45 | 1610 | 41.28 | 25.40 | 82.55 | 3.2 | 0.41 |
| 48 | 145.65 | D06BTB48 | 1610 | 41.28 | 25.40 | 92.08 | 3.5 | 0.41 |
| 54 | 163.82 | D06BTB54 | 1610 | 41.28 | 25.40 | 92.08 | 3.9 | 0.41 |
| 57 | 172.91 | D06BTB57 | 1610 | 41.28 | 25.40 | 92.08 | 4.1 | 0.41 |
| 60 | 182.00 | D06BTB60 | 1610 | 41.28 | 25.40 | 92.08 | 4.9 | 0.41 |
| 70 | 212.30 | D06BTB70 | 1610 | 41.28 | 25.40 | 92.08 | 6.3 | 0.41 |
| 76 | 230.49 | D06BTB76 | 1610 | 41.28 | 25.40 | 92.08 | 6.8 | 0.41 |
| 95 | 288.08 | D06BTB95 | 1610 | 41.28 | 25.40 | 92.08 | 6.9 | 0.41 |

# ISO 06B-3
## METRIC 35-3

**Metric Sprockets**

## 0.375 INCH (9.525 MM) PITCH TRIPLEX

**CHAIN DATA:**
BS 228/3
ISO 06B-2
PITCH: 9.53 mm (0.375")
ROLLER DIAMETER: 6.35 mm (0.250")
ROLLER WIDTH: 5.72 mm (0.225")
TENSILE: 1730 kilos (3800 lbs.)




Type B

## Triplex - Type B — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (Inches) | | Hub (Inches) | | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | |
| 12 | 36.80 | E06B12 | 12 | 16 | 25 | 35 | 0.23 |
| 13 | 39.80 | E06B13 | 12 | 18 | 28 | 35 | 0.27 |
| 14 | 42.80 | E06B14 | 12 | 18 | 31 | 35 | 0.32 |
| 15 | 45.81 | E06B15 | 12 | 20 | 34 | 35 | 0.36 |
| 16 | 48.82 | E06B16 | 12 | 20 | 37 | 35 | 0.45 |
| 17 | 51.84 | E06B17 | 12 | 24 | 40 | 35 | 0.54 |
| 18 | 54.85 | E06B18 | 12 | 25 | 43 | 35 | 0.64 |
| 19 | 57.87 | E06B19 | 12 | 28 | 46 | 35 | 0.72 |
| 20 | 60.89 | E06B20 | 12 | 30 | 49 | 35 | 0.77 |
| 21 | 63.91 | E06B21 | 14 | 30 | 52 | 40 | 0.86 |
| 22 | 66.93 | E06B22 | 14 | 35 | 54 | 40 | 0.95 |
| 23 | 69.95 | E06B23 | 14 | 38 | 58 | 40 | 1.04 |
| 24 | 72.97 | E06B24 | 14 | 39 | 61 | 40 | 1.18 |
| 25 | 76.00 | E06B25 | 14 | 40 | 64 | 40 | 1.27 |
| 26 | 79.02 | E06B26 | 14 | 42 | 67 | 40 | 1.31 |
| 27 | 82.05 | E06B27 | 14 | 45 | 70 | 40 | 1.36 |
| 28 | 85.07 | E06B28 | 14 | 48 | 73 | 40 | 1.50 |
| 29 | 88.10 | E06B29 | 14 | 50 | 76 | 40 | 1.68 |
| 30 | 91.12 | E06B30 | 14 | 52 | 80 | 40 | 1.72 |
| 32 | 97.18 | E06B32 | 16 | 52 | 80 | 48 | 2.00 |
| 35 | 106.26 | E06B35 | 16 | 52 | 80 | 48 | 2.25 |
| 36 | 109.29 | E06B36 | 16 | 60 | 90 | 40 | 2.33 |
| 38 | 115.34 | E06B38 | 16 | 60 | 90 | 40 | 2.49 |
| 40 | 121.40 | E06B40 | 16 | 52 | 80 | 48 | 2.65 |
| 42 | 127.46 | E06B42 | 19 | 60 | 90 | 48 | 2.81 |
| 45 | 136.55 | E06B45 | 19 | 60 | 90 | 48 | 3.00 |
| 48 | 145.64 | E06B48 | 19 | 60 | 90 | 48 | 3.20 |
| 52 | 157.75 | E06B52 | 19 | 60 | 90 | 48 | 3.46 |
| 57 | 172.91 | E06B57 | 19 | 60 | 90 | 48 | 4.77 |
| 60 | 182.00 | E06B60 | 19 | 60 | 80 | 48 | 5.02 |
| 68 | 206.24 | E06B68 | 19 | 60 | 90 | 48 | 5.69 |
| 72 | 218.37 | E06B72 | 19 | 60 | 90 | 48 | 6.02 |
| 76 | 230.49 | E06B76 | 19 | 64 | 100 | 48 | 8.48 |
| 84 | 254.74 | E06B84 | 19 | 64 | 100 | 48 | 9.37 |
| 95 | 288.08 | E06B95 | 25 | 64 | 100 | 54 | 13.61 |
| 96 | 291.11 | E06B96 | 25 | 64 | 100 | 54 | 13.75 |
| 114 | 345.68 | E06B114 | 25 | 64 | 100 | 54 | 17.48 |

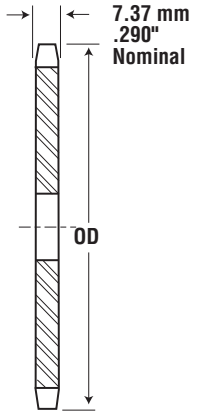
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Metric Sprockets

# ISO 08B-1
## METRIC 40

## 0.500 INCH (12.70 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/3
ISO 08B-1
PITCH: 12.70 mm (0.5")
ROLLER DIAMETER: 8.51 mm (0.335")
ROLLER WIDTH: 7.75 mm (0.305")
TENSILE: 1820 kilos (4000 lbs.)

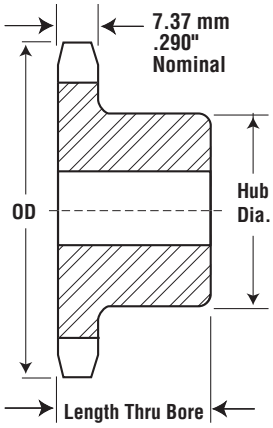



### Simplex - Type B — Steel / Type A — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore | | Hub | | Weight Approx. (kg) | Catalog Number | Bore Stock (mm) | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | | | | |
| 9 | 37.13 | 08B9 | 10 | 15 | 21 | 25 | 0.14 | – | – | – |
| 10 | 41.10 | 08B10 | 10 | 20 | 26 | 25 | 0.15 | – | – | – |
| 11 | 45.08 | 08B11 | 10 | 22 | 30 | 25 | 0.17 | – | – | – |
| 12 | 49.07 | 08B12 | 10 | 22 | 34 | 28 | 0.24 | 08A12 | 10 | 0.08 |
| 13 | 53.07 | 08B13 | 10 | 25 | 38 | 28 | 0.25 | 08A13 | 10 | 0.10 |
| 14 | 57.07 | 08B14 | 10 | 28 | 42 | 28 | 0.31 | 08A14 | 10 | 0.12 |
| 15 | 61.08 | 08B15 | 10 | 30 | 46 | 28 | 0.33 | 08A15 | 10 | 0.14 |
| 16 | 65.10 | 08B16 | 12 | 32 | 50 | 28 | 0.37 | 08A16 | 10 | 0.15 |
| 17 | 69.12 | 08B17 | 12 | 35 | 54 | 28 | 0.51 | 08A17 | 10 | 0.16 |
| 18 | 73.14 | 08B18 | 12 | 38 | 57 | 28 | 0.54 | 08A18 | 10 | 0.20 |
| 19 | 77.16 | 08B19 | 12 | 40 | 64 | 28 | 0.65 | 08A19 | 10 | 0.21 |
| 20 | 81.18 | 08B20 | 12 | 42 | 67 | 28 | 0.76 | 08A20 | 10 | 0.25 |
| 21 | 85.21 | 08B21 | 12 | 45 | 70 | 28 | 0.82 | 08A21 | 12 | 0.26 |
| 22 | 89.24 | 08B22 | 12 | 48 | 73 | 28 | 0.88 | 08A22 | 12 | 0.30 |
| 23 | 93.27 | 08B23 | 12 | 51 | 78 | 28 | 1.05 | 08A23 | 12 | 0.33 |
| 24 | 97.30 | 08B24 | 14 | 53 | 82 | 28 | 1.05 | 08A24 | 12 | 0.37 |
| 25 | 101.33 | 08B25 | 14 | 53 | 82 | 28 | 1.13 | 08A25 | 12 | 0.40 |
| 26 | 105.36 | 08B26 | 16 | 53 | 82 | 30 | 1.15 | 08A26 | 16 | 0.43 |
| 27 | 109.40 | 08B27 | 16 | 53 | 82 | 30 | 1.19 | 08A27 | 16 | 0.44 |
| 28 | 113.43 | 08B28 | 16 | 53 | 82 | 30 | 1.30 | 08A28 | 16 | 0.50 |
| 29 | 117.46 | 08B29 | 16 | 53 | 82 | 30 | 1.33 | 08A29 | 16 | 0.55 |
| 30 | 121.50 | 08B30 | 16 | 53 | 89 | 30 | 1.36 | 08A30 | 15 | 0.57 |
| 31 | 125.53 | 08B31 | 16 | 60 | 89 | 30 | 1.41 | 08A31 | 15 | 0.64 |
| 32 | 129.57 | 08B32 | 16 | 60 | 89 | 30 | 1.46 | 08A32 | 15 | 0.67 |
| 33 | 133.61 | 08B33 | 16 | 60 | 89 | 30 | 1.51 | 08A33 | 15 | 0.71 |
| 34 | 137.64 | 08B34 | 16 | 60 | 89 | 30 | 1.56 | 08A34 | 15 | 0.74 |
| 35 | 141.68 | 08B35 | 16 | 60 | 89 | 30 | 1.61 | 08A35 | 15 | 0.77 |
| 36 | 145.72 | 08B36 | 16 | 60 | 89 | 35 | 1.69 | 08A36 | 15 | 0.83 |
| 37 | 149.75 | 08B37 | 16 | 60 | 89 | 35 | 1.74 | 08A37 | 15 | 0.87 |
| 38 | 153.79 | 08B38 | 16 | 60 | 89 | 35 | 1.78 | 08A38 | 15 | 0.91 |
| 39 | 157.83 | 08B39 | 19 | 60 | 89 | 35 | 1.83 | 08A39 | 18 | 0.92 |
| 40 | 161.87 | 08B40 | 19 | 60 | 89 | 35 | 1.88 | 08A40 | 18 | 1.01 |
| 42 | 169.94 | 08B42 | 19 | 60 | 89 | 35 | 1.97 | 08A42 | 18 | 1.13 |
| 45 | 182.06 | 08B45 | 19 | 60 | 89 | 35 | 2.11 | 08A45 | 18 | 1.43 |
| 48 | 194.18 | 08B48 | 19 | 64 | 100 | 35 | 2.76 | 08A48 | 18 | 1.46 |
| 54 | 218.42 | 08B54 | 19 | 64 | 100 | 35 | 3.11 | 08A54 | 18 | 2.01 |
| 57 | 230.54 | 08B57 | 19 | 64 | 100 | 35 | 3.28 | 08A57 | 18 | 2.27 |
| 60 | 242.66 | 08B60 | 19 | 64 | 100 | 35 | 3.45 | 08A60 | 18 | 2.03 |
| 64 | 258.83 | 08B64 | 19 | 64 | 100 | 35 | 3.68 | 08A64 | 18 | 2.17 |
| 70 | 283.07 | 08B70 | 19 | 64 | 100 | 35 | 4.02 | 08A70 | 18 | 3.28 |
| 72 | 291.15 | 08B72 | 19 | 64 | 100 | 35 | 4.13 | 08A72 | 18 | 3.51 |
| 76 | 307.32 | 08B76 | 19 | 64 | 100 | 35 | 5.73 | 08A76 | 18 | 3.70 |
| 80 | 323.49 | 08B80 | 19 | 64 | 100 | 35 | 6.03 | 08A80 | 18 | 4.63 |
| 84 | 339.65 | 08B84 | 19 | 64 | 100 | 35 | 6.33 | 08A84 | 18 | 4.57 |
| 95 | 384.11 | 08B95 | 25 | 64 | 100 | 35 | 8.90 | 08A95 | 24 | 5.45 |
| 96 | 388.15 | 08B96 | 25 | 64 | 100 | 35 | 8.99 | 08A96 | 24 | 5.51 |
| 114 | 460.91 | 08B114 | 25 | 64 | 100 | 35 | 11.17 | 08A114 | 24 | 6.54 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Type A



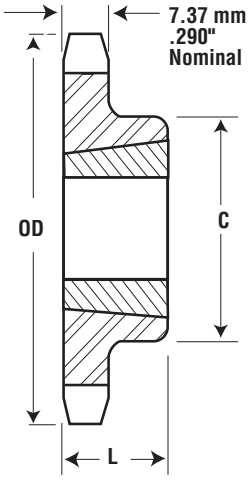
Type B

# ISO 08B-1
## METRIC 40

**Metric Sprockets**

## 0.500 INCH (12.70 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/7
ISO 08B-1
PITCH: 12.70 mm (0.500")
ROLLER DIAMETER: 8.51 mm (0.335")
ROLLER WIDTH: 7.75 mm (0.305")
TENSILE: 1820 kilos (4000 lbs.)




Type B

## Simplex - Taper Bushed — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bushing | Max. Bore (mm) | Dimensions | | Weight (Approx.) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | L (mm) | C (mm) | Rim (kg) | Bushing (kg) |
| 14 | 57.07 | 08BTB14H | 1008 | 25.40 | 22.23 | 46 ★ | 0.18 | 0.14 |
| 15 | 61.08 | 08BTB15H | 1008 | 25.40 | 22.23 | 46 | 0.18 | 0.14 |
| 16 | 65.10 | 08BTB16H | 1008 | 25.40 | 22.23 | 46 | 0.23 | 0.14 |
| 17 | 69.12 | 08BTB17H | 1210 | 31.75 | 25.40 | 60 ★ | 0.23 | 0.14 |
| 18 | 73.14 | 08BTB18H | 1210 | 31.75 | 25.40 | 62 ★ | 0.27 | 0.27 |
| 19 | 77.16 | 08BTB19H | 1210 | 31.75 | 25.40 | 62 | 0.32 | 0.27 |
| 20 | 81.18 | 08BTB20H | 1610 | 41.28 | 25.40 | 70 ★ | 0.41 | 0.41 |
| 21 | 85.21 | 08BTB21H | 1610 | 41.28 | 25.40 | 70 | 0.45 | 0.41 |
| 22 | 89.24 | 08BTB22H | 1610 | 41.28 | 25.40 | 70 | 0.50 | 0.41 |
| 23 | 93.27 | 08BTB23H | 1610 | 41.28 | 25.40 | 76 | 0.59 | 0.41 |
| 24 | 97.30 | 08BTB24H | 1610 | 41.28 | 25.40 | 82 | 0.73 | 0.41 |
| 25 | 101.33 | 08BTB25H | 1610 | 41.28 | 25.40 | 82 | 0.73 | 0.41 |
| 26 | 105.36 | 08BTB26H | 1610 | 41.28 | 25.40 | 82 | 0.73 | 0.41 |
| 27 | 109.40 | 08BTB27H | 1610 | 41.28 | 25.40 | 76 | 0.70 | 0.41 |
| 28 | 113.43 | 08BTB28H | 1610 | 41.28 | 25.40 | 76 | 0.73 | 0.41 |
| 29 | 117.46 | 08BTB29H | 1610 | 41.28 | 25.40 | 76 | 0.76 | 0.41 |
| 30 | 121.50 | 08BTB30H | 1610 | 41.28 | 25.40 | 73 | 0.82 | 0.41 |
| 32 | 129.57 | 08BTB32 | 1610 | 41.28 | 25.40 | 76 | 0.87 | 0.41 |
| 35 | 141.68 | 08BTB35 | 1610 | 41.28 | 25.40 | 76 | 0.96 | 0.41 |
| 36 | 145.72 | 08BTB36 | 1610 | 41.28 | 25.40 | 76 | 0.98 | 0.41 |
| 38 | 153.79 | 08BTB38 | 1610 | 41.28 | 25.40 | 76 | 1.23 | 0.41 |
| 40 | 161.87 | 08BTB40 | 1610 | 41.28 | 25.40 | 76 | 1.29 | 0.41 |
| 42 | 169.94 | 08BTB42 | 1610 | 41.28 | 25.40 | 76 | 1.36 | 0.41 |
| 45 | 182.06 | 08BTB45 | 1610 | 41.28 | 25.40 | 76 | 1.46 | 0.41 |
| 48 | 194.18 | 08BTB48 | 1610 | 41.28 | 25.40 | 76 | 1.55 | 0.41 |
| 54 | 218.42 | 08BTB54 | 1610 | 41.28 | 25.40 | 76 | 1.75 | 0.41 |
| 57 | 230.54 | 08BTB57 | 1610 | 41.28 | 25.40 | 76 | 2.63 | 0.41 |
| 60 | 242.66 | 08BTB60 | 1610 | 41.28 | 25.40 | 76 | 2.77 | 0.41 |
| 70 | 283.07 | 08BTB70 | 2012 | 50.80 | 31.75 | 90 | 3.93 | 0.41 |
| 72 | 291.15 | 08BTB72 | 2012 | 50.80 | 31.75 | 90 | 4.05 | 0.41 |
| 76 | 307.32 | 08BTB76 | 2012 | 50.80 | 31.75 | 90 | 4.27 | 0.77 |
| 80 | 323.49 | 08BTB80 | 2012 | 50.80 | 31.75 | 90 | 4.49 | 0.77 |
| 84 | 339.65 | 08BTB84 | 2012 | 50.80 | 31.75 | 90 | 4.72 | 0.77 |
| 95 | 384.11 | 08BTB95 | 2012 | 50.80 | 31.75 | 90 | 6.81 | 0.77 |
| 96 | 388.15 | 08BTB96 | 2012 | 50.80 | 31.75 | 90 | 6.88 | 0.77 |
| 114 | 460.91 | 08BTB114 | 2517 | 63.50 | 44.45 | 108 | 10.44 | 0.77 |

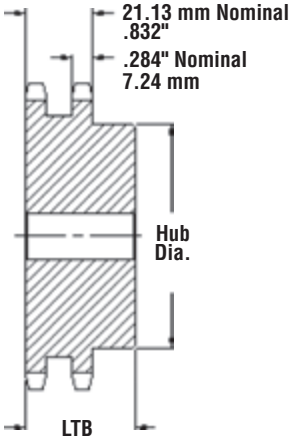
★ Has recessed groove in hub for chain clearance.
Sprockets with "H" suffix have hardened teeth.

# Metric Sprockets

# ISO 08B-2
## METRIC 40-2

## 0.500 INCH (12.70 MM) PITCH DUPLEX

**CHAIN DATA:**
BS 228/7
ISO 08B-2
PITCH: 12.70 mm (0.500")
ROLLER DIAMETER: 8.51 mm (0.335")
ROLLER WIDTH: 7.75 mm (0.305")
TENSILE: 3180 kilos (7000 lbs.)




Type B

## Duplex - Type B — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (Inches) | | Hub (Inches) | | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | |
| 10 | 41.10 | D08B10 | 10 | 18 | 26 | 32 | 0.22 |
| 11 | 45.08 | D08B11 | 11 | 21 | 30 | 35 | 0.22 |
| 12 | 49.07 | D08B12 | 12 | 23 | 34 | 35 | 0.26 |
| 13 | 53.07 | D08B13 | 12 | 25 | 38 | 35 | 0.28 |
| 14 | 57.07 | D08B14 | 12 | 28 | 42 | 35 | 0.34 |
| 15 | 61.08 | D08B15 | 12 | 30 | 46 | 35 | 0.36 |
| 16 | 65.10 | D08B16 | 14 | 33 | 50 | 35 | 0.35 |
| 17 | 69.12 | D08B17 | 14 | 36 | 54 | 35 | 0.44 |
| 18 | 73.14 | D08B18 | 14 | 38 | 58 | 35 | 0.49 |
| 19 | 77.16 | D08B19 | 14 | 40 | 62 | 35 | 0.57 |
| 20 | 81.18 | D08B20 | 14 | 40 | 66 | 35 | 0.65 |
| 21 | 85.21 | D08B21 | 16 | 45 | 70 | 40 | 0.72 |
| 22 | 89.24 | D08B22 | 16 | 45 | 70 | 40 | 0.73 |
| 23 | 93.27 | D08B23 | 16 | 45 | 70 | 40 | 0.83 |
| 24 | 97.30 | D08B24 | 16 | 50 | 75 | 40 | 0.94 |
| 25 | 101.33 | D08B25 | 16 | 52 | 80 | 40 | 0.98 |
| 26 | 105.36 | D08B26 | 20 | 56 | 85 | 40 | 1.04 |
| 27 | 109.40 | D08B27 | 20 | 56 | 85 | 40 | 1.08 |
| 28 | 113.43 | D08B28 | 20 | 60 | 90 | 40 | 1.10 |
| 29 | 117.46 | D08B29 | 20 | 62 | 95 | 40 | 1.14 |
| 30 | 121.50 | D08B30 | 20 | 64 | 100 | 40 | 1.16 |
| 32 | 129.57 | D08B32 | 20 | 64 | 100 | 40 | 1.24 |
| 35 | 141.68 | D08B35 | 20 | 64 | 100 | 40 | 1.35 |
| 36 | 145.72 | D08B36 | 20 | 73 | 110 | 40 | 2.05 |
| 38 | 153.79 | D08B38 | 20 | 73 | 110 | 45 | 2.17 |
| 40 | 161.87 | D08B40 | 20 | 73 | 110 | 45 | 2.28 |
| 42 | 169.94 | D08B42 | 20 | 73 | 110 | 45 | 2.32 |
| 45 | 182.06 | D08B45 | 20 | 73 | 110 | 45 | 2.49 |
| 48 | 194.18 | D08B48 | 20 | 73 | 110 | 45 | 2.65 |
| 54 | 218.42 | D08B54 | 25 | 73 | 110 | 45 | 2.98 |
| 57 | 230.54 | D08B57 | 25 | 73 | 110 | 45 | 3.88 |
| 60 | 242.66 | D08B60 | 25 | 73 | 110 | 45 | 4.08 |
| 68 | 283.07 | D08B68 | 25 | 73 | 110 | 45 | 4.63 |
| 72 | 291.16 | D08B72 | 25 | 73 | 110 | 45 | 4.90 |
| 76 | 307.32 | D08B76 | 30 | 80 | 120 | 45 | 6.60 |
| 84 | 339.65 | D08B84 | 30 | 80 | 120 | 45 | 7.29 |
| 95 | 384.11 | D08B95 | 30 | 80 | 120 | 45 | 9.89 |
| 96 | 388.15 | D08B96 | 30 | 80 | 120 | 45 | 9.99 |
| 114 | 460.90 | D08B114 | 30 | 80 | 120 | 45 | 12.88 |

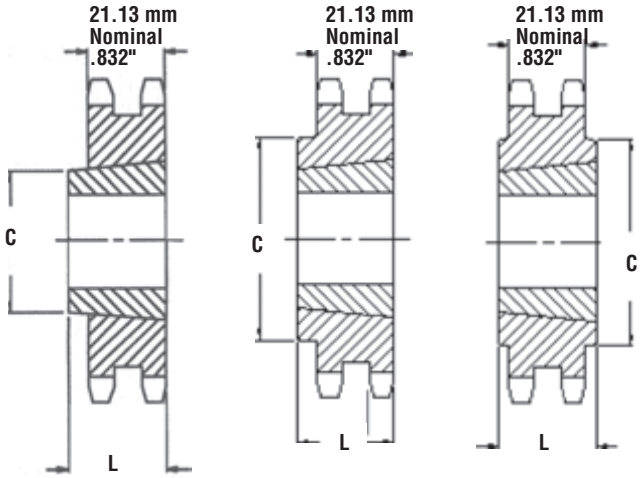
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# ISO 08B-2
## METRIC 40-2

**Metric Sprockets**

## 0.500 INCH (12.70 MM) PITCH DUPLEX

**CHAIN DATA:**
BS 228/7
ISO 08B-2
PITCH: 12.70 mm (0.500")
ROLLER DIAMETER: 8.51 mm (0.335")
ROLLER WIDTH: 7.75 mm (0.305")
TENSILE: 3180 kilos (7000 lbs.)




## Duplex - Taper Bushed — Steel

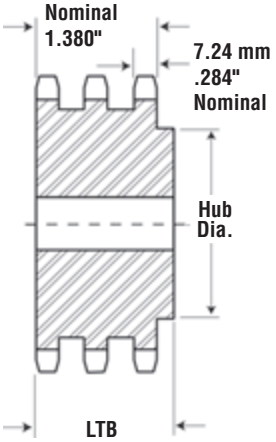
| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bushing | Max. Bore. (mm) | Dimensions | | Weight (Approx.) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | L (mm) | C (mm) | Rim (kg) | Bushing (kg) |
| 15 | 61.08 | D08ATB15 | 1008 | 25.40 | 22.22 | – | 0.18 | 0.13 |
| 16 | 65.10 | D08ATB16 | 1008 | 25.40 | 22.22 | – | 0.22 | 0.13 |
| 17 | 69.12 | D08ATB17 | 1008 | 25.40 | 22.22 | – | 0.27 | 0.13 |
| 18 | 73.14 | D08BTB18 | 1210 | 31.75 | 25.40 | 58 | 0.27 | 0.27 |
| 19 | 77.16 | D08BTB19 | 1210 | 31.75 | 25.40 | 63 | 0.36 | 0.27 |
| 20 | 81.18 | D08BTB20 | 1610 | 41.27 | 25.40 | 70 | 0.37 | 0.41 |
| 21 | 85.21 | D08BTB21 | 1610 | 41.27 | 25.40 | 70 | 0.46 | 0.41 |
| 22 | 89.24 | D08BTB22 | 1610 | 41.27 | 25.40 | 74 | 0.55 | 0.41 |
| 23 | 93.27 | D08BTB23 | 1610 | 41.27 | 25.40 | 78 | 0.59 | 0.41 |
| 24 | 97.30 | D08BTB24 | 2012 | 41.27 | 25.40 | 83 | 0.70 | 0.41 |
| 25 | 101.33 | D08BTB25 | 2012 | 50.80 | 31.75 | 87 | 0.77 | 0.77 |
| 26 | 105.36 | D08BTB26 | 2012 | 50.80 | 31.75 | 87 | 0.80 | 0.77 |
| 28 | 113.43 | D08BTB28 | 2012 | 50.80 | 31.75 | 99 | 1.06 | 0.77 |
| 30 | 121.50 | D08BTB30 | 2012 | 50.80 | 31.75 | 108 | 1.59 | 0.77 |
| 35 | 141.68 | D08BTB35 | 2012 | 50.80 | 31.75 | 108 | 1.86 | 0.77 |
| 36 | 145.72 | D08BTB36 | 2012 | 50.80 | 31.75 | 108 | 1.91 | 0.77 |
| 38 | 153.79 | D08BTB38 | 2012 | 50.80 | 31.75 | 108 | 3.18 | 0.77 |
| 42 | 169.94 | D08CTB42 | 2517 | 50.80 | 44.45 | 108 | 5.57 | 1.59 |
| 45 | 182.06 | D08CTB45 | 2517 | 63.50 | 44.45 | 108 | 5.97 | 1.59 |
| 48 | 194.18 | D08CTB48 | 2517 | 63.50 | 44.45 | 108 | 6.37 | 1.59 |
| 54 | 218.42 | D08CTB54 | 2517 | 63.50 | 44.45 | 108 | 7.17 | 1.59 |
| 57 | 230.54 | D08CTB57 | 2517 | 63.50 | 44.45 | 108 | 7.56 | 1.59 |
| 60 | 242.66 | D08CTB60 | 2517 | 63.50 | 44.45 | 108 | 12.05 | 1.59 |
| 68 | 274.99 | D08CTB68 | 2517 | 63.50 | 44.45 | 108 | 13.66 | 1.59 |
| 70 | 283.07 | D08CTB70 | 2517 | 63.50 | 44.45 | 108 | 14.06 | 1.59 |
| 72 | 291.15 | D08CTB72 | 2517 | 63.50 | 44.45 | 108 | 14.46 | 1.59 |
| 76 | 307.32 | D08CTB76 | 2517 | 63.50 | 44.45 | 108 | 15.26 | 1.59 |
| 84 | 339.65 | D08CTB84 | 2517 | 63.50 | 44.45 | 108 | 16.87 | 1.59 |
| 95 | 384.11 | D08CTB95 | 2517 | 63.50 | 44.45 | 108 | 19.08 | 1.59 |
| 96 | 388.15 | D08CTB96 | 2517 | 63.50 | 44.45 | 108 | 19.28 | 1.59 |
| 114 | 460.91 | D08CTB114 | 2517 | 63.50 | 44.45 | 108 | 22.90 | 1.59 |

# Metric Sprockets

# ISO 08B-3
## METRIC 40-3

## 0.500 INCH (12.70 MM) PITCH TRIPLEX

**CHAIN DATA:**
BS 228/7
ISO 08B-3
PITCH: 12.70 mm (0.500")
ROLLER DIAMETER: 8.51 mm (0.335")
ROLLER WIDTH: 7.75 mm (0.305")
TENSILE: 4540 kilos (10,000 lbs.)



Type B

## Triplex - Type B — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (Inches) | | Hub (Inches) | | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | |
| 11 | 45.08 | E08B11 | 14 | 22 | 30 | 50 | 0.32 |
| 12 | 49.07 | E08B12 | 14 | 24 | 34 | 50 | 0.45 |
| 13 | 53.06 | E08B13 | 14 | 25 | 38 | 50 | 0.59 |
| 14 | 57.07 | E08B14 | 14 | 28 | 42 | 50 | 0.72 |
| 15 | 61.08 | E08B15 | 14 | 31 | 46 | 50 | 0.81 |
| 16 | 65.10 | E08B16 | 16 | 35 | 50 | 50 | 0.90 |
| 17 | 69.12 | E08B17 | 16 | 36 | 54 | 50 | 1.04 |
| 18 | 73.14 | E08B18 | 16 | 38 | 58 | 50 | 1.22 |
| 19 | 77.16 | E08B19 | 16 | 40 | 62 | 50 | 1.41 |
| 20 | 81.18 | E08B20 | 16 | 40 | 66 | 50 | 1.58 |
| 21 | 85.21 | E08B21 | 20 | 45 | 70 | 55 | 1.81 |
| 22 | 89.24 | E08B22 | 20 | 45 | 70 | 55 | 2.03 |
| 23 | 93.27 | E08B23 | 20 | 45 | 70 | 55 | 2.27 |
| 24 | 97.30 | E08B24 | 20 | 50 | 75 | 55 | 2.44 |
| 25 | 101.33 | E08B25 | 20 | 52 | 80 | 55 | 2.54 |
| 26 | 105.36 | E08B26 | 20 | 56 | 85 | 55 | 2.85 |
| 27 | 109.40 | E08B27 | 20 | 56 | 85 | 55 | 2.85 |
| 28 | 113.43 | E08B28 | 20 | 60 | 90 | 55 | 3.16 |
| 29 | 117.46 | E08B29 | 20 | 62 | 95 | 55 | 3.34 |
| 30 | 121.50 | E08B30 | 20 | 64 | 100 | 55 | 3.48 |
| 35 | 141.68 | E08B35 | 20 | 73 | 110 | 55 | 4.79 |
| 36 | 145.72 | E08B36 | 25 | 80 | 120 | 55 | 5.43 |
| 38 | 153.79 | E08B38 | 25 | 80 | 120 | 60 | 6.49 |
| 42 | 169.94 | E08B42 | 25 | 80 | 120 | 60 | 7.17 |
| 45 | 182.06 | E08B45 | 25 | 80 | 120 | 60 | 7.69 |
| 48 | 194.18 | E08B48 | 25 | 80 | 120 | 60 | 8.20 |
| 52 | 210.34 | E08B52 | 25 | 80 | 120 | 60 | 8.88 |
| 54 | 218.43 | E08B54 | 25 | 80 | 120 | 60 | 9.22 |
| 57 | 230.54 | E08B57 | 25 | 80 | 120 | 60 | 12.62 |
| 60 | 242.66 | E08B60 | 25 | 85 | 130 | 65 | 13.84 |
| 68 | 274.99 | E08B68 | 25 | 85 | 130 | 65 | 15.69 |
| 72 | 291.15 | E08B72 | 25 | 85 | 130 | 65 | 16.61 |
| 76 | 307.32 | E08B76 | 30 | 85 | 130 | 65 | 22.23 |
| 84 | 339.65 | E08B84 | 30 | 85 | 130 | 65 | 24.57 |
| 95 | 384.11 | E08B95 | 30 | 85 | 130 | 65 | 33.11 |
| 114 | 460.91 | E08B114 | 30 | 85 | 130 | 65 | 41.90 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# ISO 10B-1
## METRIC 50

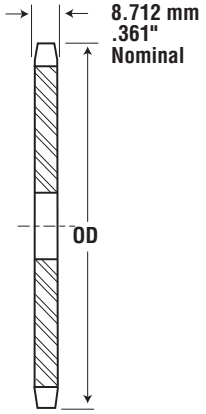
# Metric Sprockets

## 0.625 INCH (15.88 MM) PITCH SIMPLEX

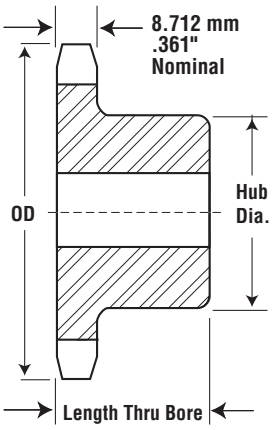
### Simplex - Type B — Steel / Type A - Steel

| No. Teeth | Pitch Dia. (mm) | Catalog Number | Bore (mm) Stock | Bore (mm) Max | Hub (mm) Dia. | Hub (mm) LTB | Weight (kg) | Catalog Number | Bore Stock (mm) | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 41.48 | 10B8 | 12 | 16 | 22 | 25 | 0.09 | – | – | – |
| 9 | 46.42 | 10B9 | 12 | 19 | 27 | 25 | 0.14 | – | – | – |
| 10 | 51.37 | 10B10 | 12 | 22 | 32 | 25 | 0.23 | – | – | – |
| 11 | 56.35 | 10B11 | 12 | 25 | 37 | 25 | 0.27 | – | – | – |
| 12 | 61.34 | 10B12 | 12 | 32 | 43 | 25 | 0.32 | 10A12 | 12 | 0.15 |
| 13 | 66.33 | 10B13 | 12 | 33 | 48 | 25 | 0.36 | 10A13 | 12 | 0.19 |
| 14 | 71.34 | 10B14 | 12 | 36 | 53 | 25 | 0.45 | 10A14 | 12 | 0.23 |
| 15 | 76.36 | 10B15 | 12 | 38 | 57 | 25 | 0.59 | 10A15 | 12 | 0.25 |
| 16 | 81.37 | 10B16 | 12 | 44 | 63 | 25 | 0.68 | 10A16 | 12 | 0.31 |
| 17 | 86.39 | 10B17 | 12 | 47 | 67 | 25 | 0.82 | 10A17 | 12 | 0.35 |
| 18 | 91.42 | 10B18 | 12 | 48 | 73 | 25 | 0.91 | 10A18 | 12 | 0.39 |
| 19 | 96.45 | 10B19 | 16 | 51 | 76 | 25 | 1.04 | 10A19 | 16 | 0.43 |
| 20 | 101.48 | 10B20 | 16 | 51 | 76 | 25 | 1.13 | 10A20 | 16 | 0.48 |
| 21 | 106.51 | 10B21 | 16 | 51 | 76 | 25 | 1.18 | 10A21 | 16 | 0.51 |
| 22 | 111.55 | 10B22 | 16 | 51 | 76 | 25 | 1.27 | 10A22 | 16 | 0.59 |
| 23 | 116.59 | 10B23 | 16 | 51 | 76 | 25 | 1.45 | 10A23 | 16 | 0.65 |
| 24 | 121.62 | 10B24 | 16 | 51 | 76 | 32 | 1.50 | 10A24 | 15 | 0.68 |
| 25 | 126.66 | 10B25 | 16 | 51 | 76 | 32 | 1.59 | 10A25 | 15 | 0.73 |
| 26 | 131.70 | 10B26 | 16 | 51 | 76 | 32 | 1.63 | 10A26 | 15 | 0.78 |
| 27 | 136.74 | 10B27 | 19 | 51 | 76 | 32 | 1.68 | 10A27 | 18 | 0.89 |
| 28 | 141.79 | 10B28 | 19 | 51 | 76 | 32 | 1.72 | 10A28 | 18 | 0.93 |
| 29 | 146.83 | 10B29 | 19 | 51 | 76 | 32 | 1.91 | 10A29 | 18 | 1.07 |
| 30 | 151.87 | 10B30 | 19 | 57 | 82 | 32 | 2.04 | 10A30 | 18 | 1.15 |
| 31 | 156.92 | 10B31 | 19 | 57 | 82 | 32 | 2.13 | 10A31 | 18 | 1.27 |
| 32 | 161.96 | 10B32 | 19 | 57 | 82 | 32 | 2.27 | 10A32 | 18 | 1.23 |
| 33 | 167.01 | 10B33 | 19 | 57 | 82 | 32 | 2.33 | 10A33 | 18 | 1.42 |
| 34 | 172.05 | 10B34 | 19 | 57 | 82 | 32 | 2.36 | 10A34 | 18 | 1.45 |
| 35 | 177.10 | 10B35 | 19 | 57 | 82 | 32 | 2.48 | 10A35 | 18 | 1.51 |
| 36 | 182.15 | 10B36 | 19 | 57 | 82 | 32 | 2.56 | 10A36 | 18 | 1.73 |
| 37 | 187.19 | 10B37 | 19 | 57 | 82 | 32 | 2.68 | 10A37 | 18 | 1.81 |
| 38 | 192.24 | 10B38 | 19 | 57 | 82 | 32 | 2.72 | 10A38 | 18 | 1.88 |
| 39 | 197.29 | 10B39 | 19 | 57 | 82 | 32 | 2.86 | 10A39 | 18 | 2.00 |
| 40 | 202.33 | 10B40 | 19 | 57 | 82 | 32 | 2.95 | 10A40 | 18 | 2.02 |
| 41 | 207.38 | 10B41 | 19 | 57 | 82 | 32 | 3.01 | 10A41 | 18 | 2.20 |
| 42 | 212.43 | 10B42 | 19 | 57 | 82 | 32 | 3.16 | 10A42 | 18 | 2.26 |
| 43 | 217.48 | 10B43 | 19 | 57 | 82 | 32 | 3.20 | 10A43 | 18 | 2.38 |
| 44 | 222.53 | 10B44 | 19 | 57 | 82 | 32 | 3.44 | 10A44 | 18 | 2.46 |
| 45 | 227.58 | 10B45 | 19 | 64 | 95 | 32 | 3.73 | 10A45 | 18 | 2.69 |
| 46 | 232.63 | 10B46 | 19 | 64 | 95 | 32 | 3.85 | 10A46 | 18 | 2.91 |
| 47 | 237.68 | 10B47 | 19 | 64 | 95 | 32 | 3.89 | 10A47 | 18 | 2.95 |
| 48 | 242.73 | 10B48 | 25 | 64 | 95 | 32 | 4.18 | 10A48 | 24 | 2.98 |
| 49 | 247.78 | 10B49 | 25 | 64 | 95 | 32 | 4.21 | 10A49 | 24 | 3.20 |
| 50 | 252.82 | 10B50 | 25 | 64 | 95 | 32 | 4.40 | 10A50 | 24 | 3.22 |
| 51 | 257.87 | 10B51 | 25 | 64 | 95 | 32 | 4.48 | 10A51 | 24 | 3.32 |
| 52 | 262.92 | 10B52 | 25 | 64 | 95 | 32 | 4.64 | 10A52 | 24 | 3.62 |
| 53 | 267.97 | 10B53 | 25 | 64 | 95 | 32 | 4.75 | 10A53 | 24 | 3.67 |
| 54 | 273.03 | 10B54 | 25 | 64 | 95 | 32 | 4.86 | 10A54 | 24 | 3.76 |
| 55 | 278.08 | 10B55 | 25 | 64 | 95 | 32 | 4.96 | 10A55 | 24 | 3.88 |
| 56 | 283.13 | 10B56 | 25 | 64 | 95 | 32 | 5.22 | 10A56 | 24 | 4.04 |
| 57 | 288.18 | 10B57 | 25 | 64 | 95 | 32 | 5.27 | 10A57 | 24 | 4.25 |
| 58 | 293.23 | 10B58 | 25 | 64 | 95 | 32 | 5.36 | 10A58 | 24 | 4.67 |
| 59 | 298.28 | 10B59 | 25 | 64 | 95 | 32 | 5.59 | 10A59 | 24 | 4.76 |
| 60 | 303.33 | 10B60 | 25 | 64 | 95 | 32 | 5.90 | 10A60 | 24 | 4.90 |
| 70 | 353.84 | 10B70 | 25 | 64 | 95 | 44 | 8.24 | 10A70 | 24 | 6.35 |
| 72 | 363.94 | 10B72 | 25 | 64 | 95 | 44 | 8.84 | 10A72 | 24 | 6.91 |
| 76 | 384.15 | 10B76 | 25 | 64 | 95 | 44 | 11.03 | 10A76 | 24 | 9.11 |
| 80 | 404.36 | 10B80 | 25 | 70 | 108 | 44 | 11.22 | 10A80 | 24 | 9.53 |
| 84 | 424.57 | 10B84 | 25 | 70 | 108 | 44 | 11.57 | 10A84 | 24 | 10.02 |
| 95 | 480.14 | 10B95 | 25 | 70 | 108 | 44 | 14.57 | 10A95 | 24 | 12.25 |
| 96 | 485.19 | 10B96 | 25 | 70 | 108 | 44 | 14.93 | 10A96 | 24 | 12.43 |
| 112 | 566.03 | 10B112 | 25 | 70 | 108 | 44 | 19.05 | 10A112 | 24 | 17.10 |
| 114 | 576.13 | 10B114 | 25 | 70 | 108 | 44 | 20.61 | 10A114 | 24 | 17.84 |

**CHAIN DATA:**
BS 228/11
ISO 10B-1
PITCH: 15.88mm (0.625")
ROLLER DIAMETER:
10.16mm (0.400")
ROLLER WIDTH: 9.65mm (0.380")
TENSILE: 2270 kilos (4500 lbs.)




Type A

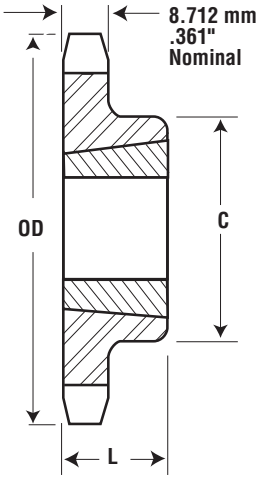



Type B

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# 0.625 INCH (15.88 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/11
ISO 10B-1
PITCH: 15.88 mm (0.625")
ROLLER DIAMETER: 10.16 mm (0.400")
ROLLER WIDTH: 9.65 mm (0.380")
TENSILE: 2270 kilos (5000 lbs.)




Type B

## Simplex - Taper Bushed — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bushing | Max. Bore (mm) | Dimensions | | Weight (Approx.) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | L (mm) | C (mm) | Rim (kg) | Bushing (kg) |
| 12 | 61.34 | 10BTB12H | 1008 | 25.40 | 22.23 | 49.20 ★ | 0.23 | 0.14 |
| 13 | 66.33 | 10BTB13H | 1008 | 25.40 | 22.23 | 46.02 | 0.23 | 0.14 |
| 14 | 71.34 | 10BTB14H | 1008 | 25.40 | 22.23 | 49.20 | 0.27 | 0.14 |
| 15 | 76.35 | 10BTB15H | 1210 | 31.75 | 25.40 | 62.69 ★ | 0.32 | 0.27 |
| 16 | 81.37 | 10BTB16H | 1610 | 41.28 | 25.40 | 70.64 ★ | 0.41 | 0.41 |
| 17 | 86.39 | 10BTB17H | 1610 | 41.28 | 25.40 | 70.64 ★ | 0.41 | 0.41 |
| 18 | 91.42 | 10BTB18H | 1610 | 41.28 | 25.40 | 70.64 | 0.41 | 0.41 |
| 19 | 96.45 | 10BTB19H | 1610 | 41.28 | 25.40 | 76.20 | 0.64 | 0.41 |
| 20 | 101.48 | 10BTB20H | 1610 | 41.28 | 25.40 | 76.20 | 0.68 | 0.41 |
| 21 | 106.51 | 10BTB21H | 1610 | 41.28 | 25.40 | 76.20 | 0.73 | 0.41 |
| 22 | 111.55 | 10BTB22H | 1610 | 41.28 | 25.40 | 76.20 | 0.78 | 0.41 |
| 23 | 116.59 | 10BTB23H | 2012 | 50.80 | 31.75 | 90.47 | 0.82 | 0.77 |
| 24 | 121.62 | 10BTB24H | 2012 | 50.80 | 31.75 | 90.47 | 0.91 | 0.77 |
| 25 | 126.66 | 10BTB25H | 2012 | 50.80 | 31.75 | 90.47 | 1.09 | 0.77 |
| 26 | 131.70 | 10BTB26H | 2012 | 50.80 | 31.75 | 90.47 | 1.14 | 0.77 |
| 27 | 136.74 | 10BTB27H | 2012 | 50.80 | 31.75 | 90.47 | 1.18 | 0.77 |
| 28 | 141.79 | 10BTB28H | 2012 | 50.80 | 31.75 | 90.47 | 1.29 | 0.77 |
| 30 | 151.87 | 10BTB30H | 2012 | 50.80 | 31.75 | 90.47 | 1.41 | 0.77 |
| 32 | 161.96 | 10BTB32 | 2012 | 50.80 | 31.75 | 90.47 | 1.63 | 0.77 |
| 35 | 177.10 | 10BTB35 | 2012 | 50.80 | 31.75 | 90.47 | 1.91 | 0.77 |
| 36 | 182.15 | 10BTB36 | 2012 | 50.80 | 31.75 | 90.47 | 1.95 | 0.77 |
| 38 | 192.24 | 10BTB38 | 2012 | 50.80 | 31.75 | 90.47 | 2.22 | 0.77 |
| 40 | 202.33 | 10BTB40 | 2012 | 50.80 | 31.75 | 90.47 | 2.36 | 0.77 |
| 42 | 212.43 | 10BTB42 | 2012 | 50.80 | 31.75 | 90.47 | 2.68 | 0.77 |
| 45 | 227.58 | 10BTB45 | 2012 | 50.80 | 31.75 | 90.47 | 2.95 | 0.77 |
| 48 | 242.73 | 10BTB48 | 2012 | 50.80 | 31.75 | 90.47 | 3.31 | 0.77 |
| 54 | 273.03 | 10BTB54 | 2012 | 50.80 | 31.75 | 90.47 | 4.08 | 0.77 |
| 57 | 288.18 | 10BTB57 | 2012 | 50.80 | 31.75 | 90.47 | 4.59 | 0.77 |
| 60 | 303.33 | 10BTB60 | 2012 | 50.80 | 31.75 | 90.47 | 4.90 | 0.77 |
| 70 | 353.84 | 10BTB70 | 2517 | 63.50 | 44.45 | 107.95 | 6.35 | 1.59 |
| 72 | 363.94 | 10BTB72 | 2517 | 63.50 | 44.45 | 107.95 | 7.03 | 1.59 |
| 76 | 384.15 | 10BTB76 | 2517 | 63.50 | 44.45 | 107.95 | 8.31 | 1.59 |
| 80 | 404.36 | 10BTB80 | 2517 | 63.50 | 44.45 | 107.95 | 8.85 | 1.59 |
| 84 | 424.57 | 10BTB84 | 2517 | 63.50 | 44.45 | 107.95 | 10.21 | 1.59 |
| 95 | 480.14 | 10BTB95 | 2517 | 63.50 | 44.45 | 107.95 | 12.76 | 1.59 |
| 96 | 485.19 | 10BTB96 | 2517 | 63.50 | 44.45 | 107.95 | 13.15 | 1.59 |
| 114 | 576.13 | 10BTB114 | 2517 | 63.50 | 44.45 | 107.95 | 19.61 | 1.59 |

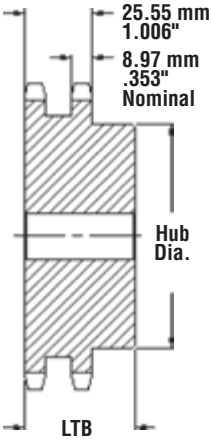
★ Has recessed groove in hub for chain clearance.
Sprockets with "H" suffix have hardened teeth.

# ISO 10B-2
## METRIC 50-2

**Metric Sprockets**

## 0.625 INCH (15.88 MM) PITCH DUPLEX

**CHAIN DATA:**
BS 228/11
ISO 10B-2
PITCH: 15.88 mm (0.625")
ROLLER DIAMETER: 10.16 mm (0.400")
ROLLER WIDTH: 9.65 mm (0.380")
TENSILE: 4540 kilos (10,000 lbs.)




Type B

## Duplex - Type B — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (Inches) | | Hub (Inches) | | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | |
| 11 | 56.35 | D10B11 | 14 | 24 | 37 | 40 | 0.44 |
| 12 | 61.34 | D10B12 | 14 | 28 | 43 | 40 | 0.57 |
| 13 | 66.33 | D10B13 | 14 | 33 | 48 | 40 | 0.71 |
| 14 | 71.34 | D10B14 | 14 | 35 | 53 | 40 | 0.84 |
| 15 | 76.35 | D10B15 | 14 | 38 | 58 | 40 | 1.01 |
| 16 | 81.37 | D10B16 | 16 | 40 | 63 | 45 | 1.19 |
| 17 | 86.39 | D10B17 | 16 | 45 | 68 | 45 | 1.38 |
| 18 | 91.42 | D10B18 | 16 | 48 | 73 | 45 | 1.62 |
| 19 | 96.45 | D10B19 | 16 | 52 | 79 | 45 | 1.77 |
| 20 | 101.48 | D10B20 | 16 | 56 | 84 | 45 | 1.93 |
| 21 | 106.51 | D10B21 | 16 | 56 | 85 | 45 | 2.22 |
| 22 | 111.55 | D10B22 | 16 | 60 | 90 | 45 | 2.53 |
| 23 | 116.59 | D10B23 | 16 | 62 | 95 | 45 | 2.77 |
| 24 | 121.62 | D10B24 | 16 | 64 | 100 | 45 | 2.95 |
| 25 | 126.66 | D10B25 | 16 | 68 | 105 | 45 | 3.15 |
| 26 | 131.70 | D10B26 | 20 | 73 | 110 | 45 | 3.42 |
| 27 | 136.74 | D10B27 | 20 | 73 | 110 | 45 | 3.98 |
| 28 | 141.79 | D10B28 | 20 | 76 | 115 | 45 | 4.20 |
| 29 | 146.83 | D10B29 | 20 | 76 | 115 | 45 | 4.43 |
| 30 | 151.87 | D10B30 | 20 | 80 | 120 | 45 | 4.66 |
| 32 | 161.96 | D10B32 | 20 | 80 | 120 | 45 | 5.16 |
| 35 | 177.10 | D10B35 | 20 | 80 | 120 | 45 | 5.96 |
| 36 | 182.15 | D10B36 | 20 | 80 | 120 | 45 | 6.70 |
| 38 | 192.24 | D10B38 | 20 | 80 | 120 | 50 | 7.67 |
| 40 | 202.33 | D10B40 | 30 | 80 | 120 | 50 | 7.92 |
| 45 | 227.58 | D10B45 | 30 | 80 | 120 | 50 | 9.21 |
| 48 | 242.73 | D10B48 | 30 | 80 | 120 | 60 | 10.92 |
| 57 | 288.18 | D10B57 | 32 | 85 | 130 | 60 | 15.07 |
| 60 | 303.33 | D10B60 | 32 | 85 | 130 | 60 | 16.27 |
| 70 | 353.84 | D10B70 | 32 | 85 | 130 | 60 | 21.99 |
| 76 | 384.15 | D10B76 | 32 | 85 | 130 | 60 | 26.31 |
| 80 | 404.36 | D10B80 | 32 | 85 | 130 | 60 | 27.98 |
| 95 | 480.14 | D10B95 | 32 | 85 | 130 | 60 | 32.69 |
| 114 | 576.13 | D10B114 | 32 | 85 | 130 | 60 | 49.30 |

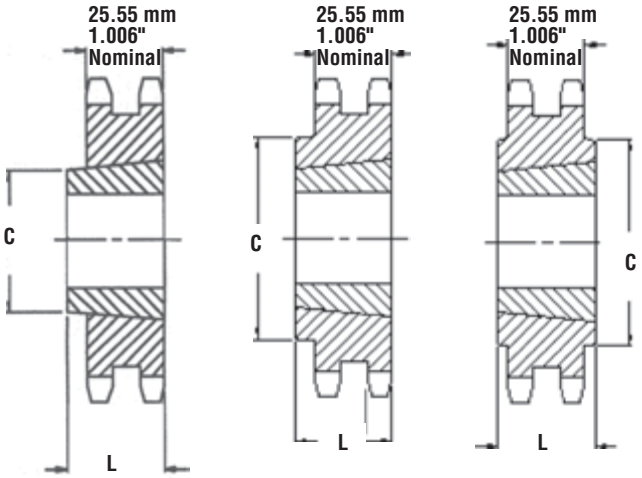
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Metric Sprockets

# ISO 10B-2
## METRIC 50-2

## 0.625 INCH (15.88 MM) PITCH DUPLEX

**CHAIN DATA:**
BS 228/11
ISO 10B-2
PITCH: 15.878 mm (0.625")
ROLLER DIAMETER: 10.16 mm (0.400")
ROLLER WIDTH: 9.65 mm (0.380")
TENSILE: 4540 kilos (10,000 lbs.)




## Duplex - Taper Bushed — Steel

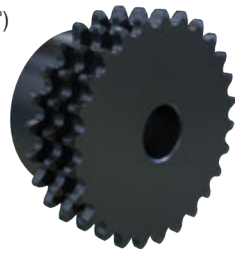
| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bushing | Max. Bore. (mm) | Dimensions | | Weight (Approx.) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | L (mm) | C (mm) | Rim (kg) | Bushing (kg) |
| 14 | 71.34 | D10ATB14 | 1008 | 25.40 | 22.23 | – | 0.45 | 0.14 |
| 15 | 76.35 | D10ATB15 | 1210 | 31.75 | 25.40 | – | 0.48 | 0.27 |
| 16 | 81.37 | D10ATB16 | 1210 | 31.75 | 25.40 | – | 0.50 | 0.27 |
| 17 | 86.39 | D10ATB17 | 1610 | 41.28 | 25.40 | – | 0.57 | 0.41 |
| 18 | 91.42 | D10ATB18 | 1610 | 41.28 | 25.40 | – | 0.64 | 0.41 |
| 19 | 96.45 | D10ATB19 | 1610 | 41.28 | 25.40 | – | 0.71 | 0.41 |
| 20 | 101.49 | D10BTB20 | 2012 | 50.80 | 25.40 | 84.00 | 0.82 | 0.77 |
| 21 | 106.52 | D10BTB21 | 2012 | 50.80 | 25.40 | 89.00 | 0.86 | 0.77 |
| 22 | 111.55 | D10BTB22 | 2012 | 50.80 | 31.75 | 99.00 | 1.45 | 0.77 |
| 23 | 116.59 | D10BTB23 | 2012 | 50.80 | 31.75 | 109.00 | 1.72 | 0.77 |
| 25 | 126.66 | D10BTB25 | 2012 | 50.80 | 31.75 | 134.00 | 3.40 | 0.77 |
| 30 | 151.87 | D10BTB30 | 2517 | 63.50 | 44.45 | 107.95 | 3.92 | 1.59 |
| 36 | 182.15 | D10CTB36 | 2517 | 63.50 | 44.45 | 107.95 | 4.54 | 1.59 |
| 38 | 192.24 | D10CTB38 | 2517 | 63.50 | 44.45 | 107.95 | 5.68 | 1.59 |
| 42 | 212.43 | D10CTB42 | 2517 | 63.50 | 44.45 | 107.95 | 7.95 | 1.59 |
| 48 | 242.73 | D10CTB48 | 2517 | 63.50 | 44.45 | 107.95 | 11.35 | 1.59 |
| 57 | 288.18 | D10CTB57 | 2517 | 63.50 | 44.45 | 107.95 | 19.69 | 1.59 |
| 60 | 303.33 | D10CTB60 | 2517 | 63.50 | 44.45 | 107.95 | 22.47 | 1.59 |
| 68 | 343.74 | D10CTB68 | 2517 | 63.50 | 44.45 | 107.95 | 25.47 | 1.59 |
| 76 | 384.15 | D10CTB76 | 2517 | 63.50 | 44.45 | 107.95 | 37.30 | 1.59 |
| 84 | 424.57 | D10CTB84 | 2517 | 63.50 | 44.45 | 107.95 | 44.72 | 1.59 |
| 95 | 480.14 | D10CTB95 | 2517 | 63.50 | 44.45 | 107.95 | 52.14 | 1.59 |
| 114 | 576.13 | D10CTB114 | 2517 | 63.50 | 44.45 | 107.95 | 62.57 | 1.59 |
| 68 | 274.99 | D08CTB68 | 2517 | 63.50 | 44.45 | 108 | 13.66 | 1.59 |
| 70 | 283.07 | D08CTB70 | 2517 | 63.50 | 44.45 | 108 | 14.06 | 1.59 |
| 72 | 291.15 | D08CTB72 | 2517 | 63.50 | 44.45 | 108 | 14.46 | 1.59 |
| 76 | 307.32 | D08CTB76 | 2517 | 63.50 | 44.45 | 108 | 15.26 | 1.59 |
| 84 | 339.65 | D08CTB84 | 2517 | 63.50 | 44.45 | 108 | 16.87 | 1.59 |
| 95 | 384.11 | D08CTB95 | 2517 | 63.50 | 44.45 | 108 | 19.08 | 1.59 |
| 96 | 388.15 | D08CTB96 | 2517 | 63.50 | 44.45 | 108 | 19.28 | 1.59 |
| 114 | 460.91 | D08CTB114 | 2517 | 63.50 | 44.45 | 108 | 22.90 | 1.59 |

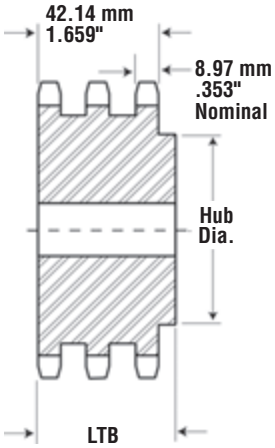
# ISO 10B-3
## METRIC 50-3

**Metric Sprockets**

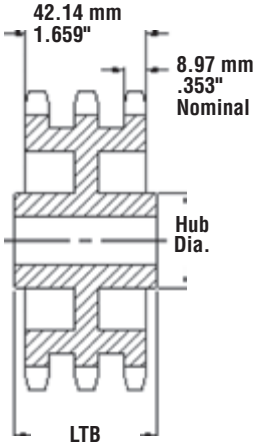
## 0.625 INCH (15.88 MM) PITCH TRIPLEX

**CHAIN DATA:**
BS 228/11
ISO 10B-3
PITCH: 15.88 mm (0.625")
ROLLER DIAMETER: 10.16 mm (0.400")
ROLLER WIDTH: 9.65 mm (0.380")
TENSILE: 6810 kilos (10,000 lbs.)






Type B




Type C

## Triplex - Type B/C — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (Inches) | | Hub (Inches) | | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | |
| 11 | 56.35 | E10B11 | 16 | 24 | 37 | 55 | 0.68 |
| 12 | 61.34 | E10B12 | 16 | 29 | 43 | 55 | 0.82 |
| 13 | 66.33 | E10B13 | 16 | 34 | 48 | 55 | 1.05 |
| 14 | 71.34 | E10B14 | 16 | 35 | 53 | 55 | 1.23 |
| 15 | 76.35 | E10B15 | 16 | 38 | 58 | 55 | 1.36 |
| 16 | 81.37 | E10B16 | 16 | 42 | 63 | 60 | 1.55 |
| 17 | 86.39 | E10B17 | 16 | 45 | 68 | 60 | 1.81 |
| 18 | 91.42 | E10B18 | 16 | 48 | 73 | 60 | 2.09 |
| 19 | 96.45 | E10B19 | 16 | 52 | 79 | 60 | 2.40 |
| 20 | 101.48 | E10B20 | 16 | 56 | 84 | 60 | 2.72 |
| 21 | 106.51 | E10B21 | 20 | 56 | 85 | 60 | 3.04 |
| 22 | 111.55 | E10B22 | 20 | 60 | 90 | 60 | 3.36 |
| 23 | 116.59 | E10B23 | 20 | 62 | 95 | 60 | 3.67 |
| 24 | 121.62 | E10B24 | 20 | 64 | 100 | 60 | 4.00 |
| 25 | 126.66 | E10B25 | 20 | 68 | 105 | 60 | 4.31 |
| 26 | 131.70 | E10B26 | 20 | 73 | 110 | 60 | 5.18 |
| 27 | 136.74 | E10B27 | 20 | 73 | 110 | 60 | 5.63 |
| 28 | 141.79 | E10B28 | 20 | 76 | 115 | 60 | 6.04 |
| 29 | 146.83 | E10B29 | 20 | 76 | 115 | 60 | 6.22 |
| 30 | 151.87 | E10B30 | 20 | 80 | 120 | 60 | 6.36 |
| 32 | 161.96 | E10B32 | 20 | 80 | 120 | 60 | 7.26 |
| 35 | 177.10 | E10B35 | 20 | 80 | 120 | 60 | 8.60 |
| 36 | 182.15 | E10B36 | 25 | 80 | 120 | 60 | 9.34 |
| 38 | 192.24 | E10B38 | 25 | 80 | 120 | 60 | 11.03 |
| 45 | 227.58 | E10B45 | 30 | 80 | 120 | 75 | 14.94 |
| 48 | 242.73 | E10B48 | 30 | 80 | 120 | 75 | 16.62 |
| 57 | 288.18 | E10B57 | 32 | 80 | 120 | 75 | 21.77 |
| 60 | 303.33 | E10B60 | 32 | 80 | 120 | 75 | 22.22 |
| 76 | 384.15 | E10C76 | 32 | 80 | 120 | 89 | 23.13 |
| 80 | 404.36 | E10C80 | 32 | 80 | 120 | 89 | 25.14 |
| 95 | 480.14 | E10C95 | 32 | 80 | 120 | 95 | 32.66 |
| 114 | 576.13 | E10C114 | 32 | 80 | 120 | 95 | 44.76 |

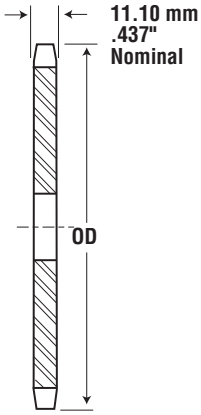
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Metric Sprockets

# ISO 12B-1
## METRIC 60

## 0.750 INCH (19.05 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/13
ISO 12B-1
PITCH: 19.05 mm (0.750")
ROLLER DIAMETER: 12.07 mm (0.475")
ROLLER WIDTH: 11.68 mm (0.460")
TENSILE: 2,950 kilos (6500 lbs.)

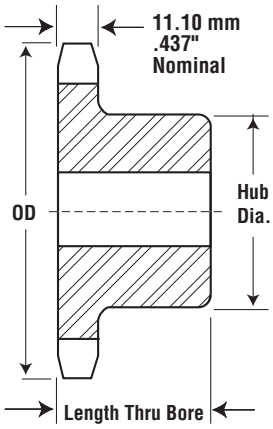



### Simplex - Type B — Steel / Type A — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore | | Hub | | Weight Approx. (kg) | Catalog Number | Bore Stock (mm) | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | | | | |
| 11 | 67.62 | 12B11 | 12 | 32 | 47 | 35 | 0.53 | 12A11 | 14 | 0.36 |
| 12 | 73.60 | 12B12 | 12 | 35 | 53 | 35 | 0.67 | 12A12 | 14 | 0.42 |
| 13 | 79.60 | 12B13 | 12 | 38 | 59 | 35 | 0.75 | 12A13 | 14 | 0.48 |
| 14 | 85.61 | 12B14 | 12 | 42 | 64 | 35 | 0.91 | 12A14 | 14 | 0.54 |
| 15 | 91.63 | 12B15 | 12 | 45 | 70 | 35 | 1.14 | 12A15 | 14 | 0.60 |
| 16 | 97.65 | 12B16 | 16 | 50 | 75 | 35 | 1.27 | 12A16 | 14 | 0.68 |
| 17 | 103.67 | 12B17 | 16 | 52 | 80 | 35 | 1.46 | 12A17 | 14 | 0.77 |
| 18 | 109.71 | 12B18 | 16 | 52 | 80 | 35 | 1.69 | 12A18 | 14 | 0.85 |
| 19 | 115.74 | 12B19 | 16 | 60 | 90 | 35 | 1.78 | 12A19 | 14 | 0.95 |
| 20 | 121.78 | 12B20 | 16 | 64 | 90 | 35 | 2.10 | 12A20 | 14 | 1.08 |
| 21 | 127.82 | 12B21 | 20 | 64 | 100 | 40 | 2.27 | 12A21 | 16 | 1.15 |
| 22 | 133.86 | 12B22 | 20 | 64 | 100 | 40 | 2.38 | 12A22 | 16 | 1.24 |
| 23 | 139.90 | 12B23 | 20 | 67 | 100 | 40 | 2.49 | 12A23 | 16 | 1.33 |
| 24 | 145.95 | 12B24 | 20 | 67 | 100 | 40 | 2.62 | 12A24 | 19 | 1.47 |
| 25 | 151.99 | 12B25 | 20 | 67 | 100 | 40 | 2.78 | 12A25 | 19 | 1.63 |
| 26 | 158.04 | 12B26 | 20 | 67 | 100 | 40 | 2.89 | 12A26 | 19 | 1.72 |
| 27 | 164.09 | 12B27 | 20 | 67 | 100 | 40 | 3.05 | 12A27 | 19 | 1.91 |
| 28 | 170.14 | 12B28 | 20 | 67 | 100 | 40 | 3.12 | 12A28 | 19 | 1.99 |
| 29 | 176.19 | 12B29 | 20 | 67 | 100 | 40 | 3.30 | 12A29 | 19 | 2.44 |
| 30 | 182.25 | 12B30 | 20 | 67 | 100 | 40 | 3.44 | 12A30 | 19 | 2.28 |
| 31 | 188.30 | 12B31 | 20 | 67 | 100 | 40 | 3.50 | 12A31 | 19 | 2.49 |
| 32 | 194.35 | 12B32 | 20 | 67 | 100 | 40 | 3.75 | 12A32 | 19 | 2.62 |
| 33 | 200.41 | 12B33 | 20 | 67 | 100 | 40 | 3.82 | 12A33 | 19 | 2.77 |
| 34 | 206.46 | 12B34 | 20 | 67 | 100 | 40 | 3.99 | 12A34 | 19 | 2.91 |
| 35 | 212.52 | 12B35 | 20 | 67 | 100 | 40 | 4.10 | 12A35 | 19 | 3.19 |
| 36 | 218.57 | 12B36 | 20 | 67 | 100 | 40 | 4.35 | 12A36 | 19 | 3.21 |
| 37 | 224.63 | 12B37 | 20 | 67 | 100 | 40 | 4.64 | 12A37 | 19 | 3.52 |
| 38 | 230.69 | 12B38 | 25 | 70 | 107 | 40 | 4.92 | 12A38 | 24 | 3.67 |
| 39 | 236.74 | 12B39 | 25 | 70 | 107 | 40 | 5.15 | 12A39 | 24 | 3.87 |
| 40 | 242.80 | 12B40 | 25 | 70 | 107 | 40 | 5.22 | 12A40 | 24 | 4.00 |
| 41 | 248.86 | 12B41 | 25 | 70 | 107 | 40 | 5.51 | 12A41 | 24 | 4.24 |
| 42 | 254.92 | 12B42 | 25 | 70 | 107 | 40 | 5.78 | 12A42 | 24 | 4.53 |
| 43 | 260.98 | 12B43 | 25 | 70 | 107 | 40 | 5.90 | 12A43 | 24 | 4.58 |
| 44 | 267.03 | 12B44 | 25 | 70 | 107 | 40 | 6.30 | 12A44 | 24 | 4.99 |
| 45 | 273.09 | 12B45 | 25 | 70 | 107 | 40 | 6.34 | 12A45 | 25 | 5.14 |
| 46 | 279.15 | 12B46 | 25 | 70 | 107 | 40 | 6.62 | 12A46 | 25 | 5.33 |
| 47 | 285.21 | 12B47 | 25 | 70 | 107 | 40 | 6.80 | 12A47 | 25 | 5.70 |
| 48 | 291.27 | 12B48 | 25 | 70 | 107 | 40 | 7.18 | 12A48 | 25 | 5.75 |
| 50 | 303.39 | 12B50 | 25 | 70 | 107 | 40 | 8.01 | 12A50 | 25 | 6.45 |
| 54 | 327.63 | 12B54 | 32 | 70 | 110 | 45 | 9.80 | 12A54 | 30 | 7.33 |
| 57 | 345.81 | 12B57 | 32 | 70 | 110 | 45 | 10.10 | 12A57 | 32 | 8.11 |
| 60 | 363.99 | 12B60 | 32 | 70 | 110 | 45 | 11.44 | 12A60 | 32 | 9.19 |
| 65 | 394.30 | 12B65 | 32 | 70 | 110 | 45 | 13.12 | 12A65 | 32 | 10.65 |
| 70 | 424.61 | 12B70 | 32 | 70 | 110 | 45 | 14.51 | 12A70 | 32 | 12.45 |
| 72 | 436.73 | 12B72 | 32 | 80 | 120 | 50 | 15.50 | 12A72 | 32 | 13.22 |
| 76 | 460.98 | 12B76 | 32 | 80 | 120 | 50 | 17.26 | 12A76 | 32 | 14.78 |
| 80 | 485.23 | 12B80 | 32 | 80 | 120 | 50 | 19.00 | 12A80 | 32 | 20.75 |
| 84 | 509.48 | 12B84 | 32 | 80 | 120 | 50 | 21.07 | 12A84 | 32 | 21.78 |
| 95 | 576.17 | 12B95 | 32 | 92 | 140 | 55 | 23.83 | 12A95 | 32 | 23.46 |
| 96 | 582.23 | 12B96 | 32 | 92 | 140 | 55 | 26.61 | 12A96 | 32 | 23.71 |
| 114 | 691.36 | 12B114 | 32 | 92 | 140 | 55 | 33.98 | 12A114 | 32 | 28.16 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Type A



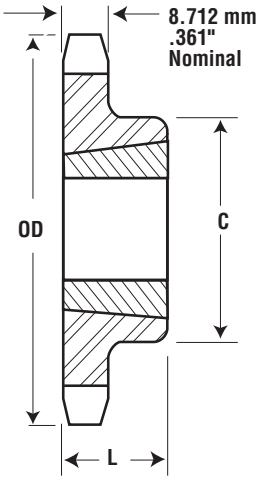
Type B

# ISO 12B-1
## METRIC 60

**Metric Sprockets**

## 0.750 INCH (19.05 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/13
ISO 12B-1
PITCH: 19.05 mm (0.750")
ROLLER DIAMETER: 12.07 mm (0.475")
ROLLER WIDTH: 11.68 mm (0.460")
TENSILE: 2,950 kilos (6500 lbs.)




Type B

## Simplex - Taper Bushed — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bushing | Max. Bore (mm) | Dimensions | | Weight (Approx.) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | L (mm) | C (mm) | Rim (kg) | Bushing (kg) |
| 11 | 67.62 | 12BTB11H | 1008 | 25.40 | 22.23 | 46.04 | 0.27 | 0.14 |
| 12 | 73.61 | 12BTB12H | 1008 | 25.40 | 22.23 | 49.21 | 0.36 | 0.14 |
| 13 | 79.60 | 12BTB13H | 1210 | 31.75 | 25.40 | 62.69 | 0.41 | 0.27 |
| 14 | 85.61 | 12BTB14H | 1210 | 31.75 | 25.40 | 62.69 | 0.45 | 0.27 |
| 15 | 91.63 | 12BTB15H | 1610 | 41.28 | 25.40 | 70.64 | 0.54 | 0.41 |
| 16 | 97.65 | 12BTB16H | 1610 | 41.28 | 25.40 | 76.20 | 0.73 | 0.41 |
| 17 | 103.67 | 12BTB17H | 1610 | 41.28 | 25.40 | 82.55 | 0.82 | 0.41 |
| 18 | 109.70 | 12BTB18H | 1610 | 41.28 | 25.40 | 82.55 | 0.91 | 0.41 |
| 19 | 115.74 | 12BTB19H | 1610 | 41.28 | 25.40 | 82.55 | 1.00 | 0.41 |
| 20 | 121.78 | 12BTB20H | 2012 | 50.80 | 31.75 | 90.47 | 1.00 | 0.77 |
| 21 | 127.82 | 12BTB21H | 2012 | 50.80 | 31.75 | 90.47 | 1.18 | 0.77 |
| 22 | 133.86 | 12BTB22H | 2012 | 50.80 | 31.75 | 90.47 | 1.27 | 0.77 |
| 23 | 139.90 | 12BTB23H | 2012 | 50.80 | 31.75 | 90.47 | 1.27 | 0.77 |
| 24 | 145.95 | 12BTB24H | 2012 | 50.80 | 31.75 | 90.47 | 1.50 | 0.77 |
| 25 | 151.99 | 12BTB25H | 2012 | 50.80 | 31.75 | 90.47 | 1.74 | 0.77 |
| 26 | 158.04 | 12BTB26H | 2012 | 50.80 | 31.75 | 90.47 | 1.74 | 0.77 |
| 27 | 164.09 | 12BTB27H | 2012 | 50.80 | 31.75 | 90.47 | 1.80 | 0.77 |
| 28 | 170.14 | 12BTB28H | 2012 | 50.80 | 31.75 | 90.47 | 2.04 | 0.77 |
| 30 | 182.25 | 12BTB30H | 2012 | 50.80 | 31.75 | 90.47 | 2.32 | 0.77 |
| 32 | 194.35 | 12BTB32 | 2012 | 50.80 | 31.75 | 90.47 | 2.48 | 0.77 |
| 35 | 212.52 | 12BTB35 | 2012 | 50.80 | 31.75 | 90.47 | 2.71 | 0.77 |
| 36 | 218.57 | 12BTB36 | 2012 | 50.80 | 31.75 | 90.47 | 2.78 | 0.77 |
| 38 | 230.69 | 12BTB38 | 2012 | 50.80 | 31.75 | 90.47 | 3.36 | 0.77 |
| 40 | 242.80 | 12BTB40 | 2012 | 50.80 | 31.75 | 90.47 | 3.53 | 0.77 |
| 42 | 254.92 | 12BTB42 | 2012 | 50.80 | 31.75 | 90.47 | 3.71 | 0.77 |
| 45 | 273.09 | 12BTB45 | 2012 | 50.80 | 31.75 | 90.47 | 3.98 | 0.77 |
| 48 | 291.27 | 12BTB48 | 2012 | 50.80 | 31.75 | 90.47 | 4.24 | 0.77 |
| 54 | 327.63 | 12BTB54 | 2517 | 63.50 | 44.45 | 107.95 | 8.30 | 1.59 |
| 57 | 345.81 | 12BTB57 | 2517 | 63.50 | 44.45 | 107.95 | 8.76 | 1.59 |
| 60 | 363.99 | 12BTB60 | 2517 | 63.50 | 44.45 | 107.95 | 9.22 | 1.59 |
| 68 | 412.49 | 12BTB68 | 2517 | 63.50 | 44.45 | 107.95 | 10.45 | 1.59 |
| 70 | 424.61 | 12BTB70 | 2517 | 63.50 | 44.45 | 107.95 | 10.76 | 1.59 |
| 72 | 436.73 | 12BTB72 | 2517 | 63.50 | 44.45 | 107.95 | 11.06 | 1.59 |
| 76 | 460.98 | 12BTB76 | 2517 | 63.50 | 44.45 | 107.95 | 11.68 | 1.59 |
| 84 | 509.48 | 12BTB84 | 2517 | 63.50 | 44.45 | 107.95 | 12.91 | 1.59 |
| 95 | 576.17 | 12BTB95 | 2517 | 63.50 | 44.45 | 107.95 | 14.60 | 1.59 |
| 96 | 582.23 | 12BTB96 | 2517 | 63.50 | 44.45 | 107.95 | 14.75 | 1.59 |
| 114 | 691.36 | 12BTB114 | 2517 | 63.50 | 44.45 | 107.95 | 17.52 | 1.59 |

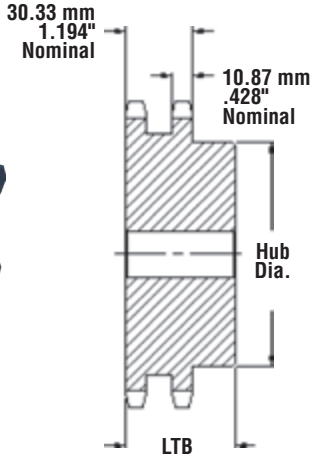
Sprockets with “H” suffix have hardened teeth.

# Metric Sprockets

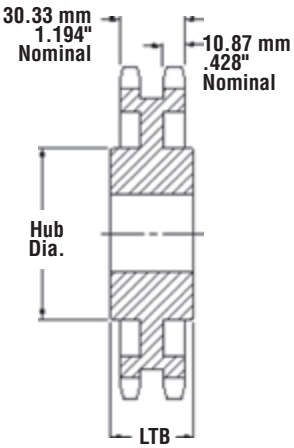
# ISO 12B-2
## METRIC 60-2

## 0.625 INCH (15.88 MM) PITCH DUPLEX

**CHAIN DATA:**
BS 228/13
ISO 12B-2
PITCH: 19.05 mm (0.750")
ROLLER DIAMETER: 12.07 mm (0.475")
ROLLER WIDTH: 11.68 mm (0.460")
TENSILE: 5,900 kilos (13,000 lbs.)



Type B



Type C

## Duplex - Type B/C — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (Inches) | | Hub (Inches) | | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | |
| 11 | 67.62 | D12B11 | 16 | 32 | 47 | 50 | 1.00 |
| 12 | 73.60 | D12B12 | 16 | 36 | 53 | 50 | 1.23 |
| 13 | 79.60 | D12B13 | 16 | 38 | 59 | 50 | 1.41 |
| 14 | 85.61 | D12B14 | 16 | 42 | 65 | 50 | 1.68 |
| 15 | 91.63 | D12B15 | 16 | 45 | 71 | 50 | 1.95 |
| 16 | 97.65 | D12B16 | 20 | 51 | 77 | 50 | 2.27 |
| 17 | 103.67 | D12B17 | 20 | 54 | 83 | 50 | 2.63 |
| 18 | 109.70 | D12B18 | 20 | 60 | 89 | 50 | 3.18 |
| 19 | 115.74 | D12B19 | 20 | 62 | 95 | 50 | 3.50 |
| 20 | 121.78 | D12B20 | 20 | 64 | 100 | 50 | 3.72 |
| 21 | 127.82 | D12B21 | 20 | 64 | 100 | 50 | 4.31 |
| 22 | 133.86 | D12B22 | 20 | 64 | 100 | 50 | 4.77 |
| 23 | 139.90 | D12B23 | 20 | 73 | 110 | 50 | 4.99 |
| 24 | 145.95 | D12B24 | 20 | 73 | 110 | 50 | 5.45 |
| 25 | 151.99 | D12B25 | 20 | 80 | 120 | 50 | 5.67 |
| 26 | 158.04 | D12B26 | 20 | 80 | 120 | 50 | 6.13 |
| 27 | 164.09 | D12B27 | 20 | 80 | 120 | 50 | 6.49 |
| 28 | 170.14 | D12B28 | 20 | 80 | 120 | 50 | 6.81 |
| 29 | 176.19 | D12B29 | 20 | 80 | 120 | 50 | 7.13 |
| 30 | 182.25 | D12B30 | 20 | 80 | 120 | 50 | 7.49 |
| 32 | 194.35 | D12B32 | 20 | 85 | 130 | 50 | 9.31 |
| 35 | 212.52 | D12B35 | 20 | 85 | 130 | 50 | 10.18 |
| 36 | 218.57 | D12B36 | 25 | 85 | 130 | 50 | 12.31 |
| 38 | 230.69 | D12B38 | 25 | 85 | 130 | 50 | 12.99 |
| 40 | 242.80 | D12B40 | 25 | 85 | 130 | 50 | 13.67 |
| 45 | 273.09 | D12B45 | 25 | 85 | 130 | 50 | 15.38 |
| 48 | 291.27 | D12B48 | 25 | 85 | 130 | 50 | 16.41 |
| 57 | 345.81 | D12B57 | 32 | 85 | 130 | 65 | 25.34 |
| 60 | 363.99 | D12B60 | 32 | 85 | 130 | 65 | 26.67 |
| 68 | 412.49 | D12C68 | 32 | 85 | 130 | 75 | 30.48 |
| 76 | 460.98 | D12C76 | 40 | 85 | 130 | 75 | 25.63 |
| 80 | 485.23 | D12C80 | 40 | 85 | 130 | 75 | 26.98 |
| 95 | 576.17 | D12C95 | 40 | 93 | 140 | 85 | 39.24 |
| 96 | 582.23 | D12C96 | 40 | 93 | 140 | 85 | 39.65 |
| 114 | 691.36 | D12C114 | 40 | 93 | 140 | 85 | 41.86 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

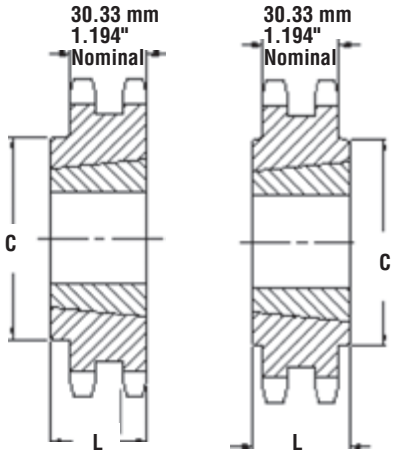
# ISO 12B-2
## METRIC 60-2

**Metric Sprockets**

Martin

## 0.750 INCH (19.05 MM) PITCH DUPLEX

**CHAIN DATA:**
BS 228/13
ISO 12B-2
PITCH: 19.05 mm (0.750")
ROLLER DIAMETER: 12.07 mm (0.475")
ROLLER WIDTH: 11.68 mm (0.460")
TENSILE: 5,900 kilos (13000 lbs.)



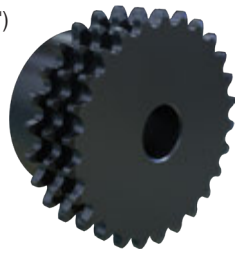

Type B  Type C

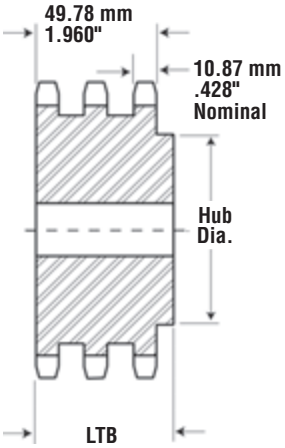
## Duplex - Taper Bushed — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bushing | Max. Bore. (mm) | Dimensions | | Weight (Approx.) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | L (mm) | C (mm) | Rim (kg) | Bushing (kg) |
| 12 | 73.60 | D12BTB12 | 1215 | 31.75 | 38.10 | 53.54 | 0.61 | 0.73 |
| 13 | 79.60 | D12BTB13 | 1215 | 31.75 | 38.10 | 59.74 | 0.66 | 0.77 |
| 14 | 85.61 | D12BTB14 | 1215 | 31.75 | 38.10 | 65.91 | 0.84 | 0.82 |
| 15 | 91.63 | D12BTB15 | 1615 | 41.28 | 38.10 | 72.09 | 0.70 | 0.77 |
| 16 | 97.65 | D12BTB16 | 1615 | 41.28 | 38.10 | 76.20 | 1.11 | 0.77 |
| 17 | 103.67 | D12BTB17 | 1615 | 41.28 | 38.10 | 82.93 | 1.25 | 0.77 |
| 18 | 109.70 | D12BTB18 | 2012 | 50.80 | 31.75 | 90.50 | 1.56 | 0.77 |
| 19 | 115.74 | D12BTB19 | 2012 | 50.80 | 31.75 | 96.6 | 1.81 | 0.77 |
| 20 | 121.78 | D12BTB20 | 2517 | 63.50 | 44.45 | 102.00 | 2.04 | 1.59 |
| 21 | 127.82 | D12BTB21 | 2517 | 63.50 | 44.45 | 107.95 | 2.50 | 1.59 |
| 22 | 133.86 | D12BTB22 | 2517 | 63.50 | 44.45 | 107.95 | 2.78 | 1.59 |
| 23 | 139.90 | D12BTB23 | 2517 | 63.50 | 44.45 | 107.95 | 3.07 | 1.59 |
| 24 | 145.95 | D12BTB24 | 2517 | 63.50 | 44.45 | 107.95 | 3.35 | 1.59 |
| 25 | 151.99 | D12BTB25 | 2517 | 63.50 | 44.45 | 107.95 | 3.63 | 1.59 |
| 26 | 158.04 | D12BTB26 | 2517 | 63.50 | 44.45 | 107.95 | 3.91 | 1.59 |
| 27 | 164.09 | D12BTB27 | 2517 | 63.50 | 44.45 | 107.95 | 4.20 | 1.59 |
| 28 | 170.14 | D12BTB28 | 2517 | 63.50 | 44.45 | 107.95 | 4.48 | 1.59 |
| 30 | 182.25 | D12BTB30 | 2517 | 63.50 | 44.45 | 107.95 | 5.04 | 1.59 |
| 32 | 194.35 | D12BTB32 | 2517 | 63.50 | 44.45 | 107.95 | 5.61 | 1.59 |
| 35 | 212.52 | D12BTB35 | 2517 | 63.50 | 44.45 | 107.95 | 6.46 | 1.59 |
| 38 | 230.69 | D12CTB38 | 2517 | 63.50 | 44.45 | 107.95 | 8.40 | 1.59 |
| 40 | 242.80 | D12CTB40 | 2517 | 63.50 | 44.45 | 107.95 | 9.56 | 1.59 |
| 42 | 254.92 | D12CTB42 | 2517 | 63.50 | 44.45 | 107.95 | 10.73 | 1.59 |
| 45 | 273.09 | D12CTB45 | 2517 | 63.50 | 44.45 | 107.95 | 12.48 | 1.59 |
| 48 | 291.27 | D12CTB48 | 2517 | 63.50 | 44.45 | 107.95 | 14.23 | 1.59 |
| 54 | 327.63 | D12CTB54 | 2517 | 63.50 | 44.45 | 107.95 | 17.73 | 1.59 |
| 57 | 345.81 | D12CTB57 | 2517 | 63.50 | 44.45 | 107.95 | 19.48 | 1.59 |
| 60 | 363.99 | D12CTB60 | 2517 | 63.50 | 44.45 | 107.95 | 21.23 | 1.59 |
| 65 | 394.30 | D12CTB65 | 2517 | 63.50 | 44.45 | 107.95 | 24.15 | 1.59 |
| 70 | 424.61 | D12CTB70 | 2517 | 63.50 | 44.45 | 107.95 | 27.06 | 1.59 |
| 75 | 454.92 | D12CTB75 | 3020 | 76.20 | 50.80 | 133.35 | 19.27 | 2.95 |
| 76 | 460.98 | D12CTB76 | 3020 | 76.20 | 50.80 | 133.35 | 19.52 | 2.95 |
| 84 | 509.48 | D12CTB84 | 3020 | 76.20 | 50.80 | 133.35 | 21.58 | 2.95 |
| 95 | 576.17 | D12CTB95 | 3020 | 76.20 | 50.80 | 133.35 | 24.40 | 2.95 |
| 96 | 582.23 | D12CTB96 | 3020 | 76.20 | 50.80 | 133.35 | 24.66 | 2.95 |
| 114 | 691.36 | D12CTB114 | 3020 | 76.20 | 50.80 | 133.35 | 29.28 | 2.95 |

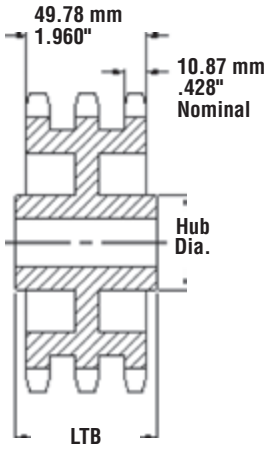
# 0.750 INCH (19.05 MM) PITCH TRIPLEX

**CHAIN DATA:**
BS 228/13
ISO 12B-3
PITCH: 19.05 mm (0.750")
ROLLER DIAMETER: 12.07 mm (0.475")
ROLLER WIDTH: 11.68 mm (0.460")
TENSILE: 8,850 kilos (19,500 lbs.)






Type B




Type C

## Triplex - Type B/C — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (Inches) | | Hub (Inches) | | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | |
| 11 | 67.62 | E12B11 | 20 | 32 | 47 | 70 | 1.13 |
| 12 | 73.60 | E12B12 | 20 | 36 | 53 | 70 | 1.50 |
| 13 | 79.60 | E12B13 | 20 | 38 | 59 | 70 | 1.77 |
| 14 | 85.61 | E12B14 | 20 | 42 | 65 | 70 | 2.04 |
| 15 | 91.63 | E12B15 | 20 | 45 | 71 | 70 | 2.45 |
| 16 | 97.65 | E12B16 | 20 | 51 | 77 | 70 | 2.95 |
| 17 | 103.67 | E12B17 | 20 | 54 | 83 | 70 | 3.49 |
| 18 | 109.70 | E12B18 | 20 | 60 | 89 | 70 | 3.86 |
| 19 | 115.74 | E12B19 | 20 | 62 | 95 | 70 | 4.54 |
| 20 | 121.78 | E12B20 | 20 | 64 | 100 | 70 | 5.08 |
| 21 | 127.82 | E12B21 | 20 | 64 | 100 | 70 | 5.67 |
| 22 | 133.86 | E12B22 | 20 | 64 | 100 | 70 | 5.99 |
| 23 | 139.90 | E12B23 | 20 | 73 | 110 | 70 | 6.62 |
| 24 | 145.95 | E12B24 | 20 | 73 | 110 | 70 | 7.17 |
| 25 | 151.99 | E12B25 | 20 | 80 | 120 | 70 | 7.71 |
| 26 | 158.04 | E12B26 | 20 | 80 | 120 | 70 | 8.44 |
| 27 | 164.09 | E12B27 | 20 | 80 | 120 | 70 | 8.99 |
| 28 | 170.14 | E12B28 | 20 | 80 | 120 | 70 | 9.49 |
| 29 | 176.19 | E12B29 | 20 | 80 | 120 | 70 | 9.99 |
| 30 | 182.25 | E12B30 | 20 | 80 | 120 | 70 | 10.53 |
| 35 | 212.52 | E12B35 | 25 | 85 | 130 | 70 | 18.95 |
| 36 | 218.57 | E12B36 | 25 | 85 | 130 | 70 | 19.49 |
| 38 | 230.69 | E12B38 | 25 | 85 | 130 | 70 | 20.57 |
| 45 | 273.10 | E12B45 | 25 | 85 | 130 | 70 | 24.36 |
| 48 | 291.27 | E12B48 | 25 | 85 | 130 | 70 | 25.98 |
| 57 | 345.81 | E12C57 | 32 | 82 | 130 | 85 | 33.73 |
| 60 | 363.99 | E12C60 | 32 | 82 | 130 | 85 | 35.51 |
| 68 | 412.49 | E12C68 | 32 | 82 | 130 | 85 | 40.24 |
| 76 | 460.98 | E12C76 | 40 | 95 | 140 | 85 | 37.19 |
| 80 | 485.23 | E12C80 | 40 | 95 | 140 | 85 | 39.15 |
| 95 | 576.17 | E12C95 | 40 | 95 | 140 | 100 | 47.63 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# ISO 16B-1
## METRIC 80

**Metric Sprockets**

Martin

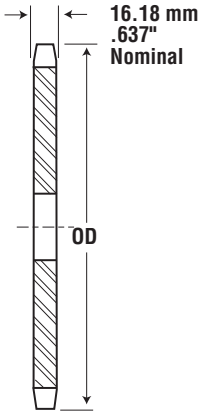
## 1.00 INCH (25.40 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/15
ISO 16B-1
PITCH: 25.40 mm (1.00")
ROLLER DIAMETER: 15.88 mm (0.625")
ROLLER WIDTH: 17.02 mm (0.670")
TENSILE: 4,310 kilos (9,500 lbs.)

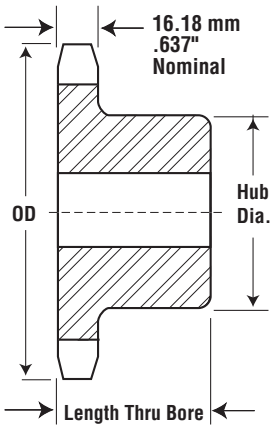
### Simplex - Type B/C — Steel / Type A — Steel

| No. Teeth | Pitch Dia. (mm) | Catalog Number | Bore (mm) Stock | Bore (mm) Max | Hub (mm) Dia. | Hub (mm) LTB | Weight (kg) | Catalog Number | Bore Stock (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 90.16 | 16B11 | 16 | 41 | 63 | 40 | 1.45 | 16A11 | 14 | 0.82 |
| 12 | 98.14 | 16B12 | 16 | 47 | 72 | 40 | 1.82 | 16A12 | 14 | 0.91 |
| 13 | 106.14 | 16B13 | 16 | 52 | 79 | 40 | 1.82 | 16A13 | 14 | 1.04 |
| 14 | 114.15 | 16B14 | 16 | 60 | 88 | 40 | 2.09 | 16A14 | 14 | 1.22 |
| 15 | 122.17 | 16B15 | 16 | 62 | 96 | 40 | 2.59 | 16A15 | 14 | 1.36 |
| 16 | 130.20 | 16B16 | 20 | 67 | 100 | 45 | 3.00 | 16A16 | 14 | 1.54 |
| 17 | 138.23 | 16B17 | 25 | 67 | 102 | 45 | 3.18 | 16A17 | 14 | 1.81 |
| 18 | 146.27 | 16B18 | 25 | 70 | 108 | 45 | 3.77 | 16A18 | 24 | 2.00 |
| 19 | 154.32 | 16B19 | 25 | 70 | 108 | 45 | 3.86 | 16A19 | 24 | 2.13 |
| 20 | 162.37 | 16B20 | 25 | 70 | 108 | 45 | 4.09 | 16A20 | 24 | 2.49 |
| 21 | 170.42 | 16B21 | 25 | 70 | 108 | 50 | 4.54 | 16A21 | 24 | 2.63 |
| 22 | 178.48 | 16B22 | 25 | 70 | 108 | 50 | 4.99 | 16A22 | 24 | 2.82 |
| 23 | 186.56 | 16B23 | 25 | 70 | 108 | 50 | 5.08 | 16A23 | 24 | 3.04 |
| 24 | 194.60 | 16B24 | 25 | 70 | 108 | 50 | 5.54 | 16A24 | 24 | 3.45 |
| 25 | 202.66 | 16B25 | 25 | 70 | 108 | 50 | 5.76 | 16A25 | 24 | 3.63 |
| 26 | 210.72 | 16B26 | 32 | 80 | 120 | 50 | 7.03 | 16A26 | 30 | 3.90 |
| 27 | 218.79 | 16B27 | 32 | 80 | 120 | 50 | 7.53 | 16A27 | 30 | 4.31 |
| 28 | 226.86 | 16B28 | 32 | 80 | 120 | 50 | 7.58 | 16A28 | 30 | 4.58 |
| 29 | 234.93 | 16B29 | 32 | 80 | 120 | 50 | 7.94 | 16A29 | 30 | 4.81 |
| 30 | 243.00 | 16B30 | 32 | 80 | 120 | 50 | 8.26 | 16A30 | 32 | 5.22 |
| 31 | 251.07 | 16B31 | 32 | 80 | 120 | 50 | 8.62 | 16A31 | 32 | 5.56 |
| 32 | 259.14 | 16B32 | 32 | 80 | 120 | 50 | 8.98 | 16A32 | 32 | 5.90 |
| 33 | 267.21 | 16B33 | 32 | 80 | 120 | 50 | 9.33 | 16A33 | 32 | 6.24 |
| 34 | 275.28 | 16B34 | 32 | 80 | 120 | 50 | 9.69 | 16A34 | 32 | 6.58 |
| 35 | 283.36 | 16B35 | 32 | 80 | 120 | 50 | 10.05 | 16A35 | 32 | 6.92 |
| 36 | 291.43 | 16B36 | 32 | 80 | 120 | 50 | 10.41 | 16A36 | 32 | 7.26 |
| 37 | 299.51 | 16B37 | 32 | 80 | 120 | 50 | 10.76 | 16A37 | 32 | 7.60 |
| 38 | 307.58 | 16B38 | 32 | 80 | 120 | 50 | 11.12 | 16A38 | 32 | 7.94 |
| 39 | 315.66 | 16B39 | 32 | 80 | 120 | 50 | 11.48 | 16A39 | 32 | 8.48 |
| 40 | 323.74 | 16B40 | 32 | 80 | 120 | 50 | 11.83 | 16A40 | 32 | 9.01 |
| 41 | 331.81 | 16B41 | 32 | 80 | 120 | 50 | 12.19 | 16A41 | 32 | 9.55 |
| 42 | 339.89 | 16B42 | 32 | 80 | 120 | 50 | 12.55 | 16A42 | 32 | 10.09 |
| 43 | 347.97 | 16B43 | 32 | 80 | 120 | 50 | 12.91 | 16A43 | 32 | 10.62 |
| 44 | 356.05 | 16B44 | 32 | 80 | 120 | 50 | 13.27 | 16A44 | 32 | 11.16 |
| 45 | 364.12 | 16B45 | 32 | 80 | 120 | 50 | 13.62 | 16A45 | 32 | 11.70 |
| 46 | 372.20 | 16B46 | 32 | 80 | 120 | 50 | 13.98 | 16A46 | 32 | 12.23 |
| 47 | 380.28 | 16B47 | 32 | 80 | 120 | 50 | 14.34 | 16A47 | 32 | 12.77 |
| 48 | 388.36 | 16B48 | 32 | 80 | 120 | 50 | 14.70 | 16A48 | 32 | 12.31 |
| 49 | 396.44 | 16B49 | 32 | 80 | 120 | 50 | 15.05 | 16A49 | 32 | 13.85 |
| 50 | 404.52 | 16B50 | 32 | 80 | 120 | 50 | 15.41 | 16A50 | 32 | 14.38 |
| 54 | 436.84 | 16B54 | 32 | 85 | 130 | 50 | 20.99 | 16A54 | 32 | 16.53 |
| 57 | 461.08 | 16B57 | 32 | 85 | 130 | 50 | 22.16 | 16A57 | 32 | 18.14 |
| 60 | 485.33 | 16B60 | 32 | 85 | 130 | 50 | 23.33 | 16A60 | 32 | 19.75 |
| 65 | 525.73 | 16B65 | 32 | 85 | 130 | 50 | 25.27 | 16A65 | 32 | 22.43 |
| 70 | 566.15 | 16C70 | 40 | 108 | 159 | 90 | 33.59 | 16A70 | 40 | 25.47 |
| 72 | 582.31 | 16C72 | 40 | 108 | 159 | 90 | 35.48 | 16A72 | 40 | 27.94 |
| 76 | 614.64 | 16C76 | 40 | 108 | 159 | 90 | 39.24 | 16A76 | 40 | 32.89 |
| 80 | 646.97 | 16C80 | 40 | 108 | 159 | 90 | 43.00 | 16A80 | 40 | 37.84 |
| 84 | 679.30 | 16C84 | 40 | 108 | 159 | 90 | 46.77 | 16A84 | 40 | 42.78 |
| 90 | 727.80 | 16C90 | 40 | 108 | 159 | 90 | 52.41 | 16A90 | 40 | 50.21 |
| 95 | 768.22 | 16C95 | 40 | 108 | 159 | 90 | 57.12 | 16A95 | 40 | 56.39 |
| 96 | 766.31 | 16C96 | 40 | 108 | 159 | 90 | 58.06 | 16A96 | 40 | 57.63 |
| 114 | 921.81 | 16C114 | 40 | 108 | 159 | 90 | 75.00 | 16A114 | 40 | 76.36 |

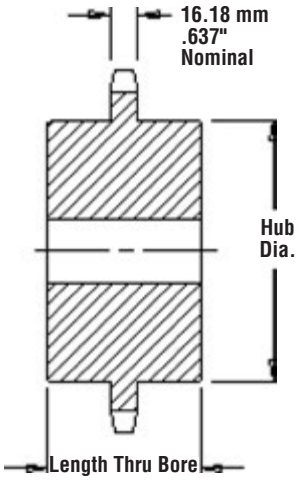
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.




Type A




Type B



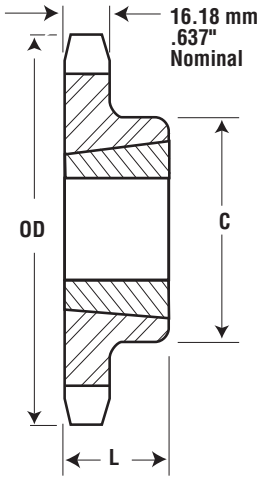

Type C

# Metric Sprockets

# ISO 16B-1
## METRIC 80

## 1.00 INCH (25.40 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/15
ISO 16B-1
PITCH: 25.40 mm (1.00")
ROLLER DIAMETER: 15.88 mm (0.625")
ROLLER WIDTH: 17.02 mm (0.670")
TENSILE: 4,310 KILOS (9,500 lbs.)




Type B

## Simplex - Taper Bushed — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bushing | Max. Bore (mm) | Dimensions | | Weight (Approx.) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | L (mm) | C (mm) | Rim (kg) | Bushing (kg) |
| 10 | 82.20 | 16BTB10H | 1215 | 31.75 | 38.10 | 62.69 | 0.73 | 0.36 |
| 11 | 90.16 | 16BTB11H | 1215 | 31.75 | 38.10 | 62.69 | 0.91 | 0.36 |
| 12 | 98.14 | 16BTB12H | 1615 | 41.28 | 38.10 | 76.20 | 1.04 | 0.54 |
| 13 | 106.14 | 16BTB13H | 1615 | 41.28 | 38.10 | 76.20 | 1.27 | 0.54 |
| 14 | 114.15 | 16BTB14H | 1615 | 41.28 | 38.10 | 82.55 | 1.36 | 0.54 |
| 15 | 122.17 | 16BTB15H | 1615 | 41.28 | 38.10 | 82.55 | 1.45 | 0.54 |
| 16 | 130.20 | 16BTB16H | 2012 | 50.80 | 31.75 | 90.47 | 1.55 | 0.77 |
| 17 | 138.23 | 16BTB17H | 2012 | 50.80 | 31.75 | 90.47 | 1.69 | 0.77 |
| 18 | 146.27 | 16BTB18H | 2012 | 50.80 | 31.75 | 90.47 | 1.46 | 0.77 |
| 19 | 154.32 | 16BTB19H | 2012 | 50.80 | 31.75 | 90.47 | 2.14 | 0.77 |
| 20 | 162.37 | 16BTB20H | 2517 | 63.50 | 44.45 | 107.95 | 2.72 | 1.59 |
| 21 | 170.42 | 16BTB21H | 2517 | 63.50 | 44.45 | 107.95 | 2.95 | 1.59 |
| 22 | 178.48 | 16BTB22H | 2517 | 63.50 | 44.45 | 107.95 | 3.18 | 1.59 |
| 23 | 186.54 | 16BTB23H | 2517 | 63.50 | 44.45 | 107.95 | 3.40 | 1.59 |
| 24 | 194.60 | 16BTB24H | 2517 | 63.50 | 44.45 | 107.95 | 3.63 | 1.59 |
| 25 | 202.66 | 16BTB25H | 2517 | 63.50 | 44.45 | 107.95 | 3.90 | 1.59 |
| 26 | 210.72 | 16BTB26H | 2517 | 63.50 | 44.45 | 107.95 | 4.22 | 1.59 |
| 27 | 218.79 | 16BTB27H | 2517 | 63.50 | 44.45 | 107.95 | 4.31 | 1.59 |
| 28 | 226.86 | 16BTB28H | 2517 | 63.50 | 44.45 | 107.95 | 4.54 | 1.59 |
| 30 | 243.00 | 16BTB30H | 2517 | 63.50 | 44.45 | 107.95 | 5.44 | 1.59 |
| 32 | 259.14 | 16BTB32 | 2517 | 63.50 | 44.45 | 107.95 | 5.67 | 1.59 |
| 35 | 283.36 | 16BTB35 | 2517 | 63.50 | 44.45 | 107.95 | 7.12 | 1.59 |
| 36 | 291.43 | 16BTB36 | 2517 | 63.50 | 44.45 | 107.95 | 7.94 | 1.59 |
| 38 | 307.58 | 16BTB38 | 2517 | 63.50 | 44.45 | 107.95 | 8.85 | 1.59 |
| 40 | 323.74 | 16BTB40 | 2517 | 63.50 | 44.45 | 107.95 | 9.75 | 1.59 |
| 45 | 364.12 | 16BTB45 | 2517 | 63.50 | 44.45 | 107.95 | 12.25 | 1.59 |
| 48 | 388.36 | 16BTB48 | 2517 | 63.50 | 44.45 | 107.95 | 13.61 | 1.59 |
| 54 | 436.84 | 16BTB54 | 2517 | 63.50 | 44.45 | 107.95 | 17.69 | 1.59 |
| 57 | 461.07 | 16BTB57 | 2517 | 63.50 | 44.45 | 107.95 | 19.16 | 1.59 |
| 60 | 485.33 | 16BTB60 | 2517 | 63.50 | 44.45 | 107.95 | 20.64 | 1.59 |
| 64 | 517.65 | 16BTB64 | 3020 | 76.20 | 50.80 | 133.35 | 19.35 | 2.95 |
| 70 | 566.15 | 16BTB70 | 3020 | 76.20 | 50.80 | 133.35 | 23.95 | 2.95 |
| 76 | 614.64 | 16BTB76 | 3020 | 76.20 | 50.80 | 133.35 | 28.55 | 2.95 |
| 80 | 646.97 | 16BTB80 | 3020 | 76.20 | 50.80 | 133.35 | 31.62 | 2.95 |
| 84 | 679.30 | 16BTB84 | 3020 | 76.20 | 50.80 | 133.35 | 34.68 | 2.95 |
| 95 | 768.22 | 16BTB95 | 3020 | 76.20 | 50.80 | 133.35 | 41.58 | 2.95 |
| 114 | 921.81 | 16BTB114 | 3020 | 76.20 | 50.80 | 133.35 | 56.15 | 2.95 |

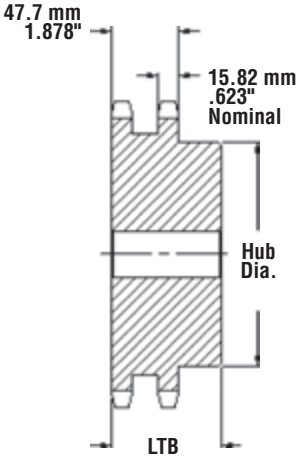
Sprockets with "H" suffix have hardened teeth.

# ISO 16B-2
## METRIC 80-2

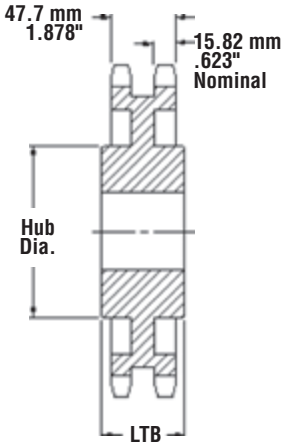
**Metric Sprockets**

## 1.00 INCH (25.40 MM) PITCH DUPLEX

**CHAIN DATA:**
BS 228/15
ISO 16B-2
PITCH: 25.40 mm (1.00")
ROLLER DIAMETER: 15.88 mm (0.625")
ROLLER WIDTH: 17.02 mm (0.670")
TENSILE: 8,620 kilos (19,000 lbs.)



Type B



Type C

## Duplex - Type B/C — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (Inches) | | Hub (Inches) | | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | |
| 11 | 90.16 | D16B11 | 20 | 42 | 63 | 70 | 1.82 |
| 12 | 98.14 | D16B12 | 20 | 45 | 72 | 70 | 2.36 |
| 13 | 106.14 | D16B13 | 20 | 52 | 80 | 70 | 2.95 |
| 14 | 114.15 | D16B14 | 20 | 53 | 88 | 70 | 3.50 |
| 15 | 122.17 | D16B15 | 20 | 62 | 96 | 70 | 4.18 |
| 16 | 130.20 | D16B16 | 20 | 66 | 104 | 70 | 5.22 |
| 17 | 138.23 | D16B17 | 20 | 74 | 112 | 70 | 5.99 |
| 18 | 146.27 | D16B18 | 20 | 80 | 120 | 70 | 6.81 |
| 19 | 154.32 | D16B19 | 20 | 84 | 128 | 70 | 7.71 |
| 20 | 162.37 | D16B20 | 20 | 85 | 130 | 70 | 8.26 |
| 21 | 170.42 | D16B21 | 25 | 85 | 130 | 70 | 8.85 |
| 22 | 178.28 | D16B22 | 25 | 85 | 130 | 70 | 9.53 |
| 23 | 186.54 | D16B23 | 25 | 85 | 130 | 70 | 10.43 |
| 24 | 194.60 | D16B24 | 25 | 85 | 130 | 70 | 11.44 |
| 25 | 202.66 | D16B25 | 25 | 85 | 130 | 70 | 12.47 |
| 26 | 210.72 | D16B26 | 25 | 85 | 130 | 70 | 13.62 |
| 27 | 218.79 | D16B27 | 25 | 85 | 130 | 70 | 14.75 |
| 28 | 226.86 | D16B28 | 25 | 85 | 130 | 70 | 15.89 |
| 29 | 234.93 | D16B29 | 25 | 85 | 130 | 70 | 17.02 |
| 30 | 243.00 | D16B30 | 25 | 95 | 145 | 75 | 18.16 |
| 32 | 259.14 | D16B32 | 32 | 95 | 145 | 75 | 19.86 |
| 35 | 283.36 | D16B35 | 32 | 95 | 145 | 75 | 22.27 |
| 36 | 291.43 | D16B36 | 32 | 95 | 145 | 80 | 28.04 |
| 38 | 307.58 | D16B38 | 32 | 95 | 145 | 80 | 29.60 |
| 42 | 339.89 | D16B42 | 40 | 95 | 145 | 80 | 32.20 |
| 45 | 364.12 | D16C45 | 40 | 95 | 145 | 95 | 34.35 |
| 57 | 461.07 | D16C57 | 40 | 95 | 145 | 95 | 38.18 |
| 60 | 485.33 | D16C60 | 40 | 95 | 145 | 95 | 42.77 |
| 68 | 549.98 | D16C68 | 40 | 96 | 153 | 102 | 43.86 |
| 76 | 614.64 | D16C76 | 40 | 96 | 152 | 102 | 68.11 |
| 80 | 646.97 | D16C80 | 40 | 102 | 152 | 108 | 54.88 |
| 95 | 768.22 | D16C95 | 40 | 102 | 152 | 108 | 72.57 |
| 114 | 921.81 | D16C114 | 40 | 102 | 152 | 108 | 78.22 |

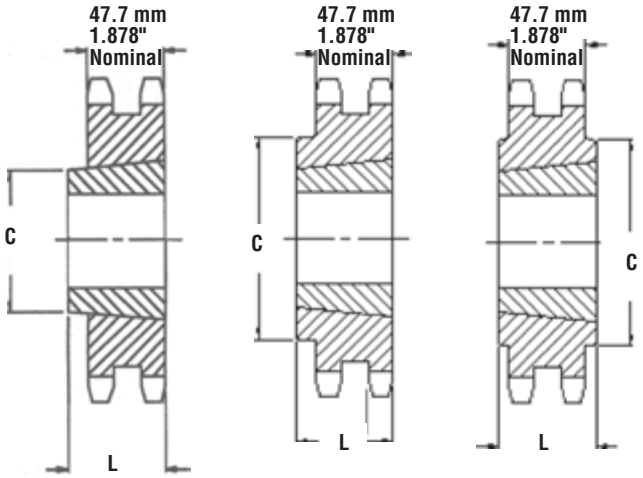
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Metric Sprockets

# ISO 16B-2
## METRIC 80-2

## 1.00 INCH (25.40 MM) PITCH DUPLEX

**CHAIN DATA:**
BS 228/15
ISO 16B-2
PITCH: 25.40 mm (1.00")
ROLLER DIAMETER: 15.88 mm (0.625")
ROLLER WIDTH: 17.02 mm (0.670")
TENSILE: 8,620 kilos (19,000 lbs.)




## Duplex - Taper Bushed — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bushing | Max. Bore. (mm) | Dimensions | | Weight (Approx.) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | L (mm) | C (mm) | Rim (kg) | Bushing (kg) |
| 13 | 106.14 | D16ATB13 | 1615 | 41.28 | 38.10 | – | 1.54 | 0.77 |
| 14 | 114.15 | D16ATB14 | 2012 | 50.80 | 31.75 | – | 1.68 | 0.77 |
| 15 | 122.17 | D16ATB15 | 2012 | 50.80 | 31.75 | – | 2.04 | 0.77 |
| 16 | 130.20 | D16ATB16 | 2012 | 50.80 | 31.75 | – | 2.27 | 0.77 |
| 17 | 138.23 | D16ATB17 | 2517 | 63.50 | 44.45 | – | 2.50 | 1.59 |
| 18 | 146.27 | D16ATB18 | 2517 | 63.50 | 44.45 | – | 2.64 | 1.59 |
| 19 | 154.32 | D16BTB19 | 3020 | 76.20 | 50.80 | 127.00 | 3.18 | 2.95 |
| 20 | 162.37 | D16BTB20 | 3020 | 76.20 | 50.80 | 133.35 | 3.45 | 2.95 |
| 21 | 170.42 | D16BTB21 | 3020 | 76.20 | 50.80 | 141.28 | 4.09 | 2.95 |
| 22 | 178.48 | D16BTB22 | 3020 | 76.20 | 50.80 | 149.23 | 4.73 | 2.95 |
| 23 | 186.54 | D16BTB23 | 3020 | 76.20 | 50.80 | 158.34 | 5.48 | 2.95 |
| 24 | 194.60 | D16BTB24 | 3020 | 76.20 | 50.80 | 166.68 | 6.34 | 2.95 |
| 25 | 202.66 | D16BTB25 | 3020 | 76.20 | 50.80 | 174.63 | 7.72 | 2.95 |
| 26 | 210.72 | D16BTB26 | 3020 | 76.20 | 50.80 | 182.56 | 8.36 | 2.95 |
| 27 | 218.79 | D16BTB27 | 3020 | 76.20 | 50.80 | 133.35 | 10.22 | 2.95 |
| 28 | 226.86 | D16BTB28 | 3020 | 76.20 | 50.80 | 133.35 | 10.59 | 2.95 |
| 30 | 243.00 | D16CTB30 | 3020 | 76.20 | 50.80 | 133.35 | 11.35 | 2.95 |
| 35 | 283.36 | D16CTB35 | 3020 | 76.20 | 50.80 | 133.35 | 17.88 | 2.95 |
| 38 | 307.58 | D16CTB38 | 3020 | 76.20 | 50.80 | 133.35 | 21.79 | 2.95 |
| 42 | 339.89 | D16CTB42 | 3020 | 76.20 | 50.80 | 133.35 | 22.94 | 2.95 |
| 45 | 364.12 | D16CTB45 | 3020 | 76.20 | 50.80 | 133.35 | 23.80 | 2.95 |
| 57 | 461.08 | D16CTB57 | 3020 | 76.20 | 50.80 | 133.35 | 27.24 | 2.95 |
| 76 | 614.64 | D16CTB76 | 3020 | 76.20 | 50.80 | 133.35 | 37.68 | 2.95 |
| 95 | 768.22 | D16CTB95 | 3020 | 76.20 | 50.80 | 133.35 | 43.13 | 2.95 |
| 114 | 921.81 | D16CTB114 | 3020 | 76.20 | 50.80 | 133.35 | 48.58 | 2.95 |

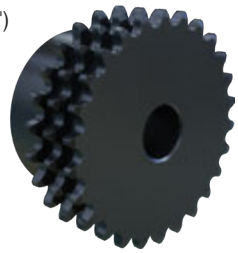
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

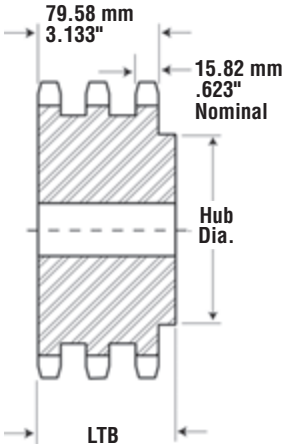
# ISO 16B-3
## METRIC 80-3

**Metric Sprockets**

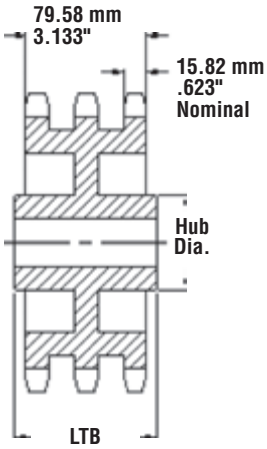
## 1.00 INCH (25.40 MM) PITCH TRIPLEX

**CHAIN DATA:**
BS 228/15
ISO 16B-3
PITCH: 25.40 mm (1.00")
ROLLER DIAMETER: 15.88 mm (0.625")
ROLLER WIDTH: 17.02 mm (0.670")
TENSILE: 12,930 kilos (28,500 lbs.)






Type B




Type C

## Triplex - Type B/C — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (Inches) | | Hub (Inches) | | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | |
| 11 | 90.16 | E16B11 | 25 | 42 | 63 | 100 | 2.72 |
| 12 | 98.14 | E16B12 | 25 | 45 | 72 | 100 | 3.59 |
| 13 | 106.14 | E16B13 | 25 | 52 | 80 | 100 | 4.13 |
| 14 | 114.15 | E16B14 | 25 | 58 | 88 | 100 | 4.68 |
| 15 | 122.17 | E16B15 | 25 | 62 | 96 | 100 | 5.54 |
| 16 | 130.20 | E16B16 | 30 | 66 | 104 | 100 | 6.81 |
| 17 | 138.23 | E16B17 | 30 | 74 | 112 | 100 | 8.07 |
| 18 | 146.27 | E16B18 | 30 | 80 | 120 | 100 | 9.99 |
| 19 | 154.32 | E16B19 | 30 | 84 | 128 | 100 | 10.89 |
| 20 | 162.37 | E16B20 | 30 | 85 | 130 | 100 | 11.80 |
| 21 | 170.42 | E16B21 | 30 | 85 | 130 | 100 | 13.61 |
| 22 | 178.48 | E16B22 | 30 | 85 | 130 | 100 | 14.07 |
| 23 | 186.54 | E16B23 | 30 | 85 | 130 | 100 | 14.97 |
| 24 | 194.60 | E16B24 | 30 | 85 | 130 | 100 | 16.34 |
| 25 | 202.66 | E16B25 | 30 | 85 | 130 | 100 | 17.70 |
| 26 | 210.72 | E16B26 | 30 | 85 | 130 | 100 | 19.98 |
| 27 | 218.79 | E16B27 | 30 | 85 | 130 | 100 | 21.57 |
| 28 | 226.86 | E16B28 | 30 | 85 | 130 | 100 | 23.15 |
| 29 | 234.93 | E16B29 | 30 | 85 | 130 | 100 | 24.74 |
| 30 | 243.00 | E16B30 | 32 | 95 | 140 | 105 | 26.33 |
| 35 | 283.36 | E16B35 | 32 | 95 | 140 | 105 | 36.06 |
| 36 | 291.43 | E16B36 | 32 | 95 | 140 | 105 | 38.06 |
| 38 | 307.58 | E16C38 | 32 | 97 | 152 | 114 | 41.45 |
| 42 | 339.89 | E16C42 | 40 | 97 | 152 | 114 | 38.51 |
| 45 | 364.12 | E16C45 | 40 | 97 | 152 | 114 | 41.91 |
| 57 | 461.08 | E16C57 | 40 | 107 | 159 | 120 | 51.35 |
| 60 | 485.33 | E16C60 | 40 | 107 | 159 | 120 | 58.06 |
| 68 | 549.98 | E16C68 | 40 | 107 | 159 | 120 | 63.50 |
| 76 | 614.64 | E16C76 | 40 | 107 | 159 | 120 | 77.11 |
| 95 | 768.22 | E16C95 | 40 | 114 | 171 | 127 | 100.70 |
| 114 | 921.81 | E16C114 | 40 | 114 | 171 | 127 | 120.84 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Metric Sprockets

# ISO 20B-1
## METRIC 100

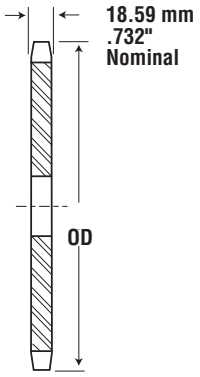
## 1.25 INCH (31.75 MM) PITCH SIMPLEX

### Simplex - Type B/C — Steel / Type A — Steel

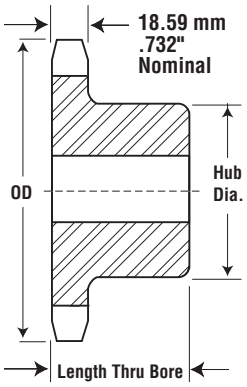
| No. Teeth | Pitch Dia. (mm) | Catalog Number | Bore (mm) Stock | Bore (mm) Max | Hub (mm) Dia. | Hub (mm) LTB | Weight (kg) | Catalog Number | Bore Stock (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 82.97 | 20B8 | 25 | 57 | 48 | 48 | 1.04 | 20A8 | 25 | 0.63 |
| 9 | 92.83 | 20B9 | 25 | 57 | 58 | 48 | 1.45 | 20A9 | 25 | 0.95 |
| 10 | 102.75 | 20B10 | 25 | 60 | 69 | 48 | 1.86 | 20A10 | 25 | 1.27 |
| 11 | 112.70 | 20B11 | 25 | 70 | 79 | 48 | 2.40 | 20A11 | 25 | 1.59 |
| 12 | 122.67 | 20B12 | 25 | 76 | 90 | 48 | 2.95 | 20A12 | 25 | 1.91 |
| 13 | 132.67 | 20B13 | 25 | 76 | 98 | 41 | 3.00 | 20A13 | 25 | 2.18 |
| 14 | 142.68 | 20B14 | 25 | 76 | 106 | 41 | 3.40 | 20A14 | 25 | 2.49 |
| 15 | 152.71 | 20B15 | 25 | 76 | 114 | 44 | 4.31 | 20A15 | 25 | 2.68 |
| 16 | 162.75 | 20B16 | 25 | 76 | 114 | 44 | 4.63 | 20A16 | 24 | 3.08 |
| 17 | 172.79 | 20B17 | 32 | 76 | 114 | 44 | 4.99 | 20A17 | 24 | 3.54 |
| 18 | 182.84 | 20B18 | 32 | 76 | 114 | 44 | 5.44 | 20A18 | 30 | 3.81 |
| 19 | 192.90 | 20B19 | 32 | 76 | 114 | 51 | 5.90 | 20A19 | 30 | 4.31 |
| 20 | 202.96 | 20B20 | 32 | 76 | 114 | 51 | 6.35 | 20A20 | 30 | 4.58 |
| 21 | 213.03 | 20B21 | 32 | 76 | 114 | 51 | 7.03 | 20A21 | 32 | 5.17 |
| 22 | 223.10 | 20B22 | 32 | 76 | 114 | 51 | 7.71 | 20A22 | 32 | 5.72 |
| 23 | 233.17 | 20B23 | 32 | 84 | 114 | 51 | 8.16 | 20A23 | 32 | 5.99 |
| 24 | 243.25 | 20B24 | 32 | 84 | 114 | 51 | 8.62 | 20A24 | 32 | 6.62 |
| 25 | 253.32 | 20B25 | 32 | 84 | 114 | 51 | 9.07 | 20A25 | 32 | 6.94 |
| 26 | 263.41 | 20B26 | 32 | 84 | 127 | 51 | 9.53 | 20A26 | 32 | 7.62 |
| 27 | 273.49 | 20B27 | 32 | 84 | 127 | 51 | 10.43 | 20A27 | 32 | 8.35 |
| 28 | 283.57 | 20B28 | 32 | 84 | 127 | 51 | 11.34 | 20A28 | 32 | 8.85 |
| 29 | 293.66 | 20B29 | 32 | 84 | 127 | 51 | 11.76 | 20A29 | 32 | 9.43 |
| 30 | 303.75 | 20B30 | 32 | 84 | 127 | 51 | 12.02 | 20A30 | 32 | 9.98 |
| 31 | 313.83 | 20B31 | 32 | 84 | 127 | 51 | 12.77 | 20A31 | 32 | 10.73 |
| 32 | 323.92 | 20B32 | 32 | 84 | 127 | 51 | 13.52 | 20A32 | 32 | 11.49 |
| 33 | 334.01 | 20B33 | 32 | 84 | 127 | 51 | 14.59 | 20A33 | 32 | 12.24 |
| 34 | 344.10 | 20B34 | 32 | 84 | 127 | 51 | 15.66 | 20A34 | 32 | 13.00 |
| 35 | 354.20 | 20B35 | 32 | 84 | 127 | 64 | 16.74 | 20A35 | 32 | 13.75 |
| 36 | 364.29 | 20B36 | 32 | 84 | 127 | 64 | 17.51 | 20A36 | 32 | 14.50 |
| 37 | 374.38 | 20B37 | 32 | 84 | 127 | 64 | 18.17 | 20A37 | 32 | 15.25 |
| 38 | 384.48 | 20B38 | 32 | 84 | 127 | 64 | 18.82 | 20A38 | 32 | 16.01 |
| 39 | 394.57 | 20B39 | 32 | 84 | 127 | 64 | 19.78 | 20A39 | 32 | 16.76 |
| 40 | 404.67 | 20B40 | 32 | 84 | 127 | 64 | 21.27 | 20A40 | 32 | 17.52 |
| 41 | 414.77 | 20B41 | 32 | 84 | 127 | 64 | 22.07 | 20A41 | 32 | 18.27 |
| 42 | 424.88 | 20B42 | 32 | 84 | 127 | 64 | 22.86 | 20A42 | 32 | 19.03 |
| 43 | 434.96 | 20B43 | 32 | 84 | 127 | 64 | 23.40 | 20A43 | 32 | 19.78 |
| 44 | 445.06 | 20B44 | 32 | 84 | 127 | 64 | 23.95 | 20A44 | 32 | 20.53 |
| 45 | 455.15 | 20B45 | 32 | 84 | 127 | 64 | 24.49 | 20A45 | 32 | 21.29 |
| 46 | 465.25 | 20B46 | 32 | 84 | 127 | 64 | 26.31 | 20A46 | 32 | 22.04 |
| 47 | 475.35 | 20B47 | 32 | 84 | 127 | 64 | 28.12 | 20A47 | 32 | 22.79 |
| 48 | 485.45 | 20B48 | 40 | 102 | 152 | 64 | 29.94 | 20A48 | 32 | 23.55 |
| 49 | 495.55 | 20B49 | 40 | 102 | 152 | 64 | 31.76 | 20A49 | 32 | 24.30 |
| 50 | 505.65 | 20B50 | 40 | 102 | 152 | 64 | 33.57 | 20A50 | 32 | 25.06 |
| 51 | 515.75 | 20B51 | 40 | 102 | 152 | 64 | 35.39 | 20A51 | 40 | 24.43 |
| 52 | 525.85 | 20B52 | 40 | 102 | 152 | 64 | 37.21 | 20A52 | 40 | 25.85 |
| 53 | 535.95 | 20B53 | 40 | 102 | 152 | 64 | 39.02 | 20A53 | 40 | 27.27 |
| 54 | 546.05 | 20C54 | 40 | 102 | 152 | 82 | 32.90 | 20A54 | 40 | 25.70 |
| 55 | 556.15 | 20C55 | 40 | 102 | 152 | 82 | 34.77 | 20A55 | 40 | 30.12 |
| 56 | 566.25 | 20C56 | 40 | 102 | 152 | 82 | 36.63 | 20A56 | 40 | 31.34 |
| 57 | 576.35 | 20C57 | 40 | 102 | 152 | 82 | 38.50 | 20A57 | 40 | 32.96 |
| 58 | 586.45 | 20C58 | 40 | 102 | 152 | 82 | 40.37 | 20A58 | 40 | 35.80 |
| 59 | 596.56 | 20C59 | 40 | 102 | 152 | 82 | 42.24 | 20A59 | 40 | 37.22 |
| 60 | 606.66 | 20C60 | 40 | 102 | 152 | 82 | 44.10 | 20A60 | 40 | 38.64 |
| 70 | 707.68 | 20C70 | 40 | 133 | 178 | 95 | 65.36 | 20A70 | 40 | 52.85 |
| 72 | 727.89 | 20C72 | 40 | 133 | 178 | 95 | 67.23 | 20A72 | 40 | 55.70 |
| 76 | 768.30 | 20C76 | 40 | 133 | 178 | 95 | 70.98 | 20A76 | 40 | 61.38 |
| 80 | 808.71 | 20C80 | 40 | 133 | 178 | 95 | 74.70 | 20A80 | 40 | 67.06 |
| 84 | 849.13 | 20C84 | 40 | 133 | 178 | 95 | 78.43 | 20A84 | 40 | 72.75 |
| 90 | 909.76 | 20C90 | 40 | 133 | 178 | 95 | 84.03 | 20A90 | 40 | 81.27 |
| 95 | 960.28 | 20C95 | 40 | 133 | 178 | 114 | 117.18 | 20A95 | 40 | 102.42 |
| 96 | 970.38 | 20C96 | 40 | 133 | 178 | 114 | 117.56 | 20A96 | 40 | 103.84 |
| 114 | 1152.27 | 20C114 | 40 | 133 | 178 | 114 | 124.40 | 20A114 | 40 | 130.84 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

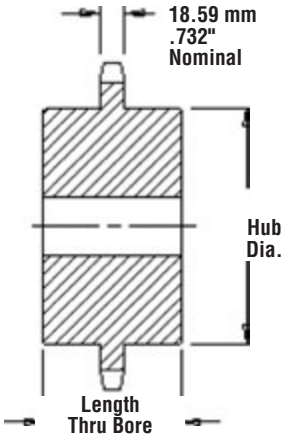
**CHAIN DATA:**
BS 228/17
ISO 20B-1
PITCH: 31.75 mm (1.250")
ROLLER DIAMETER:
19.05 mm (0.750")
ROLLER WIDTH: 19.56 mm (0.770")
TENSILE: 6,580 kilos (14,500 lbs.)




**Type A**




**Type B**



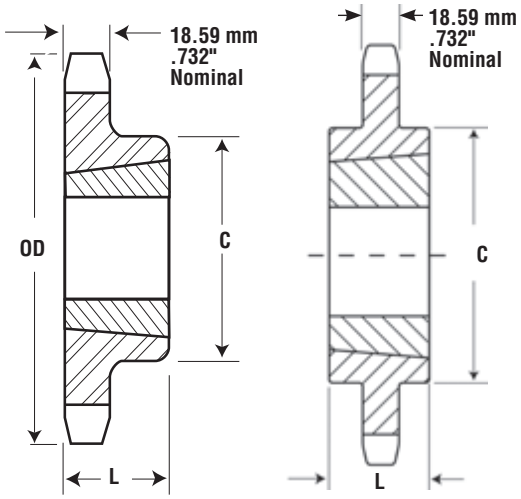

**Type C**

# ISO 20B-1
## METRIC 100

**Metric Sprockets**

## 1.25 INCH (31.75 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/17
ISO 20B1
PITCH: 31.75 mm (1.250")
ROLLER DIAMETER: 19.05 mm (0.750")
ROLLER WIDTH: 19.56 mm (0.770")
TENSILE: 6,580 kilos (14,500 lbs.)




Type B  Type C

## Simplex - Taper Bushed — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bushing | Max. Bore (mm) | Dimensions | | Weight (Approx.) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | L (mm) | C (mm) | Rim (kg) | Bushing (kg) |
| 11 | 112.70 | 20BTB11H | 1615 | 41.28 | 38.10 | 62.69 | 1.22 | 0.54 |
| 12 | 122.67 | 20BTB12H | 1615 | 41.28 | 38.10 | 70.64 | 1.41 | 0.54 |
| 13 | 132.67 | 20BTB13H | 2012 | 50.80 | 31.75 | 90.47 | 1.45 | 0.77 |
| 14 | 142.68 | 20BTB14H | 2012 | 50.80 | 31.75 | 90.47 | 1.63 | 0.77 |
| 15 | 152.71 | 20BTB15H | 2517 | 63.50 | 44.45 | 107.95 | 2.31 | 1.59 |
| 16 | 162.75 | 20BTB16H | 2517 | 63.50 | 44.45 | 107.95 | 2.72 | 1.59 |
| 17 | 172.79 | 20BTB17H | 2517 | 63.50 | 44.45 | 107.95 | 3.27 | 1.59 |
| 18 | 182.84 | 20BTB18H | 2517 | 63.50 | 44.45 | 107.95 | 3.63 | 1.59 |
| 19 | 192.90 | 20BTB19H | 2517 | 63.50 | 44.45 | 107.95 | 4.09 | 1.59 |
| 20 | 202.96 | 20BTB20H | 2517 | 63.50 | 44.45 | 107.95 | 4.40 | 1.59 |
| 21 | 213.03 | 20BTB21H | 2517 | 63.50 | 44.45 | 107.95 | 4.54 | 1.59 |
| 22 | 223.10 | 20BTB22H | 2517 | 63.50 | 44.45 | 107.95 | 4.77 | 1.59 |
| 23 | 233.17 | 20BTB23H | 2517 | 63.50 | 44.45 | 107.95 | 5.58 | 1.59 |
| 24 | 243.25 | 20BTB24H | 2517 | 63.50 | 44.45 | 107.95 | 6.13 | 1.59 |
| 25 | 253.32 | 20BTB25H | 2517 | 63.50 | 44.45 | 107.95 | 6.95 | 1.59 |
| 26 | 263.41 | 20BTB26H | 2517 | 63.50 | 44.45 | 107.95 | 7.35 | 1.59 |
| 28 | 283.57 | 20BTB28H | 3020 | 76.20 | 50.80 | 133.35 | 7.90 | 2.95 |
| 30 | 303.75 | 20BTB30H | 3020 | 76.20 | 50.80 | 133.35 | 9.62 | 2.95 |
| 32 | 323.92 | 20BTB32 | 3020 | 76.20 | 50.80 | 133.35 | 11.03 | 2.95 |
| 35 | 354.20 | 20BTB35 | 3020 | 76.20 | 50.80 | 133.35 | 13.15 | 2.95 |
| 36 | 364.29 | 20BTB36 | 3020 | 76.20 | 50.80 | 133.35 | 13.86 | 2.95 |
| 38 | 384.48 | 20BTB38 | 3020 | 76.20 | 50.80 | 133.35 | 15.98 | 2.95 |
| 40 | 404.67 | 20BTB40 | 3020 | 76.20 | 50.80 | 133.35 | 19.43 | 2.95 |
| 45 | 455.15 | 20BTB45 | 3020 | 76.20 | 50.80 | 133.35 | 25.18 | 2.95 |
| 48 | 485.45 | 20BTB48 | 3020 | 76.20 | 50.80 | 133.35 | 28.62 | 2.95 |
| 54 | 546.05 | 20BTB54 | 3020 | 76.20 | 50.80 | 133.35 | 35.52 | 2.95 |
| 57 | 576.35 | 20BTB57 | 3020 | 76.20 | 50.80 | 133.35 | 37.82 | 2.95 |
| 60 | 606.66 | 20BTB60 | 3020 | 76.20 | 50.80 | 133.35 | 41.27 | 2.95 |
| 70 | 707.68 | 20CTB70 | 3535 | 88.90 | 88.90 | 171.45 | 51.56 | 6.35 |
| 72 | 727.89 | 20CTB72 | 3535 | 88.90 | 88.90 | 171.45 | 53.97 | 6.35 |
| 76 | 768.30 | 20CTB76 | 3535 | 88.90 | 88.90 | 171.45 | 60.33 | 6.35 |
| 80 | 808.71 | 20CTB80 | 3535 | 88.90 | 88.90 | 171.45 | 66.23 | 6.35 |
| 84 | 849.13 | 20CTB84 | 3535 | 88.90 | 88.90 | 171.45 | 73.48 | 6.35 |
| 90 | 909.76 | 20CTB90 | 3535 | 88.90 | 88.90 | 171.45 | 94.33 | 6.35 |
| 95 | 960.28 | 20CTB95 | 3535 | 88.90 | 88.90 | 171.45 | 96.16 | 6.35 |

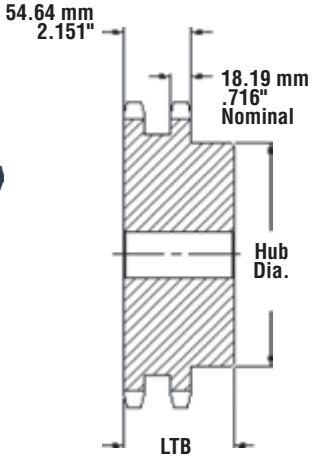
Sprockets with “H” suffix have hardened teeth.

# Metric Sprockets

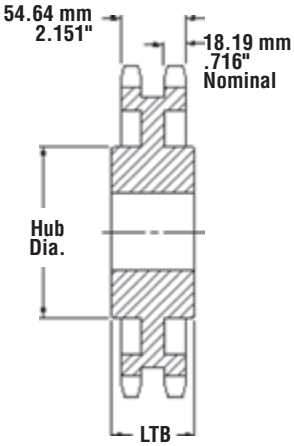
# ISO 20B-2
## METRIC 100-2

## 1.25 INCH (31.75 MM) PITCH DUPLEX

**CHAIN DATA:**
BS 228/17
ISO 20B-2
PITCH: 31.75 mm (1.250")
ROLLER DIAMETER: 19.05 mm (0.750")
ROLLER WIDTH: 19.56 mm (0.770")
TENSILE: 13,160 kilos (29,000 lbs.)



Type B



Type C

## Duplex - Type B/C — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (Inches) | | Hub (Inches) | | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | |
| 10 | 102.75 | D20B10 | 20 | 45 | 69 | 75 | 2.90 |
| 11 | 112.70 | D20B11 | 20 | 52 | 79 | 80 | 3.67 |
| 12 | 122.67 | D20B12 | 20 | 60 | 90 | 80 | 4.31 |
| 13 | 132.67 | D20B13 | 20 | 64 | 100 | 80 | 5.53 |
| 14 | 142.68 | D20B14 | 20 | 73 | 110 | 80 | 6.62 |
| 15 | 152.71 | D20B15 | 20 | 80 | 120 | 80 | 7.76 |
| 16 | 162.75 | D20B16 | 25 | 80 | 120 | 80 | 9.12 |
| 17 | 172.79 | D20B17 | 25 | 80 | 120 | 80 | 10.44 |
| 18 | 182.84 | D20B18 | 25 | 80 | 120 | 80 | 11.71 |
| 19 | 192.90 | D20B19 | 25 | 80 | 120 | 80 | 12.92 |
| 20 | 202.96 | D20B20 | 25 | 80 | 120 | 80 | 15.43 |
| 21 | 213.03 | D20B21 | 25 | 92 | 140 | 80 | 16.55 |
| 22 | 223.10 | D20B22 | 25 | 92 | 140 | 80 | 17.70 |
| 23 | 233.17 | D20B23 | 25 | 92 | 140 | 80 | 19.05 |
| 24 | 243.25 | D20B24 | 32 | 96 | 145 | 80 | 20.43 |
| 25 | 253.32 | D20B25 | 32 | 96 | 145 | 80 | 21.77 |
| 26 | 263.41 | D20B26 | 32 | 96 | 145 | 80 | 23.15 |
| 27 | 273.49 | D20B27 | 32 | 96 | 145 | 80 | 24.97 |
| 28 | 283.57 | D20B28 | 32 | 96 | 145 | 80 | 26.78 |
| 30 | 303.75 | D20B30 | 32 | 96 | 145 | 80 | 30.41 |
| 32 | 323.92 | D20B32 | 32 | 96 | 145 | 80 | 32.22 |
| 35 | 354.20 | D20C35 | 32 | 100 | 152 | 108 | 34.02 |
| 36 | 364.29 | D20C36 | 32 | 100 | 152 | 108 | 34.70 |
| 38 | 384.48 | D20C38 | 32 | 100 | 152 | 114 | 43.72 |
| 42 | 424.86 | D20C42 | 40 | 100 | 152 | 114 | 43.55 |
| 45 | 455.15 | D20C45 | 40 | 100 | 152 | 114 | 46.72 |
| 57 | 576.35 | D20C57 | 40 | 100 | 191 | 127 | 64.10 |
| 60 | 606.66 | D20C60 | 40 | 125 | 191 | 127 | 79.38 |
| 68 | 687.48 | D20C68 | 40 | 125 | 191 | 127 | 87.74 |
| 76 | 768.30 | D20C76 | 40 | 125 | 191 | 127 | 96.11 |
| 80 | 808.71 | D20C80 | 40 | 125 | 191 | 127 | 100.30 |
| 95 | 960.28 | D20C95 | 40 | 125 | 191 | 127 | 115.98 |
| 114 | 1152.26 | D20C114 | 40 | 125 | 191 | 127 | 135.85 |

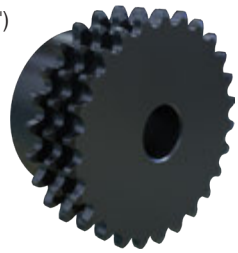
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

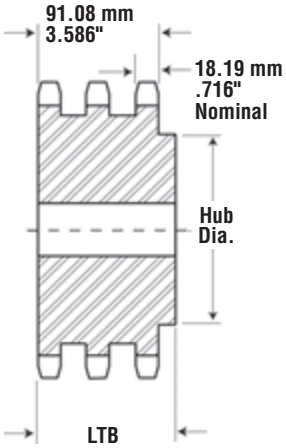
# ISO 20B-3
## METRIC 100-3

**Metric Sprockets**

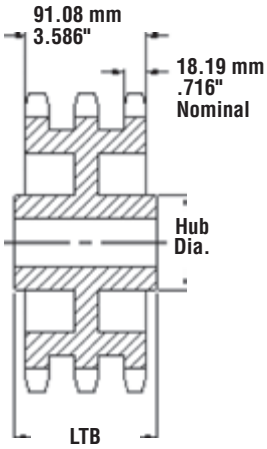
## 1.25 INCH (31.75 MM) PITCH TRIPLEX

**CHAIN DATA:**
BS 228/17
ISO 20B-3
PITCH: 31.75 mm (1.250")
ROLLER DIAMETER: 19.05 mm (0.750")
ROLLER WIDTH: 19.56 mm (0.770")
TENSILE: 19,740 kilos (43,500 lbs.)






Type B




Type C

## Triplex - Type B/C — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (Inches) | | Hub (Inches) | | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | |
| 10 | 102.75 | E20B10 | 25 | 47 | 69 | 110 | 3.95 |
| 11 | 112.70 | E20B11 | 25 | 52 | 79 | 115 | 5.26 |
| 12 | 122.67 | E20B12 | 25 | 60 | 90 | 115 | 6.21 |
| 13 | 132.67 | E20B13 | 25 | 64 | 100 | 115 | 9.26 |
| 14 | 142.68 | E20B14 | 25 | 73 | 110 | 115 | 9.76 |
| 15 | 152.71 | E20B15 | 25 | 80 | 120 | 115 | 10.81 |
| 16 | 162.75 | E20B16 | 25 | 80 | 120 | 115 | 12.76 |
| 17 | 172.79 | E20B17 | 25 | 80 | 120 | 115 | 14.76 |
| 18 | 182.84 | E20B18 | 25 | 80 | 120 | 115 | 16.71 |
| 19 | 192.90 | E20B19 | 25 | 80 | 120 | 115 | 19.13 |
| 20 | 202.96 | E20B20 | 25 | 80 | 120 | 115 | 21.57 |
| 21 | 213.03 | E20B21 | 25 | 92 | 140 | 115 | 23.36 |
| 22 | 223.10 | E20B22 | 25 | 92 | 140 | 115 | 25.65 |
| 23 | 233.17 | E20B23 | 25 | 92 | 140 | 115 | 27.90 |
| 24 | 243.25 | E20B24 | 32 | 95 | 145 | 120 | 27.19 |
| 25 | 253.32 | E20B25 | 32 | 95 | 145 | 120 | 27.90 |
| 26 | 263.41 | E20B26 | 32 | 95 | 145 | 120 | 31.90 |
| 27 | 273.49 | E20B27 | 32 | 95 | 145 | 120 | 35.90 |
| 28 | 283.57 | E20B28 | 32 | 95 | 145 | 120 | 39.90 |
| 30 | 303.75 | E20B30 | 32 | 95 | 145 | 120 | 47.90 |
| 32 | 323.92 | E20B32 | 32 | 95 | 145 | 127 | 51.57 |
| 35 | 354.20 | E20C35 | 32 | 97 | 152 | 127 | 57.29 |
| 36 | 364.29 | E20C36 | 32 | 97 | 152 | 127 | 59.35 |
| 38 | 384.48 | E20C38 | 40 | 97 | 152 | 127 | 62.56 |
| 42 | 424.86 | E20C42 | 40 | 97 | 152 | 127 | 70.12 |
| 45 | 455.15 | E20C45 | 40 | 97 | 152 | 127 | 75.84 |
| 57 | 576.35 | E20C57 | 40 | 102 | 191 | 127 | 100.11 |
| 60 | 606.66 | E20C60 | 40 | 102 | 191 | 127 | 104.86 |
| 68 | 687.48 | E20C68 | 40 | 102 | 191 | 127 | 117.54 |
| 76 | 768.30 | E20C76 | 40 | 102 | 191 | 127 | 130.21 |
| 80 | 808.71 | E20C80 | 40 | 102 | 191 | 127 | 136.55 |
| 95 | 960.28 | E20C95 | 40 | 102 | 191 | 127 | 160.31 |
| 114 | 1152.27 | E20C114 | 40 | 102 | 191 | 127 | 190.41 |

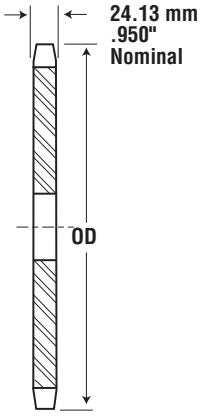
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Metric Sprockets

# ISO 24B-1
## METRIC 120

## 1.50 INCH (38.10 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/18
ISO 24B-1
PITCH: 38.10 mm (1.50")
ROLLER DIAMETER: 25.40 mm (1.00")
ROLLER WIDTH: 25.40 mm (1.00")
TENSILE: 9,980 kilos (22,000 lbs.)



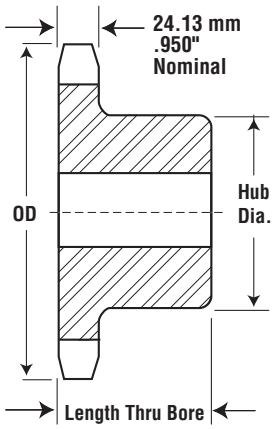

Type A

### Simplex - Type B/C — Steel

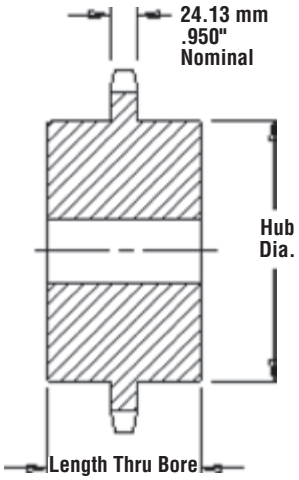
### Type A — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (mm) | | Hub (mm) | | Weight (kg) | Catalog Number | Bore Stock (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stock | Max | Dia. | LTB | | | | |
| 9 | 111.40 | 24B9 | 20 | 45 | 69 | 45 | 2.02 | 24A9 | 20 | 1.69 |
| 10 | 123.29 | 24B10 | 20 | 52 | 80 | 45 | 2.61 | 24A10 | 20 | 1.88 |
| 11 | 135.23 | 24B11 | 25 | 60 | 90 | 50 | 3.77 | 24A11 | 20 | 2.06 |
| 12 | 147.21 | 24B12 | 25 | 67 | 102 | 50 | 4.77 | 24A12 | 20 | 2.68 |
| 13 | 159.20 | 24B13 | 25 | 76 | 114 | 50 | 5.91 | 24A13 | 20 | 3.06 |
| 14 | 171.22 | 24B14 | 32 | 86 | 127 | 60 | 6.68 | 24A14 | 32 | 3.72 |
| 15 | 183.25 | 24B15 | 32 | 92 | 140 | 60 | 7.49 | 24A15 | 32 | 4.31 |
| 16 | 195.29 | 24B16 | 32 | 92 | 140 | 60 | 9.08 | 24A16 | 32 | 4.86 |
| 17 | 207.35 | 24B17 | 32 | 92 | 140 | 60 | 9.76 | 24A17 | 32 | 5.44 |
| 18 | 219.41 | 24B18 | 32 | 92 | 140 | 60 | 10.49 | 24A18 | 32 | 6.13 |
| 19 | 231.48 | 24B19 | 32 | 92 | 140 | 60 | 11.21 | 24A19 | 32 | 7.03 |
| 20 | 243.55 | 24B20 | 32 | 92 | 140 | 60 | 12.26 | 24A20 | 32 | 7.94 |
| 21 | 255.63 | 24B21 | 32 | 92 | 140 | 60 | 13.38 | 24A21 | 32 | 8.62 |
| 22 | 267.72 | 24B22 | 32 | 92 | 140 | 60 | 13.67 | 24A22 | 32 | 9.76 |
| 23 | 179.80 | 24B23 | 32 | 92 | 140 | 60 | 14.74 | 24A23 | 32 | 10.43 |
| 24 | 291.90 | 24B24 | 32 | 92 | 140 | 60 | 15.48 | 24A24 | 32 | 11.35 |
| 25 | 303.99 | 24B25 | 32 | 92 | 140 | 60 | 16.38 | 24A25 | 32 | 12.47 |
| 26 | 316.09 | 24B26 | 40 | 102 | 150 | 65 | 19.43 | 24A26 | 40 | 13.39 |
| 27 | 328.19 | 24B27 | 40 | 102 | 150 | 65 | 20.39 | 24A27 | 40 | 14.53 |
| 28 | 340.29 | 24B28 | 40 | 102 | 150 | 65 | 21.34 | 24A28 | 40 | 15.89 |
| 29 | 352.39 | 24B29 | 40 | 102 | 150 | 65 | 22.79 | 24A29 | 40 | 17.02 |
| 30 | 364.49 | 24B30 | 40 | 102 | 150 | 65 | 24.25 | 24A30 | 40 | 18.39 |
| 31 | 376.60 | 24B31 | 40 | 102 | 150 | 65 | 26.19 | 24A31 | 40 | 20.02 |
| 32 | 388.71 | 24B32 | 40 | 102 | 150 | 65 | 28.12 | 24A32 | 40 | 21.66 |
| 33 | 400.82 | 24B33 | 40 | 102 | 150 | 65 | 30.05 | 24A33 | 40 | 23.29 |
| 34 | 412.93 | 24B34 | 40 | 102 | 150 | 65 | 31.99 | 24A34 | 40 | 24.93 |
| 35 | 425.04 | 24B35 | 40 | 102 | 150 | 65 | 33.93 | 24A35 | 40 | 26.56 |
| 36 | 437.15 | 24B36 | 40 | 102 | 152 | 65 | 35.86 | 24A36 | 40 | 28.19 |
| 38 | 461.37 | 24B38 | 40 | 102 | 152 | 65 | 39.73 | 24A38 | 40 | 31.46 |
| 42 | 509.83 | 24C42 | 40 | 102 | 152 | 95 | 45.31 | 24A42 | 40 | 40.99 |
| 45 | 546.19 | 24C45 | 40 | 102 | 152 | 95 | 50.71 | 24A45 | 40 | 48.14 |
| 48 | 482.54 | 24C48 | 40 | 102 | 152 | 102 | 57.43 | 24A48 | 40 | 55.29 |
| 57 | 691.62 | 24C57 | 40 | 133 | 178 | 102 | 76.05 | 24A57 | 40 | 76.73 |
| 60 | 727.99 | 24C60 | 40 | 133 | 178 | 102 | 80.05 | 24A60 | 40 | 85.19 |
| 76 | 922.00 | 24C76 | 40 | 133 | 191 | 114 | 129.00 | 24A76 | 40 | 116.00 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.




Type B



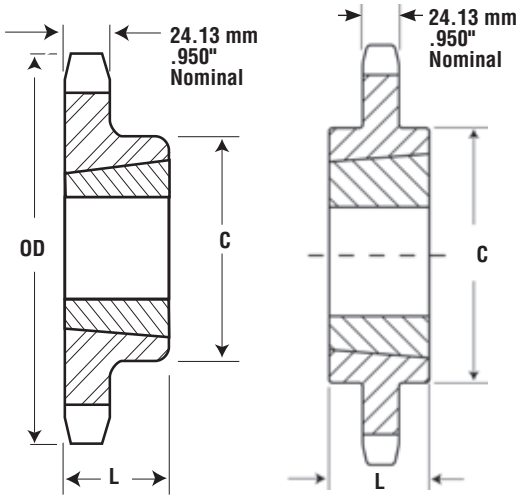

Type C

# ISO 24B-1
## METRIC 120

**Metric Sprockets**

## 1.50 INCH (38.10 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/18
ISO 24B-1
PITCH: 38.10 mm (1.50")
ROLLER DIAMETER: 25.40 mm (1.00")
ROLLER WIDTH: 25.40 mm (1.00")
TENSILE: 9,980 kilos (22,000 lbs.)




Type B  Type C

## Simplex - Taper Bushed — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bushing | Max. Bore (mm) | Dimensions | | Weight (Approx.) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | L (mm) | C (mm) | Rim (kg) | Bushing (kg) |
| 11 | 135.23 | 24BTB11H | 2012 | 50.80 | 31.75 | 90.49 | 2.28 | 0.77 |
| 12 | 147.21 | 24BTB12H | 2012 | 50.80 | 31.75 | 90.49 | 2.49 | 0.77 |
| 13 | 159.20 | 24BTB13H | 2517 | 63.50 | 44.45 | 107.95 | 2.77 | 1.59 |
| 14 | 171.22 | 24BTB14H | 2517 | 63.50 | 44.45 | 107.95 | 3.54 | 1.59 |
| 15 | 183.25 | 24BTB15H | 2517 | 63.50 | 44.45 | 107.95 | 4.31 | 1.59 |
| 16 | 195.29 | 24BTB16H | 3020 | 76.20 | 50.80 | 133.35 | 4.77 | 2.95 |
| 17 | 207.35 | 24BTB17H | 3020 | 76.20 | 50.80 | 133.35 | 5.45 | 2.95 |
| 18 | 219.41 | 24BTB18H | 3020 | 76.20 | 50.80 | 133.35 | 6.13 | 2.95 |
| 19 | 231.48 | 24BTB19H | 3020 | 76.20 | 50.80 | 133.35 | 6.81 | 2.95 |
| 20 | 243.55 | 24BTB20H | 3020 | 76.20 | 50.80 | 133.35 | 7.49 | 2.95 |
| 21 | 255.63 | 24BTB21H | 3020 | 76.20 | 50.80 | 133.35 | 7.94 | 2.95 |
| 22 | 267.72 | 24BTB22H | 3020 | 76.20 | 50.80 | 133.35 | 8.75 | 2.95 |
| 23 | 279.80 | 24BTB23H | 3020 | 76.20 | 50.80 | 133.35 | 9.53 | 2.95 |
| 24 | 291.90 | 24BTB24H | 3020 | 76.20 | 50.80 | 133.35 | 10.67 | 2.95 |
| 25 | 303.99 | 24BTB25H | 3020 | 76.20 | 50.80 | 133.35 | 11.80 | 2.95 |
| 26 | 316.09 | 24BTB26H | 3020 | 76.20 | 50.80 | 133.35 | 12.93 | 2.95 |
| 27 | 328.19 | 24BTB27H | 3020 | 76.20 | 50.80 | 133.35 | 13.50 | 2.95 |
| 28 | 340.29 | 24BTB28H | 3020 | 76.20 | 50.80 | 133.35 | 14.70 | 2.95 |
| 29 | 352.29 | 24BTB29H | 3020 | 76.20 | 50.80 | 133.35 | 14.75 | 2.95 |
| 30 | 364.49 | 24BTB30H | 3020 | 76.20 | 50.80 | 133.35 | 15.20 | 2.95 |
| 32 | 388.71 | 24BTB32 | 3020 | 76.20 | 50.80 | 133.35 | 15.76 | 2.95 |
| 38 | 461.37 | 24CTB38 | 3030 | 76.20 | 76.20 | 139.70 | 24.97 | 4.18 |
| 40 | 485.60 | 24CTB40 | 3030 | 76.20 | 76.20 | 139.70 | 28.46 | 4.18 |
| 42 | 509.83 | 24CTB42 | 3030 | 76.20 | 76.20 | 139.70 | 31.95 | 4.18 |
| 45 | 546.19 | 24CTB45 | 3030 | 76.20 | 76.20 | 139.70 | 37.19 | 4.18 |
| 48 | 582.54 | 24CTB48 | 3030 | 76.20 | 76.20 | 139.70 | 42.43 | 4.18 |
| 50 | 606.78 | 24CTB50 | 3030 | 76.20 | 76.20 | 139.70 | 45.92 | 4.18 |
| 54 | 655.26 | 24CTB54 | 3535 | 88.90 | 88.90 | 165.10 | 63.32 | 6.36 |
| 57 | 691.62 | 24CTB57 | 3535 | 88.90 | 88.90 | 165.10 | 71.46 | 6.36 |
| 60 | 727.99 | 24CTB60 | 3535 | 88.90 | 88.90 | 165.10 | 79.60 | 6.36 |
| 68 | 824.97 | 24CTB68 | 3535 | 88.90 | 88.90 | 165.10 | 101.31 | 6.36 |
| 72 | 873.46 | 24CTB72 | 3535 | 88.90 | 88.90 | 165.10 | 112.17 | 6.36 |
| 76 | 921.96 | 24CTB76 | 3535 | 88.90 | 88.90 | 165.10 | 123.02 | 6.36 |
| 95 | 1152.33 | 24CTB95 | 4040 | 101.60 | 101.60 | 196.85 | 196.67 | 9.98 |
| 96 | 1164.46 | 24CTB96 | 4040 | 101.60 | 101.60 | 196.85 | 201.03 | 9.98 |
| 114 | 1382.72 | 24CTB114 | 4040 | 101.60 | 101.60 | 196.85 | 279.50 | 9.98 |

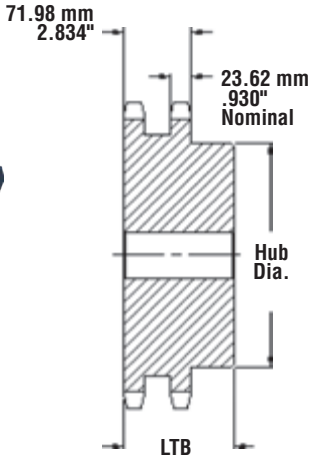
Sprockets with "H" suffix have hardened teeth.

# Metric Sprockets

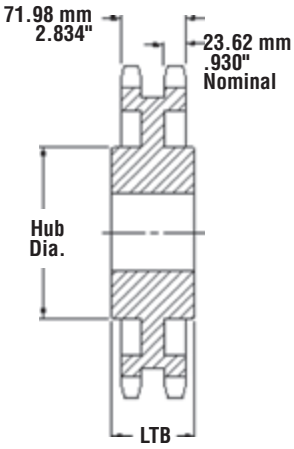
# ISO 24B-2
## METRIC 120

## 1.50 INCH (38.10 MM) PITCH DUPLEX

**CHAIN DATA:**
BS 228/18
ISO 24B-2
PITCH: 38.10 mm (1.50")
ROLLER DIAMETER: 25.40 mm (1.00")
ROLLER WIDTH: 25.40 mm (1.00")
TENSILE: 19,960 kilos (44,000 lbs.)



Type B



Type C

## Duplex - Type B/C — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (Inches) | | Hub (Inches) | | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | |
| 11 | 135.23 | D24B11 | 32 | 60 | 90 | 100 | 6.50 |
| 12 | 147.21 | D24B12 | 32 | 67 | 102 | 100 | 8.13 |
| 13 | 159.20 | D24B13 | 32 | 76 | 114 | 100 | 9.92 |
| 14 | 171.22 | D24B14 | 32 | 84 | 128 | 100 | 11.98 |
| 15 | 183.25 | D24B15 | 32 | 93 | 140 | 100 | 14.13 |
| 16 | 195.29 | D24B16 | 32 | 100 | 150 | 100 | 16.35 |
| 17 | 207.35 | D24B17 | 40 | 100 | 150 | 100 | 17.85 |
| 18 | 219.41 | D24B18 | 40 | 108 | 160 | 100 | 20.35 |
| 19 | 231.48 | D24B19 | 40 | 108 | 160 | 100 | 22.56 |
| 20 | 243.55 | D24B20 | 40 | 108 | 160 | 100 | 24.78 |
| 21 | 255.63 | D24B21 | 40 | 108 | 160 | 100 | 26.99 |
| 22 | 267.72 | D24B22 | 40 | 108 | 160 | 102 | 29.74 |
| 23 | 279.80 | D24B23 | 40 | 108 | 160 | 102 | 32.87 |
| 24 | 291.90 | D24B24 | 40 | 108 | 160 | 102 | 36.00 |
| 25 | 303.99 | D24B25 | 40 | 108 | 160 | 102 | 39.13 |
| 26 | 316.09 | D24B26 | 40 | 108 | 160 | 102 | 42.26 |
| 27 | 328.19 | D24B27 | 40 | 108 | 160 | 102 | 45.40 |
| 28 | 340.29 | D24B28 | 40 | 108 | 160 | 102 | 48.53 |
| 29 | 352.39 | D24B29 | 40 | 108 | 160 | 102 | 51.66 |
| 30 | 364.49 | D24B30 | 40 | 108 | 160 | 102 | 54.79 |
| 32 | 388.71 | D24B32 | 40 | 108 | 160 | 102 | 61.05 |
| 38 | 461.37 | D24C38 | 40 | 137 | 190 | 152 | 72.01 |
| 40 | 485.60 | D24C40 | 40 | 137 | 190 | 152 | 75.80 |
| 42 | 509.83 | D24C42 | 40 | 137 | 190 | 152 | 79.59 |
| 45 | 546.19 | D24C45 | 40 | 137 | 190 | 152 | 85.28 |
| 48 | 582.54 | D24C48 | 40 | 137 | 190 | 152 | 90.97 |
| 50 | 606.78 | D24C50 | 40 | 137 | 190 | 152 | 94.76 |
| 54 | 655.26 | D24C54 | 40 | 161 | 238 | 159 | 127.46 |
| 57 | 691.62 | D24C57 | 40 | 161 | 238 | 159 | 140.74 |
| 60 | 727.99 | D24C60 | 40 | 161 | 238 | 159 | 154.02 |
| 68 | 824.97 | D24C68 | 40 | 161 | 238 | 159 | 189.45 |
| 72 | 873.46 | D24C72 | 40 | 161 | 238 | 159 | 207.16 |
| 76 | 921.96 | D24C76 | 40 | 161 | 238 | 159 | 224.87 |
| 95 | 1152.33 | D24C95 | 40 | 161 | 238 | 159 | 309.00 |
| 96 | 1164.46 | D24C96 | 40 | 161 | 238 | 159 | 313.43 |
| 114 | 1382.72 | D24C114 | 40 | 161 | 238 | 159 | 393.13 |

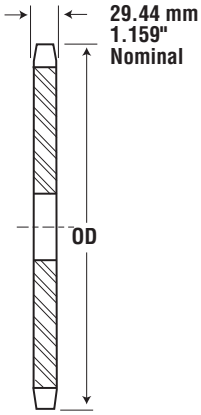
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# ISO 28B-1
## METRIC 140

**Metric Sprockets**

## 1.75 INCH (44.45 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/20
ISO 28B-1
PITCH: 44.45 mm (1.75")
ROLLER DIAMETER: 27.94 mm (1.10")
ROLLER WIDTH: 30.99 mm (1.22")
TENSILE: 13,160 kilos (29,000 lbs.)

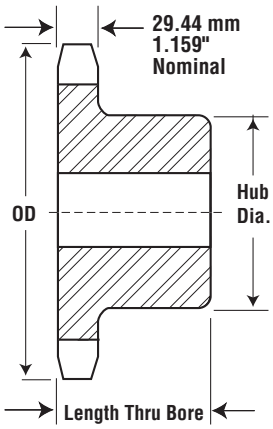



Type A

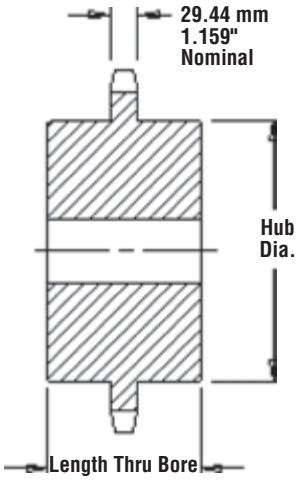
### Simplex - Type B/C — Steel / Type A — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (mm) | | Hub (mm) | | Weight (kg) | Catalog Number | Bore Stock (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stock | Max | Dia. | LTB | | | | |
| 11 | 157.77 | 28B11 | 40 | 73 | 112 | 70 | 5.27 | 28A11 | 32 | 3.18 |
| 12 | 171.74 | 28B12 | 40 | 84 | 125 | 70 | 6.40 | 28A12 | 32 | 3.95 |
| 13 | 185.74 | 28B13 | 40 | 93 | 140 | 70 | 8.22 | 28A13 | 32 | 4.31 |
| 14 | 199.76 | 28B14 | 40 | 93 | 140 | 60 | 9.13 | 28A14 | 32 | 4.77 |
| 15 | 213.79 | 28B15 | 40 | 108 | 160 | 60 | 11.40 | 28A15 | 40 | 5.45 |
| 16 | 227.84 | 28B16 | 40 | 108 | 160 | 64 | 12.76 | 28A16 | 40 | 6.81 |
| 17 | 241.91 | 28B17 | 40 | 108 | 160 | 64 | 13.65 | 28A17 | 40 | 7.71 |
| 18 | 255.98 | 28B18 | 40 | 108 | 160 | 64 | 13.65 | 28A18 | 40 | 8.63 |
| 19 | 270.06 | 28B19 | 40 | 108 | 160 | 64 | 15.01 | 28A19 | 40 | 9.53 |
| 20 | 284.14 | 28B20 | 40 | 108 | 160 | 64 | 16.84 | 28A20 | 40 | 10.44 |
| 21 | 298.24 | 28B21 | 40 | 108 | 160 | 64 | 18.19 | 28A21 | 40 | 11.79 |
| 22 | 312.34 | 28B22 | 40 | 108 | 160 | 64 | 19.11 | 28A22 | 40 | 13.17 |
| 23 | 326.44 | 28B23 | 40 | 108 | 160 | 64 | 20.46 | 28A23 | 40 | 14.06 |
| 24 | 340.54 | 28B24 | 40 | 108 | 160 | 64 | 21.84 | 28A24 | 40 | 15.44 |
| 25 | 354.65 | 28B25 | 40 | 108 | 160 | 64 | 22.73 | 28A25 | 40 | 16.78 |
| 26 | 368.77 | 28B26 | 40 | 108 | 160 | 64 | 26.83 | 28A26 | 40 | 18.61 |
| 27 | 382.88 | 28B27 | 40 | 108 | 160 | 64 | 27.74 | 28A27 | 40 | 20.43 |
| 28 | 397.00 | 28B28 | 40 | 108 | 160 | 64 | 30.29 | 28A28 | 40 | 20.88 |
| 29 | 411.12 | 28B29 | 40 | 108 | 160 | 64 | 31.74 | 28A29 | 40 | 23.06 |
| 30 | 425.24 | 28B30 | 40 | 108 | 160 | 64 | 32.73 | 28A30 | 40 | 25.17 |
| 32 | 453.49 | 28B32 | 40 | 134 | 180 | 76 | 34.84 | 28A32 | 40 | 31.02 |
| 38 | 538.27 | 28C38 | 40 | 134 | 178 | 102 | 51.25 | 28A38 | 40 | 48.58 |
| 40 | 566.54 | 28C40 | 40 | 134 | 178 | 102 | 52.84 | 28A40 | 40 | 52.80 |
| 42 | 594.81 | 28C42 | 40 | 134 | 178 | 102 | 54.43 | 28A42 | 40 | 57.02 |
| 45 | 637.22 | 28C45 | 40 | 134 | 178 | 102 | 60.55 | 28A45 | 40 | 63.35 |
| 48 | 679.63 | 28C48 | 40 | 134 | 178 | 102 | 62.72 | 28A48 | 40 | 69.68 |
| 54 | 764.47 | 28C54 | 40 | 134 | 178 | 127 | 74.60 | 28A54 | 40 | 82.34 |
| 57 | 806.89 | 28C57 | 40 | 134 | 178 | 127 | 81.77 | 28A57 | 40 | 88.67 |
| 60 | 849.32 | 28C60 | 40 | 134 | 178 | 127 | 88.94 | 28A60 | 40 | 97.97 |
| 68 | 962.47 | 28C68 | 40 | 137 | 191 | 127 | 108.05 | 28A68 | 40 | 122.79 |
| 72 | 1019.04 | 28C72 | 40 | 137 | 191 | 127 | 117.61 | 28A72 | 40 | 135.19 |
| 76 | 1075.62 | 28C76 | 40 | 137 | 191 | 127 | 127.17 | 28A76 | 40 | 147.60 |
| 95 | 1344.39 | 28C95 | 40 | 137 | 191 | 127 | 172.57 | 28A95 | 40 | 206.53 |
| 96 | 1358.53 | 28C96 | 40 | 137 | 191 | 127 | 174.96 | 28A96 | 40 | 209.63 |
| 114 | 1613.18 | 28C114 | 40 | 137 | 191 | 127 | 217.97 | 28A114 | 40 | 265.46 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.




Type B



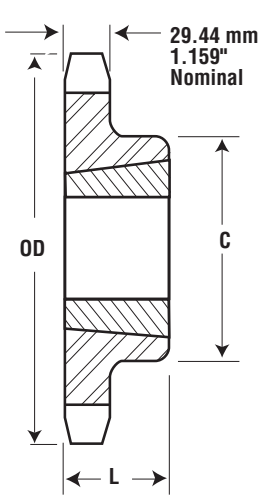

Type C

# Metric Sprockets

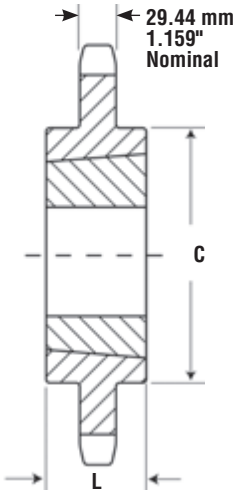
# ISO 28B-1
## METRIC 140

## 1.75 INCH (44.45 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/20
ISO 28B-1
PITCH: 44.45 mm (1.75")
ROLLER DIAMETER: 27.94 mm (1.10")
ROLLER WIDTH: 30.99 mm (1.22")
TENSILE: 13,160 kilos (29,000 lbs.)




Type B




Type C

## Simplex - Taper Bushed — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bushing | Max. Bore (mm) | Dimensions | | Weight (Approx.) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | L (mm) | C (mm) | Rim (kg) | Bushing (kg) |
| 11 | 157.80 | 28BTB11H | 2517 | 63.50 | 44.45 | 107.95 | 3.53 | 1.59 |
| 12 | 170.80 | 28BTB12H | 2517 | 63.50 | 44.45 | 107.95 | 3.86 | 1.59 |
| 13 | 185.80 | 28BTB13H | 3020 | 76.20 | 50.80 | 133.35 | 5.90 | 2.95 |
| 14 | 199.80 | 28BTB14H | 3020 | 76.20 | 50.80 | 133.35 | 7.04 | 2.95 |
| 15 | 213.80 | 28BTB15H | 3020 | 76.20 | 50.80 | 133.35 | 8.17 | 2.95 |
| 16 | 227.90 | 28BTB16H | 3020 | 76.20 | 50.80 | 133.35 | 9.76 | 2.95 |
| 17 | 241.90 | 28BTB17H | 3020 | 76.20 | 50.80 | 133.35 | 11.35 | 2.95 |
| 18 | 256.00 | 28BTB18H | 3020 | 76.20 | 50.80 | 133.35 | 12.49 | 2.95 |
| 19 | 270.10 | 28BTB19H | 3020 | 76.20 | 50.80 | 133.35 | 13.62 | 2.95 |
| 20 | 284.10 | 28BTB20H | 3020 | 76.20 | 50.80 | 133.35 | 14.3 | 2.95 |
| 21 | 298.30 | 28BTB21H | 3020 | 76.20 | 50.80 | 133.35 | 14.98 | 2.95 |
| 22 | 312.30 | 28BTB22H | 3020 | 76.20 | 50.80 | 133.35 | 16.91 | 2.95 |
| 23 | 326.40 | 28BTB23H | 3020 | 76.20 | 50.80 | 133.35 | 18.84 | 2.95 |
| 24 | 340.50 | 28BTB24H | 3020 | 76.20 | 50.80 | 133.35 | 20.77 | 2.95 |
| 25 | 354.70 | 28BTB25H | 3020 | 76.20 | 50.80 | 133.35 | 22.70 | 2.95 |
| 26 | 368.80 | 28BTB26H | 3020 | 76.20 | 50.80 | 133.35 | 24.63 | 2.95 |
| 27 | 382.90 | 28BTB27 | 3020 | 76.20 | 50.80 | 133.35 | 26.56 | 2.95 |
| 28 | 397.00 | 28BTB28 | 3020 | 76.20 | 50.80 | 133.35 | 28.49 | 2.95 |
| 30 | 425.20 | 28BTB30 | 3020 | 76.20 | 50.80 | 133.35 | 32.35 | 2.95 |
| 32 | 453.49 | 28BTB32 | 3020 | 76.20 | 50.80 | 133.35 | 36.21 | 2.95 |
| 38 | 538.30 | 28CTB38 | 3535 | 88.90 | 88.90 | 165.10 | 45.40 | 6.36 |
| 40 | 566.55 | 28CTB40 | 3535 | 88.90 | 88.90 | 165.10 | 47.79 | 6.36 |
| 42 | 594.82 | 28CTB42 | 3535 | 88.90 | 88.90 | 165.10 | 50.18 | 6.36 |
| 45 | 637.21 | 28CTB45 | 4040 | 101.60 | 101.60 | 219.08 | 57.35 | 9.99 |
| 48 | 679.63 | 28CTB48 | 4040 | 101.60 | 101.60 | 219.08 | 61.17 | 9.99 |
| 54 | 764.46 | 28CTB54 | 4040 | 101.60 | 101.60 | 219.08 | 68.82 | 9.99 |
| 57 | 806.90 | 28CTB57 | 4040 | 101.60 | 101.60 | 219.08 | 72.64 | 9.99 |
| 60 | 849.33 | 28CTB60 | 4040 | 101.60 | 101.60 | 219.08 | 76.44 | 9.99 |
| 68 | 962.46 | 28CTB68 | 4040 | 101.60 | 101.60 | 219.08 | 86.63 | 9.99 |
| 72 | 1019.05 | 28CTB72 | 4040 | 101.60 | 101.60 | 219.08 | 91.73 | 9.99 |
| 76 | 1075.60 | 28CTB76 | 4040 | 101.60 | 101.60 | 219.08 | 96.83 | 9.99 |
| 95 | 1344.37 | 28CTB95 | 4040 | 101.60 | 101.60 | 219.08 | 121.03 | 9.99 |
| 96 | 1358.52 | 28CTB96 | 4040 | 101.60 | 101.60 | 219.08 | 122.31 | 9.99 |
| 114 | 1613.18 | 28CTB114 | 4040 | 101.60 | 101.60 | 219.08 | 145.24 | 9.99 |

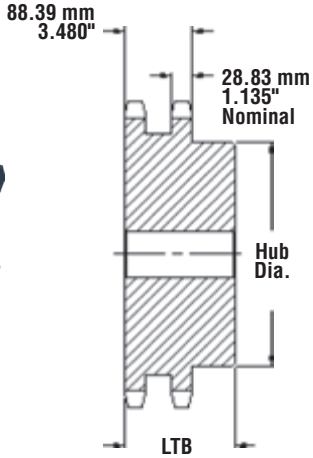
Sprockets with “H” suffix have hardened teeth.

# ISO 28B-2
## METRIC 140-2

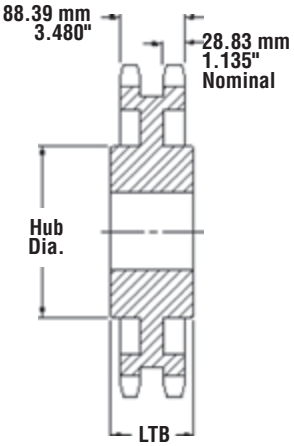
**Metric Sprockets**

## 1.75 INCH (44.45 MM) PITCH DUPLEX

**CHAIN DATA:**
BS 228/20
ISO 28B-2
PITCH: 44.45 mm (1.75")
ROLLER DIAMETER: 27.94 mm (1.10")
ROLLER WIDTH: 30.99 mm (1.22")
TENSILE: 26,320 kilos (58,000 lbs.)



Type B



Type C

## Duplex - Type B/C — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (Inches) | | Hub (Inches) | | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | |
| 11 | 157.77 | D28B11 | 40 | 73 | 112 | 120 | 10.21 |
| 12 | 171.74 | D28B12 | 40 | 84 | 125 | 120 | 13.02 |
| 13 | 185.74 | D28B13 | 40 | 84 | 130 | 120 | 16.00 |
| 14 | 199.76 | D28B14 | 40 | 87 | 135 | 120 | 19.28 |
| 15 | 213.79 | D28B15 | 40 | 96 | 145 | 120 | 22.91 |
| 16 | 227.84 | D28B16 | 40 | 108 | 160 | 120 | 26.92 |
| 17 | 241.91 | D28B17 | 40 | 114 | 178 | 120 | 30.83 |
| 18 | 255.98 | D28B18 | 40 | 114 | 178 | 120 | 34.74 |
| 19 | 270.06 | D28B19 | 40 | 133 | 178 | 120 | 38.93 |
| 20 | 284.14 | D28B20 | 40 | 133 | 178 | 120 | 44.27 |
| 21 | 298.24 | D28B21 | 40 | 133 | 178 | 120 | 45.08 |
| 22 | 312.34 | D28B22 | 40 | 133 | 178 | 120 | 48.15 |
| 23 | 326.44 | D28B23 | 40 | 133 | 178 | 120 | 51.59 |
| 24 | 340.54 | D28B24 | 40 | 133 | 178 | 120 | 55.03 |
| 25 | 354.65 | D28B25 | 40 | 133 | 178 | 120 | 58.47 |
| 26 | 368.77 | D28B26 | 40 | 133 | 178 | 120 | 64.06 |
| 28 | 397.00 | D28B28 | 40 | 133 | 178 | 120 | 76.05 |
| 30 | 425.24 | D28B30 | 40 | 133 | 178 | 120 | 89.16 |
| 32 | 453.49 | D28B32 | 40 | 133 | 178 | 120 | 103.38 |
| 38 | 537.27 | D28C38 | 40 | 133 | 191 | 159 | 97.53 |
| 40 | 566.54 | D28C40 | 40 | 137 | 191 | 159 | 109.47 |
| 45 | 637.22 | D28C45 | 40 | 137 | 191 | 159 | 137.32 |
| 48 | 679.63 | D28C48 | 40 | 137 | 191 | 159 | 153.61 |
| 54 | 764.47 | D28C54 | 40 | 162 | 241 | 181 | 204.44 |
| 57 | 806.89 | D28C57 | 40 | 162 | 241 | 181 | 210.02 |
| 60 | 849.32 | D28C60 | 40 | 162 | 241 | 181 | 230.82 |
| 68 | 962.47 | D28C68 | 40 | 162 | 241 | 181 | 273.98 |
| 72 | 1019.04 | D28C72 | 40 | 162 | 241 | 181 | 305.70 |
| 76 | 1075.62 | D28C76 | 40 | 162 | 241 | 181 | 323.56 |

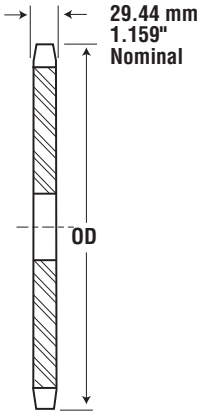
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Metric Sprockets

# ISO 32B-1
## METRIC 160

## 2.00 INCH (50.80 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/22
ISO 32B-1
PITCH: 50.80 mm(2.00")
ROLLER DIAMETER: 29.21 mm (1.15")
ROLLER WIDTH: 30.99 mm (1.22")
TENSILE: 17,240 kilos (38,000 lbs.)



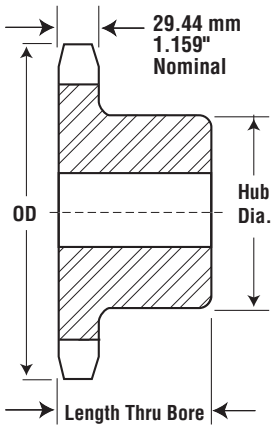

Type A

## Simplex - Type B/C — Steel

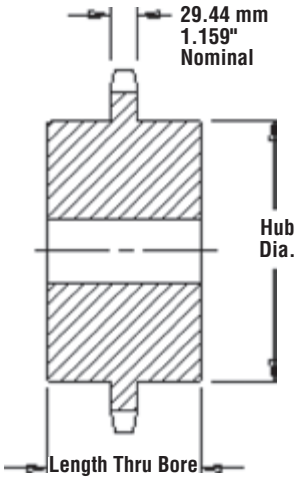
## Type A — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (mm) | | Hub (mm) | | Weight (kg) | Catalog Number | Bore Stock (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Stock | Max | Dia. | LTB | | | | |
| 11 | 180.31 | 32B11 | 40 | 83 | 120 | 80 | 9.04 | 32A11 | 32 | 5.00 |
| 12 | 196.28 | 32B12 | 40 | 89 | 133 | 80 | 11.11 | 32A12 | 32 | 6.02 |
| 13 | 212.27 | 32B13 | 40 | 102 | 152 | 70 | 12.61 | 32A13 | 32 | 7.12 |
| 14 | 228.29 | 32B14 | 40 | 102 | 152 | 70 | 14.97 | 32A14 | 32 | 8.32 |
| 15 | 244.33 | 32B15 | 40 | 102 | 178 | 70 | 17.32 | 32A15 | 40 | 9.50 |
| 16 | 260.39 | 32B16 | 40 | 103 | 178 | 70 | 18.78 | 32A16 | 40 | 11.64 |
| 17 | 276.46 | 32B17 | 40 | 103 | 178 | 70 | 20.23 | 32A17 | 40 | 12.35 |
| 18 | 292.55 | 32B18 | 40 | 103 | 178 | 70 | 21.88 | 32A18 | 40 | 13.96 |
| 19 | 308.64 | 32B19 | 40 | 103 | 178 | 70 | 23.53 | 32A19 | 40 | 15.57 |
| 20 | 324.74 | 32B20 | 40 | 133 | 178 | 70 | 25.37 | 32A20 | 40 | 17.36 |
| 21 | 340.84 | 32B21 | 40 | 133 | 178 | 70 | 27.20 | 32A21 | 40 | 19.15 |
| 22 | 356.96 | 32B22 | 40 | 133 | 178 | 70 | 29.23 | 32A22 | 40 | 21.13 |
| 23 | 373.07 | 32B23 | 40 | 133 | 178 | 70 | 31.25 | 32A23 | 40 | 23.10 |
| 24 | 389.19 | 32B24 | 40 | 133 | 178 | 76 | 35.33 | 32A24 | 40 | 25.26 |
| 25 | 405.32 | 32B25 | 40 | 133 | 178 | 76 | 36.80 | 32A25 | 40 | 27.41 |
| 26 | 421.45 | 32B26 | 40 | 133 | 181 | 76 | 39.41 | 32A26 | 40 | 30.25 |
| 27 | 437.58 | 32B27 | 40 | 133 | 181 | 76 | 42.02 | 32A27 | 40 | 33.10 |
| 28 | 453.72 | 32B28 | 40 | 133 | 181 | 76 | 44.62 | 32A28 | 40 | 35.94 |
| 29 | 469.85 | 32B29 | 40 | 133 | 181 | 76 | 47.23 | 32A29 | 40 | 38.78 |
| 30 | 485.99 | 32B30 | 40 | 133 | 181 | 76 | 49.84 | 32A30 | 40 | 41.63 |
| 32 | 518.28 | 32B32 | 40 | 139 | 203 | 76 | 58.02 | 32A32 | 40 | 47.31 |
| 38 | 615.17 | 32C38 | 40 | 139 | 203 | 114 | 86.78 | 32A38 | 40 | 64.37 |
| 40 | 647.47 | 32C40 | 40 | 139 | 203 | 114 | 91.35 | 32A40 | 40 | 72.98 |
| 42 | 679.78 | 32C42 | 40 | 139 | 203 | 114 | 95.91 | 32A42 | 40 | 81.60 |
| 45 | 728.25 | 32C45 | 40 | 139 | 203 | 127 | 116.97 | 32A45 | 40 | 94.52 |
| 48 | 776.72 | 32C48 | 40 | 139 | 203 | 127 | 130.43 | 32A48 | 40 | 107.44 |
| 54 | 873.68 | 32C54 | 40 | 139 | 203 | 127 | 157.34 | 32A54 | 40 | 133.29 |
| 57 | 922.16 | 32C57 | 40 | 139 | 203 | 127 | 170.79 | 32A57 | 40 | 146.21 |
| 60 | 970.65 | 32C60 | 40 | 139 | 203 | 127 | 184.25 | 32A60 | 40 | 164.35 |
| 68 | 1099.96 | 32C68 | 40 | 139 | 203 | 127 | 220.13 | 32A68 | 40 | 212.73 |
| 72 | 1164.62 | 32C72 | 40 | 139 | 203 | 152 | 282.31 | 32A72 | 40 | 236.91 |
| 76 | 1229.28 | 32C76 | 40 | 139 | 203 | 152 | 297.99 | 32A76 | 40 | 261.10 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.




Type B



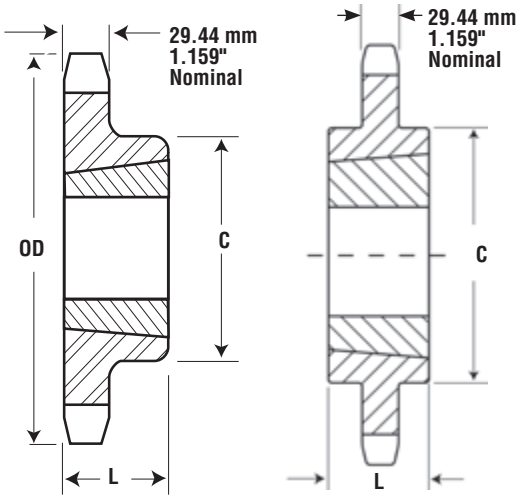

Type C

# ISO 32B-1
## METRIC 160

**Metric Sprockets**

## 2.00 INCH (50.80 MM) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/22
ISO 32B-1
PITCH: 50.80 mm (2.00")
ROLLER DIAMETER: 29.21 mm (1.15")
ROLLER WIDTH: 30.99 mm (1.22")
TENSILE: 17,240 kilos (38,000 lbs.)




Type B  Type C

## Simplex - Taper Bushed — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bushing | Max. Bore (mm) | Dimensions | | Weight (Approx.) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | L (mm) | C (mm) | Rim (kg) | Bushing (kg) |
| 11 | 180.31 | 32BTB11H | 2517 | 63.50 | 44.45 | 107.95 | 4.51 | 1.59 |
| 12 | 196.28 | 32BTB12H | 3020 | 76.20 | 50.80 | 133.35 | 5.27 | 2.95 |
| 13 | 212.27 | 32BTB13H | 3020 | 76.20 | 50.80 | 133.35 | 6.38 | 2.95 |
| 14 | 228.29 | 32BTB14H | 3020 | 76.20 | 50.80 | 133.35 | 6.87 | 2.95 |
| 15 | 244.33 | 32BTB15H | 3535 | 88.90 | 88.90 | 165.10 | 11.80 | 6.36 |
| 16 | 260.39 | 32BTB16H | 3535 | 88.90 | 88.90 | 165.10 | 13.38 | 6.36 |
| 17 | 276.46 | 32BTB17H | 3535 | 88.90 | 88.90 | 165.10 | 14.98 | 6.36 |
| 18 | 292.55 | 32BTB18H | 3535 | 88.90 | 88.90 | 165.10 | 16.12 | 6.36 |
| 19 | 308.64 | 32BTB19H | 3535 | 88.90 | 88.90 | 165.10 | 17.25 | 6.36 |
| 20 | 324.74 | 32BTB20H | 3535 | 88.90 | 88.90 | 165.10 | 21.10 | 6.36 |
| 21 | 340.84 | 32BTB21H | 3535 | 88.90 | 88.90 | 165.10 | 24.94 | 6.36 |
| 22 | 356.96 | 32BTB22H | 3535 | 88.90 | 88.90 | 165.10 | 27.79 | 6.36 |
| 23 | 373.07 | 32BTB23H | 3535 | 88.90 | 88.90 | 165.10 | 30.64 | 6.36 |
| 24 | 389.19 | 32BTB24H | 3535 | 88.90 | 88.90 | 165.10 | 33.48 | 6.36 |
| 25 | 405.32 | 32BTB25H | 3535 | 88.90 | 88.90 | 165.10 | 36.32 | 6.36 |
| 26 | 421.45 | 32BTB26H | 3535 | 88.90 | 88.90 | 165.10 | 39.16 | 6.36 |
| 27 | 437.58 | 32BTB27 | 3535 | 88.90 | 88.90 | 165.10 | 42.00 | 6.36 |
| 28 | 453.72 | 32BTB28 | 3535 | 88.90 | 88.90 | 165.10 | 44.84 | 6.36 |
| 30 | 486.99 | 32BTB30 | 3535 | 88.90 | 88.90 | 165.10 | 50.52 | 6.36 |
| 32 | 518.28 | 32BTB32 | 3535 | 88.90 | 88.90 | 165.10 | 56.20 | 6.36 |
| 38 | 615.17 | 32CTB38 | 4040 | 101.60 | 101.60 | 219.08 | 68.10 | 10.00 |
| 40 | 647.47 | 32CTB40 | 4040 | 101.60 | 101.60 | 219.08 | 77.08 | 10.00 |
| 45 | 728.25 | 32CTB45 | 4040 | 101.60 | 101.60 | 219.08 | 99.53 | 10.00 |
| 48 | 776.72 | 32CTB48 | 4040 | 101.60 | 101.60 | 219.08 | 113.01 | 10.00 |
| 54 | 873.68 | 32CTB54 | 4040 | 101.60 | 114.30 | 219.08 | 139.95 | 10.00 |
| 57 | 922.16 | 32CTB57 | 4545 | 114.30 | 114.30 | 247.65 | 136.20 | 13.62 |
| 60 | 970.65 | 32CTB60 | 4545 | 114.30 | 114.30 | 247.65 | 158.84 | 13.62 |
| 64 | 1035.30 | 32CTB64 | 4545 | 114.30 | 114.30 | 247.65 | 189.03 | 13.62 |
| 70 | 1132.29 | 32CTB70 | 4545 | 114.30 | 114.30 | 247.65 | 234.32 | 13.62 |

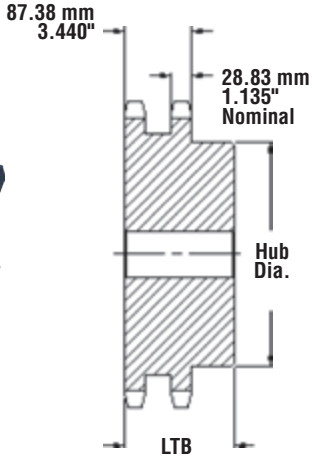
Sprockets with “H” suffix have hardened teeth.

# Metric Sprockets

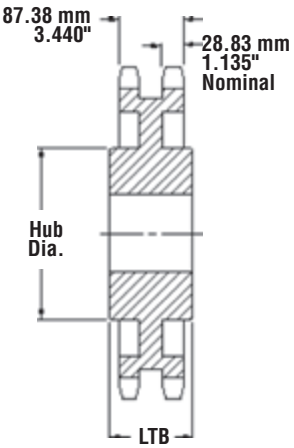
# ISO 32B-2
## METRIC 160-2

## 2.00 INCH (50.80 MM) PITCH DUPLEX

**CHAIN DATA:**
BS 228/22
ISO 32B-2
PITCH: 50.80 mm (2.00")
ROLLER DIAMETER: 29.21 mm (1.15")
ROLLER WIDTH: 30.99 mm (1.22")
TENSILE: 34,480 kilos (76,000 lbs.)



Type B



Type C

## Duplex - Type B/C — Steel

| No. Teeth | Pitch Diameter (mm) | Catalog Number | Bore (Inches) | | Hub (Inches) | | Weight Approx. (kg) |
|---|---|---|---|---|---|---|---|
| | | | Stock (mm) | Max (mm) | Dia. (mm) | LTB (mm) | |
| 11 | 180.31 | D32B11 | 40 | 80 | 125 | 120 | 10.42 |
| 12 | 196.28 | D32B12 | 40 | 89 | 133 | 120 | 16.32 |
| 13 | 212.27 | D32B13 | 40 | 96 | 145 | 120 | 21.77 |
| 14 | 228.29 | D32B14 | 40 | 103 | 155 | 120 | 26.31 |
| 15 | 244.33 | D32B15 | 40 | 106 | 160 | 120 | 30.84 |
| 16 | 260.39 | D32B16 | 40 | 120 | 178 | 120 | 34.02 |
| 17 | 276.46 | D32B17 | 40 | 120 | 178 | 120 | 41.28 |
| 18 | 292.55 | D32B18 | 40 | 120 | 178 | 120 | 43.55 |
| 19 | 308.64 | D32B19 | 40 | 120 | 178 | 120 | 48.53 |
| 20 | 324.74 | D32B20 | 40 | 130 | 191 | 120 | 53.98 |
| 21 | 340.84 | D32B21 | 40 | 130 | 191 | 120 | 58.97 |
| 22 | 356.96 | D32B22 | 40 | 130 | 191 | 120 | 63.96 |
| 23 | 373.07 | D32B23 | 40 | 130 | 191 | 120 | 71.21 |
| 24 | 389.19 | D32B24 | 40 | 130 | 191 | 120 | 77.57 |
| 25 | 405.32 | D32B25 | 40 | 130 | 191 | 120 | 84.82 |
| 26 | 421.45 | D32B26 | 40 | 130 | 191 | 120 | 91.17 |
| 27 | 437.58 | D32B27 | 40 | 130 | 191 | 120 | 97.52 |
| 28 | 453.72 | D32B28 | 40 | 130 | 191 | 120 | 101.13 |
| 30 | 485.99 | D32B30 | 40 | 130 | 191 | 120 | 116.57 |
| 38 | 615.17 | D32B38 | 40 | 178 | 254 | 181 | 170.25 |
| 40 | 647.47 | D32C40 | 40 | 178 | 254 | 181 | 177.46 |
| 45 | 728.25 | D32C45 | 40 | 178 | 254 | 181 | 195.50 |
| 48 | 776.72 | D32C48 | 40 | 178 | 254 | 181 | 204.51 |
| 54 | 873.68 | D32C54 | 40 | 178 | 254 | 181 | 222.53 |
| 57 | 922.16 | D32C57 | 40 | 178 | 254 | 181 | 231.54 |
| 60 | 970.65 | D32C60 | 40 | 178 | 254 | 181 | 255.83 |
| 76 | 1229.28 | D32C76 | 40 | 178 | 254 | 181 | 292.83 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Sprocket Engineering Data

- **Roller Chain Dimensions**
- **Sprocket Tooth Dimensions**
- **Maximum Hub Recommendations**
- **Application And Selection**
- **Hardening**
- **Chain Length Calculation**
- **Speed Ratios**
- **Sprocket Diameters**
- **Horsepower Ratings**

# Sprockets

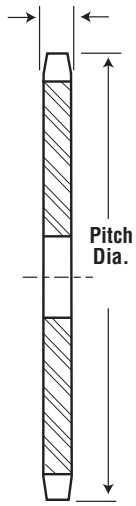
American sprocket manufacturers have adopted 4 specific types of sprocket construction styles as American Standards. In addition to the standard sprockets, special sprockets may be available in the same styles.

**Style A** - Flat sprocket with no hub extension either side.

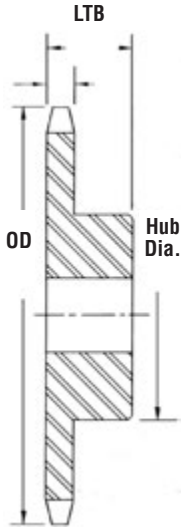
**Style B** - Sprocket with hub extension one side.

**Style C** - Sprocket with hub extension both sides.

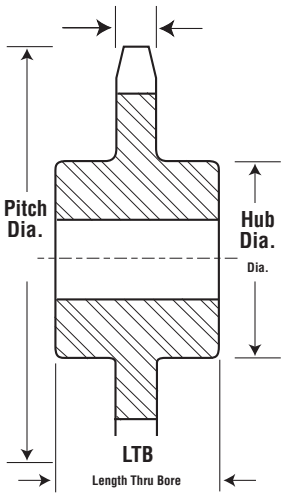
**Style D** - Sprocket with a detachable bolt on hub attached to a plate.



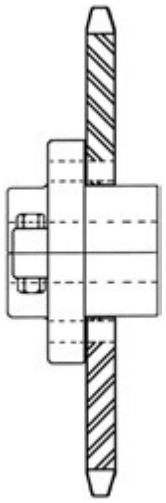

**Single Type A Hub**




**Single Type B Hub**




**Single Type C Hub**

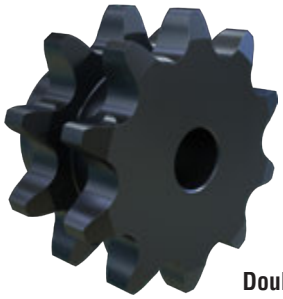


**Single Type D Hub**

# Sprocket Nomenclature

## Multiple Strand Sprockets

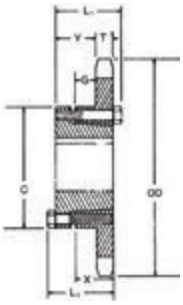
Listed using a letter prefix starting with the letter D for Double Strand, E for Triple Strand, and F for Quadruple, etc. They also have the same hub configuration letter designation listed on previous page. In addition to the four specific types, sprockets may also be made in various other styles.



Double

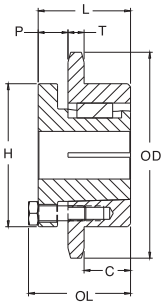
Triple

## Five common styles are:



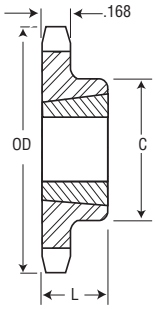
### QD

The QD (quick detachable) sprocket; here a tapered bushing is bolted into the bore machined in the sprocket. This bushing, when inserted into the sprocket, compresses onto the shaft providing a tight grip.



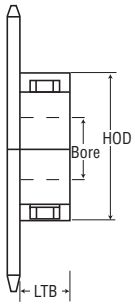
### MST®

The MST® (Martin Split Taper®) is another style of bushed sprocket. The bushing is similar to the QD style except it has an external key that fits into the driven product.



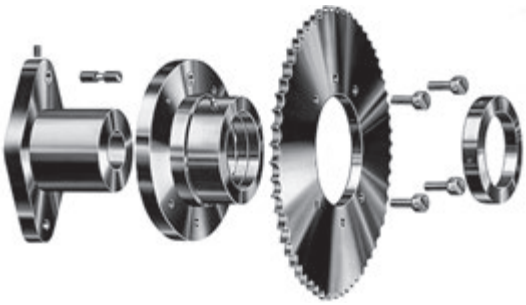
### TB

The TB (taper bushed) sprocket is another style of an interchangeable bushed sprocket, which provides a positive grip on a driven shaft.



### Split

A Split type sprocket is used in place of solid type to allow quick installation without disruption of shaft and alignment.



### Shear Pin Sprocket

# Sprocket Nomenclature

Sprocket nomenclatures provide the chain pitch written to the left of the hub style code letter followed by the number of teeth in the sprocket. If the sprocket is to be multiple strand, the prefix code letter is added to the beginning of the part number.

A suffix of H is added if the teeth are to be heat treated. If the sprocket is to be bored for QD, Taper Bushed or MST, the center hub letter is changed. For QD and MST styles the letter designation of the bushing is used in lieu of the hub style code. If a taper bushing is to be used, the two letters TB are added behind the hub code letter.

In some instances, the material a sprocket is to be manufactured from will be added into the part number as a suffix.

For example:

**SS** Stainless Steel Material

**NM** Non-Metallic

**BR** Brass or Bronze Material

**CD** Cadmium Plated

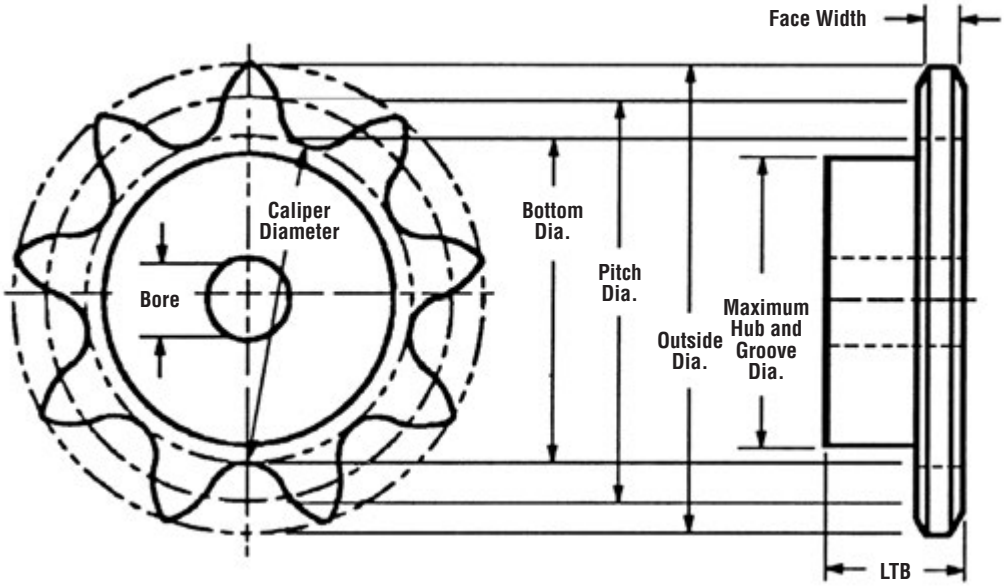
**Zi** Zinc Plated

**Ni** Nickel Plated

**CH** Chrome Plated

If the part is to be used with a shear pin device, the center hub style letter is substituted with an SP.

Most manufacturers of sprockets conform to the ANSI (American Standards Institute) and Martin conforms to the Type II tooth form as given in the standard B29.1 - 1975. It is not necessary to show detailed tooth information on sprocket drawings, just specify ANSI standard tooth form.



# Sprocket Dimensional Specifications

**Bottom Diameter (BD)**

The diameter of a circle tangent to the bottoms of the tooth spaces.

**Caliper Diameter**

Since the bottom diameter of a sprocket with odd number of teeth cannot be measured directly, caliper diameters are the measurement across the tooth spaces nearly opposite.

**Pitch Diameter (PD)**

The diameter across to the pitch circle which is the circle followed by the centers of the chain pins as the sprocket revolves in mesh with the chain.

$$PD = \frac{\text{Pitch}}{\text{SIN } (180/Nt)}$$

**Outside Diameter (OD)**

The measurement from the tip of the sprocket tooth across to the corresponding point directly across the sprocket. It is comparatively unimportant as the tooth length is not vital to proper meshing with the chain. The outside diameter may vary depending on type of cutter used.

$$OD = (\text{Pitch}) \ (.6 + \text{COT } [180 / Nt])$$

**Hub Diameter (HOD)**

That distance across the hub from one side to another. That distance across the hub from one side to another.

**Maximum Sprocket Bore**

Maximum Sprocket Bore is determined by the required hub wall thickness for proper strength. Allowance must be made for keyway and setscrews.

**Face Width**

Face width is limited in its maximum dimension to allow proper clearance to provide for chain engagement and disengagement. The minimum width is limited to provide the proper strength to carry the imposed loads.

**Length Thru Bore (LTB)**

Length Thru Bore (or LTB) must be sufficient to allow a long enough key to withstand the torque transmitted by the shaft. This also assures stability of the sprocket on the shaft.

# Roller Chain Dimensions

| ANSI Number | Roller Width | Roller Dia. | Inside Link Plate Height | Cottered Chain Width* | Riveted Chain Width* | Average Tensile Strength |
|---|---|---|---|---|---|---|
| **Standard Series Chain** | | | | | | |
| 25 | 1/8 | .130 | .237 | .37 | .34 | 875 |
| 25-2 | 1/8 | .130 | .237 | .63 | .59 | 1750 |
| 25-3 | 1/8 | .130 | .237 | .88 | .84 | 2626 |
| 35 | 3/16 | .200 | .356 | .56 | .50 | 2100 |
| 35-2 | 3/16 | .200 | .356 | .96 | .90 | 4200 |
| 35-3 | 3/16 | .200 | .356 | 1.36 | 1.31 | 6300 |
| 35-4 | 3/16 | .200 | .356 | 1.76 | 1.70 | 8400 |
| 35-5 | 3/16 | .200 | .356 | 2.16 | 2.11 | 10500 |
| 35-6 | 3/16 | .200 | .356 | 2.57 | 2.51 | 12600 |
| 40 | 5/16 | .312 | .475 | .72 | .67 | 3700 |
| 40-2 | 5/16 | .312 | .475 | 1.29 | 1.24 | 7400 |
| 40-3 | 5/16 | .312 | .475 | 1.85 | 1.80 | 11100 |
| 40-4 | 5/16 | .312 | .475 | 2.42 | 2.37 | 14800 |
| 40-6 | 5/16 | .312 | .475 | 3.56 | 3.51 | 22200 |
| 41 | 1/4 | .306 | .383 | .65 | .57 | 2000 |
| 50 | 3/8 | .400 | .594 | .89 | .83 | 6600 |
| 50-2 | 3/8 | .400 | .594 | 1.60 | 1.55 | 13200 |
| 50-3 | 3/8 | .400 | .594 | 2.31 | 2.26 | 19800 |
| 50-4 | 3/8 | .400 | .594 | 3.03 | 2.97 | 26400 |
| 50-5 | 3/8 | .400 | .594 | 3.75 | 3.69 | 33000 |
| 50-6 | 3/8 | .400 | .594 | 4.46 | 4.40 | 39600 |
| 60 | 1/2 | .469 | .712 | 1.11 | 1.04 | 8500 |
| 60-2 | 1/2 | .469 | .712 | 2.01 | 1.94 | 17000 |
| 60-3 | 1/2 | .469 | .712 | 2.91 | 2.84 | 25500 |
| 60-4 | 1/2 | .469 | .712 | 3.81 | 3.74 | 34000 |
| 60-5 | 1/2 | .469 | .712 | 4.71 | 4.64 | 42500 |
| 60-6 | 1/2 | .469 | .712 | 5.60 | 5.53 | 51000 |
| 80 | 5/8 | .625 | .950 | 1.44 | 1.32 | 14500 |
| 80-2 | 5/8 | .625 | .950 | 2.59 | 2.47 | 29000 |
| 80-3 | 5/8 | .625 | .950 | 3.74 | 3.62 | 43500 |
| 80-4 | 5/8 | .625 | .950 | 4.90 | 4.79 | 58000 |
| 80-5 | 5/8 | .625 | .950 | 6.06 | 5.94 | 72500 |
| 80-6 | 5/8 | .625 | .950 | 7.22 | 7.10 | 87000 |

*Dimensions are across pins.

| ANSI Number | Roller Width | Roller Dia. | Inside Link Plate Height | Cottered Chain Width* | Riveted Chain Width* | Average Tensile Strength |
|---|---|---|---|---|---|---|
| **Standard Series Chain** | | | | | | |
| 100 | 3/4 | .750 | 1.187 | 1.73 | 1.61 | 24000 |
| 100-2 | 3/4 | .750 | 1.187 | 3.14 | 3.02 | 48000 |
| 100-3 | 3/4 | .750 | 1.187 | 4.56 | 4.43 | 72000 |
| 100-4 | 3/4 | .750 | 1.187 | 5.97 | 5.84 | 96000 |
| 100-5 | 3/4 | .750 | 1.187 | 7.38 | 7.25 | 120000 |
| 100-6 | 3/4 | .750 | 1.187 | 8.78 | 8.66 | 144000 |
| 120 | 1 | .875 | 1.425 | 2.14 | 2.00 | 34000 |
| 120-2 | 1 | .875 | 1.425 | 3.93 | 3.79 | 68000 |
| 120-3 | 1 | .875 | 1.425 | 5.72 | 5.58 | 102000 |
| 120-4 | 1 | .875 | 1.425 | 7.52 | 7.38 | 136000 |
| 120-5 | 1 | .875 | 1.425 | 9.31 | 9.17 | 170000 |
| 120-6 | 1 | .875 | 1.425 | 11.10 | 10.96 | 204000 |
| 140 | 1 | 1.000 | 1.662 | 2.31 | 2.14 | 46000 |
| 140-2 | 1 | 1.000 | 1.662 | 4.24 | 4.07 | 92000 |
| 140-3 | 1 | 1.000 | 1.662 | 6.16 | 6.00 | 138000 |
| 140-4 | 1 | 1.000 | 1.662 | 8.09 | 7.93 | 184000 |
| 140-6 | 1 | 1.000 | 1.662 | 11.94 | 11.78 | 276000 |
| 160 | 1 1/4 | 1.125 | 1.900 | 2.73 | 2.54 | 58000 |
| 160-2 | 1 1/4 | 1.125 | 1.900 | 5.04 | 4.85 | 116000 |
| 160-3 | 1 1/4 | 1.125 | 1.900 | 7.35 | 7.16 | 174000 |
| 160-4 | 1 1/4 | 1.125 | 1.900 | 9.66 | 9.47 | 232000 |
| 160-6 | 1 1/4 | 1.125 | 1.900 | 14.27 | 14.09 | 348000 |
| 180 | 1 13/32 | 1.406 | 2.137 | 3.15 | 2.88 | 76000 |
| 180-2 | 1 13/32 | 1.406 | 2.137 | 5.75 | 5.48 | 152000 |
| 180-3 | 1 13/32 | 1.406 | 2.137 | 8.34 | 8.07 | 228000 |
| 200 | 1 1/2 | 1.562 | 2.375 | 3.44 | 3.12 | 95000 |
| 200-2 | 1 1/2 | 1.562 | 2.375 | 6.26 | 5.94 | 190000 |
| 200-3 | 1 1/2 | 1.562 | 2.375 | 9.08 | 8.76 | 285000 |
| 200-4 | 1 1/2 | 1.562 | 2.375 | 11.90 | 11.58 | 380000 |
| 200-6 | 1 1/2 | 1.562 | 2.375 | 17.52 | 17.21 | 570000 |
| 240 | 1 7/8 | 1.875 | 2.812 | 4.06 | 3.72 | 130000 |
| 240-2 | 1 7/8 | 1.875 | 2.812 | 7.52 | 7.18 | 260000 |

*Dimensions are across pins.

## Standard Keyways and Setscrews

| Diameter of Shaft | Keyway Width × Depth | Setscrew | Diameter of Shaft | Keyway Width × Depth | Setscrew |
|---|---|---|---|---|---|
| 1/2 - 9/16 | 1/8 × 1/16 | 10-24 | 2 5/16 - 2 3/4 | 5/8 × 5/16 | 5/8 * |
| 5/8 - 7/8 | 3/16 × 3/32 | 1/4 | 2 13/16 - 3 1/4 | 3/4 × 3/8 | 5/8 * |
| 15/16 - 1 1/4 | 1/4 × 1/8 | 5/16 | 3 5/16 - 3 3/4 | 7/8 × 7/16 | 3/4 |
| 1 5/16 - 1 3/8 | 5/16 × 5/32 | 5/16 | 3 13/16 - 4 1/2 | 1 × 1/2 | 3/4 |
| 1 7/16 - 1 3/4 | 3/8 × 3/16 | 3/8 | 4 9/16 - 5 1/2 | 1 1/4 × 5/8 | 3/4 |
| 1 13/16 - 2 1/4 | 1/2 × 1/4 | 1/2 * | 5 9/16 - 6 1/2 | 1 1/2 × 3/4 | 3/4 |

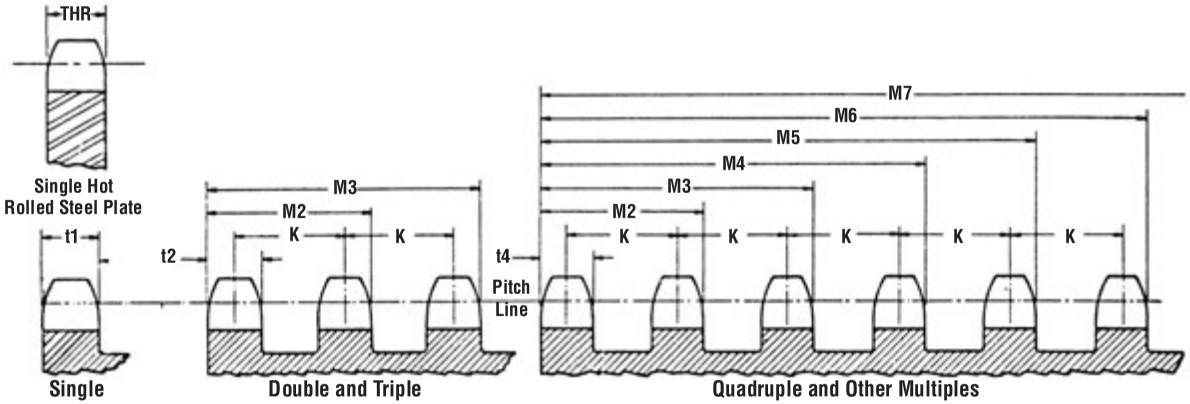
*Hub size may require smaller setscrews in some instances.

## Standard Bore Tolerances

| | |
|---|---|
| 1" and Less | + .001 -.000 |
| 1 1/16" to 2" | + .002 -.000 |
| 2 1/16" to 3" | + .003 -.000 |
| 3 1/16" & up | + .004 -.000 |

Bores with closer tolerances will be supplied at a slight increase in price.

# Sprocket Tooth Dimensions




## Dimensions in Inches

| Chain Data For All Sprockets | | | | Single Strand t1 & THR | Double and Triple Strand | | | For 4 or more Strands | | | | | | | | | | | Tolerance on t & M Machined | Minus Tolerance on THR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASA Chain No. | Pitch P | Roller Width W | Roller Dia. | | t2 | M2 | M3 | t4 | M2 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | K | | |
| **Standard Series Roller Chain Sprockets** | | | | | | | | | | | | | | | | | | | | |
| 25 | .25 | .125 | .130 | .110 | .107 | .359 | .611 | .096 | .348 | .600 | .852 | 1.104 | 1.356 | 1.860 | 2.364 | 2.868 | 3.876 | .252 | .007 | .021 |
| 35 | .375 | .188 | .200 | .168 | .162 | .561 | .960 | .149 | .548 | .947 | 1.346 | 1.745 | 2.144 | 2.942 | 3.740 | 4.538 | 6.134 | .399 | .008 | .027 |
| 41 | .5 | .25 | .306 | .227 | † | † | † | † | † | † | † | † | † | † | † | † | † | † | .009 | .032 |
| 40 | .5 | .313 | .312 | .284 | .275 | .841 | 1.407 | .256 | .822 | 1.388 | 1.954 | 2.520 | 3.086 | 4.218 | 5.250 | 6.482 | 8.746 | .566 | .009 | .035 |
| 50 | .625 | .375 | .400 | .343 | .332 | 1.045 | 1.758 | .311 | 1.024 | 1.737 | 2.450 | 3.163 | 3.876 | 5.302 | 6.728 | 8.154 | 11.006 | .713 | .010 | .036 |
| 60 | .75 | .5 | .469 | .459 | .444 | 1.341 | 2.238 | .418 | 1.315 | 2.212 | 3.108 | 4.006 | 4.903 | 6.697 | 8.491 | 10.258 | 13.873 | .897 | .011 | .036 |
| 80 | 1 | .625 | .625 | .575 | .557 | 1.700 | 2.863 | .526 | 1.679 | 2.832 | 3.985 | 5.138 | 6.291 | 8.597 | 10.903 | 13.209 | 17.821 | 1.153 | .012 | .040 |
| 100 | 1.25 | .75 | .750 | .692 | .669 | 2.077 | 3.484 | .633 | 2.041 | 3.449 | 4.857 | 6.265 | 7.673 | 10.489 | 13.305 | 16.121 | 21.753 | 1.408 | .014 | .046 |
| 120 | 1.5 | 1 | .875 | .924 | .894 | 2.683 | 4.472 | .848 | 2.637 | 4.426 | 6.215 | 8.004 | 9.793 | 13.371 | 16.949 | 20.527 | | 1.789 | .016 | .057 |
| 140 | 1.75 | 1 | 1.000 | .924 | .894 | 2.818 | 4.742 | .848 | 2.772 | 4.696 | 6.620 | 8.544 | 10.468 | 14.316 | 18.164 | 22.012 | | 1.924 | .016 | .057 |
| 160 | 2 | 1.25 | 1.125 | 1.156 | 1.119 | 3.424 | 5.729 | 1.063 | 3.368 | 5.673 | 7.978 | 10.283 | 12.588 | 17.198 | 21.808 | | | 2.305 | .019 | .062 |
| 180 | 2.25 | 1.406 | 1.406 | 1.301 | 1.259 | 3.851 | 6.443 | 1.197 | 3.789 | 6.381 | 8.973 | 11.565 | 14.157 | 19.341 | | | | 2.592 | -.020 | -.068 |
| 200 | 2.5 | 1.5 | 1.562 | 1.389 | 1.344 | 4.161 | 6.978 | 1.278 | 4.095 | 6.912 | 9.729 | 12.546 | 15.363 | 20.997 | | | | 2.817 | .021 | .072 |
| 240 | 3 | 1.875 | 1.875 | 1.738 | 1.682 | 5.140 | 8.598 | 1.601 | 5.059 | 8.517 | 11.975 | 15.433 | 18.891 | | | | | 3.458 | -.025 | -.087 |
| **Heavy Series Chain Sprockets** | | | | | | | | | | | | | | | | | | | | |
| 60H | .750 | .500 | .469 | .459 | .444 | 1.472 | 2.500 | .418 | 1.446 | 2.474 | 3.502 | 4.530 | 5.558 | 7.614 | | | | 1.028 | -.011 | -.036 |
| 80H | 1.000 | .625 | .625 | .575 | .557 | 1.840 | 3.123 | .526 | 1.809 | 3.092 | 4.375 | 5.568 | 6.941 | 9.507 | | | | 1.283 | -.012 | -.040 |
| 100H | 1.250 | .750 | .750 | .692 | .669 | 2.208 | 3.747 | .633 | 2.172 | 3.711 | 5.250 | 6.789 | 8.328 | 11.406 | | | | 1.539 | -.014 | -.046 |
| 120H | 1.500 | 1.000 | .875 | .924 | .894 | 2.818 | 4.742 | .848 | 2.772 | 4.696 | 6.620 | 8.544 | 10.468 | 14.316 | | | | 1.924 | -.016 | -.057 |
| 140H | 1.750 | 1.000 | 1.000 | .924 | .894 | 2.949 | 5.004 | .848 | 2.903 | 4.958 | 7.013 | 9.068 | 11.123 | 15.233 | | | | 2.055 | -.016 | -.057 |
| 160H | 2.000 | 1.250 | 1.125 | 1.156 | 1.119 | 3.555 | 5.991 | 1.063 | 3.499 | 5.935 | 8.371 | 10.807 | 13.243 | 18.115 | | | | 2.436 | -.019 | -.062 |
| 180H | 2.250 | 1.406 | 1.406 | 1.301 | 1.259 | 3.982 | 6.705 | 1.197 | 3.920 | 6.643 | 9.366 | 12.089 | 14.812 | 20.258 | | | | 2.723 | -.020 | -.068 |
| 200H | 2.500 | 1.500 | 1.562 | 1.389 | 1.344 | 4.427 | 7.510 | 1.278 | 4.361 | 7.444 | 10.527 | 13.610 | 16.693 | 22.859 | | | | 3.083 | -.021 | -.072 |

† = Not made in multiple strands.

# Maximum Hub Dimensions

## Recommended Max. Hub and Bore Sizes

### American Standard No. 25

| No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 555 | 9/64 | .... | 16 | 6940 | 31/32 | 9/16 | 26 | 8645 | 1 49/64 | 1 1/4 |
| 7 | 1300 | 15/64 | .... | 17 | 7290 | 1 3/64 | 5/8 | 27 | 8655 | 1 55/64 | 1 1/4 |
| 8 | 2080 | 5/16 | .... | 18 | 7590 | 1 1/8 | 3/4 | 28 | 8650 | 1 15/16 | 1 1/4 |
| 9 | 2860 | 7/16 | 1/4 | 19 | 7840 | 1 7/32 | 13/16 | 29 | 8625 | 2 1/64 | 1 1/4 |
| 10 | 3610 | 1/2 | 1/4 | 20 | 8050 | 1 19/64 | 7/8 | 30 | 8580 | 2 3/32 | 1 5/16 |
| 11 | 4310 | 9/16 | 5/16 | 21 | 8230 | 1 3/8 | 7/8 | 31 | 8540 | 2 11/64 | 1 3/8 |
| 12 | 4960 | 41/64 | 3/8 | 22 | 8370 | 1 29/64 | 15/16 | 32 | 8465 | 2 1/4 | 1 1/2 |
| 13 | 5540 | 47/64 | 7/16 | 23 | 8480 | 1 17/32 | 1 | 35 | 8200 | 2 31/64 | 1 11/16 |
| 14 | 6070 | 13/16 | 9/16 | 24 | 8560 | 1 39/64 | 1 1/16 | 40 | 7580 | 2 57/64 | 1 7/8 |
| 15 | 6530 | 57/64 | 9/16 | 25 | 8610 | 1 11/16 | 1 3/16 | 45 | 6820 | 3 9/32 | 2 1/4 |

**Std. Keyway (Am. Std.) and Setscrew**

| Diameter of Shaft | Keyway Width x Depth | Dia. of Set-Screw | Min. Added To Bore For Adequate Hub Wall Steel Sprockets: Setscrew Over Key | Setscrew not over key |
|---|---|---|---|---|
| 3/8 | 3/32 × 3/64 | 3/16 | 7/16 | 3/8 |
| 7/16 | 3/32 × 3/64 | 3/16 | 15/32 | 3/8 |
| 1/2 - 9/16 | 1/8 × 1/16 | 3/16 | 1/2 | 3/8 |
| 5/8 - 7/8 | 3/16 × 3/32 | 1/4 | 11/16 | 1/2 |
| 15/16 - 1 1/4 | 1/4 × 1/8 | 1/4 | 3/4 | 1/2 |
| 1 5/16 - 1 3/8 | 5/16 × 5/32 | 5/16 | 15/16 | 5/8 |
| 1 7/16 - 1 3/4 | 3/8 × 3/16 | 3/8 | 1 1/8 | 3/4 |

### American Standard No. 35

| No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 290 | 15/64 | .... | 16 | 3630 | 1 15/32 | 15/16 | 26 | 4525 | 2 43/64 | 1 3/4 |
| 7 | 680 | 3/8 | .... | 17 | 3810 | 1 19/32 | 1 1/16 | 27 | 4530 | 2 51/64 | 1 3/4 |
| 8 | 1090 | 1/2 | 1/4 | 18 | 3970 | 1 23/32 | 1 3/16 | 28 | 4525 | 2 59/64 | 1 7/8 |
| 9 | 1495 | 5/8 | 3/8 | 19 | 4100 | 1 27/32 | 1 1/4 | 29 | 4510 | 3 1/32 | 2 |
| 10 | 1885 | 3/4 | 1/2 | 20 | 4210 | 1 61/64 | 1 1/4 | 30 | 4490 | 3 5/32 | 2 1/8 |
| 11 | 2260 | 55/64 | 9/16 | 21 | 4300 | 2 5/64 | 1 5/16 | 31 | 4470 | 3 9/32 | 2 1/4 |
| 12 | 2590 | 63/64 | 9/16 | 22 | 4380 | 2 13/64 | 1 7/16 | 32 | 4430 | 3 25/64 | 2 1/4 |
| 13 | 2900 | 1 7/64 | 11/16 | 23 | 4430 | 2 5/16 | 1 9/16 | 35 | 4290 | 3 3/4 | 2 1/2 |
| 14 | 3170 | 1 15/64 | 13/16 | 24 | 4480 | 2 7/16 | 1 11/16 | 40 | 3970 | 4 23/64 | 2 13/16 |
| 15 | 3420 | 1 23/64 | 7/8 | 25 | 4510 | 2 9/16 | 1 3/4 | 45 | 3570 | 4 61/64 | 3 1/4 |

**Std. Keyway (Am. Std.) and Setscrew**

| Diameter of Shaft | Keyway Width x Depth | Dia. of Set-Screw | Min. Added To Bore For Adequate Hub Wall Steel Sprockets: Setscrew Over Key | Setscrew not over key |
|---|---|---|---|---|
| 7/16 | 3/32 × 3/64 | 3/16 | 15/32 | 3/8 |
| 1/2 - 9/16 | 1/8 × 1/16 | 3/16 | 1/2 | 3/8 |
| 5/8 - 7/8 | 3/16 × 3/32 | 1/4 | 11/16 | 1/2 |
| 15/16 - 1 1/4 | 1/4 × 1/8 | 1/4 | 3/4 | 1/2 |
| 1 5/16 - 1 3/8 | 5/16 × 5/32 | 5/16 | 15/16 | 5/8 |
| 1 7/16 - 1 3/4 | 3/8 × 3/16 | 3/8 | 1 1/8 | 3/4 |
| 1 13/16 - 2 1/4 | 1/2 × 1/4 | 1/2 | 1 1/2 | 1 |

### American Standard No. 41

| No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 130 | 27/64 | 1/8 | 16 | 1630 | 2 1/16 | 1 5/16 | 26 | 2040 | 3 43/64 | 2 3/8 |
| 7 | 305 | 19/32 | 5/16 | 17 | 1720 | 2 15/64 | 1 7/16 | 27 | 2040 | 3 53/64 | 2 9/16 |
| 8 | 495 | 49/64 | 1/2 | 18 | 1790 | 2 25/64 | 1 5/8 | 28 | 2040 | 4 | 2 3/4 |
| 9 | 675 | 15/16 | 9/16 | 19 | 1850 | 2 35/64 | 1 3/4 | 29 | 2040 | 4 5/32 | 2 3/4 |
| 10 | 850 | 1 3/32 | 11/16 | 20 | 1890 | 2 23/32 | 1 3/4 | 30 | 2020 | 4 5/16 | 2 13/16 |
| 11 | 1020 | 1 17/64 | 7/8 | 21 | 1940 | 2 7/8 | 1 7/8 | 31 | 2020 | 4 15/32 | 2 15/16 |
| 12 | 1170 | 1 27/64 | 7/8 | 22 | 1970 | 3 1/32 | 2 | 32 | 2000 | 4 41/64 | 3 1/8 |
| 13 | 1310 | 1 37/64 | 1 1/16 | 23 | 2000 | 3 3/16 | 2 3/16 | 35 | 1930 | 5 7/64 | 3 5/16 |
| 14 | 1430 | 1 3/4 | 1 1/4 | 24 | 2020 | 3 23/64 | 2 1/4 | 40 | 1780 | 5 29/32 | 3 7/8 |
| 15 | 1540 | 1 29/32 | 1 1/4 | 25 | 2030 | 3 33/64 | 2 1/4 | 45 | 1600 | 6 45/64 | 4 15/16 |

**Std. Keyway (Am. Std.) and Setscrew**

| Diameter of Shaft | Keyway Width x Depth | Dia. of Set-Screw | Min. Added To Bore For Adequate Hub Wall Steel Sprockets: Setscrew Over Key | Setscrew not over key |
|---|---|---|---|---|
| 5/8 - 7/8 | 3/16 × 3/32 | 1/4 | 11/16 | 1/2 |
| 15/16 - 1 1/4 | 1/4 × 1/8 | 1/4 | 3/4 | 1/2 |
| 1 5/16 - 1 3/8 | 5/16 × 5/32 | 5/16 | 15/16 | 5/8 |
| 1 7/16 - 1 3/4 | 3/8 × 3/16 | 3/8 | 1 1/8 | 3/4 |
| 1 13/16 - 2 1/4 | 1/2 × 1/4 | 1/2 | 1 1/2 | 1 |
| 2 5/16 - 2 3/4 | 5/8 × 5/16 | 5/8 | 1 7/8 | 1 1/4 |
| 2 13/16 - 3 1/4 | 3/4 × 3/8 | 3/4 | 2 1/4 | 1 1/2 |

### American Standard No. 40

| No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 220 | 21/64 | .... | 16 | 2720 | 1 63/64 | 1 1/4 | 26 | 3400 | 3 37/64 | 2 5/16 |
| 7 | 510 | 1/2 | 1/4 | 17 | 2860 | 2 9/64 | 1 5/16 | 27 | 3405 | 3 47/64 | 2 7/16 |
| 8 | 820 | 43/64 | 3/8 | 18 | 2980 | 2 19/64 | 1 1/2 | 28 | 3405 | 3 29/32 | 2 5/8 |
| 9 | 1125 | 27/32 | 9/16 | 19 | 3080 | 2 29/64 | 1 11/16 | 29 | 3395 | 4 1/16 | 2 3/4 |
| 10 | 1420 | 1 | 5/8 | 20 | 3160 | 2 5/8 | 1 3/4 | 30 | 3370 | 4 7/32 | 2 3/4 |
| 11 | 1690 | 1 11/64 | 3/4 | 21 | 3230 | 2 25/32 | 1 3/4 | 31 | 3360 | 4 3/8 | 2 7/8 |
| 12 | 1940 | 1 21/64 | 7/8 | 22 | 3290 | 2 15/16 | 1 15/16 | 32 | 3330 | 4 35/64 | 3 |
| 13 | 2180 | 1 1/2 | 1 | 23 | 3330 | 3 3/32 | 2 1/16 | 35 | 3220 | 5 1/64 | 3 1/4 |
| 14 | 2380 | 1 21/32 | 1 1/8 | 24 | 3360 | 3 17/64 | 2 1/4 | 40 | 2970 | 5 13/16 | 3 13/16 |
| 15 | 2560 | 1 13/16 | 1 1/4 | 25 | 3380 | 3 27/64 | 2 1/4 | 45 | 2670 | 6 39/64 | 4 13/16 |

**Std. Keyway (Am. Std.) and Setscrew**

| Diameter of Shaft | Keyway Width x Depth | Dia. of Set-Screw | Min. Added To Bore For Adequate Hub Wall Steel Sprockets: Setscrew Over Key | Setscrew not over key |
|---|---|---|---|---|
| 5/8 - 7/8 | 3/16 × 3/32 | 1/4 | 11/16 | 1/2 |
| 15/16 - 1 1/4 | 1/4 × 1/8 | 1/4 | 3/4 | 1/2 |
| 1 5/16 - 1 3/8 | 5/16 × 5/32 | 5/16 | 15/16 | 5/8 |
| 1 7/16 - 1 3/4 | 3/8 × 3/16 | 3/8 | 1 1/8 | 3/4 |
| 1 13/16 - 2 1/4 | 1/2 × 1/4 | 1/2 | 1 1/2 | 1 |
| 2 5/16 - 2 3/4 | 5/8 × 5/16 | 5/8 | 1 7/8 | 1 1/4 |
| 2 13/16 - 3 1/4 | 3/4 × 3/8 | 3/4 | 2 1/4 | 1 1/2 |

### American Standard No. 50

| No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 155 | 27/64 | 1/8 | 16 | 1960 | 2 31/64 | 1 11/16 | 26 | 2445 | 4 31/64 | 2 15/16 |
| 7 | 370 | 41/64 | 3/8 | 17 | 2060 | 2 11/16 | 1 3/4 | 27 | 2450 | 4 11/16 | 3 3/16 |
| 8 | 590 | 27/32 | 9/16 | 18 | 2150 | 2 57/64 | 1 7/8 | 28 | 2445 | 4 57/64 | 3 1/4 |
| 9 | 810 | 1 1/16 | 11/16 | 19 | 2220 | 3 5/64 | 2 1/16 | 29 | 2440 | 5 5/64 | 3 5/16 |
| 10 | 1020 | 1 17/64 | 7/8 | 20 | 2280 | 3 9/32 | 2 1/4 | 30 | 2430 | 5 9/32 | 3 1/2 |
| 11 | 1220 | 1 15/32 | 15/16 | 21 | 2330 | 3 31/64 | 2 1/4 | 31 | 2415 | 5 31/64 | 3 11/16 |
| 12 | 1400 | 1 43/64 | 1 1/8 | 22 | 2370 | 3 11/16 | 2 7/16 | 32 | 2395 | 5 11/16 | 3 3/4 |
| 13 | 1570 | 1 7/8 | 1 1/4 | 23 | 2400 | 3 57/64 | 2 5/8 | 35 | 2320 | 6 9/32 | 4 9/32 |
| 14 | 1720 | 2 5/64 | 1 5/16 | 24 | 2420 | 4 5/64 | 2 3/4 | 40 | 2140 | 7 9/32 | 5 1/2 |
| 15 | 1850 | 2 9/32 | 1 1/2 | 25 | 2440 | 4 9/32 | 2 3/4 | 45 | 1930 | 8 9/32 | 6 1/4 |

**Std. Keyway (Am. Std.) and Setscrew**

| Diameter of Shaft | Keyway Width x Depth | Dia. of Set-Screw | Min. Added To Bore For Adequate Hub Wall Steel Sprockets: Setscrew Over Key | Setscrew not over key |
|---|---|---|---|---|
| 5/8 - 7/8 | 3/16 × 3/32 | 1/4 | 11/16 | 1/2 |
| 15/16 - 1 1/4 | 1/4 × 1/8 | 1/4 | 3/4 | 1/2 |
| 1 5/16 - 1 3/8 | 5/16 × 5/32 | 5/16 | 15/16 | 5/8 |
| 1 7/16 - 1 3/4 | 3/8 × 3/16 | 3/8 | 1 1/8 | 3/4 |
| 1 13/16 - 2 1/4 | 1/2 × 1/4 | 1/2 | 1 1/2 | 1 |
| 2 5/16 - 2 3/4 | 5/8 × 5/16 | 5/8 | 1 7/8 | 1 1/4 |
| 2 13/16 - 3 1/4 | 3/4 × 3/8 | 3/4 | 2 1/4 | 1 1/2 |

### American Standard No. 60

| No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 120 | 33/64 | 1/4 | 16 | 1480 | 2 63/64 | 1 15/16 | 26 | 1840 | 5 25/64 | 3 5/8 |
| 7 | 275 | 49/64 | 1/2 | 17 | 1550 | 3 7/32 | 2 3/16 | 27 | 1845 | 5 5/8 | 3 3/4 |
| 8 | 445 | 1 1/32 | 5/8 | 18 | 1610 | 3 15/32 | 2 1/4 | 28 | 1840 | 5 7/8 | 3 7/8 |
| 9 | 610 | 1 9/32 | 7/8 | 19 | 1670 | 3 45/64 | 2 7/16 | 29 | 1835 | 6 7/64 | 4 1/16 |
| 10 | 770 | 1 33/64 | 1 | 20 | 1720 | 3 61/64 | 2 11/16 | 30 | 1830 | 6 11/32 | 4 9/16 |
| 11 | 920 | 1 49/64 | 1 1/4 | 21 | 1750 | 4 3/16 | 2 3/4 | 31 | 1815 | 6 19/32 | 4 13/16 |
| 12 | 1050 | 2 1/64 | 1 1/4 | 22 | 1780 | 4 7/16 | 2 15/16 | 32 | 1800 | 6 53/64 | 5 1/16 |
| 13 | 1180 | 2 1/4 | 1 1/2 | 23 | 1800 | 4 43/64 | 3 1/8 | 35 | 1740 | 7 35/64 | 5 1/2 |
| 14 | 1290 | 2 1/2 | 1 3/4 | 24 | 1820 | 4 29/32 | 3 1/4 | 40 | 1610 | 8 3/4 | 6 1/2 |
| 15 | 1390 | 2 3/4 | 1 3/4 | 25 | 1830 | 5 5/32 | 3 3/8 | 45 | 1450 | 9 15/16 | 7 7/16 |

**Std. Keyway (Am. Std.) and Setscrew**

| Diameter of Shaft | Keyway Width x Depth | Dia. of Set-Screw | Min. Added To Bore For Adequate Hub Wall Steel Sprockets: Setscrew Over Key | Setscrew not over key |
|---|---|---|---|---|
| 15/16 - 1 1/4 | 1/4 × 1/8 | 1/4 | 3/4 | 1/2 |
| 1 5/16 - 1 3/8 | 5/16 × 5/32 | 5/16 | 15/16 | 5/8 |
| 1 7/16 - 1 3/4 | 3/8 × 3/16 | 3/8 | 1 1/8 | 3/4 |
| 1 13/16 - 2 1/4 | 1/2 × 1/4 | 1/2 | 1 1/2 | 1 |
| 2 5/16 - 2 3/4 | 5/8 × 5/16 | 5/8 | 1 7/8 | 1 1/4 |
| 2 13/16 - 31/4 | 3/4 × 3/8 | 3/4 | 2 1/4 | 1 1/2 |
| 3 5/16 - 3 3/4 | 7/8 × 7/16 | 3/4 | 2 3/8 | 1 3/4 |

# Maximum Hub Dimensions

## Recommended Max. Hub and Bore Sizes

### American Standard No. 80

| No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 75 | 45/64 | 7/16 | 16 | 935 | 3 63/64 | 2 11/16 | 26 | 1165 | 7 13/64 | 5 7/16 |
| 7 | 175 | 1 3/64 | 5/8 | 17 | 985 | 4 5/16 | 2 13/16 | 27 | 1170 | 6 33/64 | 5 1/2 |
| 8 | 280 | 1 3/8 | 7/8 | 18 | 1020 | 4 41/64 | 3 1/8 | 28 | 1170 | 7 27/32 | 5 13/16 |
| 9 | 385 | 1 23/32 | 1 3/16 | 19 | 1060 | 4 61/64 | 3 1/4 | 29 | 1165 | 8 5/32 | 6 1/8 |
| 10 | 485 | 2 3/64 | 1 1/4 | 20 | 1090 | 5 9/32 | 3 1/2 | 30 | 1160 | 8 31/64 | 6 7/16 |
| 11 | 580 | 2 3/8 | 1 5/8 | 21 | 1110 | 5 19/32 | 3 3/4 | 31 | 1155 | 8 51/64 | 6 1/2 |
| 12 | 670 | 2 45/64 | 1 3/4 | 22 | 1130 | 5 59/64 | 3 7/8 | 32 | 1143 | 9 7/64 | 6 9/16 |
| 13 | 750 | 3 1/64 | 2 | 23 | 1150 | 6 15/64 | 4 3/16 | 35 | 1110 | 10 5/64 | 7 1/2 |
| 14 | 820 | 3 11/32 | 2 1/4 | 24 | 1160 | 6 9/16 | 4 13/16 | 40 | 1020 | 11 43/64 | 8 5/8 |
| 15 | 880 | 3 43/64 | 2 3/8 | 25 | 1160 | 6 7/8 | 5 1/8 | 45 | 920 | 13 17/64 | 9 3/4 |

**Std. Keyway (Am. Std.) and Setscrew**

| Diameter of Shaft | Keyway Width x Depth | Dia. of Set-Screw | Min. Added To Bore For Adequate Hub Wall Steel Sprockets: Setscrew Over Key | Setscrew not over key |
|---|---|---|---|---|
| 15/16 - 1 1/4 | 1/4 × 1/8 | 1/4 | 3/4 | 1/2 |
| 15/16 - 1 3/8 | 5/16 × 5/32 | 5/16 | 15/16 | 5/8 |
| 17/16 - 1 3/4 | 3/8 × 3/16 | 3/8 | 1 1/8 | 3/4 |
| 113/16 - 2 1/4 | 1/2 × 1/4 | 1/2 | 1 1/2 | 1 |
| 25/16 - 2 3/4 | 5/8 × 5/16 | 5/8 | 1 7/8 | 1 1/4 |
| 2 13/16 - 3 1/4 | 3/4 × 3/8 | 3/4 | 2 1/4 | 1 1/2 |
| 3 5/16 - 3 3/4 | 7/8 × 7/16 | 3/4 | 2 3/8 | 1 3/4 |

### American Standard No. 100

| No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 55 | 7/8 | 9/16 | 16 | 670 | 5 | 3 1/4 | 26 | 830 | 9 1/64 | 61/2 |
| 7 | 125 | 1 5/16 | 7/8 | 17 | 700 | 5 13/32 | 3 5/8 | 27 | 835 | 9 13/32 | 67/8 |
| 8 | 200 | 1 47/64 | 1 3/16 | 18 | 730 | 5 51/64 | 3 3/4 | 28 | 830 | 9 13/16 | 75/16 |
| 9 | 275 | 2 9/64 | 1 3/8 | 19 | 755 | 6 13/64 | 4 3/16 | 29 | 830 | 10 13/64 | 7 1/2 |
| 10 | 350 | 2 9/16 | 1 3/4 | 20 | 775 | 6 39/64 | 4 13/64 | 30 | 825 | 10 39/64 | 7 9/16 |
| 11 | 415 | 2 31/32 | 1 15/16 | 21 | 790 | 7 | 5 1/4 | 31 | 820 | 11 | 8 |
| 12 | 475 | 3 3/8 | 2 1/4 | 22 | 805 | 7 13/32 | 5 1/2 | 32 | 815 | 11 13/32 | 8 3/8 |
| 13 | 535 | 3 25/32 | 2 1/2 | 23 | 815 | 7 13/16 | 5 13/16 | 35 | 790 | 12 39/64 | 9 1/16 |
| 14 | 585 | 4 3/16 | 2 3/4 | 24 | 825 | 8 13/64 | 6 3/16 | 40 | 730 | 14 19/32 | .... |
| 15 | 630 | 4 19/32 | 3 1/16 | 25 | 830 | 8 39/64 | 6 1/2 | 45 | 655 | 16 19/32 | .... |

**Std. Keyway (Am. Std.) and Setscrew**

| Diameter of Shaft | Keyway Width x Depth | Dia. of Set-Screw | Min. Added To Bore For Adequate Hub Wall Steel Sprockets: Setscrew Over Key | Setscrew not over key |
|---|---|---|---|---|
| 15/16 - 1 3/8 | 5/16 × 5/32 | 5/16 | 15/16 | 5/8 |
| 1 7/16 - 1 3/4 | 3/8 × 3/16 | 3/8 | 1 1/8 | 3/4 |
| 1 13/16 - 2 1/4 | 1/2 × 1/4 | 1/2 | 1 1/2 | 1 |
| 2 5/16 - 2 3/4 | 5/8 × 5/16 | 5/8 | 1 7/8 | 1 1/4 |
| 2 13/16 - 3 1/4 | 3/4 × 3/8 | 3/4 | 2 1/4 | 1 1/2 |
| 3 5/16 - 3 3/4 | 7/8 × 7/16 | 3/4 | 2 3/8 | 1 3/4 |
| 3 13/16 - 4 1/2 | 1 × 1/2 | 3/4 | 2 1/2 | 2 |

### American Standard No. 120

| No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 40 | 1 1/16 | 11/16 | 16 | 520 | 6 | 4 | 26 | 650 | 10 1 3/16 | 7 13/64 |
| 7 | 100 | 1 37/64 | 1 1/16 | 17 | 550 | 6 31/64 | 4 7/16 | 27 | 650 | 11 1 9/64 | 8 1/4 |
| 8 | 155 | 2 5/64 | 1 5/16 | 18 | 570 | 6 31/32 | 5 3/16 | 28 | 650 | 11 2 5/32 | 8 3/8 |
| 9 | 215 | 2 37/64 | 1 3/4 | 19 | 590 | 7 29/64 | 5 1/2 | 29 | 650 | 12 1/4 | 8 15/16 |
| 10 | 270 | 3 5/64 | 2 1/16 | 20 | 605 | 7 15/16 | 5 15/16 | 30 | 645 | 12 4 7/64 | 9 3/16 |
| 11 | 325 | 3 37/64 | 2 5/16 | 21 | 620 | 8 27/64 | 6 3/8 | 31 | 645 | 13 7/32 | 9 11/16 |
| 12 | 375 | 4 1/16 | 2 3/4 | 22 | 630 | 8 57/64 | 6 1/2 | 32 | 640 | 13 11/16 | 10 3/16 |
| 13 | 415 | 4 35/64 | 3 | 23 | 640 | 9 3/8 | 6 7/8 | 35 | 615 | 15 1/8 | .... |
| 14 | 455 | 5 1/32 | 3 1/4 | 24 | 645 | 9 55/64 | 7 5/16 | 40 | 570 | 17 33/64 | .... |
| 15 | 490 | 5 33/64 | 3 3/4 | 25 | 650 | 10 11/32 | 7 1/2 | 45 | 515 | 19 5 9/64 | .... |

**Std. Keyway (Am. Std.) and Setscrew**

| Diameter of Shaft | Keyway Width x Depth | Dia. of Set-Screw | Min. Added To Bore For Adequate Hub Wall Steel Sprockets: Setscrew Over Key | Setscrew not over key |
|---|---|---|---|---|
| 1 7/16 - 1 3/4 | 3/8 × 3/16 | 3/8 | 1 1/8 | 3/4 |
| 1 13/16 - 2 1/4 | 1/2 × 1/4 | 1/2 | 1 1/2 | 1 |
| 2 5/16 - 2 3/4 | 5/8 × 5/16 | 5/8 | 1 7/8 | 1 1/4 |
| 2 13/16 - 3 1/4 | 3/4 × 3/8 | 3/4 | 2 1/4 | 1 1/2 |
| 3 5/16 - 3 3/4 | 7/8 × 7/16 | 3/4 | 2 3/8 | 1 3/4 |
| 3 13/16 - 4 1/2 | 1 × 1/2 | 3/4 | 2 1/2 | 2 |
| 4 9/16 - 5 1/2 | 1 1/4 × 5/8 | 3/4 | 2 3/8 | 1 3/4 |

### American Standard No. 140

| No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 30 | 1 1/4 | 7/8 | 16 | 380 | 7 1/64 | 5 1/4 | 26 | 475 | 12 5/8 | 9 1/8 |
| 7 | 70 | 1 27/32 | 1 1/4 | 17 | 400 | 7 37/64 | 5 9/16 | 27 | 475 | 13 3/16 | 9 11/16 |
| 8 | 115 | 2 7/16 | 1 11/16 | 18 | 415 | 8 9/64 | 6 1/8 | 28 | 475 | 13 3/4 | 10 1/4 |
| 9 | 150 | 3 1/64 | 2 | 19 | 430 | 8 45/64 | 6 1/2 | 29 | 475 | 14 19/64 | 10 3/4 |
| 10 | 200 | 3 19/32 | 2 5/16 | 20 | 440 | 9 17/64 | 6 3/4 | 30 | 470 | 14 55/64 | .... |
| 11 | 235 | 4 11/64 | 2 3/4 | 21 | 450 | 9 53/64 | 7 5/16 | 31 | 470 | 15 27/64 | .... |
| 12 | 270 | 4 3/4 | 3 1/4 | 22 | 460 | 1 025/64 | 7 1/2 | 32 | 465 | 15 63/64 | .... |
| 13 | 305 | 5 5/16 | 3 9/16 | 23 | 465 | 1 015/16 | 7 15/16 | 35 | 450 | 17 21/32 | .... |
| 14 | 335 | 5 7/8 | 3 7/8 | 24 | 470 | 11 1/2 | 8 1/2 | 40 | 415 | 20 29/64 | .... |
| 15 | 360 | 6 29/64 | 4 7/16 | 25 | 475 | 12 1/16 | 8 15/16 | 45 | 375 | 23 15/64 | .... |

**Std. Keyway (Am. Std.) and Setscrew**

| Diameter of Shaft | Keyway Width x Depth | Dia. of Set-Screw | Min. Added To Bore For Adequate Hub Wall Steel Sprockets: Setscrew Over Key | Setscrew not over key |
|---|---|---|---|---|
| 1 7/16 - 1 3/4 | 3/8 × 3/16 | 3/8 | 1 1/8 | 3/4 |
| 1 13/16 - 2 1/4 | 1/2 × 1/4 | 1/2 | 1 1/2 | 1 |
| 2 5/16 - 2 3/4 | 5/8 × 5/16 | 5/8 | 1 7/8 | 1 1/4 |
| 2 15/16 - 3 1/4 | 3/4 × 3/8 | 3/4 | 2 1/4 | 1 1/2 |
| 3 5/16 - 3 3/4 | 7/8 × 7/16 | 3/4 | 2 3/8 | 1 3/4 |
| 3 15/16 - 4 1/2 | 1 × 1/2 | 3/4 | 2 1/2 | 2 |
| 4 9/16 - 5 1/2 | 1 1/4 × 5/8 | 3/4 | 2 3/8 | 1 3/4 |

### American Standard No. 160

| No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 25 | 1 27/64 | 7/8 | 16 | 325 | 8 1/64 | 6 | 26 | 405 | 14 7/16 | 10 15/16 |
| 7 | 60 | 2 7/64 | 1 3/8 | 17 | 340 | 8 21/32 | 6 1/2 | 27 | 405 | 15 5/64 | .... |
| 8 | 100 | 2 51/64 | 1 3/4 | 18 | 355 | 9 5/16 | 6 13/16 | 28 | 405 | 15 23/32 | .... |
| 9 | 135 | 3 29/64 | 2 1/4 | 19 | 365 | 9 61/64 | 7 7/16 | 29 | 400 | 16 23/64 | .... |
| 10 | 170 | 4 1/8 | 2 3/4 | 20 | 375 | 10 19/32 | 7 9/16 | 30 | 400 | 17 | .... |
| 11 | 200 | 4 25/32 | 3 1/4 | 21 | 385 | 11 15/64 | 8 3/16 | 31 | 400 | 17 5/8 | .... |
| 12 | 230 | 5 27/64 | 3 5/8 | 22 | 390 | 11 7/8 | 8 7/8 | 32 | 395 | 18 17/64 | .... |
| 13 | 260 | 6 5/64 | 4 1/16 | 23 | 395 | 12 33/64 | 9 | 35 | 380 | 20 3/16 | .... |
| 14 | 280 | 6 22/32 | 4 15/16 | 24 | 400 | 13 5/32 | 9 5/8 | 40 | 355 | 23 3/8 | .... |
| 15 | 305 | 7 3/8 | 5 1/2 | 25 | 400 | 13 51/64 | 10 1/4 | 45 | 320 | 26 9/16 | .... |

**Std. Keyway (Am. Std.) and Setscrew**

| Diameter of Shaft | Keyway Width x Depth | Dia. of Set-Screw | Min. Added To Bore For Adequate Hub Wall Steel Sprockets: Setscrew Over Key | Setscrew not over key |
|---|---|---|---|---|
| 1 3/16 - 2 1/4 | 1/2 × 1/4 | 1/2 | 1 1/2 | 1 |
| 2 5/16 - 2 3/4 | 5/8 × 5/16 | 5/8 | 1 7/8 | 1 1/4 |
| 2 13/16 - 3 1/4 | 3/4 × 3/8 | 3/4 | 2 1/4 | 1 1/2 |
| 3 5/16 - 3 3/4 | 7/8 × 7/16 | 3/4 | 2 3/8 | 1 3/4 |
| 3 13/16 - 4 1/2 | 1 × 1/2 | 3/4 | 2 1/2 | 2 |
| 4 9/16 - 5 1/2 | 1 1/4 × 5/8 | 3/4 | 2 3/8 | 1 3/4 |
| 5 9/16 - 6 1/2 | 1 1/2 × 3/4 | 3/4 | 3 | 2 |

### American Standard No. 200

| No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore | No. of Teeth | Max RPM | Max Hub | Max Bore |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 20 | 1 51/64 | 1 1/4 | 16 | 235 | 10 1/32 | 7 1/2 | 26 | 290 | 18 3/64 | .... |
| 7 | 45 | 2 21/32 | 1 7/8 | 17 | 245 | 10 27/32 | 7 13/16 | 27 | 290 | 18 55/64 | .... |
| 8 | 70 | 3 1/2 | 2 1/4 | 18 | 255 | 11 41/64 | 8 5/8 | 28 | 290 | 19 21/32 | .... |
| 9 | 95 | 4 21/64 | 2 13/16 | 19 | 265 | 12 7/16 | 8 15/16 | 29 | 290 | 20 29/64 | .... |
| 10 | 120 | 5 5/32 | 3 3/8 | 20 | 270 | 13 1/4 | 9 3/4 | 30 | 290 | 21 1/4 | .... |
| 11 | 145 | 5 63/64 | 3 15/16 | 21 | 280 | 14 3/64 | 10 1/2 | 31 | 400 | 22 3/64 | .... |
| 12 | 165 | 6 51/64 | 5 | 22 | 280 | 14 27/32 | .... | 32 | 285 | 22 27/32 | .... |
| 13 | 185 | 7 39/64 | 5 9/16 | 23 | 285 | 15 21/32 | .... | 35 | 275 | 25 15/64 | .... |
| 14 | 205 | 8 27/64 | 6 3/8 | 24 | 290 | 16 29/64 | .... | 40 | 255 | 29 15/64 | .... |
| 15 | 220 | 9 7/32 | 6 1/2 | 25 | 290 | 17 1/4 | .... | 45 | 230 | 33 7/32 | .... |

**Std. Keyway (Am. Std.) and Setscrew**

| Diameter of Shaft | Keyway Width x Depth | Dia. of Set-Screw | Min. Added To Bore For Adequate Hub Wall Steel Sprockets: Setscrew Over Key | Setscrew not over key |
|---|---|---|---|---|
| 2 5/16 - 2 3/4 | 5/8 × 5/16 | 5/8 | 1 7/8 | 1 1/4 |
| 2 13/16 - 3 1/4 | 3/4 × 3/8 | 3/4 | 2 1/4 | 1 1/2 |
| 3 5/16 - 3 3/4 | 7/8 × 7/16 | 3/4 | 2 3/8 | 1 3/4 |
| 3 13/16 - 4 1/2 | 1 × 1/2 | 3/4 | 2 1/2 | 2 |
| 4 9/16 - 5 1/2 | 1 1/4 × 5/8 | 3/4 | 2 3/8 | 1 3/4 |
| 5 9/16 - 6 1/2 | 1 1/2 × 3/4 | 3/4 | 3 | 2 |
| 6 9/16 - 7 1/2 | 1 3/4 × 3/4 | 3/4 | 3 1/4 | 2 1/2 |

# Application Data and Selection Procedure

## How to Check Horsepower Rating of Installed Drive

1. Determine the types of driving and driven loads and obtain the proper service factor, as explained in Steps 1 and 2 under
2. Selection Procedures.
3. Find the multiple strand factor, for the number of chain strands in the drive, from the Multiple Strand Factor Table, in Horsepower Tables (Page E-186 thru E-192).
4. From the horsepower rating table for the chain pitch, read the figure under the RPM of the small sprocket and to the right of the column giving number of teeth in the small sprocket.
5. The horsepower this drive can properly transmit is as follows:

$$\text{Horsepower Drive Can Transmit} = \frac{\left(\text{Rating Table Horsepower}\right) \times \left(\text{Multiple Strand}\right)}{\text{Service Factor}}$$

## Center Distance

The following general principals should be applied in determining shaft center distances. The center distance must always be greater than one-half the sum of the sprocket outside diameters to avoid interference of teeth. When the speed ratio is greater than 3 to 1, the center distance should be not less than the sum of the sprocket diameters. Chain wrap should be at least 120° of the small sprocket — one-third of the teeth meshing.

Longer center distances give greater chain wrap. For average applications a center distance of 30 to 50 pitches of chain is recommended for best results. For pulsating loads, a center distance of 20 to 30 pitches may be desirable. For center distances of 80 pitches or greater, idlers or chain guides should be used to support the chain. Slightly adjustable center distances will provide chain tension as the chain elongates with wear.

## Alignment

Accurate alignment of shafts and sprocket tooth faces provide uniform distribution of the load across the entire chain width and contributes substantially to optimum drive life. Shafting, bearings, and foundations should be suitable to maintain the initial alignment. Periodic maintenance should include an inspection of alignment to insure optimum chain life.

## Design Horsepower

When making drive selections consideration is given to the loads imposed on the chain. Service factors based on the type of equipment to be driven (Table I, Page E162) and the type of input power (Table II, Page E162) are used to compensate for these loads.

## Horsepower Rating Tables

The horsepower ratings in this catalog apply to lubricated single pitch, single strand precision roller chains, both standard and double pitch roller chain.

The ratings reflect a service factor of 1, a chain length of approximately 100 pitches, use of recommended lubrication methods, and a drive arrangement where two aligned sprockets are mounted on parallel horizontal shafts.

The horsepower ratings relate to the speed of the smaller sprocket and drive selections are made on this basis, whether the drive is speed reducing or speed increasing.

For ratings of multiple strand roller chains refer to Multiple Strand Factor in Horsepower Tables.

## Lubrication

It has been shown that a separate wedge of fluid lubricant is formed in operating chain joints much like that formed in journal bearings. Therefore, fluid lubricant must be applied to assure an oil supply to the joints and minimize metal to metal contact. Lubrication, if supplied in sufficient volume, also provides effective cooling and impact damping at the higher speeds. For this reason, it is important that the lubrication recommendations be followed. The horsepower rating tables shown throughout this catalog, apply only to drives lubricated in the manner specified in the tables.

Chain drives should be protected against dirt and moisture and the oil supply kept free of contamination. Periodic oil change is desirable. A good grade of non-detergent petroleum base oil is recommended. Heavy oils and grease are generally too stiff to enter and fill the chain joints.

# Application Data and Selection Procedure

## Types of Lubrication

There are four basic types of lubrication for chain drives. The recommended type shown in the horsepower rating tables is influenced by chain speed and the amount of power transmitted. These are minimum lubrication requirements and the use of a better type (for example, Type C instead of Type B) is acceptable and may be beneficial. Chain life can vary appreciably depending upon the way the drive is lubricated. The better the lubrication, the longer the chain and sprocket life. For this reason, it is important that the lubrication recommendations be followed when using the rating tables given in this catalog.

## Lubrication

**TYPE A** — Manual Lubrication. Oil applied periodically with brush or spout can.

**TYPE B** — Oil Bath or Oil Slinger. Oil level maintained in casing at predetermined height.

**TYPE C** — Oil Stream. Oil supplied by circulating pump inside chain loop on lower span.

NOTE: Drip Lubrication. Oil applied between link plate edges from a drip lubricator and should be used in clean environments only.

## Selection of Roller Chain Drives

The following information is necessary for the proper selection and design of roller chain drives:

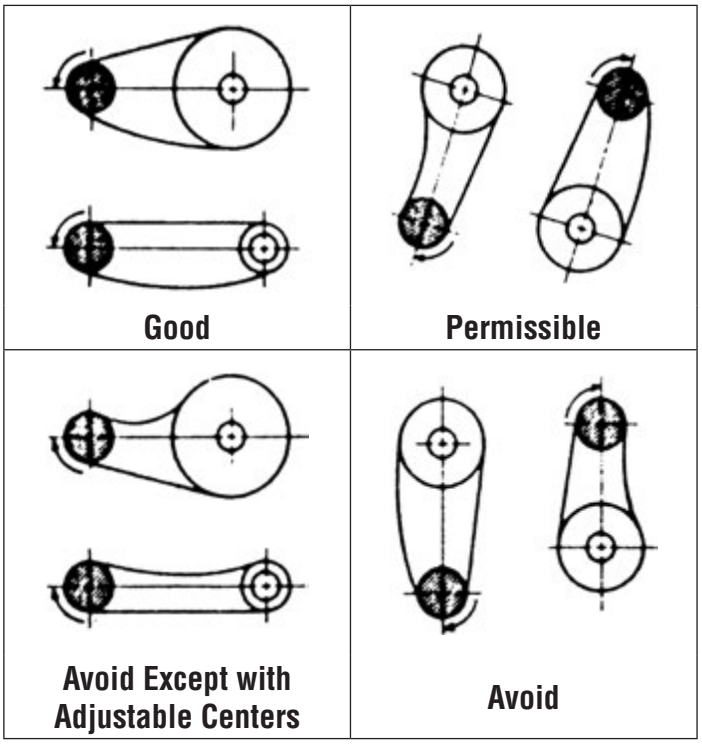
1. Type of input horsepower (electrical motor, internal combustion engine.)
2. Type of equipment to be driven.
3. Horsepower to be transmitted.
4. Full load speed of the fastest running shaft. (RPM)
5. Desired speed of the slow speed shaft. (RPM)
6. Diameters of the driving and driven shafts.
7. Center to center distance of shafts.
8. Position of drive and space limitations.
9. Method of lubrication.
10. Conditions of drive, steady or fluctuating load, hours of operation, lubrication.

Most roller chain drive applications allow considerable latitude in the selection of sprocket sizes and chain pitch, although usually one combination will best fulfill the requirements of power, speed, space limitations and economy.

## Chain and Sprocket Selection Procedure Steps:

1. Determine class of driven load.
2. Select service factor.
3. Calculate design horsepower.
4. Select chain pitch.
5. Select number of teeth in small sprocket.
6. Determine number of teeth in larger sprocket.
7. Determine center distance.
8. Calculate chain length.

## Drive Positions



# Application Data and Selection Procedure

## Step I

**Service Classification — Table I**

**Uniform Load**

- Agitators, Liquid
- Blowers, Centrifugal
- Conveyors, Even Load
- Elevators, Even Load
- Fans, Centrifugal
- Generators
- Line Shafts, Even Load
- Machines, Even Load, Non-reversing
- Pumps, Centrifugal

**Moderate Shock Load**

- Moderate Shock Load
- Beaters
- Compressors, Centrifugal
- Conveyors, Uneven Load
- Elevators, Uneven Load
- Grinders, Pulp
- Kilns and Dryers
- Laundry - Washers and Tumblers
- Line Shafts, Uneven Load
- Machines, Pulsating Load, Non-reversing
- Pumps, Reciprocating, Triplex
- Screens, Rotary, Even Load
- Woodworking Machinery

**Heavy Shock Load**

- Brick Machines
- Compressors Reciprocating
- Crushers
- Machines, Reversing or Impact Loads
- Mills, Hammer, Rolling or Drawing
- Presses
- Pumps, Reciprocating, Simplex or Duplex

## Step II

**Service Factor — Table II**

| Service Classification | Type of Input Power | | |
|---|---|---|---|
| | Internal Combustion Engine with Hydraulic Drive | Electric Motor or Turbine | Internal Combustion Engine with Mechanical Drive |
| **Uniform Load** | 1.0 | 1.0 | 1.2 |
| **Moderate Shock Load** | 1.2 | 1.3 | 1.4 |
| **Heavy Shock Load** | 1.4 | 1.5 | 1.7 |

**Unfavorable Operating Conditions** which may be present should be compensated for by adding .2 to the Service Factor for each unfavorable condition. Some of these conditions are listed below:

1. Multiple Shafts — add .2 for each additional shaft.
2. Excessive speed ratios — exceeding 7 to 1.
3. Heavy starting loads with frequent starts and stops.
4. Conditions of high temperatures, unusually abrasive conditions, or circumstances decreasing lubrication effectiveness or not allowing the use of recommended lubrication procedures.

## Step III

### Determination of Design Horsepower

Determine the design horsepower of the required drive using the following procedure.

1. Determine Service Classification — Table I. Unlisted equipment may be classified by its similarity to a listed type.
2. Using Service Classification and Frequency of Service, select the Service Factor — Table II. Increase the Service Factor by adding compensation for unfavorable operating conditions.
3. Multiply the normal operating horsepower of the drive by the Compensated Service Factor to obtain Service Horsepower.

## Step IV

### Drive Selection

Using Design Horsepower computed above, use Trial Selection Chart (Horsepower Tables) on page E184-E185, or enter tables of Horsepower Ratings shown on pages E186 thru E192. Select the smallest pitch chain which has the required horsepower rating for a pinion sprocket turning at the specified RPM. Check to be certain the selected sprocket has a listed maximum bore large enough to accommodate the specified shaft. The tables on pages E-158 thru E-159 gives maximum bores for the usual range of driving sprockets.

If the Design Horsepower at the required RPM is greater than the horsepower rating of the largest pitch chain which can operate at that speed, a multiple chain drive should be considered for the application.

Selection of drives to operate at speeds somewhat below the maximum rating will increase the life of the drive and quietness of operation.

## Step V

### Driving Sprocket

In selecting the driving sprocket **17 teeth are recommended as a minimum** although 15 teeth are quite often used, and as low as 7 teeth can be cut. When the maximum bore of the 17 tooth sprocket will not accommodate the driving shaft, it is necessary to go to a sprocket with a greater number of teeth. Hardened teeth are recommended for sprockets with 25 teeth or less.

# Application Data and Selection Procedure

## Step VI

### Driven Sprocket (Ratio)

The number of teeth selected for the driven sprocket depends upon the driving sprocket chosen and the desired speed of the driven shaft. When space limitations are a factor, the diameter of the driven sprocket sometimes determines the final selection of drive.

The recommended maximum speed ratio is 7 to 1, although higher ratios are occasionally used. It is usually better design, however, for large reductions to use a double reduction drive.

Select the driven sprocket size from the Speed Ratio Table on page E-170 using the required speed ratio and size of driver sprocket.

## Step VII

### Shaft Centers

May be calculated from the formula on page E-168 where the sprocket diameters and chain length are known.

On many applications the motor base is adjustable, allowing for slight changes in shaft centers. On long centers some form of chain adjuster or take-up is recommended.

## Step VIII

### Chain Length

On page E-168 is shown a simple method of computing the length of chain necessary for a drive with given sprocket dimensions and center to center distance of shafts. (See chart on page E-169 for length in ft.)

## Chain Drive Design Example

To select a roller chain drive from a 10 HP electric motor (1.625'' shaft) 1200 RPM (1150 under load) to a wood working machine shaft at 300 RPM on 30" centers. Drive conditions — moderate pulsating load, good lubrication, 10 hour day operation.

1. Service class — moderate shock load (Table I).
2. Service factor — 1.3 (Table II).
3. Design HP — 1.3 × 10 = 13 DHP.
4. Selection — The Horsepower Ratings on page E-184 show that either of the following combinations may be used.

   No. D40-19 Tooth — Smoothest in operation

   No. 50-18 Tooth — Lower drive cost

For our purpose we select No. 50 chain and checking the bore find that the 1.625" shaft can be accommodated with a stock bored to size sprocket.

The driven sprocket is found as follows:

$$\text{No. Teeth Driven Sprocket} = 18 \times \frac{1150}{300} \text{ (Ratio)} = 68.99 \text{ or } 69 \text{ Teeth}$$

Since 69 teeth is not a stock size we select 70 teeth. The chain length is calculated as shown on page E-169 and is 142 pitches.

## Overhung Load

When a sprocket is mounted on a reducer shaft, a calculation should be made to determine the overhung load in pounds using formula on page *i*-2 in general engineering section.

# Engineering Data & Design

**Horsepower** equals 33,000 foot pounds per minute, or 550 foot pounds per second. In terms of chain load and speed.

$$HP = \frac{\text{Working Load} \times \text{Ft. Per Min.}}{33{,}000}$$

$$\text{or } HP = \frac{\text{Working Load} \times T \times P \times RPM}{396{,}000}$$

Where T = number of sprocket teeth
P = chain pitch

**Chain Working Load** when the horsepower input is known and the chain working load is desired, this can be calculated as follows:

$$\text{Working Load} = \frac{HP \times 33{,}000}{\text{Ft. Per Min.}}$$

$$\text{or} = \frac{HP \times 396{,}000}{T \times P \times RPM}$$

**Chain Speed** can be determined from the following formula:

$$\text{Chain Speed (Ft. Per Min.)} = \frac{T \times RPM}{K}$$

Where T = number of sprocket teeth
Constant K (Pitches of Chain Per Foot)

| PITCH | 3/8" | 1/2" | 5/8" | 3/4" | 1" | 1 1/4" | 1 1/2" | 1 3/4" | 2" | 2 1/2" | 3" |
|---|---|---|---|---|---|---|---|---|---|---|---|
| K | 32 | 24 | 19.2 | 16 | 12 | 9.6 | 8 | 6.85 | 6 | 4.8 | 4 |

## Approx. Wt./Ft. of Standard Roller Chain

| Number | Single | Double | Triple | Quadruple |
|---|---|---|---|---|
| 25 | 0.08 | 0.18 | 0.27 | 0.35 |
| 35 | 0.23 | 0.46 | 0.69 | 0.92 |
| 41 | 0.28 | — | — | — |
| 40 | 0.41 | 0.82 | 1.23 | 1.64 |
| 50 | 0.69 | 1.38 | 2.07 | 2.76 |
| 60 | 1.04 | 2.08 | 3.12 | 4.16 |
| 80 | 1.77 | 3.54 | 5.31 | 7.08 |
| 100 | 2.59 | 5.18 | 7.77 | 10.36 |
| 120 | 4.05 | 8.10 | 12.15 | 16.20 |
| 140 | 5.10 | 10.20 | 15.30 | 20.40 |
| 160 | 6.85 | 13.70 | 20.55 | 27.40 |
| 180 | 9.30 | 18.20 | 27.20 | 36.30 |
| 200 | 10.20 | 21.00 | 31.50 | 42.00 |
| 240 | 16.90 | 33.40 | 50.00 | 66.50 |

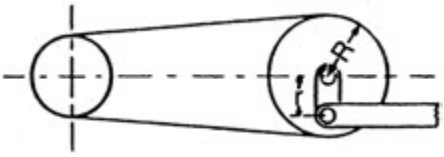
**Factor of Safety** is determined as follows:

$$FS = \frac{\text{Chain Ultimate Strength}}{\text{Chain Working Load}}$$

**Shaft Torque** ordinarily is greater for the driven shaft than for the driving shaft due to the difference in sprocket sizes and RPM Torque is usually expressed in inch pounds.

$$\text{Torque (Driving Shaft)} = \frac{HP \times 63{,}000}{RPM}$$

$$\text{Torque (Driven Shaft)} = \text{Working Load} \times R$$




Where a crank arm is used the load transmitted by the arm can be determined as follows:

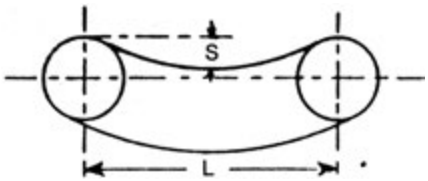
$$\text{Crank Arm Load} = \frac{\text{Driven Shaft Torque}}{r}$$

$$\text{or} = \frac{\text{Chain Working Load} \times R}{r}$$

**Catenary Tension** imposed by reason of the weight of chain can be approximated as follows:

$$\text{Catenary Tension} = \frac{W \times L}{8 \times S} + (W \times S)$$

Where W = weight of chain (lbs. per ft.)
S = chain sag (feet) = 2% to 3% of shaft centers approx.
L = Shaft center in feet.



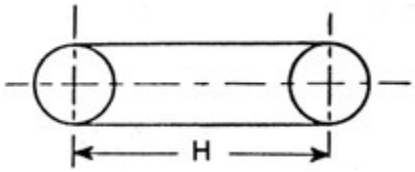
# Engineering Data & Design

## Conveyor Chains

Chains used in the design of conveyors should be selected on the basis of the **chain pull** imposed by the application and the permissible or **maximum working load** of the chain.

In some instances a larger pitch chain than is necessary may be selected due to the desired attachment spacing, and the effect in this case would be to increase the life of the conveyor.

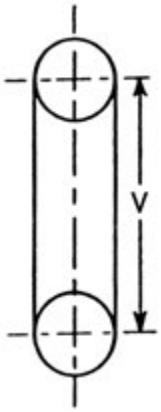
### Horizontal Conveyors




Total pull of chains = f H (W + P)

NOTE: When lower strand of conveyor drags on runway above formula becomes f H (W + 2P).

### Vertical Conveyors




Total pull of chains = V (W + P)

H (ft) = Horizontal projection of conveyor length.

V (ft) = Vertical projection of conveyor length.

W (lb) = Weight of material handled per foot of conveyor length.

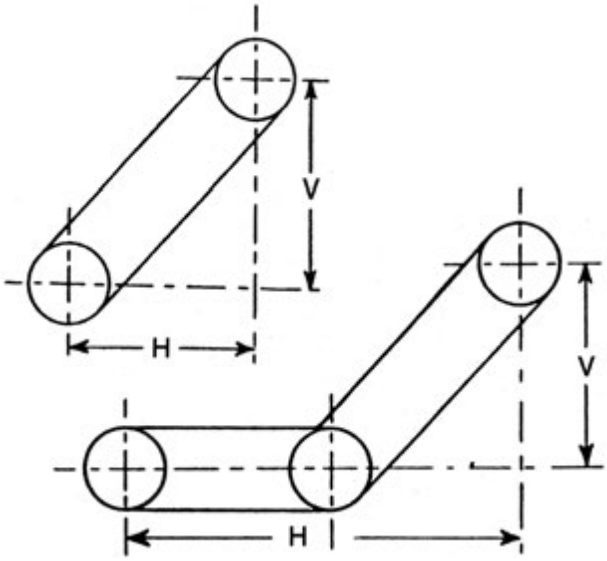
P (lb) = Weight per foot of all moving conveyor parts (single or two strand).

f = Coefficient of friction of chain on runway.

## Chain Pull

The force or pull required to move a conveyor includes the pull necessary to move the weight of chain and material and the frictional resistance of the chain parts on the runways. The following formulas may be used in calculating the total chain pull. The same formula applies in the case of single or parallel strand chain conveyors, but in the case of parallel strand conveyors, the pull per chain is one-half of the figure calculated from the formula.

### Inclined Conveyors




Total pull of chains = f H (W + P) + V (W + P)

NOTE: When lower strand of conveyor drags on runway the factor P (f H – V) should be added to above formula unless V is greater than f H.

## Value of Coefficient F

Sliding steel on iron or steel ..... 25%

Rolling friction ..... 15%

(If material or other than the usual chain parts are in contact with the runway, the coefficient should be increased to compensate for the added resistance.)

# Sprocket Engineering

## Chain Drive Selection

**Step 1:**

Prime Driver: _____ Type & Description _____ Rated - HP _____ RPM

Driven Comp: _____ Type & Description _____ RPM _____ Hours/Day

Center Distance: _____ " Maximum _____ " Minimum _____ " Nominal

**Step 2:** _____ Service Classification (Step I Page E-162)

**Step 3:** _____ Service Factor (Include additions to basic factor) (Step II Page E-162)

**Step 4:** Determine Design HP _____ HP × _____ Service Factor = _____ HP Design

**Step 5:** Speed Ratio _____ RPM Faster Shaft × _____ RPM Slower Shaft = _____ Ratio (E-172)

**Step 6:** From selector chart, select proper chain pitch & driver sprocket. (Check Martin Catalog page E-184.)

A. _____ Chain Pitch B. _____ Driver Sprocket C. _____ Maximum Bore (Pages E-16 thru E-112)

**Step 7:** From ratio chart, select proper driven sprocket.

C. _____ Driven Sprocket _____ Maximum Bore

**Step 8:** Check manufacturer's catalog for maximum bore recommended & final stock selection. (Pages E-16 thru E-112)

**Step 9:** Review Horsepower table for type of lubrication required.

| | | | | | |
|---|---|---|---|---|---|
| | Type: | A | B | C | (Pages E-161 and E-186 thru E-192) |
| OR | Type: | 1 | 2 | 3 | (Pages E-191 and E-192) |

**Step 10:** _____ Center Dist. (inches) ÷ _____ Chain Pitch _____ Center Dist. (pitches)

**Step 11:** Formula for chain length $= 2C + \frac{N+n}{2} + \frac{A}{C}$

Where:
- C = Center Dist. in pitches
- N = Number of teeth in Driven Sprocket
- n = Number of teeth in Driver Sprocket
- A = Value from table tabulated for N - n values

# Sprocket Hardening

## Brinell, Rockwell and Scleroscope Hardness Numbers with Corresponding Tensile Strength

| Brinell 10 MM Ball 3,000 Kg. | Rockwell "C" 120 Cone 150 Kg. | Scleroscope Shore Model C | Tensile Strength 1000 Lb. Per Sq. In. |
|---|---|---|---|
| 745 | 68 | 100 | 368 |
| 712 | 66 | 95 | 352 |
| 682 | 64 | 91 | 337 |
| 653 | 62 | 87 | 324 |
| 627 | 60 | 84 | 311 |
| 601 | 58 | 81 | 298 |
| 578 | 57 | 78 | 287 |
| 555 | 55 | 75 | 276 |
| 534 | 53 | 72 | 266 |
| 514 | 52 | 70 | 256 |
| 495 | 50 | 67 | 247 |
| 477 | 49 | 65 | 238 |
| 461 | 47 | 63 | 229 |
| 444 | 46 | 61 | 220 |
| 429 | 45 | 59 | 212 |
| 415 | 44 | 57 | 204 |
| 401 | 42 | 55 | 196 |
| 388 | 41 | 54 | 189 |
| 375 | 40 | 52 | 182 |
| 362 | 38 | 51 | 176 |
| 351 | 37 | 49 | 170 |
| 341 | 36 | 48 | 165 |
| 331 | 35 | 46 | 160 |
| 321 | 34 | 45 | 155 |
| 311 | 33 | 44 | 150 |
| 302 | 32 | 43 | 146 |
| 293 | 31 | 42 | 142 |
| 285 | 30 | 40 | 138 |
| 277 | 29 | 39 | 134 |
| 269 | 28 | 38 | 131 |
| 262 | 26 | 37 | 128 |
| 255 | 25 | 37 | 125 |
| 248 | 24 | 36 | 122 |
| 241 | 23 | 35 | 119 |
| 235 | 22 | 34 | 116 |
| 229 | 21 | 33 | 113 |
| 223 | 20 | 32 | 110 |
| | **Rockwell "B" 1/16" Ball 100 Kg.** | | |
| 217 | 97 | 31 | 107 |
| 212 | 96 | 31 | 104 |
| 207 | 95 | 30 | 101 |
| 202 | 94 | 30 | 99 |
| 197 | 93 | 29 | 97 |
| 192 | 92 | 28 | 95 |
| 187 | 91 | 28 | 93 |
| 183 | 90 | 27 | 91 |
| 179 | 89 | 27 | 89 |
| 174 | 88 | 26 | 87 |

**Note: Hardening cannot be accurately checked with a file — stationary or portable hardness testers should be used for conclusive results.**

## Material

All Martin stock sprockets are made of quality steel poured to our specifications.

Bar size sprockets normally include sizes up to 7" or 71/2" in diameter type "B", "BS", "QD", "TB" single, double & triple width. And can easily be electrical induction or flame hardened — to Rockwell "C" 40 to 50.

Plate sprockets normally include sizes 71/2" in diameter and larger type "B", "BS", "C", "QD", "TB" single, double, & triple width fabricated and type "A" all diameters. This material would have 35 to 40 points of carbon and can be induction or flame hardened to Rockwell "C" 30 to 45. Degree of hardness obtainable and method depends on size of sprocket.

Special quality steel can be used for large quantities or made-to-order sprockets if specified.

## Hardening Recommendations

Hardened teeth substantially increases sprocket life and is recommended under conditions listed below:

1. Pinion or driver where the reduction is 4:1 or greater.
2. Slow speed drives (100 FPM or less).
3. Where safety factor is less than standard.
4. Unusual abrasive conditions.

Degree of hardness — this is governed by conditions prevailing each application — for stock sprockets these general suggestions may be used as guide lines:

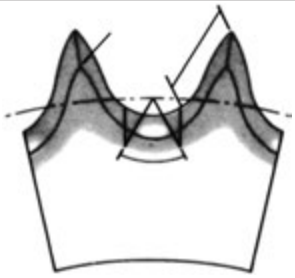
1. Rockwell "C" 35 to 50 pinion or driver.
2. Rockwell "C" 25 to 40 larger diameter or driver sprockets.

Induction or flame hardening will be used as best suited to the individual application. The diameter and pitch of the sprocket govern the method used.

Caution should be used to avoid "file hardness" (Rockwell C 62 and above) as it is not recommended for sprockets due to brittleness.

Depth of hardening should be limited so as to provide case only on the wear surfaces with a tough resilient core to absorb shock — (see illustration tooth section).

**Hardened Tooth Section**



**Depth of Hardness Required**

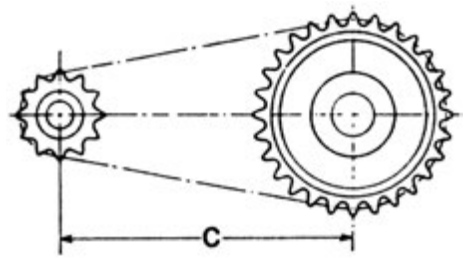
## Chain Length Calculation

The following equation may be used to determine the chain length required for any two-sprocket drive.

$$L = 2C + \frac{N+n}{2} + \frac{.1013\,(N-n)^2}{4C} \quad \text{or substituting A for} \quad \frac{.1013\,(N-n)^2}{4C}, \quad L = 2C + \frac{N+n}{2} + \frac{A}{C}$$

**Where:**

- C = Shaft Center Distance in pitches
- L = Length of chain in pitches
- N = Number of teeth in larger sprocket
- n = Number of teeth in smaller sprocket
- π = 3.1416
- A = Value from table below tabulated for values of N-n
- P = Pitch of chain




**CENTER DISTANCE**

**NOTE:** The method described with above table of constants is sufficiently accurate for practically all commercial chain drives. When, however, a high degree of precision is necessary, especially if the drive is vertical, the following formula is useful in determining the exact centers for chain length already determined.

**Calculation of shaft centers**

The following formula is useful in determining the approximate centers in inches for chain lengths in pitches already determined.

$$C = \frac{P}{8}\left\{ 2L - N - n + \sqrt{(2L - N - n)^2 - 0.810\,(N - n)^2} \right\}$$

## Values of A For Chain Length Calculation

| N - n | A | N - n | A | N - n | A | N - n | A | N - n | A | N - n | A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.03 | 32 | 25.94 | 63 | 100.54 | 94 | 223.82 | 125 | 395.79 | 156 | 616.44 |
| 2 | 0.10 | 33 | 27.58 | 64 | 103.75 | 95 | 228.61 | 126 | 402.14 | 157 | 624.37 |
| 3 | 0.23 | 34 | 29.28 | 65 | 107.02 | 96 | 233.44 | 127 | 408.55 | 158 | 632.35 |
| 4 | 0.41 | 35 | 31.03 | 66 | 110.34 | 97 | 238.33 | 128 | 415.01 | 159 | 640.38 |
| 5 | 0.63 | 36 | 32.83 | 67 | 113.71 | 98 | 243.27 | 129 | 421.52 | 160 | 648.46 |
| 6 | 0.91 | 37 | 34.68 | 68 | 117.13 | 99 | 248.26 | 130 | 428.08 | 161 | 656.59 |
| 7 | 1.24 | 38 | 36.58 | 69 | 120.60 | 100 | 253.30 | 131 | 434.69 | 162 | 664.77 |
| 8 | 1.62 | 39 | 38.53 | 70 | 124.12 | 101 | 258.39 | 132 | 441.36 | 163 | 673.00 |
| 9 | 2.05 | 40 | 40.53 | 71 | 127.69 | 102 | 263.54 | 133 | 448.07 | 164 | 681.28 |
| 10 | 2.53 | 41 | 42.58 | 72 | 131.31 | 103 | 268.73 | 134 | 454.83 | 165 | 689.62 |
| 11 | 3.06 | 42 | 44.68 | 73 | 134.99 | 104 | 273.97 | 135 | 461.64 | 166 | 698.00 |
| 12 | 3.65 | 43 | 46.84 | 74 | 138.71 | 105 | 279.27 | 136 | 468.51 | 167 | 706.44 |
| 13 | 4.28 | 44 | 49.04 | 75 | 142.48 | 106 | 284.67 | 137 | 475.42 | 168 | 714.92 |
| 14 | 4.96 | 45 | 51.29 | 76 | 146.31 | 107 | 290.01 | 138 | 482.39 | 169 | 723.46 |
| 15 | 5.70 | 46 | 53.60 | 77 | 150.18 | 108 | 295.45 | 139 | 489.41 | 170 | 732.05 |
| 16 | 6.48 | 47 | 55.95 | 78 | 154.11 | 109 | 300.95 | 140 | 496.47 | 171 | 740.68 |
| 17 | 7.32 | 48 | 58.36 | 79 | 158.09 | 110 | 306.50 | 141 | 503.59 | 172 | 749.37 |
| 18 | 8.21 | 49 | 60.82 | 80 | 162.11 | 111 | 312.09 | 142 | 510.76 | 173 | 758.11 |
| 19 | 9.14 | 50 | 63.33 | 81 | 166.19 | 112 | 317.74 | 143 | 517.98 | 174 | 766.90 |
| 20 | 10.13 | 51 | 65.88 | 82 | 170.32 | 113 | 323.44 | 144 | 525.25 | 175 | 775.74 |
| 21 | 11.17 | 52 | 68.49 | 83 | 174.50 | 114 | 329.19 | 145 | 532.57 | 176 | 784.63 |
| 22 | 12.26 | 53 | 71.15 | 84 | 178.73 | 115 | 334.99 | 146 | 539.94 | 177 | 793.57 |
| 23 | 13.40 | 54 | 73.86 | 85 | 183.01 | 116 | 340.84 | 147 | 547.36 | 178 | 802.57 |
| 24 | 14.59 | 55 | 76.62 | 86 | 187.34 | 117 | 346.75 | 148 | 554.83 | 179 | 811.61 |
| 25 | 15.83 | 56 | 79.44 | 87 | 191.73 | 118 | 352.70 | 149 | 562.36 | 180 | 820.70 |
| 26 | 17.12 | 57 | 82.30 | 88 | 196.16 | 119 | 358.70 | 150 | 569.93 | 181 | 829.85 |
| 27 | 18.47 | 58 | 85.21 | 89 | 200.64 | 120 | 364.76 | 151 | 577.56 | 182 | 839.04 |
| 28 | 19.86 | 59 | 88.17 | 90 | 205.18 | 121 | 370.86 | 152 | 585.23 | 183 | 848.29 |
| 29 | 21.30 | 60 | 91.19 | 91 | 209.76 | 122 | 377.02 | 153 | 592.96 | 184 | 857.58 |
| 30 | 22.80 | 61 | 94.25 | 92 | 214.40 | 123 | 383.22 | 154 | 600.73 | 185 | 866.93 |
| 31 | 24.34 | 62 | 97.37 | 93 | 219.08 | 124 | 389.48 | 155 | 608.56 | | |

## Roller Chain Lengths

| No. of Pitches | Chain Pitch – Inches | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3/8 | 1/2 | 5/8 | 3/4 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/2 | 3 |
| | Chain Length – Feet | | | | | | | | | | |
| 1 | 0.0313 | 0.0417 | 0.0521 | 0.0625 | 0.0833 | 0.1042 | 0.1250 | 0.1458 | 0.1667 | 0.2083 | 0.2500 |
| 2 | 0.0625 | 0.0833 | 0.1042 | 0.1250 | 0.1667 | 0.2083 | 0.2500 | 0.2917 | 0.3333 | 0.4167 | 0.5000 |
| 3 | 0.0938 | 0.1250 | 0.1563 | 0.1875 | 0.2500 | 0.3125 | 0.3750 | 0.4375 | 0.5000 | 0.6250 | 0.7500 |
| 4 | 0.1250 | 0.1667 | 0.2083 | 0.2500 | 0.3333 | 0.4167 | 0.5000 | 0.5833 | 0.6667 | 0.8333 | 1.0000 |
| 5 | 0.1563 | 0.2083 | 0.2604 | 0.3125 | 0.4167 | 0.5208 | 0.6250 | 0.7292 | 0.8333 | 1.0417 | 1.2500 |
| 6 | 0.1875 | 0.2500 | 0.3125 | 0.3750 | 0.5000 | 0.6250 | 0.7500 | 0.8750 | 1.0000 | 1.2500 | 1.5000 |
| 7 | 0.2188 | 0.2917 | 0.3646 | 0.4375 | 0.5833 | 0.7292 | 0.8750 | 1.0208 | 1.1667 | 1.4583 | 1.7500 |
| 8 | 0.2500 | 0.3333 | 0.4167 | 0.5000 | 0.6667 | 0.8333 | 1.0000 | 1.1667 | 1.3333 | 1.6667 | 2.0000 |
| 9 | 0.2813 | 0.3750 | 0.4688 | 0.5625 | 0.7500 | 0.9375 | 1.1250 | 1.3125 | 1.5000 | 1.8750 | 2.2500 |
| 10 | 0.3125 | 0.4167 | 0.5208 | 0.6250 | 0.8333 | 1.0417 | 1.2500 | 1.4583 | 1.6667 | 2.0833 | 2.5000 |
| 11 | 0.3438 | 0.4584 | 0.5729 | 0.6875 | 0.9167 | 1.1459 | 1.3750 | 1.6041 | 1.8333 | 2.9217 | 2.7500 |
| 12 | 0.3750 | 0.5000 | 0.6250 | 0.7500 | 1.0000 | 1.2500 | 1.5000 | 1.7500 | 2.000 | 2.5000 | 3.0000 |
| 13 | 0.4063 | 0.5417 | 0.6771 | 0.8125 | 1.0833 | 1.3542 | 1.6250 | 1.8958 | 2.1667 | 2.7083 | 3.2500 |
| 14 | 0.4375 | 0.5833 | 0.7292 | 0.8750 | 1.1667 | 1.4583 | 1.7500 | 2.0417 | 2.3333 | 2.9167 | 3.5000 |
| 15 | 0.4688 | 0.6250 | 0.7813 | 0.9375 | 1.2500 | 1.5625 | 1.8750 | 2.1875 | 2.5000 | 3.1250 | 3.7500 |
| 16 | 0.5000 | 0.6667 | 0.8333 | 1.0000 | 1.3333 | 1.6667 | 2.0000 | 2.3333 | 2.6667 | 3.3333 | 4.0000 |
| 17 | 0.5313 | 0.7084 | 0.8854 | 1.0625 | 1.4167 | 1.7709 | 2.1250 | 2.4791 | 2.8333 | 3.5417 | 4.2500 |
| 18 | 0.5625 | 0.7500 | 0.9375 | 1.1250 | 1.5000 | 1.8750 | 2.2500 | 2.6250 | 3.0000 | 3.7500 | 4.5000 |
| 19 | 0.5938 | 0.7917 | 0.9896 | 1.1875 | 1.5833 | 1.9792 | 2.3750 | 2.7708 | 3.1667 | 3.9583 | 4.7500 |
| 20 | 0.6250 | 0.8333 | 1.0417 | 1.2500 | 1.6667 | 2.0833 | 2.5000 | 2.9167 | 3.3333 | 4.1667 | 5.0000 |
| 21 | 0.6563 | 0.8750 | 1.0938 | 1.3125 | 1.7500 | 2.1875 | 2.6250 | 3.0625 | 3.5000 | 4.3750 | 5.2500 |
| 22 | 0.6875 | 0.9167 | 1.1458 | 1.3750 | 1.8333 | 2.2917 | 2.7500 | 3.2083 | 3.6667 | 4.5833 | 5.5000 |
| 23 | 0.7188 | 0.9584 | 1.1979 | 1.4375 | 1.9166 | 2.3959 | 2.8750 | 3.3541 | 3.8333 | 4.7917 | 5.7500 |
| 24 | 0.7500 | 1.0000 | 1.2500 | 1.5000 | 2.0000 | 2.5000 | 3.0000 | 3.5000 | 4.0000 | 5.0000 | 6.0000 |
| 25 | 0.7813 | 1.0417 | 1.3021 | 1.5625 | 2.0833 | 2.6042 | 3.1250 | 3.6458 | 4.1667 | 5.2083 | 6.2500 |
| 26 | 0.8125 | 1.0833 | 1.3541 | 1.6250 | 2.1667 | 2.7083 | 3.2500 | 3.7917 | 4.3333 | 5.3167 | 6.5000 |
| 27 | 0.8438 | 1.1250 | 1.4062 | 1.6875 | 2.2500 | 2.8125 | 3.3750 | 3.9375 | 4.5000 | 5.6250 | 6.7500 |
| 28 | 0.8750 | 1.1667 | 1.4583 | 1.7500 | 2.3333 | 2.9167 | 3.5000 | 4.0833 | 4.6667 | 5.8333 | 7.0000 |
| 29 | 0.9063 | 1.2084 | 1.5104 | 1.8125 | 2.4167 | 3.0209 | 3.6250 | 4.2291 | 4.8333 | 6.0417 | 7.2500 |
| 30 | 0.9375 | 1.2500 | 1.5625 | 1.8750 | 2.5000 | 3.1250 | 3.7500 | 4.3750 | 5.0000 | 6.2500 | 7.5000 |
| 31 | 0.9688 | 1.2917 | 1.6146 | 1.9375 | 2.5833 | 3.2292 | 3.8750 | 4.5208 | 5.1667 | 6.4583 | 7.7500 |
| 32 | 1.0000 | 1.3333 | 1.6667 | 2.0000 | 2.6667 | 3.3333 | 4.0000 | 4.6667 | 5.3333 | 6.6667 | 8.0000 |
| 33 | 1.0313 | 1.3750 | 1.7188 | 2.0625 | 2.7500 | 3.4375 | 4.1250 | 4.8125 | 5.5000 | 6.8750 | 8.2500 |
| 34 | 1.0625 | 1.4167 | 1.7708 | 2.1250 | 2.8333 | 3.5417 | 4.2500 | 4.9583 | 5.6667 | 7.0833 | 8.5000 |
| 35 | 1.0938 | 1.4584 | 1.8229 | 2.1875 | 2.9167 | 3.6459 | 4.3750 | 5.1041 | 5.8333 | 7.2917 | 8.7500 |
| 36 | 1.1250 | 1.5000 | 1.8750 | 2.2500 | 3.0000 | 3.7500 | 4.5000 | 5.2500 | 6.0000 | 7.5000 | 9.0000 |
| 37 | 1.1563 | 1.5417 | 1.9271 | 2.3125 | 3.0833 | 3.8542 | 4.6250 | 5.3958 | 6.1667 | 7.7083 | 9.2500 |
| 38 | 1.1875 | 1.5833 | 1.9791 | 2.3750 | 3.1667 | 3.9583 | 4.7500 | 5.5417 | 6.3333 | 7.9167 | 9.5000 |
| 39 | 1.2188 | 1.6250 | 2.0312 | 2.4375 | 3.2500 | 4.0625 | 4.8750 | 5.0875 | 6.5000 | 8.1250 | 9.7500 |
| 40 | 1.2500 | 1.6667 | 2.0833 | 2.5000 | 3.3333 | 4.1667 | 5.0000 | 5.8333 | 6.6667 | 8.3333 | 10.0000 |
| 41 | 1.2813 | 1.7084 | 2.1354 | 2.5625 | 3.4167 | 4.2709 | 5.1250 | 5.9791 | 6.8333 | 8.5417 | 10.2500 |
| 42 | 1.3125 | 1.7500 | 2.1875 | 2.6250 | 3.5000 | 4.3750 | 5.2500 | 6.1250 | 7.0000 | 8.7500 | 10.5000 |
| 43 | 1.3438 | 1.7917 | 2.2396 | 2.6875 | 3.5833 | 4.4792 | 5.3750 | 6.2708 | 7.1667 | 8.9583 | 10.7500 |
| 44 | 1.3750 | 1.8333 | 2.2916 | 2.7500 | 3.6667 | 4.5833 | 5.5000 | 6.4167 | 7.3333 | 9.1667 | 11.0000 |
| 45 | 1.4063 | 1.8750 | 2.3437 | 2.8125 | 3.7500 | 4.6875 | 5.6250 | 6.5625 | 7.5000 | 9.3750 | 11.2500 |
| 46 | 1.4375 | 1.9167 | 2.3958 | 2.8750 | 3.8333 | 4.7917 | 5.7500 | 6.7083 | 7.6667 | 9.5833 | 11.5000 |
| 47 | 1.4688 | 1.9584 | 2.4479 | 2.9375 | 3.9167 | 4.8959 | 5.8750 | 6.8541 | 7.8333 | 9.7917 | 11.7500 |
| 48 | 1.5000 | 2.0000 | 2.5000 | 3.0000 | 4.0000 | 5.0000 | 6.0000 | 7.0000 | 8.0000 | 10.0000 | 12.0000 |
| 49 | 1.5313 | 2.0417 | 2.5521 | 3.0625 | 4.0833 | 5.1042 | 6.1250 | 7.1458 | 8.1667 | 10.0283 | 12.2500 |
| 50 | 1.5625 | 2.0833 | 2.6042 | 3.1250 | 4.1667 | 5.2083 | 6.2500 | 7.2917 | 8.3333 | 10.4167 | 12.5000 |
| 51 | 1.5938 | 2.1250 | 2.6563 | 3.1875 | 4.2500 | 5.3125 | 6.3750 | 7.4375 | 8.5000 | 10.6250 | 12.7500 |
| 52 | 1.6250 | 2.1667 | 2.7083 | 3.2500 | 4.3333 | 5.4167 | 6.5000 | 7.5833 | 8.6667 | 10.8333 | 13.0000 |
| 53 | 1.6563 | 2.2084 | 2.7604 | 3.3125 | 4.4167 | 5.5209 | 6.6250 | 7.7291 | 8.8333 | 11.0417 | 13.2500 |
| 54 | 1.6875 | 2.2500 | 2.8125 | 3.3750 | 4.5000 | 5.6250 | 6.7500 | 7.8750 | 9.0000 | 11.2500 | 13.5000 |
| 55 | 1.7188 | 2.2917 | 2.8647 | 3.4375 | 4.5833 | 5.7292 | 6.8750 | 8.0208 | 9.1667 | 11.4583 | 13.7500 |
| 56 | 1.7500 | 2.3333 | 2.9167 | 3.5000 | 4.6667 | 5.8333 | 7.0000 | 8.1667 | 9.3333 | 11.6667 | 14.0000 |
| 57 | 1.7813 | 2.3750 | 2.9688 | 3.5625 | 4.7500 | 5.9375 | 7.1250 | 8.3125 | 9.5000 | 11.8750 | 14.2500 |
| 58 | 1.8125 | 2.4167 | 3.0208 | 3.6250 | 4.8333 | 6.0417 | 7.2500 | 8.4583 | 9.6667 | 12.0833 | 14.5000 |
| 59 | 1.8438 | 2.4584 | 3.0729 | 3.6875 | 4.1967 | 6.1459 | 7.3750 | 8.6041 | 9.8333 | 12.2917 | 14.7500 |
| 60 | 1.8750 | 2.5000 | 3.1250 | 3.7500 | 5.0000 | 6.2500 | 7.5000 | 8.7500 | 10.0000 | 12.5000 | 15.0000 |
| 61 | 1.9063 | 2.5417 | 3.1771 | 3.8125 | 5.0833 | 6.3542 | 7.6250 | 8.8958 | 10.1667 | 12.7083 | 15.2500 |
| 62 | 1.9375 | 2.5833 | 3.2292 | 3.8750 | 5.1667 | 6.4583 | 7.7500 | 9.0417 | 10.3333 | 12.9167 | 15.5000 |
| 63 | 1.9688 | 2.6250 | 3.2813 | 3.9375 | 5.2500 | 6.5625 | 7.8750 | 9.1875 | 10.5000 | 13.1250 | 15.7500 |
| 64 | 2.0000 | 2.6667 | 3.3333 | 4.0000 | 5.3333 | 6.6667 | 8.0000 | 9.3333 | 10.6667 | 13.3333 | 16.0000 |
| 65 | 2.0313 | 2.7084 | 3.3854 | 4.0625 | 5.4167 | 6.7709 | 8.1250 | 9.4791 | 10.8333 | 13.5417 | 16.2500 |
| 66 | 2.0625 | 2.7500 | 3.4375 | 4.1250 | 5.5000 | 6.8750 | 8.2500 | 9.6250 | 11.0000 | 13.7500 | 16.5000 |
| 67 | 2.0938 | 2.7917 | 3.4897 | 4.1875 | 5.5833 | 6.9792 | 8.3750 | 9.7708 | 11.1667 | 13.9583 | 16.7500 |
| 68 | 2.1250 | 2.8333 | 3.5417 | 4.2500 | 5.6667 | 7.0883 | 8.5000 | 9.9167 | 11.3333 | 14.1667 | 17.0000 |
| 69 | 2.1563 | 2.8750 | 3.5938 | 4.3125 | 5.7500 | 7.1875 | 8.6250 | 10.0625 | 11.5000 | 14.3750 | 17.2500 |
| 70 | 2.1875 | 2.9167 | 3.6458 | 4.3750 | 5.8333 | 7.2917 | 8.7500 | 10.2083 | 11.6667 | 14.5833 | 17.5000 |
| 71 | 2.2188 | 2.9584 | 3.6979 | 4.4375 | 5.9167 | 7.3959 | 8.8750 | 10.3541 | 11.8333 | 14.7917 | 17.7500 |
| 72 | 2.2500 | 3.0000 | 3.7500 | 4.5000 | 6.0000 | 7.5000 | 9.0000 | 10.5000 | 12.0000 | 15.0000 | 18.0000 |
| 73 | 2.2813 | 3.0417 | 3.8021 | 4.5625 | 6.0833 | 7.6042 | 9.1250 | 10.6458 | 12.1667 | 15.2083 | 18.2500 |
| 74 | 2.3125 | 3.0833 | 3.8541 | 4.6250 | 6.1667 | 7.7083 | 9.2500 | 10.7917 | 12.3333 | 15.4167 | 18.5000 |
| 75 | 2.3438 | 3.1250 | 3.9062 | 4.6875 | 6.2500 | 7.8125 | 9.3750 | 10.9375 | 12.5000 | 15.6250 | 18.7500 |
| 80 | 2.5000 | 3.3333 | 4.1667 | 5.0000 | 6.6667 | 8.3333 | 10.0000 | 11.6667 | 13.3333 | 16.6667 | 20.0000 |
| 85 | 2.6563 | 3.5417 | 4.4271 | 5.3125 | 7.0833 | 8.8542 | 10.6250 | 12.3958 | 14.1667 | 17.7083 | 21.2500 |
| 90 | 2.8125 | 3.7500 | 4.6875 | 5.6250 | 7.5000 | 9.3750 | 11.2500 | 13.1250 | 15.0000 | 18.7500 | 22.5000 |
| 95 | 2.9688 | 3.9584 | 4.9479 | 5.9375 | 7.9167 | 9.8959 | 11.8750 | 13.8541 | 15.8333 | 19.7917 | 23.7500 |
| 100 | 3.1250 | 4.1667 | 5.2083 | 6.2500 | 8.3333 | 10.4167 | 12.5000 | 14.5833 | 16.6667 | 20.8333 | 25.0000 |

## Speed Ratios For Sprocket Combinations Driver Sprocket Teeth

| Driven Sprocket Teeth | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 1.00 | | | | | | | | | | | | | | | | | |
| 10 | 1.11 | 1.00 | | | | | | | | | | | | | | | | |
| 11 | 1.22 | 1.10 | 1.00 | | | | | | | | | | | | | | | |
| 12 | 1.33 | 1.20 | 1.09 | 1.00 | | | | | | | | | | | | | | |
| 13 | 1.44 | 1.30 | 1.18 | 1.08 | 1.00 | | | | | | | | | | | | | |
| 14 | 1.56 | 1.40 | 1.27 | 1.17 | 1.08 | 1.00 | | | | | | | | | | | | |
| 15 | 1.67 | 1.50 | 1.36 | 1.25 | 1.15 | 1.07 | 1.00 | | | | | | | | | | | |
| 16 | 1.78 | 1.60 | 1.45 | 1.33 | 1.23 | 1.14 | 1.07 | 1.00 | | | | | | | | | | |
| 17 | 1.89 | 1.70 | 1.55 | 1.42 | 1.31 | 1.21 | 1.13 | 1.06 | 1.00 | | | | | | | | | |
| 18 | 2.00 | 1.80 | 1.64 | 1.50 | 1.38 | 1.29 | 1.20 | 1.13 | 1.06 | 1.00 | | | | | | | | |
| 19 | 2.11 | 1.90 | 1.73 | 1.58 | 1.46 | 1.36 | 1.27 | 1.19 | 1.12 | 1.06 | 1.00 | | | | | | | |
| 20 | 2.22 | 2.00 | 1.82 | 1.67 | 1.54 | 1.43 | 1.33 | 1.25 | 1.18 | 1.11 | 1.05 | 1.00 | | | | | | |
| 21 | 2.33 | 2.10 | 1.91 | 1.75 | 1.61 | 1.50 | 1.40 | 1.31 | 1.23 | 1.17 | 1.10 | 1.05 | 1.00 | | | | | |
| 22 | 2.44 | 2.20 | 2.00 | 1.83 | 1.69 | 1.57 | 1.47 | 1.38 | 1.29 | 1.22 | 1.16 | 1.10 | 1.05 | 1.00 | | | | |
| 23 | 2.56 | 2.30 | 2.09 | 1.92 | 1.77 | 1.64 | 1.53 | 1.44 | 1.35 | 1.28 | 1.21 | 1.15 | 1.09 | 1.04 | 1.00 | | | |
| 24 | 2.67 | 2.40 | 2.18 | 2.00 | 1.85 | 1.71 | 1.60 | 1.50 | 1.41 | 1.33 | 1.26 | 1.20 | 1.14 | 1.09 | 1.04 | 1.00 | | |
| 25 | 2.78 | 2.50 | 2.27 | 2.08 | 1.92 | 1.79 | 1.67 | 1.56 | 1.47 | 1.39 | 1.32 | 1.25 | 1.19 | 1.14 | 1.09 | 1.04 | 1.00 | |
| 26 | 2.89 | 2.60 | 2.36 | 2.17 | 2.00 | 1.86 | 1.73 | 1.63 | 1.53 | 1.45 | 1.37 | 1.30 | 1.24 | 1.18 | 1.13 | 1.08 | 1.04 | 1.00 |
| 27 | 3.00 | 2.70 | 2.45 | 2.25 | 2.08 | 1.93 | 1.80 | 1.69 | 1.59 | 1.50 | 1.42 | 1.35 | 1.29 | 1.23 | 1.17 | 1.12 | 1.08 | 1.04 |
| 28 | 3.11 | 2.80 | 2.54 | 2.33 | 2.15 | 2.00 | 1.87 | 1.75 | 1.65 | 1.56 | 1.47 | 1.40 | 1.33 | 1.27 | 1.22 | 1.17 | 1.12 | 1.08 |
| 29 | 3.22 | 2.90 | 2.64 | 2.42 | 2.23 | 2.07 | 1.93 | 1.81 | 1.71 | 1.61 | 1.53 | 1.45 | 1.38 | 1.32 | 1.26 | 1.21 | 1.16 | 1.12 |
| 30 | 3.33 | 3.00 | 2.73 | 2.50 | 2.31 | 2.14 | 2.00 | 1.88 | 1.76 | 1.67 | 1.58 | 1.50 | 1.43 | 1.36 | 1.31 | 1.25 | 1.20 | 1.15 |
| 31 | 3.44 | 3.10 | 2.82 | 2.58 | 2.38 | 2.21 | 2.07 | 1.94 | 1.82 | 1.72 | 1.63 | 1.55 | 1.48 | 1.41 | 1.35 | 1.29 | 1.24 | 1.19 |
| 32 | 3.56 | 3.20 | 2.91 | 2.67 | 2.46 | 2.28 | 2.13 | 2.00 | 1.88 | 1.78 | 1.68 | 1.60 | 1.52 | 1.45 | 1.39 | 1.33 | 1.28 | 1.23 |
| 33 | 3.67 | 3.30 | 3.00 | 2.75 | 2.54 | 2.36 | 2.20 | 2.06 | 1.94 | 1.83 | 1.74 | 1.65 | 1.57 | 1.50 | 1.43 | 1.38 | 1.32 | 1.27 |
| 34 | 3.78 | 3.40 | 3.09 | 2.83 | 2.62 | 2.43 | 2.27 | 2.13 | 2.00 | 1.89 | 1.79 | 1.70 | 1.62 | 1.55 | 1.48 | 1.42 | 1.36 | 1.31 |
| 35 | 3.89 | 3.50 | 3.18 | 2.92 | 2.69 | 2.50 | 2.33 | 2.19 | 2.06 | 1.95 | 1.84 | 1.75 | 1.67 | 1.59 | 1.52 | 1.46 | 1.40 | 1.34 |
| 36 | 4.00 | 3.60 | 3.27 | 3.00 | 2.77 | 2.57 | 2.40 | 2.25 | 2.12 | 2.00 | 1.89 | 1.80 | 1.71 | 1.63 | 1.57 | 1.50 | 1.44 | 1.38 |
| 37 | 4.11 | 3.70 | 3.36 | 3.08 | 2.85 | 2.64 | 2.47 | 2.31 | 2.18 | 2.06 | 1.95 | 1.85 | 1.76 | 1.68 | 1.61 | 1.54 | 1.48 | 1.42 |
| 38 | 4.22 | 3.80 | 3.45 | 3.17 | 2.92 | 2.71 | 2.53 | 2.38 | 2.24 | 2.11 | 2.00 | 1.90 | 1.81 | 1.73 | 1.65 | 1.58 | 1.52 | 1.46 |
| 39 | 4.33 | 3.90 | 3.55 | 3.25 | 3.00 | 2.79 | 2.60 | 2.44 | 2.29 | 2.17 | 2.05 | 1.95 | 1.86 | 1.77 | 1.70 | 1.63 | 1.56 | 1.50 |
| 40 | 4.44 | 4.00 | 3.64 | 3.33 | 3.08 | 2.86 | 2.67 | 2.50 | 2.35 | 2.22 | 2.10 | 2.00 | 1.90 | 1.82 | 1.74 | 1.67 | 1.60 | 1.54 |
| 41 | 4.56 | 4.10 | 3.73 | 3.42 | 3.15 | 2.93 | 2.73 | 2.56 | 2.41 | 2.28 | 2.16 | 2.05 | 1.95 | 1.86 | 1.78 | 1.71 | 1.64 | 1.58 |
| 42 | 4.67 | 4.20 | 3.82 | 3.50 | 3.23 | 3.00 | 2.80 | 2.63 | 2.47 | 2.34 | 2.21 | 2.10 | 2.00 | 1.91 | 1.83 | 1.75 | 1.68 | 1.61 |
| 43 | 4.78 | 4.30 | 3.91 | 3.58 | 3.31 | 3.07 | 2.87 | 2.69 | 2.53 | 2.39 | 2.26 | 2.15 | 2.05 | 1.95 | 1.87 | 1.79 | 1.72 | 1.65 |
| 44 | 4.89 | 4.40 | 4.00 | 3.67 | 3.39 | 3.14 | 2.93 | 2.75 | 2.59 | 2.44 | 2.32 | 2.20 | 2.10 | 2.00 | 1.91 | 1.83 | 1.76 | 1.69 |
| 45 | 5.00 | 4.50 | 4.09 | 3.75 | 3.46 | 3.21 | 3.00 | 2.81 | 2.65 | 2.50 | 2.37 | 2.25 | 2.14 | 2.04 | 1.96 | 1.88 | 1.80 | 1.73 |
| 46 | 5.11 | 4.60 | 4.18 | 3.83 | 3.54 | 3.29 | 3.07 | 2.88 | 2.71 | 2.56 | 2.42 | 2.30 | 2.19 | 2.09 | 2.00 | 1.92 | 1.84 | 1.77 |
| 47 | 5.22 | 4.70 | 4.27 | 3.92 | 3.62 | 3.36 | 3.13 | 2.94 | 2.76 | 2.61 | 2.47 | 2.35 | 2.24 | 2.14 | 2.04 | 1.96 | 1.88 | 1.81 |
| 48 | 5.33 | 4.80 | 4.36 | 4.00 | 3.69 | 3.43 | 3.20 | 3.00 | 2.82 | 2.67 | 2.52 | 2.40 | 2.28 | 2.18 | 2.09 | 2.00 | 1.92 | 1.84 |
| 49 | 5.44 | 4.90 | 4.45 | 4.08 | 3.77 | 3.50 | 3.27 | 3.06 | 2.88 | 2.72 | 2.58 | 2.45 | 2.33 | 2.23 | 2.13 | 2.04 | 1.96 | 1.88 |
| 50 | 5.56 | 5.00 | 4.55 | 4.17 | 3.85 | 3.57 | 3.33 | 3.13 | 2.94 | 2.78 | 2.63 | 2.50 | 2.38 | 2.27 | 2.17 | 2.08 | 2.00 | 1.92 |
| 51 | 5.67 | 5.10 | 4.64 | 4.25 | 3.92 | 3.64 | 3.40 | 3.19 | 3.00 | 2.83 | 2.68 | 2.55 | 2.43 | 2.32 | 2.22 | 2.13 | 2.04 | 1.96 |
| 52 | 5.78 | 5.20 | 4.73 | 4.33 | 4.00 | 3.71 | 3.47 | 3.25 | 3.06 | 2.89 | 2.74 | 2.60 | 2.48 | 2.36 | 2.26 | 2.17 | 2.08 | 2.00 |
| 53 | 5.89 | 5.30 | 4.82 | 4.42 | 4.08 | 3.79 | 3.53 | 3.31 | 3.12 | 2.94 | 2.79 | 2.65 | 2.52 | 2.41 | 2.30 | 2.21 | 2.12 | 2.04 |
| 54 | 6.00 | 5.40 | 4.91 | 4.50 | 4.15 | 3.86 | 3.60 | 3.38 | 3.18 | 3.00 | 2.84 | 2.70 | 2.57 | 2.45 | 2.35 | 2.25 | 2.16 | 2.07 |
| 55 | 6.11 | 5.50 | 5.00 | 4.58 | 4.23 | 3.93 | 3.67 | 3.44 | 3.24 | 3.06 | 2.90 | 2.75 | 2.62 | 2.50 | 2.39 | 2.29 | 2.20 | 2.12 |
| 56 | 6.22 | 5.60 | 5.09 | 4.67 | 4.31 | 4.00 | 3.73 | 3.50 | 3.29 | 3.11 | 2.95 | 2.80 | 2.67 | 2.55 | 2.43 | 2.33 | 2.24 | 2.15 |
| 57 | 6.33 | 5.70 | 5.18 | 4.75 | 4.38 | 4.07 | 3.80 | 3.56 | 3.35 | 3.17 | 3.00 | 2.85 | 2.71 | 2.59 | 2.48 | 2.38 | 2.28 | 2.19 |
| 58 | 6.44 | 5.80 | 5.27 | 4.83 | 4.46 | 4.14 | 3.87 | 3.63 | 3.41 | 3.22 | 3.05 | 2.90 | 2.76 | 2.64 | 2.52 | 2.42 | 2.32 | 2.23 |
| 59 | 6.56 | 5.90 | 5.36 | 4.92 | 4.54 | 4.21 | 3.93 | 3.69 | 3.47 | 3.28 | 3.11 | 2.95 | 2.81 | 2.68 | 2.57 | 2.46 | 2.36 | 2.27 |
| 60 | 6.67 | 6.00 | 5.45 | 5.00 | 4.61 | 4.28 | 4.00 | 3.75 | 3.53 | 3.34 | 3.16 | 3.00 | 2.86 | 2.72 | 2.61 | 2.50 | 2.40 | 2.30 |
| 68 | 7.55 | 6.80 | 6.18 | 5.66 | 5.23 | 4.86 | 4.54 | 4.25 | 4.00 | 3.78 | 3.58 | 3.40 | 3.24 | 3.09 | 2.96 | 2.84 | 2.72 | 2.61 |
| 70 | 7.78 | 7.00 | 6.36 | 5.83 | 5.38 | 5.00 | 4.67 | 4.38 | 4.12 | 3.89 | 3.68 | 3.50 | 3.33 | 3.18 | 3.05 | 2.92 | 2.80 | 2.69 |
| 72 | 8.00 | 7.20 | 6.54 | 6.00 | 5.54 | 5.14 | 4.80 | 4.50 | 4.24 | 4.00 | 3.79 | 3.60 | 3.43 | 3.27 | 3.13 | 3.00 | 2.88 | 2.77 |
| 76 | | | 6.91 | 6.33 | 5.84 | 5.43 | 5.07 | 4.75 | 4.47 | 4.23 | 4.00 | 3.80 | 3.62 | 3.45 | 3.31 | 3.17 | 3.04 | 2.92 |
| 80 | | | 7.27 | 6.66 | 6.15 | 5.71 | 5.34 | 5.00 | 4.70 | 4.45 | 4.21 | 4.00 | 3.81 | 3.63 | 3.48 | 3.34 | 3.20 | 3.07 |
| 84 | | | | 7.00 | 6.46 | 6.00 | 5.60 | 5.25 | 4.94 | 4.67 | 4.42 | 4.20 | 4.00 | 3.81 | 3.65 | 3.50 | 3.36 | 3.23 |
| 95 | | | | | 7.31 | 6.78 | 6.33 | 5.94 | 5.59 | 5.28 | 5.00 | 4.75 | 4.52 | 4.32 | 4.13 | 3.96 | 3.80 | 3.65 |
| 96 | | | | | 7.38 | 6.85 | 6.40 | 6.00 | 5.64 | 5.34 | 5.05 | 4.80 | 4.57 | 4.36 | 4.18 | 4.00 | 3.84 | 3.69 |
| 102 | | | | | | 7.28 | 6.80 | 6.38 | 6.00 | 5.67 | 5.37 | 5.10 | 4.86 | 4.63 | 4.44 | 4.25 | 4.08 | 3.92 |
| 112 | | | | | | | | 7.00 | 6.59 | 6.23 | 5.89 | 5.60 | 5.33 | 5.08 | 4.87 | 4.67 | 4.48 | 4.30 |

Martin stock sprockets in pitches No. 40 through No. 100 are available with 8 to 60 teeth inclusive and in all common larger sizes for all pitches.

# Sprocket Diameter

# No. 25 ¼" Pitch

## Roller Chain Sprocket Diameters

| No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0.500 | 0.583 | 0.370 | 71 | 5.652 | 5.796 | 5.521 | 136 | 10.823 | 10.970 | 10.693 |
| 7 | 0.576 | 0.669 | 0.432 | 72 | 5.732 | 5.876 | 5.602 | 137 | 10.903 | 11.050 | 10.772 |
| 8 | 0.653 | 0.754 | 0.523 | 73 | 5.811 | 5.956 | 5.680 | 138 | 10.983 | 11.130 | 10.853 |
| 9 | 0.731 | 0.837 | 0.591 | 74 | 5.891 | 6.035 | 5.761 | 139 | 11.062 | 11.209 | 10.932 |
| 10 | 0.809 | 0.919 | 0.679 | 75 | 5.970 | 6.115 | 5.839 | 140 | 11.142 | 11.289 | 11.012 |
| 11 | 0.887 | 1.002 | 0.748 | 76 | 6.050 | 6.195 | 5.920 | 141 | 11.221 | 11.369 | 11.091 |
| 12 | 0.966 | 1.083 | 0.836 | 77 | 6.129 | 6.274 | 5.998 | 142 | 11.301 | 11.448 | 11.171 |
| 13 | 1.045 | 1.167 | 0.907 | 78 | 6.209 | 6.354 | 6.079 | 143 | 11.380 | 11.528 | 11.250 |
| 14 | 1.124 | 1.246 | 0.994 | 79 | 6.288 | 6.433 | 6.157 | 144 | 11.460 | 11.607 | 11.330 |
| 15 | 1.203 | 1.326 | 1.066 | 80 | 6.368 | 6.513 | 6.238 | 145 | 11.540 | 11.687 | 11.409 |
| 16 | 1.282 | 1.407 | 1.152 | 81 | 6.448 | 6.593 | 6.317 | 146 | 11.619 | 11.767 | 11.489 |
| 17 | 1.361 | 1.487 | 1.225 | 82 | 6.527 | 6.672 | 6.397 | 147 | 11.699 | 11.846 | 11.568 |
| 18 | 1.440 | 1.568 | 1.310 | 83 | 6.607 | 6.752 | 6.476 | 148 | 11.779 | 11.926 | 11.649 |
| 19 | 1.519 | 1.648 | 1.383 | 84 | 6.686 | 6.832 | 6.556 | 149 | 11.858 | 12.005 | 11.727 |
| 20 | 1.598 | 1.729 | 1.468 | 85 | 6.766 | 6.911 | 6.635 | 150 | 11.938 | 12.084 | 11.807 |
| 21 | 1.678 | 1.809 | 1.543 | 86 | 6.845 | 6.991 | 6.715 | 151 | 12.017 | 12.164 | 11.886 |
| 22 | 1.757 | 1.889 | 1.627 | 87 | 6.925 | 7.070 | 6.794 | 152 | 12.097 | 12.244 | 11.966 |
| 23 | 1.836 | 1.969 | 1.702 | 88 | 7.004 | 7.150 | 6.874 | 153 | 12.176 | 12.323 | 12.045 |
| 24 | 1.915 | 2.049 | 1.785 | 89 | 7.084 | 7.230 | 6.953 | 154 | 12.256 | 12.403 | 12.125 |
| 25 | 1.995 | 2.129 | 1.861 | 90 | 7.164 | 7.309 | 7.034 | 155 | 12.335 | 12.482 | 12.204 |
| 26 | 2.074 | 2.209 | 1.944 | 91 | 7.243 | 7.389 | 7.112 | 156 | 12.415 | 12.562 | 12.284 |
| 27 | 2.154 | 2.289 | 2.020 | 92 | 7.323 | 7.468 | 7.193 | 157 | 12.494 | 12.641 | 12.363 |
| 28 | 2.233 | 2.369 | 2.103 | 93 | 7.402 | 7.548 | 7.271 | 158 | 12.574 | 12.721 | 12.444 |
| 29 | 2.312 | 2.449 | 2.179 | 94 | 7.482 | 7.628 | 7.352 | 159 | 12.654 | 12.801 | 12.523 |
| 30 | 2.392 | 2.529 | 2.262 | 95 | 7.561 | 7.707 | 7.430 | 160 | 12.733 | 12.881 | 12.603 |
| 31 | 2.471 | 2.609 | 2.338 | 96 | 7.641 | 7.787 | 7.511 | 161 | 12.813 | 12.960 | 12.682 |
| 32 | 2.551 | 2.688 | 2.421 | 97 | 7.720 | 7.866 | 7.589 | 162 | 12.893 | 13.039 | 12.762 |
| 33 | 2.630 | 2.768 | 2.497 | 98 | 7.800 | 7.946 | 7.670 | 163 | 12.972 | 13.119 | 12.841 |
| 34 | 2.710 | 2.848 | 2.580 | 99 | 7.880 | 8.026 | 7.749 | 164 | 13.051 | 13.199 | 12.921 |
| 35 | 2.789 | 2.928 | 2.656 | 100 | 7.959 | 8.105 | 7.829 | 165 | 13.131 | 13.278 | 13.000 |
| 36 | 2.869 | 3.008 | 2.739 | 101 | 8.039 | 8.185 | 7.908 | 166 | 13.211 | 13.357 | 13.080 |
| 37 | 2.948 | 3.087 | 2.815 | 102 | 8.118 | 8.264 | 7.988 | 167 | 13.290 | 13.437 | 13.159 |
| 38 | 3.028 | 3.167 | 2.898 | 103 | 8.198 | 8.344 | 8.067 | 168 | 13.370 | 13.517 | 13.239 |
| 39 | 3.107 | 3.247 | 2.975 | 104 | 8.277 | 8.424 | 8.147 | 169 | 13.450 | 13.597 | 13.318 |
| 40 | 3.187 | 3.327 | 3.057 | 105 | 8.357 | 8.503 | 8.226 | 170 | 13.529 | 13.676 | 13.398 |
| 41 | 3.266 | 3.406 | 3.134 | 106 | 8.437 | 8.583 | 8.307 | 171 | 13.608 | 13.756 | 13.477 |
| 42 | 3.346 | 3.486 | 3.216 | 107 | 8.516 | 8.662 | 8.385 | 172 | 13.688 | 13.835 | 13.558 |
| 43 | 3.425 | 3.566 | 3.293 | 108 | 8.596 | 8.742 | 8.466 | 173 | 13.768 | 13.915 | 13.637 |
| 44 | 3.505 | 3.646 | 3.375 | 109 | 8.675 | 8.822 | 8.544 | 174 | 13.847 | 13.995 | 13.717 |
| 45 | 3.584 | 3.725 | 3.452 | 110 | 8.755 | 8.901 | 8.625 | 175 | 13.927 | 14.074 | 13.796 |
| 46 | 3.664 | 3.805 | 3.534 | 111 | 8.834 | 8.981 | 8.703 | 176 | 14.006 | 14.154 | 13.876 |
| 47 | 3.743 | 3.885 | 3.611 | 112 | 8.914 | 9.060 | 8.784 | 177 | 14.086 | 14.233 | 13.955 |
| 48 | 3.823 | 3.964 | 3.693 | 113 | 8.994 | 9.140 | 8.863 | 178 | 14.166 | 14.313 | 14.035 |
| 49 | 3.902 | 4.044 | 3.770 | 114 | 9.073 | 9.220 | 8.943 | 179 | 14.245 | 14.392 | 14.114 |
| 50 | 3.982 | 4.124 | 3.852 | 115 | 9.153 | 9.299 | 9.022 | 180 | 14.325 | 14.472 | 14.195 |
| 51 | 4.061 | 4.203 | 3.929 | 116 | 9.232 | 9.379 | 9.102 | 181 | 14.404 | 14.551 | 14.273 |
| 52 | 4.141 | 4.283 | 4.011 | 117 | 9.312 | 9.458 | 9.181 | 182 | 14.484 | 14.631 | 14.353 |
| 53 | 4.220 | 4.363 | 4.088 | 118 | 9.391 | 9.538 | 9.261 | 183 | 14.564 | 14.711 | 14.433 |
| 54 | 4.300 | 4.442 | 4.170 | 119 | 9.471 | 9.618 | 9.340 | 184 | 14.643 | 14.790 | 14.513 |
| 55 | 4.379 | 4.522 | 4.247 | 120 | 9.550 | 9.697 | 9.420 | 185 | 14.722 | 14.870 | 14.591 |
| 56 | 4.459 | 4.602 | 4.329 | 121 | 9.630 | 9.777 | 9.499 | 186 | 14.803 | 14.949 | 14.672 |
| 57 | 4.538 | 4.681 | 4.407 | 122 | 9.709 | 9.856 | 9.579 | 187 | 14.882 | 15.029 | 14.751 |
| 58 | 4.618 | 4.761 | 4.488 | 123 | 9.789 | 9.936 | 9.658 | 188 | 14.961 | 15.109 | 14.831 |
| 59 | 4.697 | 4.841 | 4.566 | 124 | 9.869 | 10.016 | 9.739 | 189 | 15.041 | 15.188 | 14.910 |
| 60 | 4.777 | 4.920 | 4.647 | 125 | 9.949 | 10.095 | 9.818 | 190 | 15.120 | 15.268 | 14.990 |
| 61 | 4.857 | 5.000 | 4.725 | 126 | 10.028 | 10.175 | 9.898 | 191 | 15.200 | 15.347 | 15.069 |
| 62 | 4.936 | 5.080 | 4.806 | 127 | 10.108 | 10.255 | 9.977 | 192 | 15.279 | 15.427 | 15.149 |
| 63 | 5.016 | 5.159 | 4.884 | 128 | 10.187 | 10.334 | 10.057 | 193 | 15.359 | 15.507 | 15.228 |
| 64 | 5.095 | 5.239 | 4.965 | 129 | 10.267 | 10.414 | 10.136 | 194 | 15.439 | 15.586 | 15.308 |
| 65 | 5.175 | 5.319 | 5.044 | 130 | 10.346 | 10.493 | 10.216 | 195 | 15.518 | 15.666 | 15.387 |
| 66 | 5.254 | 5.398 | 5.124 | 131 | 10.426 | 10.573 | 10.295 | 196 | 15.598 | 15.745 | 15.467 |
| 67 | 5.334 | 5.478 | 5.203 | 132 | 10.505 | 10.652 | 10.375 | 197 | 15.678 | 15.824 | 15.547 |
| 68 | 5.413 | 5.558 | 5.283 | 133 | 10.585 | 10.732 | 10.454 | 198 | 15.757 | 15.904 | 15.626 |
| 69 | 5.493 | 5.637 | 5.362 | 134 | 10.664 | 10.811 | 10.534 | 199 | 15.837 | 15.984 | 15.706 |
| 70 | 5.572 | 5.717 | 5.442 | 135 | 10.744 | 10.891 | 10.613 | 200 | 15.916 | 16.064 | 15.786 |

Odd tooth “bottom diameters” equal pitch diameters minus .130".

# No. 35
## 3/8" Pitch

# Sprocket Diameter

Martin

## Roller Chain Sprocket Diameters

| No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 0.638 | 0.741 | 0.407 | 71 | 8.478 | 8.694 | 8.276 | 136 | 16.235 | 16.456 | 16.035 |
| 6 | 0.750 | 0.875 | 0.550 | 72 | 8.597 | 8.814 | 8.397 | 137 | 16.355 | 16.575 | 16.154 |
| 7 | 0.864 | 1.004 | 0.643 | 73 | 8.717 | 8.933 | 8.514 | 138 | 16.474 | 16.695 | 16.274 |
| 8 | 9.80 | 1.130 | 0.780 | 74 | 8.836 | 9.053 | 8.636 | 139 | 16.593 | 16.814 | 16.392 |
| 9 | 1.097 | 1.256 | 0.880 | 75 | 8.955 | 9.172 | 8.753 | 140 | 16.713 | 16.934 | 16.513 |
| 10 | 1.214 | 1.379 | 1.014 | 76 | 9.074 | 9.292 | 8.874 | 141 | 16.832 | 17.053 | 16.631 |
| 11 | 1.331 | 1.502 | 1.117 | 77 | 9.194 | 9.411 | 8.992 | 142 | 16.952 | 17.172 | 16.752 |
| 12 | 1.449 | 1.625 | 1.249 | 78 | 9.313 | 9.531 | 9.113 | 143 | 17.071 | 17.292 | 16.870 |
| 13 | 1.567 | 1.746 | 1.356 | 79 | 9.432 | 9.650 | 9.231 | 144 | 17.190 | 17.411 | 16.990 |
| 14 | 1.685 | 1.868 | 1.485 | 80 | 9.552 | 9.770 | 9.352 | 145 | 17.309 | 17.531 | 17.108 |
| 15 | 1.804 | 1.989 | 1.594 | 81 | 9.671 | 9.889 | 9.469 | 146 | 17.429 | 17.650 | 17.229 |
| 16 | 1.922 | 2.110 | 1.722 | 82 | 9.791 | 10.008 | 9.591 | 147 | 17.548 | 17.769 | 17.347 |
| 17 | 2.041 | 2.231 | 1.832 | 83 | 9.910 | 10.128 | 9.708 | 148 | 17.667 | 17.889 | 17.467 |
| 18 | 2.160 | 2.352 | 1.960 | 84 | 10.029 | 10.247 | 9.829 | 149 | 17.787 | 18.008 | 17.586 |
| 19 | 2.279 | 2.472 | 2.071 | 85 | 10.148 | 10.367 | 9.947 | 150 | 17.906 | 18.128 | 17.706 |
| 20 | 2.397 | 2.593 | 2.197 | 86 | 10.268 | 10.486 | 10.068 | 151 | 18.026 | 18.247 | 17.825 |
| 21 | 2.516 | 2.713 | 2.309 | 87 | 10.387 | 10.605 | 10.285 | 152 | 18.145 | 18.366 | 17.945 |
| 22 | 2.635 | 2.833 | 2.435 | 88 | 10.506 | 10.725 | 10.306 | 153 | 18.264 | 18.486 | 18.063 |
| 23 | 2.754 | 2.954 | 2.548 | 89 | 10.626 | 10.844 | 10.424 | 154 | 18.384 | 18.605 | 18.184 |
| 24 | 2.873 | 3.074 | 2.673 | 90 | 10.745 | 10.964 | 10.545 | 155 | 18.503 | 18.724 | 18.302 |
| 25 | 2.992 | 3.194 | 2.786 | 91 | 10.865 | 11.083 | 10.663 | 156 | 18.623 | 18.844 | 18.423 |
| 26 | 3.111 | 3.314 | 2.911 | 92 | 10.934 | 11.202 | 10.784 | 157 | 18.742 | 18.963 | 18.541 |
| 27 | 3.230 | 3.434 | 3.025 | 93 | 11.103 | 11.322 | 10.902 | 158 | 18.861 | 19.082 | 18.661 |
| 28 | 3.349 | 3.553 | 3.149 | 94 | 11.223 | 11.441 | 11.023 | 159 | 18.981 | 19.202 | 18.780 |
| 29 | 3.468 | 3.673 | 3.263 | 95 | 11.342 | 11.561 | 11.140 | 160 | 19.100 | 19.321 | 18.900 |
| 30 | 3.588 | 3.793 | 3.388 | 96 | 11.461 | 11.680 | 11.261 | 161 | 19.219 | 19.440 | 19.018 |
| 31 | 3.707 | 3.913 | 3.502 | 97 | 11.581 | 11.799 | 11.379 | 162 | 19.338 | 19.560 | 19.138 |
| 32 | 3.826 | 4.032 | 3.626 | 98 | 11.700 | 11.919 | 11.500 | 163 | 19.458 | 19.679 | 19.257 |
| 33 | 3.945 | 4.152 | 3.741 | 99 | 11.819 | 12.038 | 11.618 | 164 | 19.577 | 19.799 | 19.377 |
| 34 | 4.064 | 4.272 | 3.864 | 100 | 11.939 | 12.158 | 11.739 | 165 | 19.697 | 19.918 | 19.496 |
| 35 | 4.184 | 4.392 | 3.979 | 101 | 12.058 | 12.277 | 11.856 | 166 | 19.816 | 20.037 | 19.616 |
| 36 | 4.303 | 4.511 | 4.103 | 102 | 12.177 | 12.396 | 11.977 | 167 | 19.935 | 20.090 | 19.734 |
| 37 | 4.422 | 4.631 | 4.218 | 103 | 12.297 | 12.516 | 12.095 | 168 | 20.055 | 20.276 | 19.855 |
| 38 | 4.541 | 4.751 | 4.341 | 104 | 12.416 | 12.635 | 12.216 | 169 | 20.174 | 20.396 | 19.973 |
| 39 | 4.661 | 4.870 | 4.457 | 105 | 12.536 | 12.755 | 12.334 | 170 | 20.294 | 20.515 | 20.094 |
| 40 | 4.780 | 4.990 | 4.580 | 106 | 12.655 | 12.874 | 12.455 | 171 | 20.413 | 20.634 | 20.212 |
| 41 | 4.899 | 5.109 | 4.695 | 107 | 12.774 | 12.993 | 12.573 | 172 | 20.532 | 20.754 | 20.332 |
| 42 | 5.018 | 5.229 | 4.818 | 108 | 12.893 | 13.113 | 12.693 | 173 | 20.652 | 20.873 | 20.451 |
| 43 | 5.138 | 5.349 | 4.934 | 109 | 13.013 | 13.232 | 12.811 | 174 | 20.771 | 20.993 | 20.571 |
| 44 | 5.257 | 5.468 | 5.057 | 110 | 13.132 | 13.352 | 12.932 | 175 | 20.890 | 21.112 | 20.689 |
| 45 | 5.376 | 5.588 | 5.173 | 111 | 13.251 | 13.471 | 13.050 | 176 | 21.010 | 21.231 | 20.810 |
| 46 | 5.495 | 5.707 | 5.295 | 112 | 13.371 | 13.590 | 13.171 | 177 | 21.129 | 21.351 | 20.928 |
| 47 | 5.615 | 5.827 | 5.411 | 113 | 13.490 | 13.710 | 13.289 | 178 | 21.248 | 21.470 | 21.048 |
| 48 | 5.734 | 5.946 | 5.534 | 114 | 13.610 | 13.829 | 13.410 | 179 | 21.368 | 21.589 | 21.167 |
| 49 | 5.853 | 6.066 | 5.650 | 115 | 13.729 | 13.949 | 13.528 | 180 | 21.487 | 21.709 | 21.287 |
| 50 | 5.972 | 6.186 | 5.772 | 116 | 13.848 | 14.068 | 13.648 | 181 | 21.606 | 21.828 | 21.406 |
| 51 | 6.092 | 6.305 | 5.889 | 117 | 13.968 | 14.187 | 13.766 | 182 | 21.726 | 21.948 | 21.526 |
| 52 | 6.211 | 6.425 | 6.011 | 118 | 14.087 | 14.307 | 13.887 | 183 | 21.845 | 22.067 | 21.644 |
| 53 | 6.330 | 6.544 | 6.127 | 119 | 14.206 | 14.426 | 14.005 | 184 | 21.965 | 22.186 | 21.765 |
| 54 | 6.449 | 6.663 | 6.249 | 120 | 14.326 | 14.546 | 14.126 | 185 | 22.084 | 22.306 | 21.883 |
| 55 | 6.569 | 6.783 | 6.366 | 121 | 14.445 | 14.665 | 14.244 | 186 | 22.203 | 22.425 | 22.003 |
| 56 | 6.688 | 6.903 | 6.488 | 122 | 14.564 | 14.784 | 14.364 | 187 | 22.323 | 22.544 | 22.122 |
| 57 | 6.807 | 7.022 | 6.605 | 123 | 14.684 | 14.904 | 14.482 | 188 | 22.442 | 22.664 | 22.242 |
| 58 | 6.927 | 7.142 | 6.727 | 124 | 14.803 | 15.023 | 14.603 | 189 | 22.561 | 22.783 | 22.360 |
| 59 | 7.046 | 7.261 | 6.843 | 125 | 14.922 | 15.143 | 14.721 | 190 | 22.681 | 22.902 | 22.481 |
| 60 | 7.165 | 7.380 | 6.965 | 126 | 15.042 | 15.262 | 14.842 | 191 | 22.800 | 23.022 | 22.599 |
| 61 | 7.285 | 7.500 | 7.082 | 127 | 15.161 | 15.381 | 14.960 | 192 | 22.919 | 23.141 | 22.719 |
| 62 | 7.404 | 7.619 | 7.204 | 128 | 15.281 | 15.501 | 15.081 | 193 | 23.039 | 23.261 | 22.838 |
| 63 | 7.523 | 7.739 | 7.321 | 129 | 15.400 | 15.620 | 15.199 | 194 | 23.158 | 23.380 | 22.958 |
| 64 | 7.643 | 7.859 | 7.443 | 130 | 15.519 | 15.740 | 15.319 | 195 | 23.277 | 23.499 | 23.177 |
| 65 | 7.762 | 7.978 | 7.560 | 131 | 15.639 | 15.859 | 15.437 | 196 | 23.397 | 23.619 | 23.197 |
| 66 | 7.881 | 8.097 | 7.681 | 132 | 15.758 | 15.978 | 15.558 | 197 | 23.516 | 23.738 | 23.315 |
| 67 | 8.001 | 8.217 | 7.798 | 133 | 15.877 | 16.098 | 15.676 | 198 | 23.636 | 23.858 | 23.436 |
| 68 | 8.120 | 8.336 | 7.920 | 134 | 15.996 | 16.217 | 15.796 | 199 | 23.755 | 23.977 | 23.554 |
| 69 | 8.239 | 8.456 | 8.037 | 135 | 16.116 | 16.337 | 15.915 | 200 | 23.874 | 24.096 | 23.674 |
| 70 | 8.358 | 8.575 | 8.158 | | | | | | | | |

# Sprocket Diameter

# No. 40 ½" Pitch

## Roller Chain Sprocket Diameters

| No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 0.851 | 0.988 | 0.497 | 71 | 11.304 | 11.592 | 10.988 | 136 | 21.647 | 21.941 | 21.334 |
| 6 | 1.000 | 1.166 | 0.688 | 72 | 11.463 | 11.752 | 11.151 | 137 | 21.806 | 22.100 | 21.492 |
| 7 | 1.152 | 1.338 | 0.812 | 73 | 11.622 | 11.911 | 11.306 | 138 | 21.965 | 22.259 | 21.653 |
| 8 | 1.307 | 1.507 | 0.995 | 74 | 11.781 | 12.070 | 11.468 | 139 | 22.124 | 22.419 | 21.810 |
| 9 | 1.462 | 1.674 | 1.127 | 75 | 11.940 | 12.229 | 11.625 | 140 | 22.284 | 22.578 | 21.971 |
| 10 | 1.618 | 1.839 | 1.305 | 76 | 12.099 | 12.389 | 11.786 | 141 | 22.442 | 22.737 | 22.129 |
| 11 | 1.775 | 2.003 | 1.444 | 77 | 12.258 | 12.548 | 11.943 | 142 | 22.602 | 22.896 | 22.289 |
| 12 | 1.932 | 2.166 | 1.614 | 78 | 12.417 | 12.707 | 12.105 | 143 | 22.761 | 23.055 | 22.447 |
| 13 | 2.089 | 2.328 | 1.761 | 79 | 12.576 | 12.866 | 12.261 | 144 | 22.920 | 23.214 | 22.607 |
| 14 | 2.247 | 2.490 | 1.934 | 80 | 12.736 | 13.026 | 12.423 | 145 | 23.079 | 23.374 | 22.765 |
| 15 | 2.405 | 2.652 | 2.079 | 81 | 12.895 | 13.185 | 12.580 | 146 | 23.238 | 23.533 | 22.926 |
| 16 | 2.563 | 2.814 | 2.250 | 82 | 13.054 | 13.344 | 12.742 | 147 | 23.398 | 23.692 | 23.088 |
| 17 | 2.721 | 2.974 | 2.397 | 83 | 13.213 | 13.503 | 12.898 | 148 | 23.557 | 23.851 | 23.244 |
| 18 | 2.879 | 3.136 | 2.567 | 84 | 13.372 | 13.663 | 13.059 | 149 | 23.716 | 24.010 | 23.402 |
| 19 | 3.038 | 3.292 | 2.715 | 85 | 13.531 | 13.822 | 13.216 | 150 | 23.875 | 24.170 | 23.562 |
| 20 | 3.196 | 3.457 | 2.883 | 86 | 13.690 | 13.981 | 13.373 | 151 | 24.034 | 24.329 | 23.720 |
| 21 | 3.355 | 3.618 | 3.033 | 87 | 13.849 | 14.140 | 13.534 | 152 | 24.193 | 24.488 | 23.880 |
| 22 | 3.513 | 3.778 | 3.201 | 88 | 14.009 | 14.299 | 13.696 | 153 | 24.352 | 24.647 | 24.038 |
| 23 | 3.672 | 3.938 | 3.351 | 89 | 14.168 | 14.459 | 13.853 | 154 | 24.512 | 24.806 | 24.199 |
| 24 | 3.831 | 4.098 | 3.518 | 90 | 14.327 | 14.618 | 14.014 | 155 | 24.672 | 24.965 | 24.357 |
| 25 | 3.989 | 4.258 | 3.669 | 91 | 14.486 | 14.777 | 14.171 | 156 | 24.830 | 25.124 | 24.517 |
| 26 | 4.148 | 4.418 | 3.835 | 92 | 14.645 | 14.936 | 14.332 | 157 | 24.989 | 25.284 | 24.675 |
| 27 | 4.307 | 4.578 | 3.987 | 93 | 14.804 | 15.096 | 14.489 | 158 | 24.148 | 25.443 | 24.835 |
| 28 | 4.465 | 4.738 | 4.153 | 94 | 14.963 | 15.255 | 14.651 | 159 | 25.307 | 25.602 | 24.993 |
| 29 | 4.625 | 4.898 | 4.305 | 95 | 15.122 | 15.414 | 14.808 | 160 | 25.466 | 25.761 | 25.154 |
| 30 | 4.783 | 5.057 | 4.471 | 96 | 15.282 | 15.573 | 14.969 | 161 | 25.625 | 25.920 | 25.312 |
| 31 | 4.942 | 5.217 | 4.623 | 97 | 15.441 | 15.732 | 15.126 | 162 | 25.785 | 26.080 | 25.472 |
| 32 | 5.101 | 5.376 | 4.788 | 98 | 15.600 | 15.892 | 15.287 | 163 | 25.944 | 26.239 | 25.630 |
| 33 | 5.260 | 5.536 | 4.941 | 99 | 15.759 | 16.051 | 15.445 | 164 | 26.103 | 26.398 | 25.790 |
| 34 | 5.419 | 5.696 | 5.107 | 100 | 15.918 | 16.210 | 15.605 | 165 | 26.262 | 26.557 | 25.948 |
| 35 | 5.578 | 5.856 | 5.260 | 101 | 16.077 | 16.369 | 15.763 | 166 | 26.421 | 26.716 | 26.109 |
| 36 | 5.737 | 6.015 | 5.425 | 102 | 16.236 | 16.528 | 15.924 | 167 | 26.581 | 26.876 | 26.266 |
| 37 | 5.896 | 6.174 | 5.578 | 103 | 16.395 | 16.688 | 16.081 | 168 | 25.739 | 27.035 | 26.427 |
| 38 | 6.055 | 6.334 | 5.742 | 104 | 16.555 | 16.847 | 16.242 | 169 | 26.899 | 27.194 | 26.585 |
| 39 | 6.214 | 6.494 | 5.896 | 105 | 16.714 | 17.006 | 16.399 | 170 | 27.058 | 27.353 | 26.745 |
| 40 | 6.373 | 6.653 | 6.061 | 106 | 16.873 | 17.165 | 16.561 | 171 | 27.217 | 27.512 | 26.903 |
| 41 | 6.532 | 6.812 | 6.214 | 107 | 17.032 | 17.324 | 16.717 | 172 | 27.376 | 27.671 | 27.063 |
| 42 | 6.691 | 6.972 | 6.379 | 108 | 17.191 | 17.484 | 16.878 | 173 | 27.535 | 27.831 | 27.221 |
| 43 | 6.850 | 7.132 | 6.532 | 109 | 17.351 | 17.643 | 17.036 | 174 | 27.694 | 27.990 | 27.382 |
| 44 | 7.009 | 7.291 | 6.696 | 110 | 17.509 | 17.802 | 17.197 | 175 | 27.854 | 28.149 | 27.540 |
| 45 | 7.168 | 7.450 | 6.851 | 111 | 17.668 | 17.962 | 17.304 | 176 | 28.013 | 28.308 | 27.700 |
| 46 | 7.327 | 7.609 | 7.014 | 112 | 17.827 | 18.121 | 17.515 | 177 | 28.172 | 28.467 | 27.858 |
| 47 | 7.486 | 7.769 | 7.169 | 113 | 17.987 | 18.280 | 17.672 | 178 | 28.331 | 28.626 | 28.018 |
| 48 | 7.645 | 7.928 | 7.332 | 114 | 18.146 | 18.439 | 17.834 | 179 | 28.490 | 28.786 | 28.176 |
| 49 | 7.804 | 8.088 | 7.487 | 115 | 18.305 | 18.598 | 17.991 | 180 | 28.649 | 28.945 | 28.337 |
| 50 | 7.963 | 8.248 | 7.650 | 116 | 18.464 | 18.757 | 18.151 | 181 | 28.808 | 29.104 | 28.495 |
| 51 | 8.122 | 8.406 | 7.805 | 117 | 18.623 | 18.916 | 18.309 | 182 | 28.968 | 28.263 | 28.655 |
| 52 | 8.281 | 8.566 | 7.968 | 118 | 18.782 | 19.076 | 18.470 | 183 | 29.127 | 29.422 | 28.813 |
| 53 | 8.440 | 8.725 | 8.124 | 119 | 18.941 | 19.235 | 18.627 | 184 | 29.286 | 29.581 | 28.973 |
| 54 | 8.599 | 8.884 | 8.286 | 120 | 19.101 | 19.394 | 18.788 | 185 | 29.445 | 29.741 | 29.131 |
| 55 | 8.758 | 9.044 | 8.442 | 121 | 19.260 | 19.553 | 18.946 | 186 | 29.604 | 29.900 | 29.291 |
| 56 | 8.917 | 9.204 | 8.605 | 122 | 19.419 | 19.712 | 19.106 | 187 | 29.763 | 30.059 | 29.450 |
| 57 | 9.077 | 9.362 | 8.760 | 123 | 19.578 | 19.872 | 19.264 | 188 | 29.922 | 30.218 | 29.610 |
| 58 | 9.235 | 9.522 | 8.924 | 124 | 19.737 | 20.031 | 19.425 | 189 | 30.082 | 30.387 | 29.768 |
| 59 | 9.395 | 9.628 | 9.078 | 125 | 19.896 | 20.190 | 19.582 | 190 | 30.241 | 30.536 | 29.928 |
| 60 | 9.554 | 9.840 | 9.241 | 126 | 20.056 | 20.349 | 19.743 | 191 | 30.400 | 30.696 | 30.086 |
| 61 | 9.713 | 10.000 | 9.397 | 127 | 20.215 | 20.508 | 19.900 | 192 | 30.559 | 30.855 | 30.246 |
| 62 | 9.872 | 10.159 | 9.559 | 128 | 20.374 | 20.667 | 20.061 | 193 | 30.718 | 31.014 | 30.404 |
| 63 | 10.031 | 10.319 | 9.715 | 129 | 20.533 | 20.827 | 20.219 | 194 | 30.877 | 31.173 | 30.565 |
| 64 | 10.190 | 10.478 | 9.872 | 130 | 20.692 | 20.986 | 20.379 | 195 | 31.037 | 31.332 | 30.723 |
| 65 | 10.349 | 10.673 | 10.033 | 131 | 20.851 | 21.145 | 20.537 | 196 | 31.196 | 31.491 | 30.878 |
| 66 | 10.508 | 10.796 | 10.195 | 132 | 21.010 | 21.304 | 20.698 | 197 | 31.355 | 31.651 | 31.042 |
| 67 | 10.667 | 10.955 | 10.352 | 133 | 21.169 | 21.463 | 20.855 | 198 | 31.514 | 31.810 | 31.202 |
| 68 | 10.826 | 11.115 | 10.514 | 134 | 21.329 | 21.623 | 21.016 | 199 | 31.673 | 31.969 | 31.359 |
| 69 | 10.985 | 11.274 | 10.670 | 135 | 21.488 | 21.782 | 21.174 | 200 | 31.832 | 32.128 | 31.520 |
| 70 | 11.145 | 11.433 | 10.832 | | | | | | | | |

# No. 50
## 5/8" Pitch

# Sprocket Diameter

Martin

## Roller Chain Sprocket Diameters

| No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 1.063 | 1.235 | 0.611 | 71 | 14.129 | 14.491 | 13.726 | 136 | 27.059 | 27.426 | 26.659 |
| 6 | 1.250 | 1.458 | 0.850 | 72 | 14.329 | 14.690 | 13.929 | 137 | 27.258 | 27.626 | 26.856 |
| 7 | 1.441 | 1.673 | 1.104 | 73 | 14.528 | 14.889 | 14.124 | 138 | 27.457 | 27.824 | 27.057 |
| 8 | 1.633 | 1.884 | 1.233 | 74 | 14.726 | 15.088 | 14.326 | 139 | 27.656 | 28.024 | 27.254 |
| 9 | 1.828 | 2.093 | 1.400 | 75 | 14.925 | 15.287 | 14.522 | 140 | 27.854 | 28.223 | 27.454 |
| 10 | 2.023 | 2.299 | 1.623 | 76 | 15.124 | 15.486 | 14.724 | 141 | 28.053 | 28.421 | 27.652 |
| 11 | 2.219 | 2.504 | 1.796 | 77 | 15.323 | 15.685 | 14.920 | 142 | 28.253 | 28.621 | 27.853 |
| 12 | 2.415 | 2.708 | 2.015 | 78 | 15.522 | 15.884 | 15.122 | 143 | 28.451 | 28.819 | 28.050 |
| 13 | 2.612 | 2.911 | 2.193 | 79 | 15.721 | 16.083 | 15.318 | 144 | 28.650 | 29.018 | 28.250 |
| 14 | 2.809 | 3.113 | 2.409 | 80 | 15.919 | 16.283 | 15.519 | 145 | 28.849 | 28.218 | 28.447 |
| 15 | 3.006 | 3.315 | 2.590 | 81 | 16.119 | 16.481 | 15.715 | 146 | 29.048 | 29.416 | 28.608 |
| 16 | 3.204 | 3.517 | 2.804 | 82 | 16.318 | 16.681 | 15.918 | 147 | 29.247 | 29.615 | 28.845 |
| 17 | 3.401 | 3.718 | 2.987 | 83 | 16.516 | 16.879 | 16.113 | 148 | 29.446 | 29.814 | 29.046 |
| 18 | 3.599 | 3.919 | 3.159 | 84 | 16.715 | 17.079 | 16.315 | 149 | 29.645 | 30.013 | 29.243 |
| 19 | 3.798 | 4.121 | 3.384 | 85 | 16.914 | 17.278 | 16.511 | 150 | 29.844 | 30.213 | 29.444 |
| 20 | 3.995 | 4.321 | 3.595 | 86 | 17.113 | 17.476 | 16.713 | 151 | 30.043 | 30.411 | 29.641 |
| 21 | 4.194 | 4.522 | 3.782 | 87 | 17.312 | 17.676 | 16.909 | 152 | 30.241 | 30.610 | 29.841 |
| 22 | 4.392 | 4.722 | 3.992 | 88 | 17.511 | 17.874 | 17.111 | 153 | 30.441 | 30.809 | 30.039 |
| 23 | 4.590 | 4.923 | 4.179 | 89 | 17.709 | 18.074 | 17.307 | 154 | 30.639 | 31.008 | 30.239 |
| 24 | 4.788 | 5.123 | 4.388 | 90 | 17.909 | 18.273 | 17.509 | 155 | 30.838 | 31.207 | 30.437 |
| 25 | 4.987 | 5.323 | 4.577 | 91 | 18.108 | 18.472 | 17.705 | 156 | 31.038 | 31.406 | 30.638 |
| 26 | 5.185 | 5.523 | 4.785 | 92 | 18.306 | 18.671 | 17.906 | 157 | 31.236 | 31.605 | 30.835 |
| 27 | 5.384 | 5.723 | 4.975 | 93 | 18.505 | 18.870 | 18.103 | 158 | 31.435 | 31.804 | 31.035 |
| 28 | 5.582 | 5.922 | 5.182 | 94 | 18.704 | 19.069 | 18.304 | 159 | 31.634 | 32.003 | 31.233 |
| 29 | 5.781 | 6.122 | 5.371 | 95 | 18.903 | 19.268 | 18.501 | 160 | 31.833 | 32.202 | 31.433 |
| 30 | 5.979 | 6.321 | 5.579 | 96 | 19.102 | 19.467 | 18.702 | 161 | 32.032 | 32.401 | 31.630 |
| 31 | 6.178 | 6.521 | 5.770 | 97 | 19.301 | 19.666 | 18.898 | 162 | 32.231 | 32.600 | 31.831 |
| 32 | 6.376 | 6.721 | 5.976 | 98 | 19.500 | 19.865 | 19.100 | 163 | 32.430 | 32.799 | 32.082 |
| 33 | 6.575 | 6.921 | 6.168 | 99 | 19.699 | 20.064 | 19.296 | 164 | 32.629 | 32.998 | 32.229 |
| 34 | 6.774 | 7.120 | 6.374 | 100 | 19.898 | 20.263 | 19.498 | 165 | 32.828 | 33.197 | 32.426 |
| 35 | 6.973 | 7.319 | 6.565 | 101 | 20.096 | 20.462 | 19.694 | 166 | 33.027 | 33.396 | 32.627 |
| 36 | 7.171 | 7.519 | 6.771 | 102 | 20.296 | 20.661 | 19.896 | 167 | 33.226 | 33.595 | 32.824 |
| 37 | 7.370 | 7.718 | 6.963 | 103 | 20.494 | 20.860 | 20.092 | 168 | 33.424 | 33.794 | 33.024 |
| 38 | 7.569 | 7.918 | 7.169 | 104 | 20.693 | 21.059 | 20.293 | 169 | 33.624 | 33.993 | 33.222 |
| 39 | 7.768 | 8.117 | 7.361 | 105 | 20.893 | 21.258 | 20.490 | 170 | 33.823 | 34.192 | 33.423 |
| 40 | 7.966 | 8.316 | 7.566 | 106 | 21.091 | 21.457 | 20.691 | 171 | 34.021 | 34.391 | 33.620 |
| 41 | 8.165 | 8.516 | 7.759 | 107 | 21.290 | 21.656 | 20.888 | 172 | 34.220 | 34.589 | 33.820 |
| 42 | 8.364 | 8.715 | 7.964 | 108 | 21.489 | 21.855 | 21.089 | 173 | 34.419 | 34.789 | 34.018 |
| 43 | 8.563 | 8.914 | 8.157 | 109 | 21.688 | 22.054 | 21.286 | 174 | 36.618 | 34.988 | 34.218 |
| 44 | 8.761 | 9.114 | 8.361 | 110 | 21.887 | 22.253 | 21.487 | 175 | 34.817 | 35.186 | 34.416 |
| 45 | 8.960 | 9.313 | 8.554 | 111 | 22.086 | 22.452 | 21.684 | 176 | 35.016 | 35.386 | 34.616 |
| 46 | 9.159 | 9.512 | 8.759 | 112 | 22.284 | 22.651 | 21.884 | 177 | 35.215 | 35.584 | 34.814 |
| 47 | 9.358 | 9.711 | 8.952 | 113 | 22.484 | 22.850 | 22.081 | 178 | 35.414 | 35.783 | 35.014 |
| 48 | 9.556 | 9.911 | 9.156 | 114 | 22.683 | 23.049 | 22.283 | 179 | 35.613 | 35.983 | 35.211 |
| 49 | 9.755 | 10.110 | 9.350 | 115 | 22.881 | 23.248 | 22.479 | 180 | 35.812 | 36.181 | 35.412 |
| 50 | 9.954 | 10.309 | 9.554 | 116 | 23.080 | 23.447 | 22.680 | 181 | 36.011 | 36.380 | 35.609 |
| 51 | 10.153 | 10.508 | 9.748 | 117 | 23.279 | 23.646 | 22.827 | 182 | 36.209 | 36.579 | 35.809 |
| 52 | 10.351 | 10.708 | 9.951 | 118 | 23.478 | 23.845 | 23.078 | 183 | 36.409 | 36.778 | 36.007 |
| 53 | 10.550 | 10.907 | 10.146 | 119 | 23.677 | 24.004 | 23.275 | 184 | 36.608 | 36.977 | 36.208 |
| 54 | 10.749 | 11.106 | 10.349 | 120 | 23.876 | 24.243 | 23.476 | 185 | 36.806 | 37.176 | 36.405 |
| 55 | 10.948 | 11.305 | 10.543 | 121 | 24.075 | 24.442 | 23.673 | 186 | 37.005 | 37.375 | 36.605 |
| 56 | 11.147 | 11.504 | 10.747 | 122 | 24.274 | 24.641 | 23.874 | 187 | 37.204 | 37.574 | 36.803 |
| 57 | 11.346 | 11.703 | 10.941 | 123 | 24.473 | 24.840 | 24.071 | 188 | 37.403 | 37.773 | 37.003 |
| 58 | 11.544 | 11.903 | 11.144 | 124 | 24.672 | 25.039 | 24.272 | 189 | 37.602 | 39.972 | 37.201 |
| 59 | 11.743 | 12.102 | 11.339 | 125 | 24.871 | 25.238 | 24.469 | 190 | 37.801 | 38.171 | 37.401 |
| 60 | 11.942 | 12.301 | 11.542 | 126 | 25.069 | 25.437 | 24.669 | 191 | 38.000 | 38.370 | 37.599 |
| 61 | 12.141 | 12.500 | 11.737 | 127 | 25.269 | 25.636 | 24.867 | 192 | 38.199 | 38.569 | 37.799 |
| 62 | 12.340 | 12.699 | 11.940 | 128 | 25.468 | 25.834 | 25.068 | 193 | 38.398 | 38.768 | 37.998 |
| 63 | 12.539 | 12.898 | 12.135 | 129 | 25.666 | 26.034 | 25.264 | 194 | 38.597 | 38.967 | 38.197 |
| 64 | 12.738 | 13.098 | 12.338 | 130 | 25.865 | 26.233 | 25.465 | 195 | 38.796 | 39.166 | 38.394 |
| 65 | 12.936 | 13.296 | 12.533 | 131 | 26.064 | 26.432 | 25.662 | 196 | 38.994 | 39.364 | 38.594 |
| 66 | 13.135 | 13.496 | 12.735 | 132 | 26.263 | 26.631 | 25.863 | 197 | 39.194 | 39.564 | 38.792 |
| 67 | 13.334 | 13.694 | 12.930 | 133 | 26.462 | 26.829 | 26.060 | 198 | 39.393 | 39.763 | 38.993 |
| 68 | 13.533 | 13.894 | 13.133 | 134 | 26.661 | 27.029 | 26.261 | 199 | 39.591 | 39.961 | 39.190 |
| 69 | 13.732 | 14.093 | 13.328 | 135 | 26.860 | 27.228 | 26.458 | 200 | 39.791 | 40.161 | 39.391 |
| 70 | 13.931 | 14.292 | 13.531 | | | | | | | | |

# Sprocket Diameter

# No. 60 ¾" Pitch

## Roller Chain Sprocket Diameters

| No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 1.276 | 1.482 | 0.745 | 71 | 16.955 | 17.389 | 16.482 | 136 | 32.471 | 32.912 | 32.002 |
| 6 | 1.500 | 1.749 | 1.031 | 72 | 17.195 | 17.628 | 16.726 | 137 | 32.709 | 33.151 | 32.238 |
| 7 | 1.729 | 2.007 | 1.216 | 73 | 17.433 | 17.867 | 16.960 | 138 | 32.948 | 33.389 | 32.479 |
| 8 | 1.960 | 2.261 | 1.491 | 74 | 17.672 | 18.106 | 17.203 | 139 | 33.187 | 33.629 | 32.716 |
| 9 | 2.193 | 2.511 | 1.691 | 75 | 17.910 | 18.344 | 17.437 | 140 | 33.425 | 33.867 | 32.956 |
| 10 | 2.427 | 2.759 | 1.958 | 76 | 18.149 | 18.584 | 17.680 | 141 | 33.664 | 34.106 | 33.193 |
| 11 | 2.663 | 3.005 | 2.166 | 77 | 18.388 | 18.822 | 17.915 | 142 | 33.903 | 34.345 | 33.434 |
| 12 | 2.898 | 3.249 | 2.429 | 78 | 18.626 | 19.061 | 18.157 | 143 | 34.142 | 34.583 | 33.670 |
| 13 | 3.134 | 3.493 | 2.642 | 79 | 18.865 | 19.300 | 18.392 | 144 | 34.380 | 34.822 | 33.911 |
| 14 | 3.371 | 3.736 | 2.902 | 80 | 19.103 | 19.539 | 18.634 | 145 | 34.619 | 35.061 | 34.148 |
| 15 | 3.608 | 3.978 | 3.119 | 81 | 19.343 | 19.778 | 18.870 | 146 | 34.858 | 35.300 | 34.389 |
| 16 | 3.845 | 4.220 | 3.380 | 82 | 19.581 | 20.017 | 19.112 | 147 | 35.096 | 35.538 | 34.625 |
| 17 | 4.082 | 4.462 | 3.595 | 83 | 19.820 | 20.255 | 19.347 | 148 | 35.335 | 35.777 | 34.866 |
| 18 | 4.319 | 4.703 | 3.850 | 84 | 20.058 | 20.495 | 19.589 | 149 | 35.574 | 36.016 | 35.103 |
| 19 | 4.557 | 4.945 | 4.072 | 85 | 20.297 | 20.733 | 19.824 | 150 | 35.813 | 36.255 | 35.344 |
| 20 | 4.794 | 5.186 | 4.325 | 86 | 20.536 | 20.972 | 20.067 | 151 | 36.051 | 36.494 | 35.580 |
| 21 | 5.033 | 5.426 | 4.549 | 87 | 20.774 | 21.211 | 20.302 | 152 | 36.390 | 36.732 | 35.821 |
| 22 | 5.270 | 5.666 | 4.801 | 88 | 21.013 | 21.449 | 20.544 | 153 | 36.529 | 36.971 | 36.058 |
| 23 | 5.508 | 5.907 | 5.026 | 89 | 21.251 | 21.689 | 20.779 | 154 | 36.767 | 37.210 | 36.298 |
| 24 | 5.746 | 6.147 | 5.277 | 90 | 21.491 | 21.927 | 21.022 | 155 | 37.006 | 37.448 | 36.535 |
| 25 | 5.984 | 6.387 | 5.503 | 91 | 21.729 | 22.166 | 21.257 | 156 | 37.245 | 37.688 | 36.776 |
| 26 | 6.222 | 6.627 | 5.753 | 92 | 21.968 | 22.405 | 21.499 | 157 | 37.484 | 37.926 | 37.013 |
| 27 | 6.461 | 6.867 | 5.980 | 93 | 22.206 | 22.644 | 21.734 | 158 | 37.722 | 38.165 | 37.253 |
| 28 | 6.698 | 7.106 | 6.229 | 94 | 22.445 | 22.883 | 21.976 | 159 | 37.961 | 38.404 | 37.490 |
| 29 | 6.937 | 7.346 | 6.458 | 95 | 22.684 | 23.121 | 22.212 | 160 | 38.200 | 38.642 | 37.731 |
| 30 | 7.175 | 7.586 | 6.706 | 96 | 22.922 | 23.360 | 22.453 | 161 | 38.438 | 38.881 | 37.968 |
| 31 | 7.413 | 7.826 | 6.935 | 97 | 23.162 | 23.599 | 22.689 | 162 | 38.677 | 39.120 | 38.208 |
| 32 | 7.652 | 8.065 | 7.183 | 98 | 23.400 | 23.838 | 22.931 | 163 | 38.916 | 39.359 | 38.445 |
| 33 | 7.890 | 8.305 | 7.412 | 99 | 23.639 | 24.077 | 23.167 | 164 | 39.155 | 39.597 | 38.686 |
| 34 | 8.129 | 8.544 | 7.660 | 100 | 23.877 | 24.316 | 23.408 | 165 | 39.393 | 39.836 | 38.922 |
| 35 | 8.367 | 8.783 | 7.889 | 101 | 24.116 | 24.554 | 23.644 | 166 | 39.632 | 40.075 | 39.163 |
| 36 | 8.606 | 9.023 | 8.137 | 102 | 24.355 | 24.793 | 23.886 | 167 | 39.871 | 40.314 | 39.400 |
| 37 | 8.844 | 9.262 | 8.367 | 103 | 24.593 | 25.032 | 24.121 | 168 | 40.109 | 40.553 | 39.640 |
| 38 | 9.083 | 9.501 | 8.614 | 104 | 24.832 | 25.271 | 24.363 | 169 | 40.349 | 40.791 | 39.877 |
| 39 | 9.321 | 9.740 | 8.844 | 105 | 25.071 | 25.510 | 24.599 | 170 | 40.587 | 41.030 | 40.118 |
| 40 | 9.560 | 9.980 | 9.091 | 106 | 25.310 | 25.748 | 24.841 | 171 | 40.826 | 41.269 | 40.355 |
| 41 | 9.798 | 10.219 | 9.321 | 107 | 25.548 | 25.987 | 25.076 | 172 | 41.064 | 41.507 | 40.595 |
| 42 | 10.037 | 10.458 | 9.568 | 108 | 25.787 | 26.226 | 25.318 | 173 | 41.303 | 41.747 | 40.832 |
| 43 | 10.275 | 10.697 | 9.799 | 109 | 26.026 | 26.465 | 25.554 | 174 | 41.542 | 41.985 | 41.073 |
| 44 | 10.514 | 10.937 | 10.045 | 110 | 26.264 | 26.704 | 25.795 | 175 | 41.780 | 42.224 | 41.310 |
| 45 | 10.752 | 11.176 | 10.276 | 111 | 26.503 | 26.942 | 26.031 | 176 | 42.020 | 42.463 | 41.551 |
| 46 | 10.991 | 11.414 | 10.522 | 112 | 26.741 | 27.181 | 26.272 | 177 | 42.258 | 42.701 | 41.787 |
| 47 | 11.229 | 11.654 | 10.754 | 113 | 26.981 | 27.420 | 26.507 | 178 | 42.497 | 42.940 | 42.028 |
| 48 | 11.468 | 11.893 | 10.999 | 114 | 27.219 | 27.659 | 26.750 | 179 | 42.735 | 43.179 | 42.265 |
| 49 | 11.706 | 12.132 | 11.231 | 115 | 27.458 | 27.898 | 26.986 | 180 | 42.974 | 43.418 | 42.505 |
| 50 | 11.945 | 12.371 | 11.476 | 116 | 27.696 | 28.136 | 27.227 | 181 | 43.213 | 43.656 | 42.742 |
| 51 | 12.183 | 12.610 | 11.708 | 117 | 27.935 | 28.375 | 27.464 | 182 | 43.451 | 43.895 | 42.982 |
| 52 | 12.422 | 12.849 | 11.953 | 118 | 28.174 | 28.614 | 27.705 | 183 | 43.691 | 44.134 | 43.220 |
| 53 | 12.660 | 13.088 | 12.186 | 119 | 28.412 | 28.853 | 27.941 | 184 | 43.929 | 44.372 | 43.460 |
| 54 | 12.899 | 13.327 | 12.430 | 120 | 28.652 | 29.091 | 28.183 | 185 | 44.168 | 44.612 | 43.697 |
| 55 | 13.137 | 13.566 | 12.663 | 121 | 28.890 | 29.330 | 28.418 | 186 | 44.406 | 44.850 | 43.937 |
| 56 | 13.376 | 13.805 | 12.907 | 122 | 29.129 | 29.569 | 28.660 | 187 | 44.645 | 45.089 | 44.174 |
| 57 | 13.615 | 14.044 | 13.140 | 123 | 29.367 | 29.808 | 28.896 | 188 | 44.884 | 45.328 | 44.415 |
| 58 | 13.853 | 14.283 | 13.384 | 124 | 29.606 | 30.047 | 29.137 | 189 | 45.122 | 45.566 | 44.652 |
| 59 | 14.092 | 14.522 | 13.618 | 125 | 29.845 | 30.285 | 29.373 | 190 | 45.362 | 45.805 | 44.893 |
| 60 | 14.330 | 14.761 | 13.861 | 126 | 30.083 | 30.524 | 29.614 | 191 | 45.600 | 46.044 | 45.129 |
| 61 | 14.570 | 15.000 | 14.095 | 127 | 30.323 | 30.763 | 29.851 | 192 | 45.839 | 46.283 | 45.370 |
| 62 | 14.808 | 15.239 | 14.339 | 128 | 30.561 | 31.001 | 30.092 | 193 | 46.077 | 46.521 | 45.607 |
| 63 | 15.047 | 15.478 | 14.573 | 129 | 30.800 | 31.241 | 30.328 | 194 | 46.316 | 46.760 | 45.847 |
| 64 | 15.285 | 15.717 | 14.816 | 130 | 31.038 | 31.479 | 30.569 | 195 | 46.555 | 46.999 | 46.084 |
| 65 | 15.524 | 15.956 | 15.050 | 131 | 31.277 | 31.718 | 30.806 | 196 | 46.793 | 47.237 | 46.324 |
| 66 | 15.762 | 16.195 | 15.293 | 132 | 31.516 | 31.957 | 31.047 | 197 | 47.033 | 47.477 | 46.562 |
| 67 | 16.001 | 16.433 | 15.528 | 133 | 31.754 | 32.195 | 31.283 | 198 | 47.271 | 47.715 | 46.802 |
| 68 | 16.240 | 16.673 | 15.771 | 134 | 31.993 | 32.435 | 31.524 | 199 | 47.510 | 47.954 | 47.039 |
| 69 | 16.478 | 16.911 | 16.005 | 135 | 32.232 | 32.673 | 31.761 | 200 | 47.749 | 48.193 | 47.280 |
| 70 | 16.717 | 17.150 | 16.248 | | | | | | | | |

# No. 80
# 1" Pitch

# Sprocket Diameter

## Roller Chain Sprocket Diameters

| No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 1.701 | 1.976 | 0.993 | 71 | 22.607 | 23.185 | 21.977 | 136 | 43.294 | 43.882 | 42.669 |
| 6 | 2.000 | 2.332 | 1.375 | 72 | 22.926 | 23.504 | 22.301 | 137 | 43.612 | 44.201 | 42.984 |
| 7 | 2.305 | 2.676 | 1.622 | 73 | 23.244 | 23.822 | 22.613 | 138 | 43.931 | 44.519 | 43.306 |
| 8 | 2.613 | 3.014 | 1.988 | 74 | 23.562 | 24.141 | 22.937 | 139 | 44.249 | 44.838 | 43.621 |
| 9 | 2.924 | 3.348 | 2.254 | 75 | 23.880 | 24.459 | 23.250 | 140 | 44.567 | 45.156 | 43.942 |
| 10 | 3.236 | 3.678 | 2.611 | 76 | 24.198 | 24.778 | 23.573 | 141 | 44.885 | 45.474 | 44.258 |
| 11 | 3.550 | 4.006 | 2.888 | 77 | 24.517 | 25.096 | 23.887 | 142 | 45.204 | 45.793 | 44.579 |
| 12 | 3.864 | 4.332 | 3.239 | 78 | 24.835 | 25.415 | 24.210 | 143 | 45.522 | 46.111 | 44.894 |
| 13 | 4.179 | 4.657 | 3.523 | 79 | 25.153 | 25.733 | 24.523 | 144 | 45.840 | 46.429 | 45.215 |
| 14 | 4.494 | 4.981 | 3.869 | 80 | 25.471 | 26.052 | 24.846 | 145 | 46.158 | 46.748 | 45.531 |
| 15 | 4.810 | 5.304 | 4.158 | 81 | 25.790 | 26.370 | 25.160 | 146 | 46.477 | 47.066 | 45.852 |
| 16 | 5.126 | 5.627 | 4.501 | 82 | 26.108 | 26.689 | 25.483 | 147 | 46.795 | 47.384 | 46.167 |
| 17 | 5.442 | 5.949 | 4.794 | 83 | 26.426 | 27.007 | 25.796 | 148 | 47.113 | 47.703 | 46.488 |
| 18 | 5.759 | 6.271 | 5.134 | 84 | 26.744 | 27.326 | 26.119 | 149 | 47.432 | 48.021 | 46.804 |
| 19 | 6.076 | 6.593 | 5.430 | 85 | 27.062 | 27.644 | 26.433 | 150 | 47.750 | 48.340 | 47.125 |
| 20 | 6.392 | 6.914 | 5.767 | 86 | 27.381 | 27.962 | 26.756 | 151 | 48.068 | 48.658 | 47.441 |
| 21 | 6.710 | 7.235 | 6.066 | 87 | 27.699 | 28.281 | 27.069 | 152 | 48.386 | 48.976 | 47.761 |
| 22 | 7.027 | 7.555 | 6.402 | 88 | 28.017 | 28.599 | 27.392 | 153 | 48.705 | 49.295 | 48.077 |
| 23 | 7.344 | 7.876 | 6.702 | 89 | 28.335 | 28.918 | 27.706 | 154 | 49.023 | 49.613 | 48.398 |
| 24 | 7.661 | 8.196 | 7.036 | 90 | 28.654 | 29.236 | 28.029 | 155 | 49.341 | 49.931 | 48.714 |
| 25 | 7.979 | 8.516 | 7.338 | 91 | 28.972 | 29.555 | 28.343 | 156 | 49.660 | 50.250 | 49.035 |
| 26 | 8.296 | 8.836 | 7.671 | 92 | 29.290 | 29.873 | 28.665 | 157 | 49.978 | 50.568 | 49.351 |
| 27 | 8.614 | 9.156 | 7.974 | 93 | 29.608 | 30.192 | 28.979 | 158 | 50.296 | 50.886 | 49.671 |
| 28 | 8.931 | 9.475 | 8.306 | 94 | 29.927 | 30.510 | 29.302 | 159 | 50.615 | 51.205 | 49.987 |
| 29 | 9.249 | 9.795 | 8.611 | 95 | 30.245 | 30.828 | 29.616 | 160 | 50.933 | 51.523 | 50.308 |
| 30 | 9.567 | 10.114 | 8.942 | 96 | 30.563 | 31.147 | 29.938 | 161 | 51.251 | 51.841 | 50.624 |
| 31 | 9.884 | 10.434 | 9.247 | 97 | 30.822 | 31.465 | 30.252 | 162 | 51.569 | 52.160 | 50.944 |
| 32 | 10.202 | 10.753 | 9.577 | 98 | 31.200 | 31.784 | 30.575 | 163 | 51.888 | 52.478 | 51.260 |
| 33 | 10.520 | 11.073 | 9.883 | 99 | 31.518 | 32.102 | 30.889 | 164 | 52.206 | 52.796 | 51.581 |
| 34 | 10.838 | 11.392 | 10.213 | 100 | 31.836 | 32.421 | 31.211 | 165 | 52.524 | 53.115 | 51.897 |
| 35 | 11.156 | 11.711 | 10.520 | 101 | 32.154 | 32.739 | 31.526 | 166 | 52.843 | 53.433 | 52.218 |
| 36 | 11.471 | 12.030 | 10.849 | 102 | 32.473 | 33.057 | 31.848 | 167 | 53.161 | 53.752 | 52.533 |
| 37 | 11.792 | 12.349 | 11.156 | 103 | 32.791 | 33.376 | 32.162 | 168 | 53.479 | 54.070 | 52.854 |
| 38 | 12.110 | 12.668 | 11.485 | 104 | 33.109 | 33.694 | 32.484 | 169 | 53.798 | 54.388 | 53.170 |
| 39 | 12.428 | 12.987 | 11.792 | 105 | 33.428 | 34.013 | 32.799 | 170 | 54.116 | 54.707 | 53.491 |
| 40 | 12.746 | 13.306 | 12.121 | 106 | 33.746 | 34.331 | 33.121 | 171 | 54.434 | 55.025 | 53.807 |
| 41 | 13.064 | 13.625 | 12.429 | 107 | 34.064 | 34.649 | 33.435 | 172 | 54.752 | 55.343 | 54.127 |
| 42 | 13.382 | 13.944 | 12.757 | 108 | 34.382 | 34.968 | 33.757 | 173 | 55.071 | 55.662 | 54.443 |
| 43 | 13.700 | 14.263 | 13.065 | 109 | 34.701 | 35.286 | 34.072 | 174 | 55.389 | 55.980 | 54.764 |
| 44 | 14.018 | 14.582 | 13.393 | 110 | 35.019 | 35.605 | 34.394 | 175 | 55.707 | 56.298 | 55.080 |
| 45 | 14.336 | 14.901 | 13.702 | 111 | 35.337 | 35.923 | 34.709 | 176 | 56.026 | 56.617 | 55.401 |
| 46 | 14.654 | 15.219 | 14.029 | 112 | 35.655 | 36.241 | 35.030 | 177 | 56.344 | 56.935 | 55.717 |
| 47 | 14.972 | 15.538 | 14.338 | 113 | 35.974 | 36.560 | 35.345 | 178 | 56.662 | 57.253 | 56.037 |
| 48 | 15.290 | 15.857 | 14.665 | 114 | 36.292 | 36.878 | 35.667 | 179 | 56.980 | 57.572 | 56.353 |
| 49 | 15.608 | 16.176 | 14.975 | 115 | 36.610 | 37.197 | 35.982 | 180 | 57.299 | 57.890 | 56.674 |
| 50 | 15.926 | 16.495 | 15.301 | 116 | 36.928 | 37.515 | 36.303 | 181 | 57.617 | 58.208 | 56.990 |
| 51 | 16.244 | 16.813 | 15.611 | 117 | 37.274 | 37.833 | 36.618 | 182 | 57.935 | 58.527 | 57.310 |
| 52 | 16.562 | 17.132 | 15.937 | 118 | 37.565 | 38.152 | 36.940 | 183 | 58.254 | 58.845 | 57.626 |
| 53 | 16.880 | 17.451 | 16.248 | 119 | 37.883 | 38.470 | 37.255 | 184 | 58.572 | 59.163 | 57.947 |
| 54 | 17.198 | 17.769 | 16.573 | 120 | 38.202 | 38.788 | 37.577 | 185 | 58.890 | 59.482 | 58.263 |
| 55 | 17.516 | 18.088 | 16.884 | 121 | 38.520 | 39.107 | 37.892 | 186 | 59.208 | 59.800 | 58.583 |
| 56 | 17.835 | 18.407 | 17.210 | 122 | 38.838 | 39.425 | 38.213 | 187 | 59.527 | 60.118 | 58.900 |
| 57 | 18.153 | 18.725 | 17.521 | 123 | 39.156 | 39.744 | 38.528 | 188 | 59.845 | 60.437 | 59.220 |
| 58 | 18.471 | 19.044 | 17.846 | 124 | 39.457 | 40.062 | 38.850 | 189 | 60.163 | 60.755 | 59.536 |
| 59 | 18.789 | 19.363 | 18.157 | 125 | 39.793 | 40.380 | 39.165 | 190 | 60.482 | 61.073 | 59.857 |
| 60 | 19.107 | 19.681 | 18.482 | 126 | 40.111 | 40.699 | 39.486 | 191 | 60.800 | 61.392 | 60.173 |
| 61 | 19.426 | 20.000 | 18.794 | 127 | 40.430 | 41.017 | 39.801 | 192 | 61.118 | 61.710 | 60.493 |
| 62 | 19.744 | 20.318 | 19.119 | 128 | 40.748 | 41.335 | 40.123 | 193 | 61.436 | 62.028 | 60.809 |
| 63 | 20.062 | 20.637 | 19.431 | 129 | 41.066 | 41.654 | 40.438 | 194 | 61.755 | 62.347 | 61.130 |
| 64 | 20.380 | 20.956 | 19.755 | 130 | 41.384 | 41.972 | 40.759 | 195 | 62.073 | 62.665 | 61.447 |
| 65 | 20.698 | 21.274 | 20.067 | 131 | 41.703 | 42.291 | 41.075 | 196 | 62.391 | 62.983 | 61.756 |
| 66 | 21.016 | 21.593 | 20.391 | 132 | 42.021 | 42.609 | 41.396 | 197 | 62.710 | 63.302 | 62.083 |
| 67 | 21.335 | 21.911 | 20.704 | 133 | 42.339 | 42.927 | 41.711 | 198 | 63.028 | 63.620 | 62.403 |
| 68 | 21.653 | 22.230 | 21.028 | 134 | 42.657 | 43.246 | 42.032 | 199 | 63.346 | 63.938 | 62.719 |
| 69 | 21.971 | 22.548 | 21.340 | 135 | 42.976 | 43.564 | 42.348 | 200 | 63.665 | 64.257 | 63.040 |
| 70 | 22.289 | 22.867 | 21.664 | | | | | | | | |

# Sprocket Diameter

# No. 100 1¼" Pitch

## Roller Chain Sprocket Diameters

| No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 2.126 | 2.470 | 1.273 | 71 | 28.259 | 28.981 | 27.502 | 136 | 54.118 | 54.853 | 53.368 |
| 6 | 2.500 | 2.915 | 1.750 | 72 | 28.658 | 29.380 | 27.908 | 137 | 54.515 | 55.251 | 53.762 |
| 7 | 2.881 | 3.345 | 2.059 | 73 | 29.055 | 29.778 | 28.298 | 138 | 54.914 | 55.649 | 54.164 |
| 8 | 3.266 | 3.768 | 2.516 | 74 | 29.453 | 30.176 | 28.703 | 139 | 55.311 | 56.048 | 54.558 |
| 9 | 3.655 | 4.185 | 2.849 | 75 | 29.850 | 30.574 | 29.094 | 140 | 55.709 | 56.445 | 54.959 |
| 10 | 4.045 | 4.598 | 3.295 | 76 | 30.248 | 30.973 | 29.498 | 141 | 56.106 | 56.843 | 55.353 |
| 11 | 4.438 | 5.008 | 3.639 | 77 | 30.646 | 31.370 | 29.890 | 142 | 56.505 | 57.241 | 55.755 |
| 12 | 4.830 | 5.415 | 4.080 | 78 | 31.044 | 31.769 | 30.294 | 143 | 56.903 | 57.639 | 56.149 |
| 13 | 5.224 | 5.821 | 4.435 | 79 | 31.441 | 32.166 | 30.685 | 144 | 57.300 | 58.036 | 56.550 |
| 14 | 5.618 | 6.226 | 4.868 | 80 | 31.839 | 32.565 | 31.089 | 145 | 57.698 | 58.435 | 56.945 |
| 15 | 6.013 | 6.630 | 5.229 | 81 | 32.238 | 32.963 | 31.481 | 146 | 58.096 | 58.833 | 57.346 |
| 16 | 6.408 | 7.034 | 5.658 | 82 | 32.635 | 33.361 | 31.885 | 147 | 58.494 | 59.230 | 57.741 |
| 17 | 6.803 | 7.436 | 6.024 | 83 | 33.033 | 33.759 | 32.277 | 148 | 58.891 | 59.629 | 58.141 |
| 18 | 7.199 | 7.839 | 6.449 | 84 | 33.430 | 34.158 | 32.680 | 149 | 59.290 | 60.026 | 58.536 |
| 19 | 7.595 | 8.241 | 6.819 | 85 | 33.828 | 34.555 | 33.072 | 150 | 59.688 | 60.425 | 58.938 |
| 20 | 7.990 | 8.643 | 7.240 | 86 | 34.226 | 34.953 | 33.476 | 151 | 60.085 | 60.823 | 59.332 |
| 21 | 8.388 | 9.044 | 7.613 | 87 | 34.624 | 35.351 | 33.868 | 152 | 60.483 | 61.220 | 59.733 |
| 22 | 8.784 | 9.444 | 8.034 | 88 | 35.022 | 35.749 | 34.272 | 153 | 60.881 | 61.619 | 60.128 |
| 23 | 9.180 | 9.845 | 8.409 | 89 | 35.419 | 36.148 | 34.664 | 154 | 61.279 | 62.016 | 60.529 |
| 24 | 9.576 | 10.245 | 8.827 | 90 | 35.818 | 36.545 | 35.068 | 155 | 61.676 | 62.414 | 60.924 |
| 25 | 9.974 | 10.645 | 9.204 | 91 | 36.215 | 36.944 | 35.460 | 156 | 62.075 | 62.813 | 61.325 |
| 26 | 10.370 | 11.045 | 9.620 | 92 | 36.613 | 37.341 | 35.863 | 157 | 62.473 | 63.210 | 61.719 |
| 27 | 10.768 | 11.445 | 9.999 | 93 | 37.010 | 37.740 | 36.255 | 158 | 62.870 | 63.608 | 62.120 |
| 28 | 11.164 | 11.844 | 10.414 | 94 | 37.409 | 38.138 | 36.659 | 159 | 63.269 | 64.006 | 62.515 |
| 29 | 11.561 | 12.244 | 10.794 | 95 | 37.806 | 38.535 | 37.051 | 160 | 63.666 | 64.404 | 62.916 |
| 30 | 11.959 | 12.643 | 11.209 | 96 | 38.204 | 38.934 | 37.454 | 161 | 64.064 | 64.801 | 63.311 |
| 31 | 12.355 | 13.043 | 11.590 | 97 | 38.603 | 39.331 | 37.847 | 162 | 64.461 | 65.200 | 63.711 |
| 32 | 12.753 | 13.441 | 12.003 | 98 | 39.000 | 39.730 | 38.250 | 163 | 64.860 | 65.598 | 64.107 |
| 33 | 13.150 | 13.841 | 12.385 | 99 | 39.398 | 40.128 | 38.643 | 164 | 65.258 | 65.995 | 64.508 |
| 34 | 13.548 | 14.240 | 12.798 | 100 | 39.795 | 40.526 | 39.045 | 165 | 65.655 | 66.394 | 64.902 |
| 35 | 13.945 | 14.639 | 13.181 | 101 | 40.193 | 40.924 | 39.438 | 166 | 66.054 | 66.791 | 65.304 |
| 36 | 14.343 | 15.038 | 13.593 | 102 | 40.591 | 41.321 | 39.841 | 167 | 66.451 | 67.190 | 65.698 |
| 37 | 14.740 | 15.436 | 13.976 | 103 | 40.989 | 41.720 | 40.234 | 168 | 66.849 | 67.588 | 66.099 |
| 38 | 15.138 | 15.835 | 14.388 | 104 | 41.386 | 42.118 | 40.636 | 169 | 67.248 | 67.985 | 66.494 |
| 39 | 15.535 | 16.234 | 14.772 | 105 | 41.785 | 42.516 | 41.030 | 170 | 67.645 | 68.384 | 66.895 |
| 40 | 15.933 | 16.633 | 15.183 | 106 | 42.183 | 42.914 | 41.433 | 171 | 68.043 | 68.781 | 67.290 |
| 41 | 16.330 | 17.031 | 15.567 | 107 | 42.580 | 43.311 | 41.826 | 172 | 68.440 | 69.179 | 67.690 |
| 42 | 16.728 | 17.430 | 15.978 | 108 | 42.978 | 43.710 | 42.228 | 173 | 68.839 | 69.578 | 68.086 |
| 43 | 17.125 | 17.829 | 16.363 | 109 | 43.376 | 44.108 | 42.621 | 174 | 69.236 | 69.975 | 68.486 |
| 44 | 17.523 | 18.228 | 16.773 | 110 | 43.774 | 44.506 | 43.024 | 175 | 69.634 | 70.373 | 68.881 |
| 45 | 17.920 | 18.626 | 17.159 | 111 | 44.171 | 44.904 | 43.420 | 176 | 70.033 | 70.771 | 69.283 |
| 46 | 18.318 | 19.024 | 17.568 | 112 | 44.569 | 45.301 | 43.819 | 177 | 70.430 | 71.169 | 69.677 |
| 47 | 18.715 | 19.423 | 17.954 | 113 | 44.968 | 45.700 | 44.213 | 178 | 70.828 | 71.566 | 70.078 |
| 48 | 19.113 | 19.821 | 18.363 | 114 | 45.365 | 46.098 | 44.615 | 179 | 71.225 | 71.965 | 70.473 |
| 49 | 19.510 | 20.220 | 18.750 | 115 | 45.763 | 46.496 | 45.009 | 180 | 71.624 | 72.363 | 70.874 |
| 50 | 19.908 | 20.619 | 19.158 | 116 | 46.160 | 46.894 | 45.410 | 181 | 72.021 | 72.760 | 71.269 |
| 51 | 20.305 | 21.016 | 19.546 | 117 | 46.559 | 47.291 | 45.804 | 182 | 72.419 | 73.159 | 71.669 |
| 52 | 20.703 | 21.415 | 19.953 | 118 | 46.956 | 47.690 | 46.206 | 183 | 72.818 | 73.556 | 72.064 |
| 53 | 21.100 | 21.814 | 20.341 | 119 | 47.354 | 48.088 | 46.600 | 184 | 73.215 | 73.954 | 72.465 |
| 54 | 21.498 | 22.211 | 20.748 | 120 | 47.753 | 48.485 | 47.003 | 185 | 73.613 | 74.353 | 72.860 |
| 55 | 21.895 | 22.610 | 21.137 | 121 | 48.150 | 48.884 | 47.396 | 186 | 74.010 | 74.750 | 73.260 |
| 56 | 22.294 | 23.009 | 21.544 | 122 | 48.548 | 49.281 | 47.798 | 187 | 74.409 | 75.148 | 73.656 |
| 57 | 22.691 | 23.406 | 21.932 | 123 | 48.945 | 49.680 | 48.192 | 188 | 74.806 | 75.546 | 74.056 |
| 58 | 23.089 | 23.805 | 22.339 | 124 | 49.344 | 50.078 | 48.594 | 189 | 75.204 | 75.944 | 74.452 |
| 59 | 23.486 | 24.204 | 22.728 | 125 | 49.741 | 50.475 | 48.987 | 190 | 75.603 | 76.341 | 74.853 |
| 60 | 23.884 | 24.601 | 23.134 | 126 | 50.139 | 50.874 | 49.389 | 191 | 76.000 | 76.740 | 75.247 |
| 61 | 24.283 | 25.000 | 23.524 | 127 | 50.538 | 51.271 | 49.783 | 192 | 76.398 | 771.38 | 75.648 |
| 62 | 24.680 | 25.398 | 23.930 | 128 | 50.935 | 51.669 | 50.185 | 193 | 76.795 | 77.535 | 76.043 |
| 63 | 25.078 | 25.796 | 24.320 | 129 | 51.333 | 52.068 | 50.579 | 194 | 77.194 | 77.934 | 76.444 |
| 64 | 25.475 | 26.195 | 24.725 | 130 | 51.730 | 52.465 | 50.980 | 195 | 77.591 | 78.331 | 76.839 |
| 65 | 25.873 | 26.593 | 25.115 | 131 | 52.129 | 52.864 | 51.375 | 196 | 77.989 | 78.729 | 77.239 |
| 66 | 26.270 | 26.991 | 25.520 | 132 | 52.526 | 53.261 | 51.776 | 197 | 78.388 | 79.128 | 77.635 |
| 67 | 26.669 | 27.389 | 25.911 | 133 | 52.924 | 53.659 | 52.170 | 198 | 78.785 | 79.525 | 78.035 |
| 68 | 27.066 | 27.788 | 26.316 | 134 | 53.321 | 54.058 | 52.571 | 199 | 79.183 | 79.923 | 78.430 |
| 69 | 27.464 | 28.185 | 26.707 | 135 | 53.720 | 54.455 | 52.966 | 200 | 79.581 | 80.321 | 78.831 |
| 70 | 27.861 | 28.584 | 27.111 | | | | | | | | |

# No. 120
# 1½" Pitch

# Sprocket Diameter

Martin

## Roller Chain Sprocket Diameters

| No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 2.552 | 2.964 | 1.552 | 71 | 33.911 | 34.778 | 33.028 | 136 | 64.941 | 65.823 | 64.066 |
| 6 | 3.000 | 3.498 | 2.125 | 72 | 34.389 | 35.256 | 33.514 | 137 | 65.418 | 66.302 | 64.539 |
| 7 | 3.458 | 4.014 | 2.496 | 73 | 34.866 | 35.733 | 33.983 | 138 | 65.897 | 66.779 | 65.022 |
| 8 | 3.920 | 4.521 | 3.045 | 74 | 35.343 | 36.212 | 34.468 | 139 | 66.374 | 67.257 | 65.494 |
| 9 | 4.386 | 5.022 | 3.444 | 75 | 35.820 | 36.689 | 34.938 | 140 | 66.851 | 67.734 | 65.976 |
| 10 | 4.854 | 5.517 | 3.979 | 76 | 36.297 | 37.167 | 35.422 | 141 | 67.328 | 68.211 | 66.449 |
| 11 | 5.325 | 6.009 | 4.392 | 77 | 36.776 | 37.644 | 35.892 | 142 | 67.806 | 68.690 | 66.931 |
| 12 | 5.796 | 6.498 | 4.921 | 78 | 37.253 | 38.123 | 36.378 | 143 | 68.283 | 69.167 | 67.404 |
| 13 | 6.269 | 6.986 | 5.347 | 79 | 37.730 | 38.600 | 36.847 | 144 | 68.760 | 69.644 | 67.885 |
| 14 | 6.741 | 7.472 | 5.866 | 80 | 38.207 | 39.078 | 37.332 | 145 | 69.237 | 70.122 | 68.359 |
| 15 | 7.215 | 7.956 | 6.300 | 81 | 38.685 | 39.555 | 37.802 | 146 | 69.716 | 70.599 | 68.841 |
| 16 | 7.689 | 8.441 | 6.814 | 82 | 39.162 | 40.034 | 38.287 | 147 | 70.193 | 71.076 | 69.314 |
| 17 | 8.163 | 8.924 | 7.254 | 83 | 39.639 | 40.511 | 38.757 | 148 | 70.670 | 71.555 | 69.795 |
| 18 | 8.639 | 9.407 | 7.764 | 84 | 40.116 | 40.989 | 39.241 | 149 | 71.148 | 72.032 | 70.269 |
| 19 | 9.114 | 9.890 | 8.207 | 85 | 40.593 | 41.466 | 39.712 | 150 | 71.625 | 72.510 | 70.750 |
| 20 | 9.588 | 10.371 | 8.713 | 86 | 41.072 | 41.943 | 40.197 | 151 | 72.102 | 72.987 | 71.224 |
| 21 | 10.065 | 10.853 | 9.161 | 87 | 41.549 | 42.422 | 40.667 | 152 | 72.579 | 73.464 | 71.704 |
| 22 | 10.541 | 11.333 | 9.666 | 88 | 42.026 | 42.899 | 41.151 | 153 | 73.058 | 73.943 | 72.178 |
| 23 | 11.016 | 11.814 | 10.115 | 89 | 42.503 | 43.377 | 41.622 | 154 | 73.535 | 74.420 | 72.660 |
| 24 | 11.492 | 12.294 | 10.617 | 90 | 42.981 | 43.854 | 42.106 | 155 | 74.012 | 74.897 | 73.133 |
| 25 | 11.969 | 12.774 | 11.070 | 91 | 43.458 | 44.333 | 42.576 | 156 | 74.490 | 75.375 | 73.615 |
| 26 | 12.444 | 13.254 | 11.569 | 92 | 43.935 | 44.810 | 43.060 | 157 | 74.967 | 75.852 | 74.088 |
| 27 | 12.921 | 13.734 | 12.024 | 93 | 44.412 | 45.288 | 43.531 | 158 | 75.444 | 76.329 | 74.569 |
| 28 | 13.397 | 14.213 | 12.522 | 94 | 44.891 | 45.765 | 44.016 | 159 | 75.923 | 76.808 | 75.043 |
| 29 | 13.874 | 14.693 | 12.978 | 95 | 45.368 | 46.242 | 44.48 | 160 | 76.400 | 77.285 | 75.525 |
| 30 | 14.351 | 15.171 | 13.476 | 96 | 45.845 | 46.721 | 44.970 | 161 | 76.877 | 77.762 | 75.998 |
| 31 | 14.826 | 15.651 | 13.933 | 97 | 46.323 | 47.198 | 45.441 | 162 | 77.354 | 78.240 | 76.479 |
| 32 | 15.303 | 16.130 | 14.428 | 98 | 46.800 | 47.676 | 45.925 | 163 | 77.832 | 78.717 | 76.953 |
| 33 | 15.780 | 16.610 | 14.887 | 99 | 47.277 | 48.153 | 46.396 | 164 | 78.309 | 79.194 | 77.434 |
| 34 | 16.257 | 17.088 | 15.382 | 100 | 47.754 | 48.632 | 46.879 | 165 | 78.786 | 79.673 | 77.908 |
| 35 | 16.734 | 17.567 | 15.842 | 101 | 48.231 | 49.109 | 47.351 | 166 | 79.265 | 80.150 | 78.390 |
| 36 | 17.211 | 18.045 | 16.336 | 102 | 48.710 | 49.586 | 47.835 | 167 | 79.742 | 80.628 | 78.863 |
| 37 | 17.688 | 18.524 | 16.797 | 103 | 49.187 | 50.064 | 48.306 | 168 | 80.219 | 81.105 | 79.344 |
| 38 | 18.165 | 19.002 | 17.290 | 104 | 49.664 | 50.541 | 48.789 | 169 | 80.697 | 81.582 | 79.818 |
| 39 | 18.642 | 19.481 | 17.751 | 105 | 50.142 | 51.020 | 49.261 | 170 | 81.174 | 82.061 | 80.299 |
| 40 | 19.119 | 19.959 | 18.244 | 106 | 50.619 | 51.497 | 49.744 | 171 | 81.651 | 82.538 | 80.773 |
| 41 | 19.596 | 20.438 | 18.706 | 107 | 51.096 | 51.974 | 50.216 | 172 | 82.128 | 83.015 | 81.253 |
| 42 | 20.073 | 20.916 | 19.198 | 108 | 51.573 | 52.452 | 50.698 | 173 | 82.607 | 83.493 | 81.728 |
| 43 | 20.550 | 21.395 | 19.661 | 109 | 52.052 | 52.929 | 51.171 | 174 | 83.084 | 83.970 | 82.209 |
| 44 | 21.027 | 21.873 | 20.152 | 110 | 52.529 | 53.408 | 51.654 | 175 | 83.561 | 84.447 | 82.683 |
| 45 | 21.504 | 22.352 | 20.615 | 111 | 53.006 | 53.885 | 52.125 | 176 | 84.039 | 84.926 | 83.164 |
| 46 | 21.981 | 22.829 | 21.106 | 112 | 53.483 | 54.362 | 52.608 | 177 | 84.501 | 85.403 | 83.637 |
| 47 | 22.458 | 23.307 | 21.570 | 113 | 53.961 | 54.840 | 53.080 | 178 | 84.993 | 85.880 | 84.118 |
| 48 | 22.935 | 23.786 | 22.060 | 114 | 54.438 | 55.317 | 53.563 | 179 | 85.470 | 86.358 | 84.592 |
| 49 | 23.412 | 24.264 | 22.525 | 115 | 54.915 | 55.796 | 54.035 | 180 | 85.949 | 86.835 | 85.074 |
| 50 | 23.889 | 24.743 | 23.014 | 116 | 55.392 | 56.273 | 54.517 | 181 | 86.426 | 87.312 | 85.547 |
| 51 | 24.366 | 25.220 | 23.480 | 117 | 55.871 | 56.750 | 54.990 | 182 | 86.903 | 87.791 | 86.028 |
| 52 | 24.843 | 25.698 | 23.968 | 118 | 56.348 | 57.228 | 55.473 | 183 | 87.381 | 88.268 | 86.502 |
| 53 | 25.320 | 26.177 | 24.434 | 119 | 56.825 | 57.705 | 55.945 | 184 | 87.858 | 88.745 | 86.983 |
| 54 | 25.797 | 26.654 | 24.922 | 120 | 57.303 | 58.182 | 56.428 | 185 | 88.335 | 89.223 | 87.457 |
| 55 | 26.274 | 27.132 | 25.389 | 121 | 57.780 | 58.661 | 56.900 | 186 | 88.812 | 89.700 | 87.937 |
| 56 | 26.753 | 27.611 | 25.878 | 122 | 58.257 | 59.138 | 57.382 | 187 | 89.291 | 90.177 | 88.412 |
| 57 | 27.230 | 28.088 | 26.344 | 123 | 58.734 | 59.616 | 57.855 | 188 | 89.768 | 90.656 | 88.893 |
| 58 | 27.707 | 28.566 | 26.832 | 124 | 59.213 | 60.093 | 58.338 | 189 | 90.245 | 91.133 | 89.367 |
| 59 | 28.184 | 29.045 | 27.299 | 125 | 59.690 | 60.570 | 58.810 | 190 | 90.723 | 91.610 | 89.848 |
| 60 | 28.661 | 29.522 | 27.786 | 126 | 60.167 | 61.049 | 59.292 | 191 | 91.200 | 92.088 | 90.322 |
| 61 | 29.139 | 30.000 | 28.254 | 127 | 60.645 | 61.526 | 59.765 | 192 | 91.677 | 92.565 | 90.802 |
| 62 | 29.616 | 30.477 | 28.741 | 128 | 61.122 | 62.003 | 60.247 | 193 | 92.154 | 93.042 | 91.277 |
| 63 | 30.093 | 30.956 | 29.208 | 129 | 61.599 | 62.481 | 60.720 | 194 | 92.633 | 93.521 | 91.758 |
| 64 | 30.570 | 31.434 | 29.695 | 130 | 62.076 | 62.958 | 61.201 | 195 | 93.110 | 93.998 | 92.232 |
| 65 | 31.047 | 31.911 | 30.163 | 131 | 62.555 | 63.437 | 61.674 | 196 | 93.587 | 94.475 | 92.712 |
| 66 | 31.524 | 32.390 | 30.649 | 132 | 63.032 | 63.914 | 62.157 | 197 | 94.065 | 94.953 | 93.187 |
| 67 | 32.003 | 32.867 | 31.118 | 133 | 63.509 | 64.391 | 62.629 | 198 | 94.542 | 95.430 | 93.667 |
| 68 | 32.480 | 33.345 | 31.605 | 134 | 63.986 | 64.869 | 63.111 | 199 | 95.019 | 95.907 | 94.141 |
| 69 | 32.957 | 33.822 | 32.073 | 135 | 64.464 | 65.346 | 63.584 | 200 | 95.498 | 96.386 | 94.623 |
| 70 | 33.434 | 34.301 | 32.559 | | | | | | | | |

# Sprocket Diameter

# No. 140
## 1¾" Pitch

## Roller Chain Sprocket Diameters

| No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 2.977 | 3.458 | 1.832 | 71 | 39.562 | 40.574 | 38.553 | 136 | 75.765 | 76.794 | 74.765 |
| 6 | 3.500 | 4.081 | 2.500 | 72 | 40.121 | 41.132 | 39.121 | 137 | 76.321 | 77.352 | 75.316 |
| 7 | 4.034 | 4.683 | 2.932 | 73 | 40.677 | 41.689 | 39.667 | 138 | 76.879 | 77.908 | 75.879 |
| 8 | 4.573 | 5.275 | 3.573 | 74 | 41.234 | 42.247 | 40.234 | 139 | 77.436 | 78.467 | 76.431 |
| 9 | 5.117 | 5.859 | 4.039 | 75 | 41.790 | 42.803 | 40.781 | 140 | 78.008 | 79.023 | 77.008 |
| 10 | 5.663 | 6.437 | 4.663 | 76 | 42.347 | 43.362 | 41.347 | 141 | 78.549 | 79.580 | 77.545 |
| 11 | 6.213 | 7.011 | 5.148 | 77 | 42.905 | 43.918 | 41.895 | 142 | 79.107 | 80.138 | 78.107 |
| 12 | 6.762 | 7.581 | 5.762 | 78 | 43.461 | 44.476 | 42.461 | 143 | 79.664 | 80.694 | 78.484 |
| 13 | 7.313 | 8.150 | 6.259 | 79 | 44.018 | 45.033 | 43.009 | 144 | 80.220 | 81.251 | 79.220 |
| 14 | 7.865 | 8.717 | 6.865 | 80 | 44.574 | 45.591 | 43.574 | 145 | 80.777 | 81.809 | 79.773 |
| 15 | 8.418 | 9.282 | 7.371 | 81 | 45.133 | 46.148 | 44.123 | 146 | 81.335 | 82.366 | 80.335 |
| 16 | 8.971 | 9.847 | 7.971 | 82 | 45.689 | 46.706 | 44.689 | 147 | 81.891 | 82.922 | 80.887 |
| 17 | 9.524 | 10.411 | 8.483 | 83 | 46.246 | 47.262 | 45.237 | 148 | 82.448 | 83.480 | 81.448 |
| 18 | 10.078 | 10.974 | 9.078 | 84 | 46.802 | 47.821 | 45.802 | 149 | 83.006 | 84.037 | 82.000 |
| 19 | 10.633 | 11.538 | 9.596 | 85 | 47.359 | 48.377 | 46.351 | 150 | 83.563 | 84.595 | 82.563 |
| 20 | 11.186 | 12.100 | 10.186 | 86 | 47.917 | 48.934 | 46.917 | 151 | 84.119 | 85.152 | 83.115 |
| 21 | 11.743 | 12.661 | 10.709 | 87 | 48.473 | 49.492 | 47.465 | 152 | 84.676 | 85.708 | 83.676 |
| 22 | 12.297 | 13.221 | 11.297 | 88 | 49.030 | 50.048 | 48.030 | 153 | 85.234 | 86.266 | 84.229 |
| 23 | 12.852 | 13.783 | 11.822 | 89 | 49.586 | 50.607 | 48.579 | 154 | 85.790 | 86.823 | 84.790 |
| 24 | 13.407 | 14.343 | 12.407 | 90 | 50.145 | 51.163 | 49.145 | 155 | 86.347 | 87.379 | 85.343 |
| 25 | 13.963 | 14.903 | 12.935 | 91 | 50.701 | 51.721 | 49.693 | 156 | 86.905 | 87.938 | 85.905 |
| 26 | 14.518 | 15.463 | 13.518 | 92 | 51.258 | 52.278 | 50.258 | 157 | 87.462 | 88.494 | 86.457 |
| 27 | 15.075 | 16.023 | 14.049 | 93 | 51.814 | 52.836 | 50.807 | 158 | 88.018 | 89.051 | 87.018 |
| 28 | 15.629 | 16.581 | 14.629 | 94 | 52.372 | 53.393 | 51.372 | 159 | 88.576 | 89.609 | 87.571 |
| 29 | 16.186 | 17.141 | 15.162 | 95 | 52.929 | 53.949 | 51.921 | 160 | 89.133 | 90.165 | 88.133 |
| 30 | 16.742 | 17.700 | 15.742 | 96 | 53.485 | 54.507 | 52.485 | 161 | 89.689 | 90.722 | 88.685 |
| 31 | 17.297 | 18.260 | 16.276 | 97 | 54.044 | 55.064 | 53.035 | 162 | 90.246 | 91.280 | 89.246 |
| 32 | 17.854 | 18.818 | 16.854 | 98 | 54.600 | 55.622 | 53.600 | 163 | 90.804 | 91.837 | 89.799 |
| 33 | 18.410 | 19.378 | 17.389 | 99 | 55.157 | 56.179 | 54.150 | 164 | 91.361 | 92.393 | 90.361 |
| 34 | 18.967 | 19.936 | 17.967 | 100 | 55.713 | 56.737 | 54.713 | 165 | 91.917 | 92.951 | 90.913 |
| 35 | 19.523 | 20.494 | 18.503 | 101 | 56.270 | 57.293 | 55.264 | 166 | 92.475 | 93.508 | 91.475 |
| 36 | 20.080 | 21.053 | 19.080 | 102 | 56.828 | 57.850 | 55.828 | 167 | 93.032 | 94.066 | 92.027 |
| 37 | 20.636 | 21.611 | 19.617 | 103 | 57.384 | 58.408 | 56.378 | 168 | 93.588 | 94.623 | 92.588 |
| 38 | 21.193 | 22.169 | 20.193 | 104 | 57.941 | 58.965 | 56.941 | 169 | 94.147 | 95.179 | 93.141 |
| 39 | 21.749 | 22.727 | 20.730 | 105 | 58.499 | 59.523 | 57.492 | 170 | 94.703 | 95.737 | 93.703 |
| 40 | 22.306 | 23.286 | 21.306 | 106 | 59.056 | 60.079 | 58.056 | 171 | 95.260 | 96.294 | 94.255 |
| 41 | 22.862 | 23.844 | 21.844 | 107 | 59.612 | 60.636 | 58.606 | 172 | 95.816 | 96.850 | 94.816 |
| 42 | 23.419 | 24.402 | 22.419 | 108 | 60.169 | 61.194 | 59.169 | 173 | 96.374 | 97.409 | 95.370 |
| 43 | 23.975 | 24.960 | 22.958 | 109 | 60.727 | 61.751 | 59.720 | 174 | 96.931 | 97.965 | 95.931 |
| 44 | 24.532 | 25.519 | 23.532 | 110 | 61.283 | 62.309 | 60.283 | 175 | 97.487 | 98.522 | 96.484 |
| 45 | 25.088 | 26.077 | 24.072 | 111 | 61.840 | 62.865 | 60.834 | 176 | 98.046 | 99.080 | 97.046 |
| 46 | 25.645 | 26.633 | 24.645 | 112 | 62.396 | 63.422 | 61.396 | 177 | 98.602 | 99.636 | 97.598 |
| 47 | 26.201 | 27.192 | 25.186 | 113 | 62.955 | 63.980 | 61.948 | 178 | 99.159 | 100.193 | 98.159 |
| 48 | 26.758 | 27.750 | 25.758 | 114 | 63.511 | 64.537 | 62.511 | 179 | 99.715 | 100.751 | 98.712 |
| 49 | 27.314 | 28.308 | 26.300 | 115 | 64.068 | 65.095 | 63.062 | 180 | 100.273 | 101.308 | 99.273 |
| 50 | 27.871 | 28.866 | 26.871 | 116 | 64.624 | 65.651 | 63.624 | 181 | 100.830 | 101.864 | 99.826 |
| 51 | 28.427 | 29.423 | 27.414 | 117 | 65.182 | 66.208 | 64.176 | 182 | 101.386 | 102.422 | 100.386 |
| 52 | 28.984 | 29.981 | 27.984 | 118 | 65.739 | 66.766 | 64.739 | 183 | 101.945 | 102.979 | 100.940 |
| 53 | 29.540 | 30.539 | 28.528 | 119 | 66.295 | 67.323 | 65.290 | 184 | 102.501 | 103.535 | 101.501 |
| 54 | 30.097 | 31.096 | 29.097 | 120 | 66.854 | 67.879 | 65.854 | 185 | 103.058 | 104.094 | 102.054 |
| 55 | 30.653 | 31.654 | 29.641 | 121 | 67.410 | 68.437 | 66.404 | 186 | 103.614 | 104.650 | 102.614 |
| 56 | 31.211 | 32.212 | 30.211 | 122 | 67.967 | 68.994 | 66.967 | 187 | 104.172 | 105.207 | 103.168 |
| 57 | 31.768 | 32.769 | 30.755 | 123 | 68.523 | 69.552 | 67.518 | 188 | 104.729 | 105.765 | 103.729 |
| 58 | 32.324 | 33.327 | 31.324 | 124 | 69.081 | 70.109 | 68.081 | 189 | 105.285 | 106.321 | 104.282 |
| 59 | 32.881 | 33.885 | 31.869 | 125 | 69.638 | 70.665 | 68.632 | 190 | 105.844 | 106.878 | 104.844 |
| 60 | 33.437 | 34.442 | 32.437 | 126 | 70.194 | 71.223 | 69.194 | 191 | 106.400 | 107.436 | 105.396 |
| 61 | 33.996 | 35.000 | 32.983 | 127 | 70.753 | 71.780 | 69.746 | 192 | 106.957 | 107.993 | 105.957 |
| 62 | 34.552 | 35.557 | 33.552 | 128 | 71.309 | 72.336 | 70.309 | 193 | 107.513 | 108.549 | 106.510 |
| 63 | 35.109 | 36.115 | 34.097 | 129 | 71.866 | 72.895 | 70.860 | 194 | 108.071 | 109.107 | 107.071 |
| 64 | 35.665 | 36.673 | 34.665 | 130 | 72.422 | 73.451 | 71.422 | 195 | 108.628 | 109.664 | 107.624 |
| 65 | 36.222 | 37.230 | 35.211 | 131 | 72.980 | 74.009 | 71.974 | 196 | 109.184 | 110.220 | 108.184 |
| 66 | 36.778 | 37.788 | 35.778 | 132 | 73.537 | 74.566 | 72.537 | 197 | 109.743 | 110.779 | 108.738 |
| 67 | 37.336 | 38.344 | 36.325 | 133 | 74.093 | 75.122 | 73.088 | 198 | 110.299 | 111.335 | 109.299 |
| 68 | 37.893 | 38.903 | 36.893 | 134 | 74.650 | 75.681 | 73.650 | 199 | 110.856 | 111.892 | 109.853 |
| 69 | 38.449 | 39.459 | 37.439 | 135 | 75.208 | 76.237 | 74.202 | 200 | 111.414 | 112.450 | 110.414 |
| 70 | 39.006 | 40.017 | 38.006 | | | | | | | | |

# No. 160
## 2" Pitch

# Sprocket Diameter

Martin

## Roller Chain Sprocket Diameters

| No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 3.402 | 3.952 | 2.111 | 71 | 45.214 | 46.370 | 44.079 | 136 | 86.588 | 87.764 | 85.463 |
| 6 | 4.000 | 4.664 | 2.875 | 72 | 45.852 | 47.008 | 44.727 | 137 | 87.224 | 88.402 | 86.094 |
| 7 | 4..610 | 5.352 | 3.369 | 73 | 46.488 | 47.644 | 45.352 | 138 | 87.862 | 89.038 | 86.737 |
| 8 | 5.226 | 6.028 | 4.101 | 74 | 47.124 | 48.282 | 45.999 | 139 | 88.498 | 89.676 | 87.367 |
| 9 | 5.848 | 6.696 | 4.635 | 75 | 47.760 | 48.918 | 46.625 | 140 | 89.134 | 90.312 | 88.009 |
| 10 | 6.472 | 7.356 | 5.347 | 76 | 48.396 | 49.556 | 47.271 | 141 | 89.770 | 90.948 | 88.640 |
| 11 | 7.100 | 8.012 | 5.902 | 77 | 49.034 | 50.192 | 47.898 | 142 | 90.408 | 91.586 | 89.283 |
| 12 | 7.728 | 8.664 | 6.603 | 78 | 49.670 | 50.830 | 48.545 | 143 | 91.044 | 92.222 | 89.913 |
| 13 | 8.358 | 9.314 | 7.171 | 79 | 50.306 | 51.466 | 49.171 | 144 | 91.680 | 92.858 | 90.555 |
| 14 | 8.988 | 9.962 | 7.863 | 80 | 50.942 | 52.104 | 49.817 | 145 | 92.316 | 93.496 | 91.187 |
| 15 | 9.620 | 10.608 | 8.442 | 81 | 51.580 | 52.740 | 50.444 | 146 | 92.945 | 94.132 | 91.829 |
| 16 | 10.252 | 11.254 | 9.127 | 82 | 52.216 | 53.378 | 51.091 | 147 | 93.590 | 94.768 | 92.460 |
| 17 | 10.844 | 11.898 | 9.713 | 83 | 52.852 | 54.014 | 51.718 | 148 | 94.226 | 95.406 | 93.101 |
| 18 | 11.518 | 12.542 | 10.393 | 84 | 53.488 | 54.652 | 52.363 | 149 | 94.864 | 96.042 | 93.733 |
| 19 | 12.152 | 13.186 | 10.985 | 85 | 54.124 | 55.288 | 52.991 | 150 | 95.500 | 96.680 | 94.375 |
| 20 | 12.784 | 13.828 | 11.659 | 86 | 54.762 | 55.924 | 53.637 | 151 | 96.136 | 97.316 | 95.006 |
| 21 | 13.420 | 14.470 | 12.256 | 87 | 55.398 | 56.562 | 54.264 | 152 | 96.772 | 97.952 | 95.647 |
| 22 | 14.054 | 15.110 | 12.929 | 88 | 56.034 | 57.198 | 54.909 | 153 | 97.410 | 98.590 | 96.280 |
| 23 | 14.688 | 15.752 | 13.529 | 89 | 56.670 | 57.836 | 55.537 | 154 | 98.046 | 99.226 | 96.921 |
| 24 | 15.322 | 16.392 | 14.197 | 90 | 57.308 | 58.472 | 56.183 | 155 | 98.682 | 99.862 | 97.553 |
| 25 | 15.958 | 17.032 | 14.801 | 91 | 57.944 | 59.110 | 56.810 | 156 | 99.320 | 100.500 | 98.195 |
| 26 | 16.592 | 17.672 | 15.467 | 92 | 58.580 | 59.746 | 57.455 | 157 | 99.956 | 101.136 | 98.826 |
| 27 | 17.228 | 18.312 | 16.073 | 93 | 59.216 | 60.384 | 58.083 | 158 | 100.592 | 101.772 | 99.467 |
| 28 | 17.862 | 18.950 | 16.737 | 94 | 59.854 | 61.020 | 58.729 | 159 | 101.230 | 102.410 | 100.099 |
| 29 | 18.498 | 19.590 | 17.346 | 95 | 60.490 | 61.656 | 59.357 | 160 | 101.866 | 103.046 | 100.741 |
| 30 | 19.134 | 20.228 | 18.009 | 96 | 61.126 | 62.294 | 60.001 | 161 | 102.502 | 103.682 | 101.372 |
| 31 | 19.768 | 20.868 | 18.619 | 97 | 61.764 | 62.930 | 60.630 | 162 | 103.138 | 104.320 | 102.013 |
| 32 | 20.404 | 21.506 | 19.279 | 98 | 62.400 | 63.568 | 61.275 | 163 | 103.776 | 104.956 | 102.646 |
| 33 | 21.040 | 22.146 | 19.891 | 99 | 63.036 | 64.204 | 61.903 | 164 | 104.412 | 105.592 | 103.287 |
| 34 | 21.676 | 22.784 | 20.551 | 100 | 63.672 | 64.842 | 62.547 | 165 | 105.048 | 106.230 | 103.919 |
| 35 | 22.312 | 23.422 | 21.164 | 101 | 64.308 | 65.478 | 63.176 | 166 | 105.686 | 106.866 | 104.561 |
| 36 | 22.948 | 24.060 | 21.823 | 102 | 64.946 | 66.114 | 63.821 | 167 | 106.322 | 107.504 | 105.192 |
| 37 | 23.584 | 24.698 | 22.437 | 103 | 65.582 | 66.752 | 64.449 | 168 | 106.958 | 108.140 | 105.833 |
| 38 | 24.220 | 25.336 | 23.095 | 104 | 66.218 | 67.388 | 65.093 | 169 | 107.596 | 108.776 | 106.465 |
| 39 | 24.856 | 25.974 | 23.710 | 105 | 66.856 | 68.026 | 65.723 | 170 | 108.232 | 109.414 | 107.107 |
| 40 | 25.492 | 26.612 | 24.367 | 106 | 67.492 | 68.662 | 66.367 | 171 | 108.868 | 110.050 | 107.738 |
| 41 | 26.128 | 27.250 | 24.983 | 107 | 68.128 | 69.298 | 66.996 | 172 | 109.504 | 110.686 | 108.379 |
| 42 | 26.764 | 27.888 | 25.639 | 108 | 68.764 | 69.936 | 67.639 | 173 | 110.142 | 111.324 | 109.012 |
| 43 | 27.400 | 28.526 | 26.256 | 109 | 69.402 | 70.572 | 68.269 | 174 | 110.778 | 111.960 | 109.653 |
| 44 | 28.036 | 29.164 | 26.911 | 110 | 70.038 | 70.210 | 68.913 | 175 | 111.414 | 112.596 | 110.285 |
| 45 | 28.672 | 29.802 | 27.529 | 111 | 70.674 | 71.846 | 69.542 | 176 | 112.052 | 113.234 | 110.927 |
| 46 | 29.308 | 30.438 | 28.183 | 112 | 71.310 | 72.482 | 70.185 | 177 | 112.688 | 113.870 | 111.558 |
| 47 | 29.944 | 31.076 | 28.802 | 113 | 71.948 | 73.120 | 70.815 | 178 | 113.324 | 114.506 | 112.199 |
| 48 | 30.580 | 31.714 | 29.455 | 114 | 72.584 | 73.756 | 71.459 | 179 | 113.960 | 115.144 | 112.831 |
| 49 | 31.216 | 32.352 | 30.075 | 115 | 73.220 | 74.394 | 72.089 | 180 | 114.598 | 115.780 | 113.473 |
| 50 | 31.852 | 32.990 | 30.727 | 116 | 73.856 | 75.030 | 72.731 | 181 | 115.234 | 116.416 | 114.105 |
| 51 | 32.488 | 33.626 | 31.348 | 117 | 74.494 | 75.666 | 73.362 | 182 | 115.870 | 117.054 | 114.745 |
| 52 | 33.124 | 34.264 | 31.999 | 118 | 75.130 | 76.304 | 74.005 | 183 | 116.508 | 117.690 | 115.388 |
| 53 | 33.760 | 34.902 | 32.621 | 119 | 75.766 | 76.940 | 74.645 | 184 | 117.114 | 118.326 | 116.019 |
| 54 | 34.396 | 35.538 | 33.271 | 120 | 76.404 | 77.576 | 75.279 | 185 | 117.780 | 118.964 | 116.651 |
| 55 | 35.032 | 36.176 | 33.894 | 121 | 77.040 | 78.214 | 75.908 | 186 | 118.416 | 119.600 | 117.291 |
| 56 | 35.670 | 36.814 | 34.545 | 122 | 77.676 | 78.850 | 76.551 | 187 | 119.054 | 120.236 | 117.924 |
| 57 | 36.306 | 37.450 | 35.167 | 123 | 78.312 | 79.488 | 77.181 | 188 | 119.690 | 120.874 | 118.565 |
| 58 | 36.942 | 38.088 | 35.817 | 124 | 78.950 | 80.124 | 77.825 | 189 | 120.326 | 121.150 | 119.197 |
| 59 | 37.578 | 38.726 | 36.440 | 125 | 79.586 | 80.760 | 78.455 | 190 | 120.964 | 122.146 | 119.839 |
| 60 | 38.214 | 39.362 | 37.089 | 126 | 80.222 | 81.398 | 79.097 | 191 | 121.600 | 122.784 | 120.471 |
| 61 | 38.852 | 40.000 | 37.713 | 127 | 80.860 | 82.034 | 79.728 | 192 | 122.236 | 123.420 | 121.111 |
| 62 | 39.488 | 40.636 | 38.363 | 128 | 81.496 | 82.670 | 80.371 | 193 | 122.872 | 124.056 | 121.744 |
| 63 | 40.124 | 41.274 | 38.986 | 129 | 82.132 | 83.308 | 81.001 | 194 | 123.510 | 124.694 | 122.385 |
| 64 | 40.760 | 41.912 | 39.635 | 130 | 82.768 | 83.944 | 81.643 | 195 | 124.146 | 125.330 | 123.017 |
| 65 | 41.396 | 42.548 | 40.259 | 131 | 83.406 | 84.582 | 82.274 | 196 | 124.781 | 125.966 | 123.656 |
| 66 | 42.032 | 43.186 | 40.907 | 132 | 84.042 | 85.218 | 82.917 | 197 | 125.420 | 126.604 | 124.290 |
| 67 | 42.670 | 43.822 | 41.532 | 133 | 84.678 | 85.854 | 83.547 | 198 | 126.056 | 127.240 | 124.931 |
| 68 | 43.306 | 44.460 | 42.181 | 134 | 85.314 | 86.492 | 84.189 | 199 | 126.692 | 127.876 | 125.564 |
| 69 | 43.942 | 45.096 | 42.806 | 135 | 85.952 | 87.128 | 84.820 | 200 | 127.330 | 128.514 | 126.205 |
| 70 | 44.578 | 45.734 | 43.453 | | | | | | | | |

# Sprocket Diameter

# No. 180 2¼" Pitch

## Roller Chain Sprocket Diameters

| No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 3.828 | 4.446 | 2.234 | 71 | 50.866 | 52.166 | 49.448 | 136 | 97.412 | 98.735 | 96.006 |
| 6 | 4.500 | 5.247 | 3.094 | 72 | 51.583 | 52.884 | 50.177 | 137 | 98.128 | 99.452 | 96.715 |
| 7 | 5.186 | 6.021 | 3.650 | 73 | 52.299 | 53.600 | 50.880 | 138 | 98.844 | 100.106 | 97.438 |
| 8 | 5.879 | 6.782 | 4.473 | 74 | 53.015 | 54.317 | 51.609 | 139 | 99.560 | 100.886 | 98.148 |
| 9 | 6.579 | 7.533 | 5.073 | 75 | 53.730 | 55.033 | 52.313 | 140 | 100.276 | 101.601 | 98.870 |
| 10 | 7.281 | 8.276 | 5.875 | 76 | 54.446 | 55.751 | 53.040 | 141 | 100.992 | 102.317 | 99.580 |
| 11 | 7.986 | 9.014 | 6.499 | 77 | 55.162 | 56.466 | 53.745 | 142 | 101.708 | 103.034 | 100.302 |
| 12 | 8.693 | 9.747 | 7.287 | 78 | 55.879 | 57.184 | 54.473 | 143 | 102.425 | 103.750 | 101.012 |
| 13 | 9.402 | 10.478 | 7.927 | 79 | 56.594 | 57.899 | 55.177 | 144 | 103.140 | 104.465 | 101.734 |
| 14 | 10.112 | 11.207 | 8.706 | 80 | 57.310 | 58.617 | 55.904 | 145 | 103.857 | 105.183 | 102.445 |
| 15 | 10.822 | 11.934 | 9.357 | 81 | 58.027 | 59.333 | 56.610 | 146 | 104.573 | 105.899 | 103.167 |
| 16 | 11.533 | 12.661 | 10.127 | 82 | 58.743 | 60.055 | 57.337 | 147 | 105.289 | 106.614 | 103.877 |
| 17 | 12.245 | 13.385 | 10.787 | 83 | 59.459 | 60.766 | 58.042 | 148 | 106.005 | 108.332 | 104.599 |
| 18 | 12.957 | 14.110 | 11.551 | 84 | 60.175 | 61.484 | 58.769 | 149 | 106.721 | 108.047 | 105.309 |
| 19 | 13.670 | 14.834 | 12.217 | 85 | 60.891 | 62.199 | 59.474 | 150 | 107.438 | 108.765 | 106.032 |
| 20 | 14.383 | 15.557 | 12.977 | 86 | 61.607 | 62.915 | 60.201 | 151 | 108.154 | 109.481 | 106.742 |
| 21 | 15.096 | 16.279 | 13.648 | 87 | 62.323 | 63.632 | 60.907 | 152 | 108.870 | 110.196 | 107.464 |
| 22 | 15.810 | 16.999 | 14.404 | 88 | 63.039 | 63.348 | 61.633 | 153 | 109.586 | 110.914 | 108.174 |
| 23 | 16.524 | 17.721 | 15.079 | 89 | 63.755 | 65.066 | 62.339 | 154 | 110.302 | 111.629 | 108.896 |
| 24 | 17.238 | 18.441 | 15.832 | 90 | 64.471 | 65.781 | 63.065 | 155 | 111.018 | 112.345 | 109.607 |
| 25 | 17.952 | 19.161 | 16.511 | 91 | 65.187 | 66.499 | 63.771 | 156 | 111.734 | 113.063 | 110.328 |
| 26 | 18.666 | 19.881 | 17.260 | 92 | 65.903 | 67.214 | 64.497 | 157 | 112.451 | 113.778 | 111.039 |
| 27 | 19.381 | 20.601 | 17.942 | 93 | 66.619 | 67.932 | 65.203 | 158 | 113.167 | 114.494 | 111.761 |
| 28 | 20.096 | 21.319 | 18.690 | 94 | 67.335 | 68.648 | 65.929 | 159 | 113.883 | 115.211 | 112.471 |
| 29 | 20.810 | 22.039 | 19.374 | 95 | 68.051 | 69.363 | 66.636 | 160 | 114.599 | 115.927 | 113.193 |
| 30 | 21.525 | 22.757 | 20.119 | 96 | 68.767 | 70.081 | 67.361 | 161 | 115.315 | 116.642 | 113.904 |
| 31 | 22.240 | 23.477 | 20.806 | 97 | 69.483 | 70.796 | 68.068 | 162 | 116.031 | 117.360 | 114.625 |
| 32 | 22.955 | 24.194 | 21.549 | 98 | 70.199 | 71.514 | 68.793 | 163 | 116.747 | 118.076 | 115.336 |
| 33 | 23.670 | 24.914 | 22.237 | 99 | 70.916 | 72.230 | 69.500 | 164 | 117.464 | 118.791 | 116.058 |
| 34 | 24.385 | 25.632 | 22.979 | 100 | 71.631 | 72.947 | 70.225 | 165 | 118.180 | 119.509 | 116.768 |
| 35 | 25.101 | 26.350 | 23.669 | 101 | 72.348 | 73.663 | 70.933 | 166 | 118.896 | 120.224 | 117.490 |
| 36 | 25.816 | 27.068 | 24.410 | 102 | 73.064 | 74.378 | 71.658 | 167 | 119.612 | 120.942 | 118.201 |
| 37 | 26.531 | 27.785 | 25.101 | 103 | 73.780 | 75.096 | 72.365 | 168 | 120.328 | 121.658 | 118.922 |
| 38 | 27.246 | 28.503 | 25.840 | 104 | 74.496 | 75.812 | 73.090 | 169 | 121.044 | 122.373 | 119.633 |
| 39 | 27.962 | 29.221 | 26.533 | 105 | 75.212 | 76.529 | 73.798 | 170 | 121.760 | 123.091 | 120.354 |
| 40 | 28.677 | 29.939 | 27.271 | 106 | 75.928 | 77.245 | 74.522 | 171 | 122.477 | 123.806 | 121.065 |
| 41 | 29.393 | 30.656 | 27.965 | 107 | 76.644 | 77.960 | 75.230 | 172 | 123.193 | 124.522 | 121.787 |
| 42 | 30.108 | 31.374 | 28.702 | 108 | 77.360 | 78.678 | 75.954 | 173 | 123.909 | 125.240 | 122.498 |
| 43 | 30.824 | 32.092 | 29.397 | 109 | 79.073 | 79.394 | 76.662 | 174 | 124.625 | 125.955 | 123.219 |
| 44 | 31.539 | 32.810 | 30.133 | 110 | 78.792 | 80.111 | 77.386 | 175 | 125.341 | 126.671 | 123.930 |
| 45 | 32.255 | 33.527 | 30.830 | 111 | 79.508 | 80.827 | 78.095 | 176 | 126.057 | 127.388 | 124.651 |
| 46 | 32.971 | 34.243 | 31.565 | 112 | 80.225 | 81.542 | 78.819 | 177 | 126.774 | 128.104 | 125.363 |
| 47 | 33.686 | 34.961 | 32.262 | 113 | 80.931 | 82.260 | 79.527 | 178 | 127.490 | 128.819 | 126.084 |
| 48 | 34.402 | 35.678 | 32.996 | 114 | 81.657 | 82.976 | 80.251 | 179 | 128.206 | 129.537 | 126.795 |
| 49 | 35.118 | 36.396 | 33.694 | 115 | 82.373 | 83.693 | 80.959 | 180 | 128.922 | 130.253 | 127.516 |
| 50 | 35.834 | 37.114 | 34.428 | 116 | 83.089 | 84.409 | 81.683 | 181 | 129.638 | 130.968 | 128.227 |
| 51 | 36.549 | 37.829 | 35.126 | 117 | 83.805 | 85.124 | 82.392 | 182 | 130.354 | 131.686 | 128.948 |
| 52 | 37.265 | 38.547 | 35.859 | 118 | 84.521 | 85.842 | 83.115 | 183 | 131.071 | 132.401 | 129.660 |
| 53 | 37.981 | 39.265 | 36.558 | 119 | 85.237 | 86.558 | 83.824 | 184 | 131.787 | 133.117 | 130.381 |
| 54 | 38.696 | 39.980 | 37.290 | 120 | 85.953 | 87.273 | 84.547 | 185 | 132.503 | 133.835 | 131.092 |
| 55 | 39.412 | 40.698 | 37.990 | 121 | 86.670 | 87.991 | 85.256 | 186 | 133.219 | 134.550 | 131.813 |
| 56 | 40.128 | 41.416 | 38.722 | 122 | 87.386 | 88.706 | 85.980 | 187 | 133.935 | 135.266 | 132.524 |
| 57 | 40.844 | 42.131 | 39.422 | 123 | 88.102 | 89.424 | 86.689 | 188 | 134.651 | 135.983 | 133.245 |
| 58 | 41.560 | 42.849 | 40.154 | 124 | 88.818 | 90.140 | 87.412 | 189 | 135.367 | 136.699 | 133.957 |
| 59 | 42.276 | 43.567 | 40.855 | 125 | 89.534 | 90.855 | 88.121 | 190 | 136.084 | 137.414 | 134.678 |
| 60 | 42.991 | 44.282 | 41.585 | 126 | 90.250 | 91.573 | 88.844 | 191 | 136.800 | 138.132 | 135.389 |
| 61 | 43.707 | 45.000 | 42.287 | 127 | 90.966 | 92.288 | 89.553 | 192 | 137.516 | 138.848 | 136.110 |
| 62 | 44.423 | 45.716 | 43.017 | 128 | 91.682 | 93.004 | 90.276 | 193 | 138.232 | 139.563 | 136.822 |
| 63 | 45.139 | 46.433 | 43.719 | 129 | 92.399 | 93.722 | 90.986 | 194 | 138.948 | 140.281 | 137.542 |
| 64 | 45.855 | 47.151 | 44.449 | 130 | 93.115 | 94.437 | 91.709 | 195 | 139.664 | 140.996 | 138.254 |
| 65 | 46.571 | 47.867 | 45.151 | 131 | 93.831 | 95.155 | 92.418 | 196 | 140.381 | 141.712 | 138.975 |
| 66 | 47.287 | 48.584 | 45.881 | 132 | 94.547 | 95.870 | 93.141 | 197 | 141.097 | 142.430 | 139.686 |
| 67 | 48.003 | 49.300 | 46.584 | 133 | 95.263 | 96.586 | 93.850 | 198 | 141.813 | 143.145 | 140.407 |
| 68 | 48.719 | 50.018 | 47.313 | 134 | 95.979 | 97.304 | 94.573 | 199 | 142.529 | 143.861 | 141.119 |
| 69 | 49.435 | 50.733 | 48.016 | 135 | 96.695 | 98.019 | 95.283 | 200 | 143.245 | 144.578 | 141.839 |
| 70 | 50.151 | 51.451 | 48.745 | | | | | | | | |

# No. 200
## 2½" Pitch

# Sprocket Diameter

Martin

## Roller Chain Sprocket Diameters

| No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 4.253 | 4.940 | 2.482 | 71 | 56.518 | 57.962 | 54.942 | 136 | 108.235 | 109.705 | 106.672 |
| 6 | 5.000 | 5.830 | 3.438 | 72 | 57.315 | 58.760 | 55.752 | 137 | 109.030 | 110.502 | 107.461 |
| 7 | 5.760 | 6.690 | 4.055 | 73 | 58.110 | 59.555 | 56.533 | 138 | 109.827 | 111.297 | 108.264 |
| 8 | 6.533 | 7.535 | 4.970 | 74 | 58.905 | 60.352 | 57.342 | 139 | 110.622 | 112.095 | 109.052 |
| 9 | 7.310 | 8.370 | 5.636 | 75 | 59.700 | 61.147 | 58.125 | 140 | 111.418 | 112.890 | 109.855 |
| 10 | 8.090 | 9.195 | 6.527 | 76 | 60.495 | 61.945 | 58.932 | 141 | 112.212 | 113.685 | 110.644 |
| 11 | 8.875 | 10.015 | 7.220 | 77 | 61.292 | 62.740 | 59.716 | 142 | 113.010 | 114.482 | 111.447 |
| 12 | 9.660 | 10.830 | 8.097 | 78 | 62.087 | 63.537 | 60.524 | 143 | 113.805 | 115.277 | 112.235 |
| 13 | 10.447 | 11.642 | 8.807 | 79 | 62.882 | 64.332 | 61.307 | 144 | 114.600 | 116.072 | 113.037 |
| 14 | 11.235 | 12.452 | 9.672 | 80 | 63.678 | 65.130 | 62.115 | 145 | 115.395 | 116.870 | 113.827 |
| 15 | 12.025 | 13.260 | 10.396 | 81 | 64.475 | 65.925 | 62.899 | 146 | 116.192 | 117.665 | 114.629 |
| 16 | 12.815 | 14.068 | 11.252 | 82 | 65.270 | 66.722 | 63.707 | 147 | 116.988 | 118.460 | 115.418 |
| 17 | 13.605 | 14.872 | 11.985 | 83 | 66.065 | 67.517 | 64.490 | 148 | 117.783 | 119.257 | 116.220 |
| 18 | 14.397 | 15.678 | 12.834 | 84 | 66.860 | 68.315 | 65.297 | 149 | 118.580 | 120.052 | 117.010 |
| 19 | 15.190 | 16.478 | 13.574 | 85 | 67.655 | 69.110 | 66.082 | 150 | 119.375 | 120.850 | 117.812 |
| 20 | 15.980 | 17.285 | 14.417 | 86 | 68.452 | 69.905 | 66.889 | 151 | 120.170 | 121.645 | 118.601 |
| 21 | 16.775 | 18.088 | 15.164 | 87 | 69.247 | 70.702 | 67.673 | 152 | 120.965 | 122.440 | 119.402 |
| 22 | 17.567 | 18.888 | 16.004 | 88 | 70.043 | 71.497 | 68.480 | 153 | 121.762 | 123.237 | 120.193 |
| 23 | 18.360 | 19.690 | 16.754 | 89 | 70.838 | 72.295 | 69.265 | 154 | 122.558 | 124.032 | 120.995 |
| 24 | 19.153 | 20.490 | 17.590 | 90 | 71.635 | 73.090 | 70.072 | 155 | 123.354 | 124.827 | 121.784 |
| 25 | 19.947 | 21.290 | 18.345 | 91 | 72.430 | 73.887 | 70.856 | 156 | 125.150 | 125.624 | 122.587 |
| 26 | 20.740 | 22.090 | 19.177 | 92 | 73.225 | 74.682 | 71.662 | 157 | 124.945 | 126.420 | 123.376 |
| 27 | 21.535 | 22.890 | 19.935 | 93 | 74.020 | 75.480 | 72.448 | 158 | 125.740 | 127.215 | 124.177 |
| 28 | 22.327 | 23.688 | 20.764 | 94 | 74.817 | 76.275 | 73.254 | 159 | 126.537 | 128.012 | 124.967 |
| 29 | 23.123 | 24.488 | 21.526 | 95 | 75.612 | 77.070 | 74.039 | 160 | 127.332 | 128.807 | 125.769 |
| 30 | 23.917 | 25.285 | 22.354 | 96 | 76.408 | 77.867 | 74.845 | 161 | 128.127 | 129.602 | 126.559 |
| 31 | 24.710 | 26.085 | 23.117 | 97 | 77.205 | 78.662 | 75.631 | 162 | 128.923 | 130.400 | 127.360 |
| 32 | 25.505 | 26.882 | 23.942 | 98 | 78.000 | 79.460 | 76.437 | 163 | 129.720 | 131.195 | 128.150 |
| 33 | 26.300 | 27.682 | 24.708 | 99 | 78.795 | 80.255 | 77.222 | 164 | 130.515 | 131.990 | 128.952 |
| 34 | 27.095 | 28.480 | 25.532 | 100 | 79.590 | 81.052 | 78.027 | 165 | 131.310 | 132.787 | 129.742 |
| 35 | 27.890 | 29.280 | 26.300 | 101 | 80.385 | 81.847 | 78.814 | 166 | 132.107 | 133.582 | 130.544 |
| 36 | 28.685 | 30.075 | 27.122 | 102 | 81.182 | 82.642 | 79.619 | 167 | 132.903 | 134.380 | 131.333 |
| 37 | 29.480 | 30.872 | 27.890 | 103 | 81.977 | 83.440 | 80.405 | 168 | 133.697 | 135.175 | 132.134 |
| 38 | 30.275 | 31.670 | 28.712 | 104 | 82.773 | 84.235 | 81.210 | 169 | 134.495 | 135.970 | 132.925 |
| 39 | 31.070 | 32.468 | 29.481 | 105 | 83.570 | 85.032 | 81.997 | 170 | 135.290 | 136.767 | 133.727 |
| 40 | 31.865 | 33.265 | 30.302 | 106 | 84.365 | 85.827 | 82.802 | 171 | 136.085 | 137.562 | 134.516 |
| 41 | 32.660 | 34.062 | 31.072 | 107 | 85.160 | 86.622 | 83.588 | 172 | 136.880 | 138.357 | 135.317 |
| 42 | 33.455 | 34.860 | 31.892 | 108 | 85.955 | 87.420 | 84.392 | 173 | 137.677 | 139.155 | 136.108 |
| 43 | 34.250 | 35.658 | 32.663 | 109 | 86.753 | 88.215 | 85.180 | 174 | 138.472 | 139.950 | 136.909 |
| 44 | 35.045 | 36.455 | 33.482 | 110 | 87.547 | 89.012 | 85.984 | 175 | 139.268 | 140.745 | 137.700 |
| 45 | 35.840 | 37.252 | 34.254 | 111 | 88.342 | 89.808 | 86.771 | 176 | 140.065 | 141.542 | 138.502 |
| 46 | 36.635 | 38.047 | 35.072 | 112 | 89.137 | 90.603 | 87.574 | 177 | 140.860 | 142.337 | 139.291 |
| 47 | 37.430 | 38.845 | 35.846 | 113 | 89.935 | 91.400 | 88.363 | 178 | 141.655 | 143.132 | 140.092 |
| 48 | 38.225 | 39.642 | 36.662 | 114 | 90.730 | 92.195 | 89.167 | 179 | 142.450 | 143.930 | 140.883 |
| 49 | 39.020 | 40.440 | 37.437 | 115 | 91.525 | 92.992 | 89.954 | 180 | 143.247 | 144.725 | 141.684 |
| 50 | 39.815 | 41.238 | 38.252 | 116 | 92.320 | 93.787 | 90.757 | 181 | 144.042 | 145.520 | 142.474 |
| 51 | 40.610 | 42.032 | 39.028 | 117 | 93.117 | 94.582 | 91.546 | 182 | 144.838 | 146.318 | 143.275 |
| 52 | 41.405 | 42.830 | 39.842 | 118 | 93.912 | 95.380 | 92.349 | 183 | 145.635 | 147.113 | 144.066 |
| 53 | 42.200 | 43.627 | 40.619 | 119 | 94.707 | 96.175 | 93.137 | 184 | 146.430 | 147.908 | 144.867 |
| 54 | 42.995 | 44.422 | 41.432 | 120 | 95.505 | 96.970 | 93.942 | 185 | 147.225 | 148.705 | 145.657 |
| 55 | 43.790 | 45.220 | 42.211 | 121 | 96.300 | 97.767 | 94.729 | 186 | 148.020 | 149.500 | 146.457 |
| 56 | 44.587 | 46.018 | 43.024 | 122 | 97.095 | 98.562 | 95.532 | 187 | 148.817 | 150.295 | 147.249 |
| 57 | 45.383 | 46.812 | 43.802 | 123 | 97.890 | 99.360 | 96.320 | 188 | 149.612 | 151.093 | 148.049 |
| 58 | 46.177 | 47.610 | 44.614 | 124 | 98.687 | 100.155 | 97.124 | 189 | 150.408 | 151.888 | 148.840 |
| 59 | 46.973 | 48.408 | 45.393 | 125 | 99.482 | 100.950 | 97.912 | 190 | 151.205 | 152.683 | 149.642 |
| 60 | 47.768 | 49.202 | 46.205 | 126 | 100.278 | 101.747 | 98.715 | 191 | 152.000 | 153.480 | 150.432 |
| 61 | 48.565 | 50.000 | 46.964 | 127 | 101.075 | 102.542 | 99.503 | 192 | 152.795 | 154.275 | 151.232 |
| 62 | 49.360 | 50.795 | 47.797 | 128 | 101.870 | 103.337 | 100.307 | 193 | 153.590 | 155.070 | 152.023 |
| 63 | 50.155 | 51.593 | 48.576 | 129 | 102.665 | 104.135 | 101.095 | 194 | 154.387 | 155.868 | 152.824 |
| 64 | 50.950 | 52.390 | 49.387 | 130 | 103.460 | 104.930 | 101.897 | 195 | 155.183 | 156.663 | 153.615 |
| 65 | 51.745 | 53.185 | 50.167 | 131 | 104.257 | 105.727 | 102.686 | 196 | 155.977 | 157.458 | 154.414 |
| 66 | 52.540 | 53.982 | 50.977 | 132 | 105.052 | 106.522 | 103.489 | 197 | 156.775 | 158.255 | 155.206 |
| 67 | 53.337 | 54.777 | 51.759 | 133 | 105.847 | 107.317 | 104.278 | 198 | 157.570 | 159.050 | 156.007 |
| 68 | 54.132 | 55.575 | 52.569 | 134 | 106.643 | 108.115 | 105.080 | 199 | 158.365 | 159.845 | 156.798 |
| 69 | 54.927 | 56.370 | 53.350 | 135 | 107.440 | 108.910 | 105.869 | 200 | 159.162 | 160.643 | 157.599 |
| 70 | 55.723 | 57.167 | 54.160 | | | | | | | | |

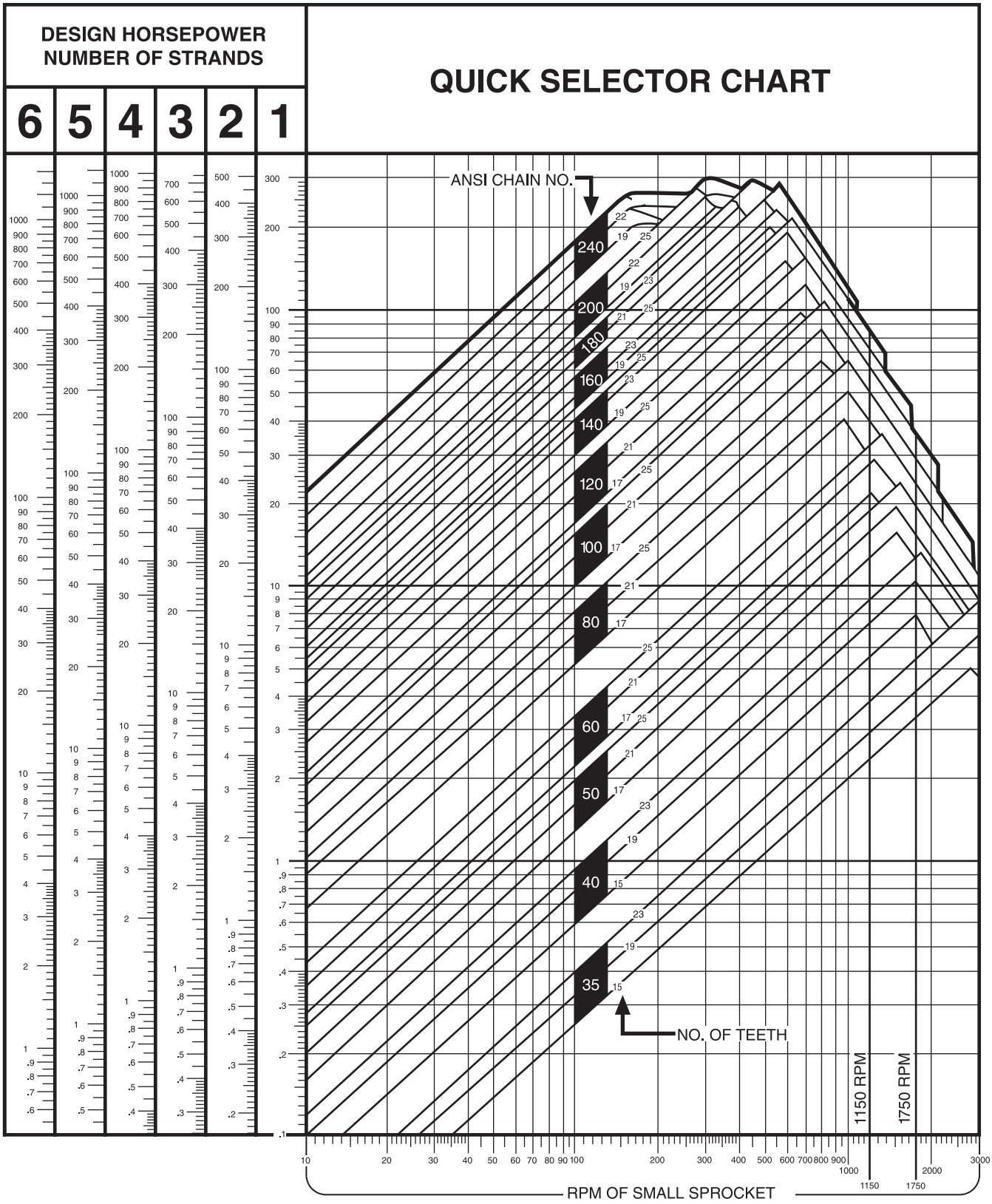
# Sprocket Diameter

# No. 240 3" Pitch

## Roller Chain Sprocket Diameters

| No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter | No. of Pitches | Pitch Diameter | Outside Diameter | Caliper Diameter |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6.000 | 7.00 | 4.125 | 45 | 43.007 | 44.70 | 41.105 | 83 | 79.278 | 81.02 | 77.388 |
| 7 | 6.914 | 8.03 | 4.866 | 46 | 43.961 | 45.66 | 42.086 | 84 | 80.233 | 81.98 | 78.358 |
| 8 | 7.839 | 9.04 | 5.964 | 47 | 44.915 | 46.61 | 43.013 | 85 | 81.188 | 82.93 | 79.298 |
| 9 | 8.771 | 10.04 | 6.764 | 48 | 45.869 | 47.57 | 43.994 | 86 | 82.142 | 83.89 | 80.267 |
| 10 | 9.708 | 11.03 | 7.833 | 49 | 46.824 | 48.53 | 44.925 | 87 | 83.097 | 84.84 | 81.207 |
| 11 | 10.649 | 12.02 | 8.666 | 50 | 47.778 | 49.49 | 45.903 | 88 | 84.052 | 85.80 | 82.177 |
| 12 | 11.591 | 13.00 | 9.716 | 51 | 48.732 | 50.44 | 46.833 | 89 | 85.006 | 86.75 | 83.116 |
| 13 | 12.536 | 13.97 | 10.568 | 52 | 49.687 | 51.40 | 47.812 | 90 | 85.961 | 87.71 | 84.086 |
| 14 | 13.482 | 14.94 | 11.607 | 53 | 50.641 | 52.35 | 48.744 | 91 | 86.916 | 88.67 | 85.026 |
| 15 | 14.429 | 15.91 | 12.473 | 54 | 51.595 | 53.31 | 49.720 | 92 | 87.871 | 89.62 | 85.996 |
| 16 | 15.377 | 16.88 | 13.502 | 55 | 52.550 | 54.26 | 50.654 | 93 | 88.825 | 90.58 | 86.938 |
| 17 | 16.327 | 17.85 | 14.383 | 56 | 53.504 | 55.22 | 51.629 | 94 | 89.780 | 91.53 | 87.905 |
| 18 | 17.276 | 18.81 | 15.401 | 57 | 54.458 | 56.18 | 52.562 | 95 | 90.735 | 92.48 | 88.848 |
| 19 | 18.227 | 19.78 | 16.289 | 58 | 55.413 | 57.13 | 53.538 | 96 | 91.690 | 93.44 | 89.815 |
| 20 | 19.177 | 20.74 | 17.302 | 59 | 56.368 | 58.09 | 54.473 | 97 | 92.645 | 94.40 | 90.758 |
| 21 | 20.129 | 21.71 | 18.197 | 60 | 57.322 | 59.04 | 55.447 | 98 | 93.599 | 95.35 | 91.724 |
| 22 | 21.080 | 22.67 | 19.205 | 61 | 58.277 | 60.00 | 56.384 | 99 | 94.554 | 96.31 | 92.667 |
| 23 | 22.032 | 23.63 | 20.106 | 62 | 59.231 | 60.95 | 57.356 | 100 | 95.507 | 97.26 | 93.634 |
| 24 | 22.984 | 24.59 | 21.109 | 63 | 60.185 | 61.91 | 58.292 | 101 | 96.463 | 98.22 | 94.676 |
| 25 | 23.936 | 25.55 | 22.013 | 64 | 61.140 | 62.87 | 59.265 | 102 | 97.418 | 99.17 | 95.543 |
| 26 | 24.889 | 26.51 | 23.014 | 65 | 62.095 | 63.82 | 60.202 | 103 | 98.373 | 100.13 | 96.486 |
| 27 | 25.841 | 27.47 | 23.921 | 66 | 63.049 | 64.78 | 61.174 | 104 | 99.328 | 101.08 | 97.453 |
| 28 | 26.794 | 28.43 | 24.919 | 67 | 64.004 | 65.73 | 62.111 | 105 | 100.283 | 102.04 | 98.396 |
| 29 | 27.747 | 29.39 | 25.833 | 68 | 64.958 | 66.69 | 63.083 | 106 | 101.237 | 102.99 | 99.362 |
| 30 | 28.700 | 30.34 | 26.825 | 69 | 65.913 | 67.64 | 64.023 | 107 | 102.192 | 103.95 | 100.305 |
| 31 | 29.654 | 31.30 | 27.740 | 70 | 66.868 | 68.60 | 64.993 | 108 | 103.147 | 104.90 | 101.272 |
| 32 | 30.607 | 32.26 | 28.732 | 71 | 67.822 | 69.56 | 65.932 | 109 | 104.102 | 105.86 | 102.215 |
| 33 | 31.560 | 33.22 | 29.649 | 72 | 68.777 | 70.51 | 66.902 | 110 | 105.056 | 106.82 | 103.181 |
| 34 | 32.514 | 34.18 | 30.639 | 73 | 69.731 | 71.45 | 67.841 | 111 | 106.011 | 107.77 | 104.124 |
| 35 | 33.467 | 35.13 | 31.559 | 74 | 70.686 | 72.42 | 68.811 | 112 | 106.966 | 108.72 | 105.091 |
| 36 | 34.421 | 36.09 | 32.546 | 75 | 71.641 | 73.38 | 69.751 | 113 | 107.922 | 109.68 | 106.035 |
| 37 | 35.375 | 37.05 | 33.467 | 76 | 72.595 | 74.33 | 70.720 | 114 | 108.876 | 110.63 | 107.001 |
| 38 | 36.329 | 38.00 | 34.454 | 77 | 73.550 | 75.29 | 71.660 | 115 | 109.830 | 111.59 | 107.943 |
| 39 | 37.283 | 38.96 | 35.378 | 78 | 74.505 | 76.25 | 72.630 | 116 | 110.786 | 112.55 | 108.911 |
| 40 | 38.237 | 39.92 | 36.362 | 79 | 75.459 | 77.20 | 73.569 | 117 | 111.740 | 113.50 | 109.820 |
| 41 | 39.191 | 40.88 | 37.286 | 80 | 76.414 | 78.16 | 74.539 | 118 | 112.695 | 114.46 | 110.810 |
| 42 | 40.145 | 41.83 | 38.270 | 81 | 77.369 | 79.11 | 75.479 | 119 | 113.650 | 115.41 | 111.750 |
| 43 | 41.099 | 42.79 | 39.197 | 82 | 78.323 | 80.07 | 76.448 | 120 | 114.605 | 116.36 | 112.730 |
| 44 | 42.053 | 43.75 | 40.178 | | | | | | | | |

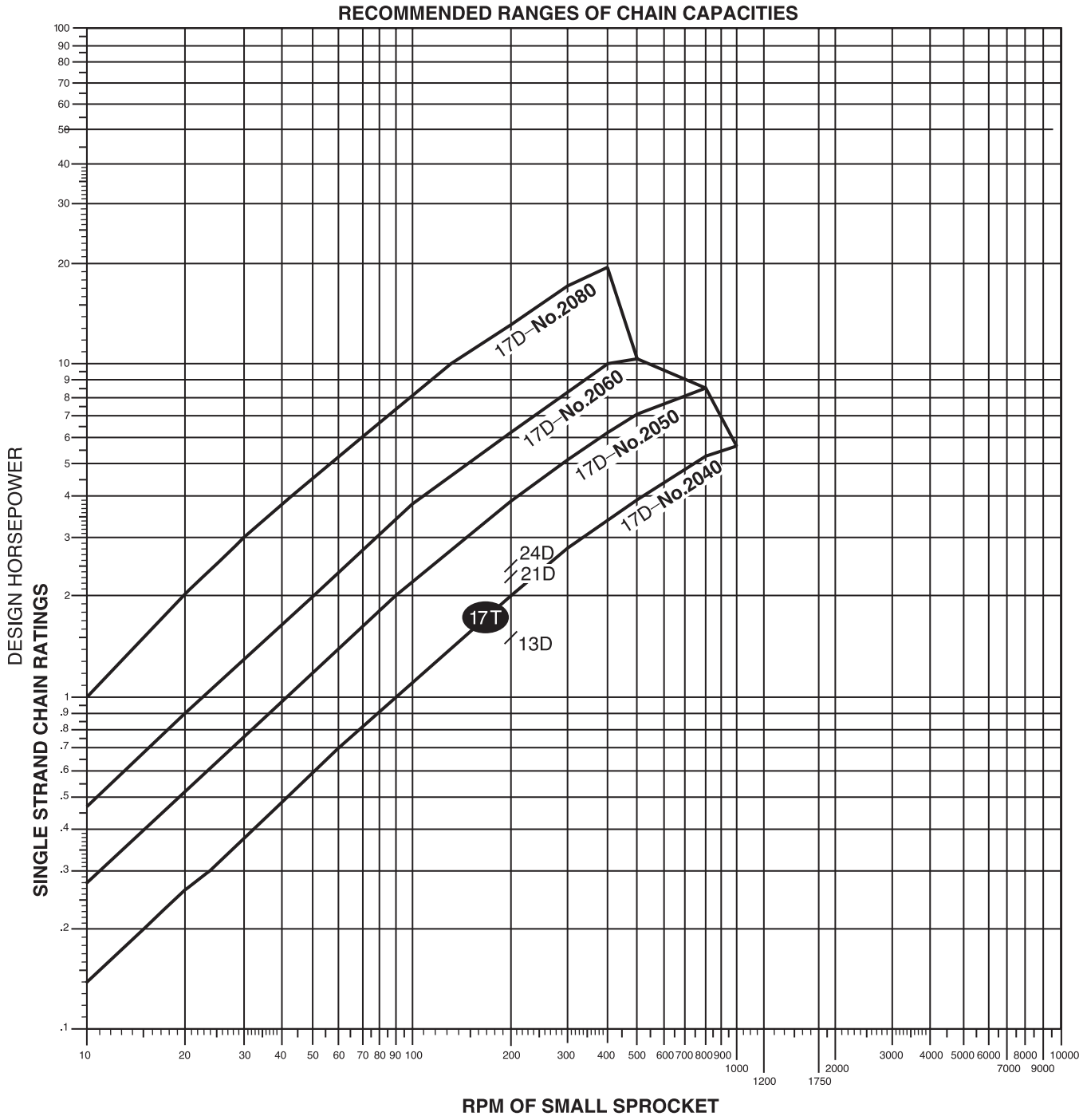
# Horsepower Table



# Horsepower Table

## DOUBLE PITCH CHAIN
### Sloping Lines Represent Horsepower Ratings for Chains with 17 Tooth Sprockets

## QUICK SELECTOR CHART



# Horsepower Ratings
# Single Strand Roller Chain

(For multiple strand ratings see chart on page E-187)

## 1/4" Pitch No. 25

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 100 | 500 | 900 | 1200 | 1800 | 2500 | 3000 | 3500 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 10000 |
| 11 | 0.05 | 0.23 | 0.39 | 0.50 | 0.73 | 0.98 | 1.15 | 1.32 | 1.38 | 1.16 | 0.99 | 0.86 | 0.75 | 0.67 | 0.60 | 0.54 | 0.49 | 0.45 | 0.41 | 0.35 |
| 12 | 0.06 | 0.25 | 0.43 | 0.55 | 0.80 | 1.07 | 1.26 | 1.45 | 1.57 | 1.32 | 1.12 | 0.97 | 0.86 | 0.76 | 0.68 | 0.61 | 0.56 | 0.51 | 0.47 | 0.40 |
| 13 | 0.06 | 0.27 | 0.47 | 0.60 | 0.87 | 1.17 | 1.38 | 1.58 | 1.77 | 1.49 | 1.27 | 1.10 | 0.96 | 0.86 | 0.77 | 0.69 | 0.63 | 0.57 | 0.53 | 0.45 |
| 14 | 0.07 | 0.30 | 0.50 | 0.65 | 0.94 | 1.27 | 1.49 | 1.71 | 1.93 | 1.66 | 1.42 | 1.23 | 1.08 | 0.96 | 0.86 | 0.77 | 0.70 | 0.64 | 0.59 | 0.50 |
| 15 | 0.07 | 0.32 | 0.54 | 0.70 | 1.01 | 1.36 | 1.61 | 1.85 | 2.08 | 1.84 | 1.57 | 1.36 | 1.20 | 1.06 | 0.95 | 0.86 | 0.78 | 0.71 | 0.65 | 0.56 |
| 16 | 0.08 | 0.34 | 0.58 | 0.76 | 1.09 | 1.46 | 1.72 | 1.98 | 2.23 | 2.03 | 1.73 | 1.50 | 1.32 | 1.17 | 1.05 | 0.94 | 0.86 | 0.78 | 0.72 | 0.61 |
| 17 | 0.08 | 0.37 | 0.62 | 0.81 | 1.16 | 1.56 | 1.84 | 2.11 | 2.38 | 2.22 | 1.90 | 1.64 | 1.44 | 1.28 | 1.14 | 1.03 | 0.94 | 0.86 | 0.79 | 0.67 |
| 18 | 0.09 | 0.39 | 0.66 | 0.86 | 1.24 | 1.66 | 1.96 | 2.25 | 2.53 | 2.42 | 2.07 | 1.79 | 1.57 | 1.39 | 1.25 | 1.12 | 1.02 | 0.93 | 0.86 | 0.73 |
| 19 | 0.09 | 0.41 | 0.70 | 0.91 | 1.31 | 1.76 | 2.07 | 2.38 | 2.69 | 2.62 | 2.24 | 1.94 | 1.70 | 1.51 | 1.35 | 1.22 | 1.11 | 1.01 | 0.93 | 0.79 |
| 20 | 0.10 | 0.44 | 0.74 | 0.96 | 1.38 | 1.86 | 2.19 | 2.52 | 2.84 | 2.83 | 2.42 | 2.10 | 1.84 | 1.63 | 1.46 | 1.32 | 1.20 | 1.09 | 1.00 | 0.86 |
| 21 | 0.11 | 0.46 | 0.78 | 1.01 | 1.46 | 1.96 | 2.31 | 2.66 | 2.99 | 3.05 | 2.60 | 2.26 | 1.98 | 1.76 | 1.57 | 1.42 | 1.29 | 1.17 | 1.08 | 0.92 |
| 22 | 0.11 | 0.48 | 0.82 | 1.07 | 1.53 | 2.06 | 2.43 | 2.79 | 3.15 | 3.27 | 2.79 | 2.42 | 2.12 | 1.88 | 1.69 | 1.52 | 1.38 | 1.26 | 1.16 | 0.99 |
| 23 | 0.12 | 0.51 | 0.86 | 1.12 | 1.61 | 2.16 | 2.55 | 2.93 | 3.30 | 3.50 | 2.98 | 2.59 | 2.27 | 2.01 | 1.80 | 1.62 | 1.47 | 1.35 | 1.24 | 1.06 |
| 24 | 0.13 | 0.53 | 0.90 | 1.17 | 1.69 | 2.27 | 2.67 | 3.07 | 3.46 | 3.73 | 3.18 | 2.76 | 2.42 | 2.15 | 1.92 | 1.73 | 1.57 | 1.44 | 1.32 | 1.12 |
| 25 | 0.13 | 0.56 | 0.94 | 1.22 | 1.76 | 2.37 | 2.79 | 3.21 | 3.61 | 3.96 | 3.38 | 2.93 | 2.57 | 2.28 | 2.04 | 1.84 | 1.67 | 1.53 | 1.40 | 1.20 |
| 26 | 0.14 | 0.58 | 0.98 | 1.28 | 1.84 | 2.47 | 2.91 | 3.34 | 3.77 | 4.19 | 3.59 | 3.11 | 2.73 | 2.42 | 2.17 | 1.95 | 1.77 | 1.62 | 1.49 | 1.27 |
| 28 | 0.15 | 0.63 | 1.07 | 1.38 | 1.99 | 2.68 | 3.15 | 3.62 | 4.09 | 4.54 | 4.01 | 3.47 | 3.05 | 2.70 | 2.42 | 2.18 | 1.98 | 1.81 | 1.66 | 1.42 |
| 30 | 0.16 | 0.68 | 1.15 | 1.49 | 2.15 | 2.88 | 3.40 | 3.90 | 4.40 | 4.89 | 4.45 | 3.85 | 3.38 | 3.00 | 2.68 | 2.42 | 2.20 | 2.01 | 1.84 | 1.57 |
| 32 | 0.17 | 0.73 | 1.23 | 1.60 | 2.30 | 3.09 | 3.64 | 4.18 | 4.72 | 5.25 | 4.90 | 4.25 | 3.73 | 3.30 | 2.96 | 2.67 | 2.42 | 2.21 | 2.03 | 1.73 |
| 35 | 0.19 | 0.80 | 1.36 | 1.76 | 2.53 | 3.41 | 4.01 | 4.61 | 5.20 | 5.78 | 5.60 | 4.86 | 4.26 | 3.78 | 3.38 | 3.05 | 2.77 | 2.53 | 2.32 | 1.98 |
| 40 | 0.22 | 0.92 | 1.57 | 2.03 | 2.93 | 3.93 | 4.64 | 5.32 | 6.00 | 6.68 | 6.85 | 5.93 | 5.21 | 4.62 | 4.13 | 3.73 | 3.38 | 3.09 | 2.83 | 2.42 |
| 45 | 0.25 | 1.05 | 1.78 | 2.31 | 3.32 | 4.47 | 5.26 | 6.05 | 6.82 | 7.58 | 8.17 | 7.08 | 6.21 | 5.51 | 4.93 | 4.45 | 4.04 | 3.69 | 3.38 | 2.89 |
| Lubrication | Type A | | Type B | | | | | | Type C | | | | | | | | | | | |

## 3/8" Pitch No. 35

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 100 | 500 | 900 | 1200 | 1800 | 2500 | 3000 | 3500 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 10000 |
| 11 | 0.18 | 0.77 | 1.31 | 1.70 | 2.45 | 3.30 | 2.94 | 2.33 | 1.91 | 1.60 | 1.37 | 1.18 | 1.04 | 0.92 | 0.82 | 0.74 | 0.67 | 0.62 | 0.57 | 0.48 |
| 12 | 0.20 | 0.85 | 1.44 | 1.87 | 2.70 | 3.62 | 3.35 | 2.66 | 2.17 | 1.82 | 1.56 | 1.35 | 1.18 | 1.05 | 0.94 | 0.85 | 0.77 | 0.70 | 0.64 | 0.55 |
| 13 | 0.22 | 0.93 | 1.57 | 2.04 | 2.94 | 3.95 | 3.77 | 3.00 | 2.45 | 2.05 | 1.75 | 1.52 | 1.33 | 1.18 | 1.06 | 0.95 | 0.87 | 0.79 | 0.73 | 0.62 |
| 14 | 0.24 | 1.01 | 1.71 | 2.21 | 3.18 | 4.28 | 4.22 | 3.35 | 2.74 | 2.30 | 1.96 | 1.70 | 1.49 | 1.32 | 1.18 | 1.07 | 0.97 | 0.88 | 0.81 | 0.69 |
| 15 | 0.25 | 1.08 | 1.84 | 2.38 | 3.43 | 4.61 | 4.68 | 3.71 | 3.04 | 2.55 | 2.17 | 1.88 | 1.65 | 1.47 | 1.31 | 1.18 | 1.07 | 0.98 | 0.90 | 0.77 |
| 16 | 0.27 | 1.16 | 1.97 | 2.55 | 3.68 | 4.94 | 5.15 | 4.09 | 3.35 | 2.81 | 2.40 | 2.08 | 1.82 | 1.62 | 1.45 | 1.30 | 1.18 | 1.08 | 0.99 | 0.85 |
| 17 | 0.29 | 1.24 | 2.10 | 2.73 | 3.93 | 5.28 | 5.64 | 4.48 | 3.67 | 3.07 | 2.62 | 2.27 | 2.00 | 1.77 | 1.58 | 1.43 | 1.30 | 1.18 | 1.09 | 0.93 |
| 18 | 0.31 | 1.32 | 2.24 | 2.90 | 4.18 | 5.61 | 6.15 | 4.88 | 3.99 | 2.35 | 2.86 | 2.48 | 2.17 | 1.93 | 1.73 | 1.56 | 1.41 | 1.29 | 1.18 | 1.01 |
| 19 | 0.33 | 1.40 | 2.37 | 3.07 | 4.43 | 5.95 | 6.67 | 5.29 | 4.33 | 3.63 | 3.10 | 2.69 | 2.36 | 2.09 | 1.87 | 1.69 | 1.53 | 1.40 | 1.28 | 1.10 |
| 20 | 0.35 | 1.48 | 2.51 | 3.25 | 4.68 | 6.29 | 7.20 | 5.72 | 4.68 | 3.92 | 3.35 | 2.90 | 2.55 | 2.26 | 2.02 | 1.82 | 1.65 | 1.51 | 1.39 | 1.18 |
| 21 | 0.37 | 1.56 | 2.64 | 3.42 | 4.93 | 6.63 | 7.75 | 6.15 | 5.03 | 4.22 | 3.60 | 3.12 | 2.74 | 2.43 | 2.17 | 1.96 | 1.78 | 1.62 | 1.49 | 1.27 |
| 22 | 0.38 | 1.64 | 2.78 | 3.60 | 5.19 | 6.97 | 8.21 | 6.59 | 5.40 | 4.52 | 3.86 | 3.35 | 2.94 | 2.61 | 2.33 | 2.10 | 1.91 | 1.74 | 1.60 | 1.37 |
| 23 | 0.40 | 1.72 | 2.92 | 3.78 | 5.44 | 7.31 | 8.62 | 7.05 | 5.77 | 4.83 | 4.13 | 3.58 | 3.14 | 2.79 | 2.49 | 2.25 | 2.04 | 1.86 | 1.71 | 1.46 |
| 24 | 0.42 | 1.80 | 3.05 | 3.96 | 5.70 | 7.66 | 9.02 | 7.51 | 6.15 | 5.15 | 4.40 | 3.81 | 3.35 | 2.97 | 2.66 | 2.40 | 2.17 | 1.99 | 1.82 | 1.56 |
| 25 | 0.44 | 1.88 | 3.19 | 4.13 | 5.95 | 8.00 | 9.43 | 7.99 | 6.54 | 5.48 | 4.68 | 4.05 | 3.56 | 3.16 | 2.82 | 2.55 | 2.31 | 2.11 | 1.94 | 1.65 |
| 26 | 0.46 | 1.96 | 3.33 | 4.31 | 6.21 | 8.35 | 9.84 | 8.47 | 6.93 | 5.18 | 4.96 | 4.30 | 3.77 | 3.35 | 3.00 | 2.70 | 2.45 | 2.24 | 2.05 | 1.75 |
| 28 | 0.50 | 2.12 | 3.61 | 4.67 | 6.73 | 9.05 | 10.7 | 9.47 | 7.75 | 6.49 | 5.55 | 4.81 | 4.22 | 3.74 | 3.35 | 3.02 | 2.74 | 2.50 | 2.30 | 1.96 |
| 30 | 0.54 | 2.29 | 3.89 | 5.03 | 7.25 | 9.74 | 11.5 | 10.5 | 8.59 | 7.20 | 6.15 | 5.33 | 4.68 | 4.15 | 3.71 | 3.35 | 3.04 | 2.77 | 2.55 | 2.17 |
| 32 | 0.58 | 2.45 | 4.17 | 5.40 | 7.77 | 10.4 | 12.3 | 11.6 | 9.47 | 7.93 | 6.77 | 5.87 | 5.15 | 4.57 | 4.09 | 3.69 | 3.35 | 3.06 | 2.81 | |
| 35 | 0.64 | 2.70 | 4.59 | 5.95 | 8.56 | 11.5 | 13.6 | 13.2 | 10.8 | 9.08 | 7.75 | 6.72 | 5.90 | 5.23 | 4.68 | 4.22 | 3.83 | 3.50 | 3.21 | |
| 40 | 0.73 | 3.12 | 5.30 | 6.87 | 9.89 | 13.3 | 15.7 | 16.2 | 13.2 | 11.1 | 9.47 | 8.21 | 7.20 | 6.39 | 5.72 | 5.15 | 4.68 | | | |
| 45 | 0.83 | 3.55 | 6.02 | 7.80 | 11.2 | 15.1 | 17.8 | 19.3 | 15.8 | 13.2 | 11.3 | 9.79 | 8.59 | 7.62 | 6.82 | | | | | |
| Lubrication | Type A | Type B | | | Type C | | | | | | | | | | | | | | | |

## 1/2" Pitch No. 41

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | 100 | 200 | 400 | 500 | 700 | 900 | 1200 | 1800 | 2400 | 3000 | 3500 | 4000 | 5000 | 6000 | 7000 | 8000 |
| 11 | 0.13 | 0.24 | 0.44 | 0.82 | 1.01 | 1.37 | 1.71 | 1.71 | 0.93 | 0.61 | 0.43 | 0.34 | 0.28 | 0.20 | 0.15 | 0.12 | 0.10 |
| 12 | 0.14 | 0.26 | 1.49 | 0.91 | 1.11 | 1.50 | 1.88 | 1.95 | 1.06 | 0.69 | 0.49 | 0.39 | 0.32 | 0.23 | 0.17 | 0.14 | 0.11 |
| 13 | 0.15 | 0.28 | 0.53 | 0.99 | 1.21 | 1.63 | 2.05 | 2.20 | 1.20 | 0.78 | 0.56 | 0.44 | 0.36 | 0.26 | 0.20 | 0.16 | 0.13 |
| 14 | 0.16 | 0.31 | 0.57 | 1.07 | 1.31 | 1.77 | 2.22 | 2.46 | 1.34 | 0.87 | 0.62 | 0.49 | 0.40 | 0.29 | 0.22 | 0.17 | 0.14 |
| 15 | 0.18 | 0.33 | 0.62 | 1.15 | 1.41 | 1.91 | 2.39 | 2.73 | 1.49 | 0.96 | 0.69 | 0.55 | 0.45 | 0.32 | 0.24 | 0.19 | 0.16 |
| 16 | 0.19 | 0.36 | 0.66 | 1.24 | 1.51 | 2.05 | 2.57 | 3.01 | 1.64 | 1.06 | 0.76 | 0.60 | 0.49 | 0.35 | 0.27 | 0.21 | 0.17 |
| 17 | 0.20 | 0.38 | 0.71 | 1.32 | 1.61 | 2.18 | 2.74 | 3.29 | 1.79 | 1.16 | 0.83 | 0.66 | 0.54 | 0.39 | 0.29 | 0.23 | 0.19 |
| 18 | 0.22 | 0.40 | 0.75 | 1.40 | 1.72 | 2.32 | 2.91 | 3.59 | 1.95 | 1.27 | 0.91 | 0.72 | 0.59 | 0.42 | 0.32 | 0.25 | |
| 19 | 0.23 | 0.43 | 0.80 | 1.49 | 1.82 | 2.46 | 3.09 | 3.89 | 2.12 | 1.38 | 0.98 | 0.78 | 0.64 | 0.46 | 0.35 | 0.28 | |
| 20 | 0.24 | 0.45 | 0.84 | 1.57 | 1.92 | 2.60 | 3.26 | 4.20 | 2.29 | 1.49 | 1.06 | 0.84 | 0.69 | 0.49 | 0.38 | 0.30 | |
| 21 | 0.26 | 0.48 | 0.89 | 1.66 | 2.03 | 2.74 | 3.44 | 4.46 | 2.46 | 1.60 | 1.14 | 0.91 | 0.74 | 0.53 | 0.40 | 0.32 | |
| 22 | 0.27 | 0.50 | 0.93 | 1.74 | 2.13 | 2.89 | 3.62 | 4.69 | 2.64 | 1.71 | 1.23 | 0.97 | 0.80 | 0.57 | 0.43 | 0.34 | |
| 23 | 0.28 | 0.53 | 0.98 | 1.83 | 2.24 | 3.03 | 3.80 | 4.92 | 2.82 | 1.83 | 1.31 | 1.04 | 0.85 | 0.61 | 0.46 | 0.37 | |
| 24 | 0.29 | 0.55 | 1.03 | 1.92 | 2.34 | 3.17 | 3.97 | 5.15 | 3.01 | 1.95 | 1.40 | 1.11 | 0.91 | 0.65 | 0.49 | 0.39 | |
| 25 | 0.31 | 0.57 | 1.07 | 2.00 | 2.45 | 3.31 | 4.15 | 5.38 | 3.20 | 2.08 | 1.49 | 1.18 | 0.96 | 0.69 | 0.53 | | |
| 26 | 0.32 | 0.60 | 1.12 | 2.09 | 2.55 | 3.46 | 4.33 | 5.61 | 3.39 | 2.20 | 1.58 | 1.25 | 1.02 | 0.73 | 0.56 | | |
| 28 | 0.35 | 0.65 | 1.21 | 2.26 | 2.77 | 3.74 | 4.69 | 6.08 | 3.79 | 2.46 | 1.76 | 1.40 | 1.14 | 0.82 | 0.62 | | |
| 30 | 0.38 | 0.70 | 1.31 | 2.44 | 2.98 | 4.03 | 5.06 | 6.55 | 4.20 | 2.73 | 1.95 | 1.55 | 1.27 | 0.91 | 0.69 | | |
| 32 | 0.40 | 0.75 | 1.40 | 2.61 | 3.20 | 4.33 | 5.42 | 7.03 | 4.63 | 3.01 | 2.15 | 1.71 | 1.40 | 1.00 | | | |
| 35 | 0.44 | 0.83 | 1.54 | 2.88 | 3.52 | 4.76 | 5.97 | 7.74 | 5.29 | 3.44 | 2.46 | 1.95 | 1.60 | 1.14 | | | |
| 40 | 0.51 | 0.96 | 1.78 | 3.33 | 4.07 | 5.50 | 6.90 | 8.94 | 6.47 | 4.20 | 3.01 | 2.39 | 1.95 | 1.40 | | | |
| 45 | 0.58 | 1.08 | 2.02 | 3.78 | 4.62 | 6.25 | 7.84 | 10.2 | 7.72 | 5.01 | 3.59 | 2.85 | 2.33 | | | | |
| Lubrication | Type A | | Type B | | | | | | Type C | | | | | | | | |

# Horsepower Ratings
# Single Strand Roller Chain

**For Multiple Strand Ratings See Chart at Bottom**

## 1/2" Pitch No. 40

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | 100 | 200 | 400 | 500 | 700 | 900 | 1200 | 1800 | 2400 | 3000 | 3500 | 4000 | 5000 | 6000 | 7000 | 8000 |
| 11 | 0.23 | 0.43 | 0.80 | 1.50 | 1.83 | 2.48 | 3.11 | 4.63 | 4.66 | 3.03 | 2.17 | 1.72 | 1.41 | 1.01 | 0.77 | 0.61 | 0.50 |
| 12 | 0.25 | 0.47 | 0.88 | 1.65 | 2.01 | 2.73 | 3.42 | 5.09 | 5.31 | 3.45 | 2.47 | 1.96 | 1.60 | 1.15 | 0.87 | 0.69 | 0.57 |
| 13 | 0.28 | 0.52 | 0.96 | 1.80 | 2.20 | 2.97 | 3.73 | 5.55 | 5.99 | 3.89 | 2.79 | 2.21 | 1.81 | 1.29 | 0.98 | 0.78 | 0.64 |
| 14 | 0.30 | 0.56 | 1.04 | 1.95 | 2.38 | 3.22 | 4.04 | 6.01 | 6.70 | 4.35 | 3.11 | 2.47 | 2.02 | 1.45 | 1.10 | 0.87 | 0.71 |
| 15 | 0.32 | 0.60 | 1.12 | 2.10 | 2.56 | 3.47 | 4.35 | 6.47 | 7.43 | 4.82 | 3.45 | 2.74 | 2.24 | 1.60 | 1.22 | 0.97 | 0.79 |
| 16 | 0.35 | 0.65 | 1.20 | 2.25 | 2.75 | 3.72 | 4.66 | 6.94 | 8.18 | 5.31 | 3.80 | 3.02 | 2.47 | 1.77 | 1.34 | 1.07 | 0.87 |
| 17 | 0.37 | 0.69 | 1.29 | 2.40 | 2.93 | 3.97 | 4.98 | 7.41 | 8.96 | 5.82 | 4.17 | 3.31 | 2.71 | 1.94 | 1.47 | 1.17 | 0.96 |
| 18 | 0.39 | 0.73 | 1.37 | 2.55 | 3.12 | 4.22 | 5.30 | 7.88 | 9.76 | 6.34 | 4.54 | 3.60 | 2.95 | 2.11 | 1.60 | 1.27 | |
| 19 | 0.42 | 0.78 | 1.45 | 2.71 | 3.31 | 4.48 | 5.62 | 8.36 | 10.5 | 6.88 | 4.92 | 3.91 | 3.20 | 2.29 | 1.74 | 1.38 | |
| 20 | 0.44 | 0.82 | 1.53 | 2.86 | 3.50 | 4.73 | 5.94 | 8.83 | 11.1 | 7.43 | 5.31 | 4.22 | 3.45 | 2.47 | 1.88 | 1.49 | |
| 21 | 0.46 | 0.87 | 1.62 | 3.02 | 3.69 | 4.99 | 6.26 | 9.31 | 11.7 | 7.99 | 5.72 | 4.54 | 3.71 | 2.66 | 2.02 | 1.60 | |
| 22 | 0.49 | 0.91 | 1.70 | 3.17 | 3.88 | 5.25 | 6.58 | 9.79 | 12.3 | 8.57 | 6.13 | 4.87 | 3.98 | 2.85 | 2.17 | 1.72 | |
| 23 | 0.51 | 0.96 | 1.78 | 3.33 | 4.07 | 5.51 | 6.90 | 10.3 | 12.9 | 9.16 | 6.55 | 5.20 | 4.26 | 3.05 | 2.32 | 1.84 | |
| 24 | 0.54 | 1.00 | 1.87 | 3.48 | 4.26 | 5.76 | 7.23 | 10.8 | 13.5 | 9.76 | 6.99 | 5.54 | 4.54 | 3.25 | 2.47 | 1.96 | |
| 25 | 0.56 | 1.05 | 1.95 | 3.64 | 4.45 | 6.02 | 7.55 | 11.2 | 14.1 | 10.4 | 7.43 | 5.89 | 4.82 | 3.45 | 2.63 | | |
| 26 | 0.58 | 1.09 | 2.04 | 3.80 | 4.64 | 6.28 | 7.88 | 11.7 | 14.7 | 11.0 | 7.88 | 6.25 | 5.12 | 3.66 | 2.79 | | |
| 28 | 0.63 | 1.18 | 2.20 | 4.11 | 5.03 | 6.81 | 8.54 | 12.7 | 15.9 | 12.3 | 8.80 | 6.99 | 5.72 | 4.09 | 3.11 | | |
| 30 | 0.68 | 1.27 | 2.38 | 4.43 | 5.42 | 7.33 | 9.20 | 13.7 | 17.2 | 13.6 | 9.76 | 7.75 | 6.34 | 4.54 | 3.45 | | |
| 32 | 0.73 | 1.36 | 2.55 | 4.75 | 5.81 | 7.86 | 9.86 | 14.7 | 18.4 | 15.0 | 10.8 | 8.64 | 6.99 | 5.00 | | | |
| 35 | 0.81 | 1.50 | 2.81 | 5.24 | 6.40 | 8.66 | 10.9 | 16.2 | 20.3 | 17.2 | 12.3 | 9.76 | 7.99 | 5.76 | | | |
| 40 | 0.93 | 1.74 | 3.24 | 6.05 | 7.39 | 10.0 | 12.5 | 18.7 | 23.4 | 21.0 | 15.0 | 11.9 | 9.76 | 6.99 | | | |
| 45 | 1.06 | 1.97 | 3.68 | 6.87 | 8.40 | 11.4 | 14.2 | 21.2 | 26.6 | 25.1 | 17.9 | 14.2 | 11.7 | | | | |
| Lubrication | Type A | | Type B | | | | | Type C | | | | | | | | | |

## 5/8" Pitch No. 50

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | 100 | 300 | 500 | 900 | 1200 | 1400 | 1800 | 2100 | 2400 | 2700 | 3000 | 3500 | 4000 | 4500 | 5000 | 5500 | 6000 |
| 11 | 0.45 | 0.84 | 2.25 | 3.57 | 6.06 | 7.85 | 8.13 | 5.58 | 4.42 | 3.62 | 3.04 | 2.59 | 2.06 | 1.68 | 1.41 | 1.20 | 1.04 | 0.92 |
| 12 | 0.49 | 0.92 | 2.47 | 3.92 | 6.65 | 8.62 | 9.26 | 6.35 | 5.04 | 4.13 | 3.46 | 2.95 | 2.34 | 1.92 | 1.61 | 1.37 | 1.19 | 1.04 |
| 13 | 0.54 | 1.00 | 2.70 | 4.27 | 7.25 | 9.40 | 10.4 | 7.16 | 5.69 | 4.65 | 3.90 | 3.33 | 2.64 | 3.16 | 1.81 | 1.55 | 1.34 | |
| 14 | 0.58 | 1.09 | 2.92 | 4.63 | 7.86 | 10.2 | 11.7 | 8.01 | 6.35 | 5.20 | 4.36 | 3.72 | 2.95 | 2.42 | 2.03 | 1.73 | 1.50 | |
| 15 | 0.73 | 1.17 | 3.15 | 4.99 | 8.47 | 11.0 | 12.6 | 8.88 | 7.05 | 5.77 | 4.83 | 4.13 | 3.27 | 2.68 | 2.25 | 1.92 | 1.66 | |
| 16 | 0.67 | 1.26 | 3.38 | 5.35 | 9.08 | 11.8 | 13.5 | 9.78 | 7.76 | 6.35 | 5.32 | 4.55 | 3.61 | 2.95 | 2.47 | 2.11 | 1.83 | |
| 17 | 0.72 | 1.34 | 3.61 | 5.71 | 9.69 | 12.6 | 14.4 | 10.7 | 8.50 | 6.96 | 5.83 | 4.98 | 3.95 | 3.23 | 2.71 | 2.31 | 2.01 | |
| 18 | 0.76 | 1.43 | 3.83 | 6.07 | 10.3 | 13.4 | 15.3 | 11.7 | 9.26 | 7.58 | 6.35 | 5.42 | 4.30 | 3.52 | 2.95 | 2.52 | | |
| 19 | 0.81 | 1.51 | 4.07 | 6.44 | 10.9 | 14.2 | 16.3 | 12.7 | 10.0 | 8.22 | 6.89 | 5.88 | 4.67 | 3.82 | 3.20 | 2.73 | | |
| 20 | 0.86 | 1.60 | 4.30 | 6.80 | 11.5 | 15.0 | 17.2 | 13.7 | 10.8 | 8.88 | 7.44 | 6.35 | 5.04 | 4.13 | 3.46 | 2.95 | | |
| 21 | 0.90 | 1.69 | 4.53 | 7.17 | 12.2 | 15.8 | 18.1 | 14.7 | 11.7 | 9.55 | 8.01 | 6.84 | 5.42 | 4.44 | 3.72 | 3.18 | | |
| 22 | 0.95 | 1.77 | 4.76 | 7.54 | 12.8 | 16.6 | 19.1 | 15.8 | 12.5 | 10.2 | 8.59 | 7.39 | 5.82 | 4.76 | 3.99 | 3.41 | | |
| 23 | 1.00 | 1.86 | 5.00 | 7.91 | 13.4 | 17.4 | 20.0 | 16.9 | 13.4 | 11.0 | 9.18 | 7.84 | 6.22 | 5.09 | 4.27 | | | |
| 24 | 1.04 | 1.95 | 5.23 | 8.29 | 14.1 | 18.2 | 20.9 | 18.0 | 14.3 | 11.7 | 9.78 | 8.35 | 6.33 | 5.42 | 4.55 | | | |
| 25 | 1.09 | 2.03 | 5.47 | 8.66 | 14.7 | 19.0 | 21.9 | 19.1 | 15.2 | 12.4 | 10.4 | 8.88 | 7.05 | 5.77 | 4.83 | | | |
| 26 | 1.14 | 2.12 | 5.70 | 9.03 | 15.3 | 19.9 | 22.8 | 20.3 | 16.1 | 13.2 | 11.0 | 9.42 | 7.47 | 6.12 | 5.13 | | | |
| 28 | 1.23 | 2.30 | 6.18 | 9.79 | 16.6 | 21.5 | 24.7 | 22.6 | 18.0 | 14.7 | 12.3 | 10.5 | 8.35 | 6.84 | 5.73 | | | |
| 30 | 1.33 | 2.49 | 6.66 | 10.5 | 17.9 | 23.2 | 26.6 | 25.1 | 19.9 | 16.3 | 13.7 | 11.7 | 9.26 | 7.58 | | | | |
| 32 | 1.42 | 2.66 | 7.14 | 11.3 | 19.2 | 24.9 | 28.6 | 27.7 | 22.0 | 18.0 | 15.1 | 12.9 | 10.2 | 8.35 | | | | |
| 35 | 1.57 | 2.93 | 7.86 | 12.5 | 21.1 | 27.4 | 31.5 | 31.6 | 25.1 | 20.6 | 17.2 | 14.7 | 11.7 | 9.55 | | | | |
| 40 | 1.81 | 3.38 | 9.08 | 14.4 | 24.4 | 31.6 | 36.3 | 38.7 | 30.7 | 25.1 | 21.0 | 18.0 | 14.3 | | | | | |
| 45 | 2.06 | 3.84 | 10.3 | 16.3 | 27.7 | 35.9 | 41.3 | 46.1 | 36.6 | 30.0 | 25.1 | 21.4 | | | | | | |
| Lubrication | Type A | | Type B | | Type C | | | | | | | | | | | | | |

**Type A** Manual Lubrication

**Type B** Bath or Disc Lubrication

**Type C** Oil Stream Lubrication

**Multiple Strand Factors**

| No. Strands | Strand Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.9 |
| 3 | 2.8 |
| 4 | 3.7 |

# Horsepower Ratings
# Single Strand Roller Chain

(For multiple strand ratings see chart on page E-189)

## 3/4" Pitch No. 60

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | 100 | 200 | 500 | 700 | 900 | 1200 | 1400 | 1600 | 1800 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 |
| 11 | 0.77 | 1.44 | 2.69 | 6.13 | 8.30 | 10.4 | 11.9 | 9.41 | 7.70 | 6.45 | 5.51 | 3.94 | 3.00 | 2.38 | 1.95 | 1.63 |
| 12 | 0.85 | 1.58 | 2.95 | 6.74 | 9.12 | 11.4 | 13.5 | 10.7 | 8.77 | 7.35 | 6.28 | 4.49 | 3.42 | 2.71 | 2.22 | 1.86 |
| 13 | 0.92 | 1.73 | 3.22 | 7.34 | 9.94 | 12.5 | 15.2 | 12.1 | 9.89 | 8.29 | 7.08 | 5.06 | 3.85 | 3.06 | 2.50 | |
| 14 | 1.00 | 1.87 | 3.49 | 7.96 | 10.8 | 13.5 | 17.0 | 13.5 | 11.1 | 9.26 | 7.91 | 5.66 | 4.31 | 3.42 | 2.80 | |
| 15 | 1.08 | 2.01 | 3.76 | 8.57 | 11.6 | 14.5 | 18.8 | 15.0 | 12.3 | 10.3 | 8.77 | 6.28 | 4.77 | 3.79 | 3.10 | |
| 16 | 1.16 | 2.16 | 4.03 | 9.19 | 12.4 | 15.6 | 20.2 | 16.5 | 13.5 | 11.3 | 9.66 | 9.61 | 5.26 | 4.17 | 3.42 | |
| 17 | 1.24 | 2.31 | 4.30 | 9.81 | 13.3 | 16.7 | 21.6 | 18.1 | 14.8 | 12.4 | 10.6 | 7.57 | 5.76 | 4.57 | 3.74 | |
| 18 | 1.31 | 2.45 | 4.58 | 10.4 | 14.1 | 17.7 | 22.9 | 19.7 | 16.1 | 13.5 | 11.5 | 8.25 | 6.28 | 4.98 | 4.08 | |
| 19 | 1.39 | 2.60 | 4.85 | 11.1 | 15.0 | 18.8 | 24.3 | 21.4 | 17.5 | 14.6 | 12.5 | 8.95 | 6.81 | 5.40 | 4.42 | |
| 20 | 1.47 | 2.75 | 5.13 | 11.7 | 15.8 | 19.8 | 25.7 | 23.1 | 18.9 | 15.8 | 13.5 | 9.66 | 7.35 | 5.83 | | |
| 21 | 1.55 | 2.90 | 5.40 | 12.3 | 16.7 | 20.9 | 27.1 | 24.8 | 20.3 | 17.0 | 14.5 | 10.4 | 7.91 | 6.28 | | |
| 22 | 1.63 | 3.05 | 5.68 | 13.0 | 17.5 | 22.0 | 28.5 | 26.6 | 21.8 | 18.2 | 15.6 | 11.1 | 8.48 | 6.73 | | |
| 23 | 1.71 | 3.19 | 5.96 | 13.6 | 18.4 | 23.1 | 29.9 | 28.4 | 23.3 | 19.5 | 16.7 | 11.9 | 9.07 | 7.19 | | |
| 24 | 1.79 | 3.35 | 6.24 | 14.2 | 19.3 | 24.1 | 31.3 | 30.3 | 24.8 | 20.8 | 17.8 | 12.7 | 9.66 | 7.67 | | |
| 25 | 1.87 | 3.50 | 6.52 | 14.9 | 20.1 | 25.3 | 32.7 | 32.2 | 26.4 | 22.1 | 18.9 | 13.5 | 10.3 | 8.15 | | |
| 26 | 1.95 | 3.65 | 6.81 | 15.5 | 21.0 | 26.4 | 34.1 | 34.2 | 28.0 | 23.4 | 20.0 | 14.3 | 10.9 | 8.65 | | |
| 28 | 2.12 | 3.95 | 7.37 | 16.8 | 22.8 | 28.5 | 37.0 | 38.2 | 31.3 | 26.2 | 22.4 | 16.0 | 12.2 | | | |
| 30 | 2.28 | 4.26 | 7.94 | 18.1 | 24.5 | 30.8 | 39.8 | 42.4 | 34.7 | 29.1 | 24.8 | 17.8 | 13.5 | | | |
| 32 | 2.45 | 4.56 | 8.52 | 19.4 | 26.3 | 33.0 | 42.7 | 46.7 | 38.2 | 32.0 | 27.3 | 19.6 | 14.9 | | | |
| 35 | 2.69 | 5.03 | 9.38 | 21.4 | 29.0 | 36.3 | 47.1 | 53.4 | 43.7 | 36.6 | 31.3 | 22.4 | 17.0 | | | |
| 40 | 3.11 | 5.81 | 10.8 | 23.7 | 33.5 | 42.0 | 54.4 | 62.5 | 53.4 | 44.7 | 38.2 | 27.3 | | | | |
| 45 | 3.53 | 6.60 | 12.3 | 28.1 | 38.0 | 47.7 | 61.7 | 70.9 | 63.7 | 53.4 | 45.6 | 32.6 | | | | |
| Lubrication | Type A | Type B | | | Type C | | | | | | | | | | | |

## 1" Pitch No. 80

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | 50 | 100 | 200 | 300 | 400 | 500 | 700 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2700 | 3000 | 3400 |
| 11 | 0.97 | 1.80 | 3.36 | 6.28 | 9.04 | 11.7 | 14.3 | 19.4 | 23.0 | 19.6 | 14.9 | 11.8 | 9.69 | 8.12 | 6.93 | 6.01 | 5.27 | 4.42 | 3.77 | 1.70 |
| 12 | 1.06 | 1.98 | 3.69 | 6.89 | 9.93 | 12.9 | 15.7 | 21.3 | 26.2 | 22.3 | 17.0 | 13.5 | 11.0 | 9.25 | 7.90 | 6.85 | 6.01 | 5.04 | 4.30 | |
| 13 | 1.16 | 2.16 | 4.03 | 7.52 | 10.8 | 14.0 | 17.1 | 23.2 | 29.1 | 25.2 | 19.2 | 15.2 | 12.5 | 10.4 | 8.91 | 7.72 | 6.78 | 5.68 | 4.85 | |
| 14 | 1.25 | 2.34 | 4.36 | 8.14 | 11.7 | 15.2 | 18.6 | 25.1 | 31.5 | 28.2 | 21.4 | 17.0 | 13.9 | 11.7 | 9.96 | 6.83 | 7.57 | 6.35 | 5.42 | |
| 15 | 1.35 | 2.52 | 4.70 | 8.77 | 12.6 | 16.4 | 20.0 | 27.1 | 34.0 | 31.2 | 23.8 | 18.9 | 15.4 | 12.9 | 11.0 | 9.57 | 8.40 | 7.04 | 6.01 | |
| 16 | 1.45 | 2.70 | 5.04 | 9.41 | 13.5 | 17.6 | 21.5 | 29.0 | 36.4 | 34.4 | 26.2 | 20.8 | 17.0 | 14.2 | 12.2 | 10.5 | 9.25 | 7.76 | 6.62 | |
| 17 | 1.55 | 2.88 | 5.38 | 10.0 | 14.5 | 18.7 | 22.9 | 31.0 | 38.9 | 37.7 | 28.7 | 22.7 | 18.6 | 15.6 | 13.3 | 11.5 | 10.1 | 8.49 | 7.25 | |
| 18 | 1.64 | 3.07 | 5.72 | 10.7 | 15.4 | 19.9 | 24.4 | 33.0 | 41.4 | 41.1 | 31.2 | 24.8 | 20.3 | 17.0 | 14.5 | 12.6 | 11.0 | 9.25 | 7.90 | |
| 19 | 1.74 | 3.25 | 6.07 | 11.3 | 16.3 | 21.1 | 25.8 | 35.0 | 43.8 | 44.5 | 33.9 | 26.9 | 22.0 | 18.4 | 15.7 | 13.6 | 12.0 | 10.0 | 8.57 | |
| 20 | 1.84 | 3.44 | 6.41 | 12.0 | 17.2 | 22.3 | 27.3 | 37.0 | 46.3 | 48.1 | 36.6 | 29.0 | 23.8 | 19.9 | 17.0 | 14.7 | 12.9 | 10.8 | | |
| 21 | 1.94 | 3.62 | 6.76 | 12.6 | 18.2 | 23.5 | 28.8 | 39.0 | 48.9 | 51.7 | 39.4 | 31.2 | 25.6 | 21.4 | 18.3 | 15.9 | 13.9 | 11.7 | | |
| 22 | 2.04 | 3.81 | 7.11 | 13.3 | 19.1 | 24.8 | 30.3 | 41.0 | 51.4 | 55.5 | 42.2 | 33.5 | 27.4 | 23.0 | 19.6 | 17.0 | 14.9 | 12.5 | | |
| 23 | 2.14 | 4.00 | 7.46 | 13.9 | 20.1 | 26.0 | 31.8 | 43.0 | 53.9 | 59.3 | 45.1 | 35.8 | 29.3 | 24.6 | 21.0 | 18.2 | 15.9 | 13.4 | | |
| 24 | 2.24 | 4.19 | 7.81 | 14.6 | 21.0 | 27.2 | 33.2 | 45.0 | 56.4 | 62.0 | 48.1 | 38.2 | 31.2 | 26.2 | 22.3 | 19.4 | 17.0 | 14.2 | | |
| 25 | 2.34 | 4.37 | 8.16 | 15.2 | 21.9 | 28.4 | 34.7 | 47.0 | 59.0 | 64.8 | 51.1 | 40.6 | 33.2 | 27.8 | 23.8 | 20.6 | 18.1 | 15.1 | | |
| 26 | 2.45 | 4.56 | 8.52 | 15.9 | 22.9 | 29.7 | 36.2 | 49.1 | 61.5 | 67.6 | 54.2 | 43.0 | 35.2 | 29.5 | 25.2 | 21.8 | 19.2 | 16.1 | | |
| 28 | 2.65 | 4.94 | 9.23 | 17.2 | 24.8 | 32.1 | 39.3 | 53.2 | 66.7 | 73.3 | 60.6 | 48.1 | 39.4 | 33.0 | 28.2 | 24.4 | 21.4 | | | |
| 30 | 2.85 | 5.33 | 9.94 | 18.5 | 26.7 | 34.6 | 42.3 | 57.3 | 71.8 | 78.9 | 67.2 | 53.3 | 43.6 | 36.6 | 31.2 | 27.1 | 23.8 | | | |
| 32 | 3.06 | 5.71 | 10.7 | 19.9 | 28.6 | 37.1 | 45.4 | 61.4 | 77.0 | 84.6 | 74.0 | 58.7 | 48.1 | 40.3 | 34.4 | 29.8 | 26.2 | | | |
| 35 | 3.37 | 6.29 | 11.7 | 21.9 | 31.6 | 40.9 | 50.0 | 67.6 | 84.8 | 93.3 | 84.7 | 67.2 | 55.0 | 46.1 | 39.4 | 34.1 | | | | |
| 40 | 3.89 | 7.27 | 13.6 | 25.3 | 36.4 | 47.2 | 57.7 | 78.1 | 98.0 | 108 | 103 | 82.1 | 67.2 | 56.3 | 48.1 | 20.0 | | | | |
| 45 | 4.42 | 8.25 | 15.4 | 28.7 | 41.4 | 53.6 | 65.6 | 88.7 | 111 | 122 | 123 | 98.0 | 80.2 | 67.2 | 54.1 | | | | | |
| Lubrication | Type A | Type B | | | Type C | | | | | | | | | | | | | | | |

## 1 1/4" Pitch No. 100

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 | 25 | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 |
| 11 | 0.81 | 1.85 | 3.45 | 6.44 | 12.0 | 17.3 | 22.4 | 27.4 | 32.3 | 37.1 | 32.8 | 27.5 | 23.4 | 20.3 | 17.8 | 15.8 | 14.2 | 11.6 | 9.71 | 8.29 | 7.19 | 6.31 | 1.29 |
| 12 | 0.89 | 2.03 | 3.79 | 7.08 | 13.2 | 19.0 | 24.6 | 30.1 | 35.5 | 40.8 | 37.3 | 31.3 | 26.7 | 23.2 | 20.3 | 18.0 | 16.1 | 13.2 | 11.1 | 9.45 | 8.19 | 7.19 | |
| 13 | 0.97 | 2.22 | 4.13 | 7.72 | 14.4 | 20.7 | 26.9 | 32.8 | 38.7 | 44.5 | 42.1 | 35.3 | 30.1 | 26.1 | 22.9 | 20.3 | 18.2 | 14.9 | 12.5 | 10.6 | 9.23 | 8.10 | |
| 14 | 1.05 | 2.40 | 4.48 | 8.36 | 15.6 | 22.5 | 29.1 | 35.6 | 41.9 | 48.2 | 47.0 | 39.4 | 33.7 | 29.2 | 25.6 | 22.7 | 20.3 | 16.6 | 13.9 | 11.9 | 10.3 | 9.06 | |
| 15 | 1.13 | 2.59 | 4.83 | 9.01 | 16.8 | 24.2 | 31.4 | 38.3 | 45.2 | 51.9 | 52.2 | 43.7 | 37.3 | 32.4 | 28.4 | 25.2 | 22.5 | 18.4 | 15.5 | 13.2 | 11.4 | 10.0 | |
| 16 | 1.22 | 2.77 | 5.17 | 9.66 | 18.0 | 26.0 | 33.6 | 41.1 | 48.4 | 55.6 | 57.5 | 48.2 | 41.1 | 35.7 | 31.3 | 27.7 | 24.8 | 20.3 | 17.0 | 14.5 | 12.8 | 11.1 | |
| 17 | 1.30 | 2.96 | 5.52 | 10.3 | 19.2 | 27.7 | 35.9 | 43.9 | 51.7 | 59.4 | 63.0 | 52.8 | 45.0 | 39.0 | 34.3 | 30.4 | 27.2 | 22.3 | 18.7 | 15.9 | 13.8 | 0.79 | |
| 18 | 1.38 | 3.15 | 5.88 | 11.0 | 20.5 | 29.5 | 38.2 | 46.7 | 55.0 | 63.2 | 68.6 | 57.5 | 49.1 | 42.5 | 37.3 | 33.1 | 29.6 | 24.2 | 20.3 | 17.4 | 15.0 | | |
| 19 | 1.46 | 3.34 | 6.23 | 11.6 | 21.7 | 31.2 | 40.5 | 49.5 | 58.3 | 67.0 | 74.4 | 62.3 | 53.2 | 46.1 | 40.5 | 35.9 | 32.1 | 26.3 | 22.0 | 18.8 | 16.3 | | |
| 20 | 1.55 | 3.53 | 6.58 | 12.3 | 22.9 | 33.0 | 42.8 | 52.3 | 61.6 | 70.8 | 79.8 | 67.3 | 57.5 | 49.8 | 43.7 | 38.8 | 34.7 | 28.4 | 23.8 | 20.3 | 17.6 | | |
| 21 | 1.63 | 3.72 | 6.94 | 13.0 | 24.2 | 34.8 | 45.1 | 55.1 | 65.0 | 74.6 | 84.2 | 72.4 | 61.8 | 53.6 | 47.0 | 41.7 | 37.3 | 30.6 | 25.6 | 21.9 | 19.0 | | |
| 22 | 1.71 | 3.91 | 7.30 | 13.6 | 25.4 | 36.6 | 47.4 | 58.0 | 68.3 | 78.5 | 88.5 | 77.7 | 66.3 | 57.5 | 50.4 | 44.7 | 40.0 | 32.8 | 27.5 | 23.4 | 20.3 | | |
| 23 | 1.60 | 4.10 | 7.66 | 14.3 | 26.7 | 38.4 | 49.8 | 60.8 | 71.7 | 82.3 | 92.8 | 83.0 | 70.9 | 61.4 | 53.9 | 47.8 | 42.8 | 35.0 | 29.4 | 25.1 | 7.74 | | |
| 24 | 1.88 | 4.30 | 8.02 | 15.0 | 27.9 | 40.2 | 52.1 | 63.7 | 75.0 | 86.2 | 97.2 | 88.5 | 75.6 | 65.5 | 57.5 | 51.0 | 45.6 | 37.3 | 31.3 | 26.7 | | | |
| 25 | 1.97 | 4.49 | 8.38 | 15.6 | 29.2 | 42.0 | 54.4 | 66.6 | 78.4 | 90.1 | 102 | 94.1 | 80.3 | 69.6 | 61.1 | 54.2 | 48.5 | 39.7 | 33.3 | 28.4 | | | |
| 26 | 2.05 | 4.68 | 8.74 | 16.3 | 30.4 | 43.8 | 56.8 | 69.4 | 81.8 | 94.0 | 106 | 99.8 | 85.2 | 73.8 | 64.8 | 57.5 | 51.4 | 42.1 | 35.3 | 30.1 | | | |
| 28 | 2.22 | 5.07 | 9.47 | 17.7 | 33.0 | 47.5 | 61.5 | 75.2 | 88.6 | 102 | 115 | 112 | 95.2 | 82.5 | 72.4 | 64.2 | 57.5 | 47.0 | 39.4 | 33.7 | | | |
| 30 | 2.40 | 5.47 | 10.2 | 19.0 | 35.5 | 51.2 | 66.3 | 81.0 | 95.5 | 110 | 124 | 124 | 106 | 91.5 | 80.3 | 7.12 | 63.7 | 52.2 | 43.7 | 10.0 | | | |
| 32 | 2.57 | 5.86 | 10.9 | 20.4 | 38.1 | 54.9 | 71.1 | 86.9 | 102 | 118 | 133 | 136 | 116 | 101 | 88.5 | 78.5 | 70.2 | 57.5 | 48.2 | | | | |
| 35 | 2.83 | 6.46 | 12.0 | 22.5 | 42.0 | 60.4 | 78.3 | 95.7 | 113 | 130 | 146 | 156 | 133 | 115 | 101 | 89.8 | 80.3 | 65.8 | 55.1 | | | | |
| 40 | 3.27 | 7.46 | 13.9 | 26.0 | 48.5 | 69.8 | 90.4 | 111 | 130 | 150 | 169 | 188 | 163 | 141 | 124 | 110 | 98.1 | 80.3 | | | | | |
| 45 | 3.71 | 8.47 | 15.8 | 29.5 | 55.0 | 79.3 | 103 | 126 | 148 | 170 | 192 | 213 | 194 | 168 | 148 | 131 | 117 | 45.3 | | | | | |
| Lubrication | Type A | | Type B | | | Type C | | | | | | | | | | | | | | | | | |

# Horsepower Ratings
# Single Strand Roller Chain

**For Multiple Strand Ratings See Chart at Bottom**

## 1 1/2" Pitch No. 120

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 | 25 | 50 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 |
| 11 | 1.37 | 3.12 | 5.83 | 10.9 | 15.7 | 20.3 | 29.2 | 37.9 | 46.3 | 54.6 | 46.3 | 37.9 | 31.8 | 27.1 | 23.5 | 20.6 | 18.3 | 16.4 | 13.8 | 14.4 | 12.2 | 11.2 | 10.4 | 9.59 | |
| 12 | 1.50 | 3.43 | 6.40 | 11.9 | 17.2 | 22.3 | 32.1 | 41.6 | 50.9 | 59.9 | 52.8 | 43.2 | 36.2 | 30.9 | 26.8 | 23.5 | 20.9 | 18.7 | 16.8 | 15.3 | 13.9 | 12.8 | 11.8 | 10.9 | |
| 13 | 1.64 | 3.74 | 6.98 | 13 | 18.8 | 24.3 | 35.0 | 45.4 | 55.5 | 65.3 | 59.5 | 48.7 | 40.8 | 34.9 | 30.2 | 26.5 | 23.5 | 21.0 | 19.0 | 17.2 | 15.7 | 14.4 | 13.3 | 12.3 | |
| 14 | 1.78 | 4.05 | 7.56 | 14.1 | 20.3 | 26.3 | 37.9 | 49.1 | 60.1 | 70.8 | 66.5 | 54.4 | 45.6 | 39.0 | 33.8 | 29.6 | 26.3 | 23.5 | 21.2 | 19.2 | 17.6 | 16.1 | 14.9 | 8.94 | |
| 15 | 1.91 | 4.37 | 8.15 | 15.2 | 21.9 | 28.4 | 40.9 | 53.0 | 64.7 | 76.3 | 73.8 | 60.4 | 50.6 | 43.2 | 37.4 | 32.9 | 29.1 | 26.1 | 23.5 | 21.3 | 19.5 | 17.0 | 16.5 | | |
| 16 | 2.05 | 4.68 | 8.74 | 16.3 | 23.5 | 30.4 | 43.8 | 56.8 | 69.4 | 81.8 | 81.3 | 66.5 | 55.7 | 47.6 | 41.2 | 36.2 | 32.1 | 28.7 | 25.9 | 23.5 | 21.5 | 19.7 | 18.2 | | |
| 17 | 2.19 | 5.00 | 9.33 | 17.4 | 25.1 | 32.5 | 46.8 | 60.6 | 74.1 | 87.3 | 89.0 | 72.8 | 61.0 | 52.1 | 45.2 | 39.6 | 35.2 | 31.5 | 28.4 | 25.8 | 23.5 | 21.6 | 19.9 | | |
| 18 | 2.33 | 5.32 | 9.92 | 18.5 | 26.7 | 34.6 | 49.8 | 64.5 | 78.8 | 92.9 | 97.0 | 79.4 | 66.5 | 56.8 | 49.2 | 43.2 | 38.3 | 34.3 | 30.9 | 28.1 | 25.6 | 23.5 | 11.3 | | |
| 19 | 2.47 | 5.64 | 10.5 | 19.6 | 28.3 | 36.6 | 52.8 | 68.4 | 83.6 | 98.5 | 105 | 86.1 | 72.1 | 61.6 | 53.4 | 46.8 | 41.5 | 37.2 | 33.5 | 30.4 | 27.8 | 25.5 | | | |
| 20 | 2.61 | 5.96 | 11.1 | 20.7 | 29.9 | 38.7 | 55.8 | 72.2 | 88.3 | 104 | 114 | 92.9 | 77.9 | 66.5 | 57.6 | 50.6 | 44.9 | 40.1 | 36.2 | 32.9 | 30.0 | 27.5 | | | |
| 21 | 2.75 | 6.28 | 11.7 | 21.9 | 31.5 | 40.8 | 58.8 | 76.2 | 98.1 | 110 | 122 | 100 | 83.8 | 71.6 | 62.0 | 54.4 | 48.3 | 43.2 | 39.0 | 35.4 | 32.3 | 29.6 | | | |
| 22 | 2.90 | 6.6 | 12.3 | 23.0 | 33.1 | 42.9 | 61.8 | 80.1 | 97.9 | 115 | 131 | 107 | 89.9 | 76.7 | 66.5 | 58.4 | 51.8 | 46.3 | 41.8 | 37.9 | 34.6 | 16.6 | | | |
| 23 | 3.04 | 6.93 | 12.9 | 24.1 | 34.8 | 45.0 | 64.9 | 84.0 | 103 | 121 | 139 | 115 | 96.1 | 82.0 | 71.1 | 62.4 | 55.3 | 49.5 | 44.6 | 40.5 | 37.0 | | | | |
| 24 | 3.18 | 7.25 | 13.5 | 25.3 | 36.4 | 47.1 | 67.9 | 88.0 | 108 | 127 | 146 | 122 | 102 | 87.4 | 75.8 | 66.5 | 59.0 | 52.8 | 47.6 | 43.2 | 39.4 | | | | |
| 25 | 3.32 | 7.58 | 14.1 | 26.4 | 38 | 49.3 | 71.0 | 91.9 | 112 | 132 | 152 | 130 | 109 | 92.9 | 80.6 | 70.7 | 62.7 | 56.1 | 50.6 | 45.9 | 41.3 | | | | |
| 26 | 3.47 | 7.91 | 14.8 | 27.5 | 39.7 | 51.4 | 74.0 | 95.9 | 117 | 138 | 159 | 138 | 115 | 98.6 | 85.4 | 75.0 | 66.5 | 59.5 | 53.7 | 48.7 | 26.6 | | | | |
| 28 | 3.76 | 8.57 | 16.0 | 29.8 | 43 | 55.7 | 80.2 | 104 | 127 | 150 | 172 | 154 | 129 | 110 | 95.5 | 83.8 | 74.3 | 66.5 | 60.0 | 54.4 | | | | | |
| 30 | 4.05 | 9.23 | 17.2 | 32.1 | 46.3 | 60.0 | 86.4 | 112 | 137 | 161 | 185 | 171 | 143 | 122 | 106 | 92.9 | 82.4 | 73.8 | 66.5 | 42.4 | | | | | |
| 32 | 4.34 | 9.9 | 18.5 | 34.5 | 49.6 | 64.3 | 92.6 | 120 | 147 | 173 | 199 | 188 | 158 | 135 | 117 | 102 | 90.8 | 81.3 | 73.3 | | | | | | |
| 35 | 4.78 | 10.9 | 20.3 | 38.0 | 54.7 | 70.9 | 102 | 132 | 162 | 190 | 219 | 215 | 180 | 154 | 133 | 117 | 104 | 92.9 | 47.7 | | | | | | |
| 50 | 5.52 | 12.6 | 23.5 | 43.9 | 63.2 | 81.8 | 118 | 153 | 187 | 220 | 253 | 263 | 220 | 188 | 163 | 143 | 127 | 59.5 | | | | | | | |
| 45 | 6.27 | 14.3 | 26.7 | 49.8 | 71.7 | 92.9 | 134 | 173 | 212 | 250 | 287 | 314 | 263 | 224 | 195 | 171 | 80 | | | | | | | | |
| Lubrication | Type A | Type B | | | | | Type C | | | | | | | | | | | | | | | | | | |

## 1 3/4" Pitch No. 140

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 | 25 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 |
| 11 | 2.12 | 4.83 | 9.02 | 16.8 | 24.2 | 31.4 | 38.4 | 45.2 | 52 | 58.6 | 65.2 | 71.6 | 75.2 | 66.0 | 52.4 | 42.9 | 35.9 | 30.7 | 26.6 | 23.3 | 20.7 | 18.5 | 16.7 | 15.2 | |
| 12 | 2.33 | 5.31 | 9.91 | 18.5 | 26.6 | 34.5 | 42.2 | 49.7 | 57.1 | 64.4 | 71.6 | 78.7 | 85.7 | 75.2 | 59.7 | 48.9 | 41.0 | 35.0 | 30.3 | 26.6 | 23.6 | 21.1 | 19.0 | 17.3 | |
| 13 | 2.54 | 5.79 | 10.8 | 20.2 | 29.0 | 37.6 | 46.0 | 54.2 | 62.2 | 70.2 | 78.0 | 85.8 | 93.5 | 84.8 | 67.3 | 55.1 | 46.2 | 39.4 | 34.2 | 30.0 | 26.5 | 23.8 | 21.5 | 19.5 | |
| 14 | 2.75 | 6.27 | 11.7 | 21.8 | 31.5 | 40.8 | 49.8 | 58.7 | 67.4 | 76.0 | 84.5 | 93.0 | 101 | 94.8 | 75.2 | 61.6 | 51.6 | 44.1 | 38.2 | 33.5 | 29.7 | 26.6 | 24.0 | 21.8 | |
| 15 | 2.96 | 6.76 | 12.6 | 23.5 | 33.9 | 43.9 | 53.7 | 63.2 | 72.7 | 81.9 | 91.1 | 100 | 109 | 10.5 | 83.4 | 68.3 | 57.2 | 48.9 | 42.4 | 37.2 | 33.0 | 29.5 | 26.6 | | |
| 16 | 3.18 | 7.24 | 13.5 | 25.2 | 36.3 | 47.1 | 57.5 | 67.8 | 77.9 | 87.8 | 97.7 | 107 | 117 | 116 | 91.9 | 75.2 | 63.1 | 53.8 | 46.7 | 41.0 | 36.3 | 32.5 | 29.3 | | |
| 17 | 3.39 | 7.73 | 14.4 | 26.9 | 38.8 | 50.3 | 61.4 | 72.4 | 83.2 | 93.8 | 104 | 115 | 125 | 127 | 101 | 82.4 | 69.1 | 59.0 | 51.1 | 44.9 | 39.8 | 35.6 | 32.1 | | |
| 18 | 3.61 | 8.23 | 15.4 | 28.6 | 41.3 | 53.5 | 65.3 | 77.0 | 88.5 | 99.8 | 111 | 122 | 133 | 138 | 110 | 89.8 | 75.2 | 64.2 | 55.7 | 48.9 | 43.3 | 38.8 | 35.0 | | |
| 19 | 3.82 | 8.72 | 16.3 | 30.4 | 43.7 | 56.7 | 60.3 | 81.6 | 93.8 | 106 | 118 | 129 | 141 | 150 | 119 | 97.4 | 81.6 | 69.7 | 50.4 | 53.0 | 47.0 | 42.1 | 37.9 | | |
| 20 | 4.04 | 9.22 | 17.2 | 32.1 | 46.2 | 59.9 | 73.2 | 86.3 | 99.1 | 112 | 124 | 137 | 149 | 161 | 128 | 105 | 88.1 | 75.2 | 65.2 | 57.2 | 50.8 | 45.4 | | | |
| 21 | 4.26 | 9.72 | 18.1 | 33.8 | 48.7 | 63.1 | 77.2 | 91.0 | 104 | 118 | 131 | 144 | 157 | 170 | 138 | 113 | 94.8 | 80.9 | 70.2 | 61.6 | 54.6 | 48.9 | | | |
| 22 | 4.48 | 10.2 | 19.1 | 35.6 | 51.3 | 66.4 | 81.2 | 95.6 | 110 | 124 | 138 | 151 | 165 | 178 | 148 | 121 | 102 | 86.8 | 75.2 | 66.0 | 58.6 | 52.4 | | | |
| 23 | 4.70 | 10.7 | 20 | 37.3 | 53.8 | 69.7 | 85.2 | 100 | 115 | 130 | 145 | 159 | 173 | 187 | 158 | 130 | 109 | 92.8 | 80.4 | 70.6 | 62.6 | 56.0 | | | |
| 24 | 4.92 | 11.2 | 20.9 | 39.1 | 56.3 | 72.9 | 89.2 | 105 | 121 | 136 | 151 | 166 | 181 | 196 | 169 | 138 | 116 | 98.9 | 85.7 | 75.2 | 66.7 | 59.7 | | | |
| 25 | 5.14 | 11.7 | 21.9 | 40.8 | 58.8 | 76.2 | 93.2 | 110 | 126 | 142 | 158 | 174 | 189 | 205 | 180 | 147 | 123 | 105 | 91.1 | 80.0 | 70.9 | 63.5 | | | |
| 26 | 5.37 | 12.2 | 22.8 | 42.6 | 61.4 | 79.5 | 97.2 | 115 | 132 | 148 | 165 | 181 | 198 | 214 | 190 | 156 | 131 | 112 | 96.7 | 84.8 | 75.2 | | | | |
| 28 | 5.81 | 13.3 | 24.7 | 46.2 | 66.5 | 86.2 | 105 | 124 | 143 | 161 | 179 | 197 | 214 | 232 | 213 | 174 | 146 | 125 | 108 | 94.8 | 84.1 | | | | |
| 30 | 6.26 | 14.3 | 26.7 | 49.7 | 71.6 | 92.8 | 113 | 134 | 154 | 173 | 193 | 212 | 231 | 249 | 236 | 193 | 162 | 138 | 120 | 105 | 93.2 | | | | |
| 32 | 6.71 | 15.3 | 28.6 | 53.3 | 76.8 | 99.5 | 122 | 143 | 165 | 186 | 206 | 227 | 247 | 267 | 260 | 213 | 178 | 152 | 132 | 116 | | | | | |
| 35 | 7.40 | 16.9 | 31.5 | 58.7 | 84.6 | 110 | 134 | 158 | 181 | 205 | 227 | 250 | 272 | 295 | 297 | 243 | 204 | 174 | 151 | 130 | | | | | |
| 40 | 8.54 | 19.5 | 36.4 | 67.9 | 97.7 | 127 | 155 | 182 | 210 | 236 | 263 | 289 | 315 | 340 | 363 | 297 | 249 | 213 | 178 | | | | | | |
| 45 | 9.70 | 22.1 | 41.3 | 77.1 | 111 | 144 | 176 | 207 | 238 | 268 | 298 | 328 | 357 | 387 | 434 | 355 | 297 | 237 | 92.7 | | | | | | |
| Lubrication | Type A | Type B | | | | Type C | | | | | | | | | | | | | | | | | | | |

**Type A** Manual Lubrication

**Type B** Bath or Disc Lubrication

**Type C** Oil Stream Lubrication

**Multiple Strand Factors**

| No. Strands | Strand Factor |
|---|---|
| 1 | 1.0 |
| 2 | 1.9 |
| 3 | 2.8 |
| 4 | 3.7 |

# Horsepower Ratings
# Single Strand Roller Chain

(For multiple strand ratings see chart on page E-191)

## 2" Pitch No. 160

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 | 25 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 1000 | 1100 | 1200 | 1300 |
| 11 | 3.07 | 7.01 | 13.1 | 24.4 | 35.2 | 45.6 | 55.7 | 65.6 | 75.4 | 85.0 | 94.5 | 96.6 | 83.7 | 73.5 | 65.2 | 58.3 | 52.6 | 47.7 | 43.6 | 40.0 | 34.1 | 29.6 | 26.0 | 23.0 |
| 12 | 3.38 | 7.70 | 14.4 | 26.8 | 38.6 | 50.1 | 61.2 | 72.1 | 82.8 | 93.4 | 104 | 110 | 95.4 | 83.7 | 74.2 | 66.4 | 59.9 | 54.4 | 49.6 | 45.6 | 38.9 | 33.7 | 29.6 | 26.3 |
| 13 | 3.68 | 8.40 | 15.7 | 29.2 | 42.1 | 54.6 | 66.7 | 78.6 | 90.3 | 102 | 113 | 124 | 108 | 94.4 | 83.7 | 74.9 | 67.5 | 61.3 | 56.0 | 51.4 | 43.9 | 38.0 | 33.4 | 29.6 |
| 14 | 3.99 | 9.10 | 17.0 | 31.7 | 45.6 | 59.1 | 72.3 | 85.2 | 97.8 | 110 | 123 | 135 | 120 | 105 | 93.6 | 83.7 | 75.5 | 68.5 | 62.6 | 57.4 | 49.0 | 42.5 | 37.3 | 33.1 |
| 15 | 4.30 | 9.80 | 18.3 | 34.1 | 49.2 | 63.7 | 77.9 | 91.7 | 105 | 119 | 132 | 145 | 133 | 117 | 104 | 92.8 | 83.7 | 76.0 | 69.4 | 63.7 | 45.4 | 47.1 | 41.4 | |
| 16 | 4.61 | 10.5 | 19.6 | 36.6 | 52.7 | 68.3 | 83.5 | 98.4 | 113 | 127 | 142 | 156 | 147 | 129 | 114 | 102 | 92.2 | 83.7 | 76.4 | 70.2 | 59.9 | 51.9 | 45.6 | |
| 17 | 4.92 | 11.2 | 20.9 | 39.1 | 56.3 | 72.9 | 89.1 | 105 | 121 | 136 | 151 | 166 | 161 | 141 | 125 | 112 | 101 | 91.7 | 83.7 | 75.8 | 65.6 | 56.9 | 49.9 | |
| 18 | 5.23 | 11.9 | 22.3 | 41.6 | 59.9 | 77.6 | 94.8 | 112 | 128 | 145 | 161 | 177 | 175 | 154 | 136 | 122 | 110 | 99.9 | 91.2 | 83.7 | 71.5 | 62.0 | 54.4 | |
| 19 | 5.55 | 12.7 | 23.6 | 44.1 | 63.5 | 82.2 | 101 | 118 | 136 | 153 | 171 | 188 | 190 | 167 | 148 | 132 | 119 | 108 | 98.9 | 90.8 | 77.6 | 67.2 | 59.0 | |
| 20 | 5.86 | 13.4 | 25.0 | 46.6 | 67.1 | 86.9 | 106 | 125 | 144 | 162 | 180 | 198 | 205 | 180 | 160 | 143 | 129 | 117 | 93.1 | 83.7 | 72.6 | 63.7 | | |
| 21 | 6.18 | 14.1 | 26.3 | 49.1 | 70.7 | 91.6 | 112 | 132 | 152 | 171 | 190 | 209 | 221 | 194 | 172 | 154 | 139 | 126 | 115 | 105 | 90.1 | 78.1 | 68.5 | |
| 22 | 6.50 | 14.8 | 27.7 | 51.6 | 74.4 | 96.3 | 118 | 139 | 159 | 180 | 200 | 220 | 237 | 208 | 184 | 165 | 149 | 135 | 123 | 113 | 96.6 | 83.7 | | |
| 23 | 6.82 | 15.6 | 29.0 | 54.2 | 78.0 | 101 | 124 | 146 | 167 | 189 | 210 | 231 | 251 | 222 | 197 | 176 | 159 | 144 | 132 | 121 | 103 | 98.5 | | |
| 24 | 7.14 | 16.3 | 30.4 | 56.7 | 81.7 | 106 | 129 | 152 | 175 | 197 | 220 | 241 | 263 | 237 | 210 | 188 | 169 | 154 | 140 | 129 | 110 | 95.4 | | |
| 25 | 7.46 | 17.0 | 31.8 | 59.3 | 85.4 | 111 | 135 | 159 | 183 | 206 | 229 | 252 | 275 | 252 | 223 | 200 | 180 | 164 | 149 | 137 | 117 | 101 | | |
| 26 | 7.78 | 17.8 | 33.1 | 61.8 | 89.1 | 115 | 141 | 166 | 191 | 215 | 239 | 263 | 287 | 267 | 237 | 212 | 191 | 173 | 158 | 145 | 124 | 108 | | |
| 28 | 8.43 | 19.2 | 35.9 | 67.0 | 96.5 | 125 | 153 | 180 | 207 | 233 | 259 | 285 | 311 | 298 | 265 | 237 | 214 | 194 | 177 | 162 | 139 | 120 | | |
| 30 | 9.08 | 20.7 | 38.7 | 72.2 | 104 | 135 | 165 | 194 | 223 | 251 | 279 | 307 | 335 | 331 | 293 | 263 | 237 | 215 | 196 | 180 | 154 | | | |
| 32 | 9.74 | 22.2 | 41.5 | 77.4 | 111 | 144 | 176 | 208 | 239 | 269 | 300 | 329 | 359 | 365 | 323 | 289 | 261 | 237 | 216 | 198 | 169 | | | |
| 35 | 10.7 | 24.5 | 45.7 | 85.2 | 123 | 159 | 194 | 229 | 263 | 297 | 330 | 363 | 395 | 417 | 370 | 331 | 298 | 271 | 247 | 227 | 180 | | | |
| 40 | 12.4 | 28.3 | 52.8 | 98.5 | 142 | 184 | 225 | 265 | 304 | 343 | 381 | 419 | 457 | 494 | 452 | 404 | 365 | 331 | 302 | 257 | | | | |
| 45 | 14.1 | 32.1 | 59.9 | 112 | 161 | 209 | 255 | 301 | 345 | 389 | 433 | 476 | 519 | 561 | 538 | 482 | 418 | 348 | 271 | 189 | | | | |
| Lubrication | Type A | Type B | | | Type C | | | | | | | | | | | | | | | | | | | |

## 2 1/4" Pitch No. 180

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 | 25 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 |
| 11 | 4.24 | 9.68 | 18.1 | 33.7 | 48.6 | 62.9 | 76.9 | 90.6 | 104 | 117 | 124 | 106 | 92.0 | 80.7 | 71.6 | 57.8 | 52.4 | 47.9 | 43.9 | 40.5 | 37.5 | 34.9 | 32.5 | |
| 12 | 4.66 | 10.6 | 19.8 | 37.0 | 53.4 | 69.1 | 84.5 | 99.6 | 114 | 129 | 142 | 121 | 105 | 92.0 | 81.6 | 65.8 | 59.7 | 54.6 | 50.1 | 46.2 | 42.8 | 39.7 | 37.1 | |
| 13 | 5.08 | 11.6 | 21.6 | 40.4 | 58.2 | 75.4 | 92.1 | 109 | 125 | 141 | 156 | 136 | 118 | 104 | 92.0 | 74.2 | 67.4 | 61.5 | 55.5 | 52.1 | 48.2 | 44.8 | | |
| 14 | 5.51 | 12.6 | 23.4 | 43.7 | 63.0 | 81.6 | 99.8 | 118 | 135 | 152 | 169 | 152 | 132 | 116 | 103 | 82.9 | 75.3 | 68.7 | 63.1 | 58.2 | 53.9 | 50.1 | | |
| 15 | 5.93 | 13.5 | 25.3 | 47.1 | 67.9 | 88.0 | 108 | 127 | 146 | 164 | 182 | 169 | 146 | 129 | 114 | 92.0 | 83.5 | 76.2 | 70.0 | 64.5 | 59.7 | 55.5 | | |
| 16 | 6.36 | 14.5 | 27.1 | 50.5 | 72.8 | 94.3 | 115 | 136 | 156 | 176 | 196 | 186 | 161 | 142 | 126 | 101 | 92.0 | 84.0 | 77.1 | 71.1 | 65.8 | 61.2 | | |
| 17 | 6.79 | 15.5 | 28.9 | 54.0 | 77.7 | 101 | 123 | 145 | 167 | 188 | 209 | 204 | 177 | 155 | 138 | 111 | 101 | 92.0 | 84.4 | 77.9 | 72.1 | | | |
| 18 | 7.22 | 16.5 | 30.8 | 57.4 | 82.7 | 107 | 131 | 154 | 177 | 200 | 222 | 222 | 193 | 169 | 150 | 121 | 110 | 100 | 92.0 | 84.8 | 78.5 | | | |
| 19 | 7.66 | 17.5 | 32.6 | 60.8 | 87.6 | 114 | 139 | 164 | 188 | 212 | 236 | 241 | 209 | 183 | 163 | 131 | 119 | 109 | 99.8 | 92.0 | 85.2 | | | |
| 20 | 8.10 | 18.5 | 34.5 | 64.3 | 92.6 | 120 | 147 | 173 | 199 | 224 | 249 | 260 | 226 | 198 | 175 | 142 | 129 | 117 | 108 | 99.3 | 92.0 | | | |
| 21 | 8.53 | 19.5 | 36.3 | 67.8 | 97.6 | 126 | 155 | 182 | 209 | 236 | 262 | 280 | 243 | 213 | 189 | 152 | 138 | 126 | 116 | 107 | 99.0 | | | |
| 22 | 8.97 | 20.5 | 38.2 | 71.3 | 103 | 133 | 163 | 192 | 220 | 248 | 276 | 300 | 260 | 228 | 203 | 163 | 148 | 135 | 124 | 115 | | | | |
| 23 | 9.41 | 21.5 | 40.1 | 74.8 | 108 | 140 | 171 | 201 | 231 | 260 | 290 | 318 | 278 | 244 | 216 | 175 | 159 | 145 | 133 | 123 | | | | |
| 24 | 9.86 | 22.5 | 42.0 | 78.3 | 113 | 146 | 179 | 210 | 242 | 273 | 303 | 333 | 296 | 260 | 231 | 186 | 169 | 154 | 142 | 131 | | | | |
| 25 | 10.3 | 23.5 | 43.9 | 81.8 | 118 | 153 | 187 | 220 | 253 | 285 | 317 | 348 | 315 | 277 | 245 | 198 | 180 | 164 | 151 | 139 | | | | |
| 26 | 10.7 | 24.5 | 45.7 | 85.4 | 123 | 159 | 195 | 229 | 264 | 297 | 331 | 363 | 334 | 293 | 260 | 210 | 191 | 174 | 160 | | | | | |
| 28 | 11.6 | 26.6 | 49.6 | 92.5 | 133 | 173 | 211 | 249 | 286 | 322 | 358 | 394 | 374 | 328 | 291 | 235 | 213 | 194 | 178 | | | | | |
| 30 | 12.5 | 28.6 | 53.4 | 99.6 | 144 | 186 | 227 | 268 | 308 | 347 | 386 | 424 | 414 | 364 | 322 | 260 | 236 | 216 | 198 | | | | | |
| 32 | 13.4 | 30.7 | 57.2 | 107 | 154 | 199 | 244 | 287 | 330 | 372 | 414 | 455 | 456 | 401 | 355 | 287 | 260 | 238 | | | | | | |
| 35 | 14.8 | 33.8 | 63.1 | 118 | 170 | 220 | 268 | 316 | 363 | 410 | 456 | 501 | 522 | 458 | 406 | 328 | 291 | 220 | | | | | | |
| 40 | 17.1 | 39.0 | 72.9 | 136 | 196 | 254 | 310 | 365 | 420 | 473 | 526 | 579 | 575 | 524 | 465 | 324 | 244 | | | | | | | |
| 45 | 19.4 | 44.3 | 82.7 | 154 | 222 | 288 | 352 | 415 | 477 | 538 | 598 | 631 | 578 | 514 | 441 | 271 | | | | | | | | |
| Lubrication | Type A | Type B | | | Type C | | | | | | | | | | | | | | | | | | | |

## 2 1/2" Pitch No. 200

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 | 15 | 20 | 30 | 40 | 50 | 70 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 550 | 600 | 650 |
| 11 | 5.64 | 8.12 | 10.5 | 15.1 | 19.6 | 24.0 | 32.5 | 44.8 | 64.5 | 83.5 | 102 | 120 | 138 | 156 | 135 | 100 | 87.8 | 77.9 |
| 12 | 6.19 | 8.92 | 11.6 | 16.6 | 21.6 | 26.4 | 35.7 | 49.2 | 70.8 | 91.8 | 112 | 132 | 152 | 171 | 154 | 114 | 100 | |
| 13 | 6.75 | 9.72 | 12.6 | 18.1 | 23.5 | 28.7 | 38.9 | 53.6 | 77.2 | 100 | 122 | 144 | 168 | 187 | 174 | 129 | 113 | |
| 14 | 7.31 | 10.5 | 13.6 | 19.7 | 25.5 | 31.1 | 42.1 | 58.1 | 83.7 | 108 | 132 | 156 | 179 | 202 | 194 | 144 | 126 | |
| 15 | 7.88 | 11.3 | 14.7 | 21.2 | 27.4 | 33.5 | 45.4 | 62.6 | 90.1 | 117 | 143 | 168 | 183 | 218 | 215 | 159 | 140 | |
| 16 | 8.45 | 12.2 | 15.8 | 22.7 | 29.4 | 36.0 | 48.7 | 67.1 | 96.6 | 125 | 153 | 180 | 207 | 234 | 237 | 176 | 154 | |
| 17 | 9.02 | 13.0 | 16.8 | 24.2 | 31.4 | 38.4 | 52.0 | 71.6 | 103 | 134 | 163 | 193 | 221 | 249 | 260 | 192 | 169 | |
| 18 | 9.59 | 13.8 | 17.9 | 25.8 | 33.4 | 40.8 | 55.3 | 76.2 | 110 | 142 | 174 | 205 | 235 | 265 | 283 | 209 | 184 | |
| 19 | 10.2 | 14.6 | 19.0 | 27.3 | 35.4 | 43.3 | 58.6 | 80.8 | 116 | 151 | 184 | 217 | 249 | 281 | 307 | 227 | 198 | |
| 20 | 10.7 | 15.5 | 20.1 | 28.9 | 37.4 | 45.8 | 61.9 | 85.4 | 123 | 159 | 195 | 229 | 264 | 297 | 331 | 245 | | |
| 21 | 11.3 | 16.3 | 21.1 | 30.5 | 39.5 | 48.2 | 65.3 | 90.0 | 130 | 168 | 205 | 242 | 278 | 313 | 348 | 264 | | |
| 22 | 11.9 | 17.2 | 22.2 | 32.0 | 41.5 | 50.7 | 68.7 | 94.6 | 136 | 177 | 216 | 254 | 292 | 330 | 366 | 283 | | |
| 23 | 12.5 | 18.0 | 23.3 | 33.6 | 43.5 | 53.2 | 72.0 | 99.3 | 143 | 185 | 226 | 267 | 307 | 346 | 384 | 303 | | |
| 24 | 13.1 | 18.9 | 24.4 | 35.2 | 45.6 | 55.7 | 75.4 | 104 | 150 | 194 | 237 | 279 | 321 | 362 | 402 | 323 | | |
| 25 | 13.7 | 19.7 | 25.5 | 36.8 | 47.6 | 58.2 | 78.8 | 109 | 156 | 203 | 248 | 292 | 335 | 378 | 421 | 343 | | |
| 26 | 14.3 | 20.6 | 26.6 | 38.4 | 49.7 | 60.7 | 82.2 | 113 | 163 | 212 | 259 | 305 | 350 | 395 | 439 | 364 | | |
| Lubrication | Type A | | Type B | | | | | | | Type C | | | | | | | | |

# Horsepower Ratings
# Single Strand Roller Chain

**For Multiple Strand Ratings See Chart at Bottom**

## 3" Pitch No. 240

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | 400 | 450 |
| 11 | 4.86 | 9.08 | 13.1 | 16.9 | 20.7 | 24.4 | 31.6 | 38.6 | 45.5 | 59.0 | 72.1 | 88.1 | 104 | 119 | 135 | 164 | 194 | 223 | 187 | 156 |
| 12 | 5.34 | 9.97 | 14.4 | 18.6 | 22.7 | 26.8 | 34.7 | 42.4 | 50.0 | 64.8 | 79.2 | 96.8 | 114 | 131 | 148 | 181 | 213 | 245 | 218 | |
| 13 | 5.83 | 10.9 | 15.7 | 20.3 | 24.8 | 29.2 | 37.9 | 46.3 | 54.5 | 70.6 | 86.4 | 106 | 124 | 143 | 161 | 197 | 232 | 267 | 240 | |
| 14 | 6.31 | 11.8 | 17.0 | 22.0 | 26.9 | 31.7 | 41.0 | 50.1 | 59.1 | 76.5 | 93.6 | 114 | 135 | 155 | 175 | 213 | 251 | 289 | 268 | |
| 15 | 6.80 | 12.7 | 18.3 | 23.7 | 28.9 | 34.1 | 44.2 | 54.0 | 63.6 | 82.4 | 101 | 123 | 145 | 167 | 188 | 230 | 274 | 311 | 297 | |
| 16 | 7.29 | 13.6 | 19.6 | 25.4 | 31.0 | 36.6 | 47.4 | 57.9 | 68.2 | 88.4 | 108 | 132 | 156 | 179 | 202 | 247 | 290 | 334 | 328 | |
| 17 | 7.78 | 14.5 | 20.9 | 27.1 | 33.1 | 39.0 | 50.6 | 61.8 | 72.9 | 94.4 | 115 | 141 | 166 | 191 | 215 | 263 | 310 | 356 | 359 | |
| 18 | 8.28 | 15.4 | 22.3 | 28.8 | 35.2 | 41.5 | 53.8 | 65.8 | 77.5 | 100 | 123 | 150 | 177 | 203 | 229 | 280 | 330 | 379 | 377 | |
| 19 | 8.78 | 16.4 | 23.6 | 30.6 | 37.4 | 44.0 | 57.0 | 69.7 | 82.2 | 106 | 130 | 159 | 187 | 215 | 243 | 297 | 360 | 402 | 393 | |
| 20 | 9.28 | 17.3 | 24.9 | 32.3 | 39.5 | 46.5 | 60.3 | 73.7 | 86.8 | 112 | 138 | 168 | 198 | 228 | 257 | 314 | 370 | 423 | 407 | |
| 21 | 9.78 | 18.2 | 26.3 | 34.1 | 41.6 | 49.0 | 63.5 | 77.7 | 91.5 | 119 | 145 | 177 | 209 | 240 | 270 | 331 | 390 | 439 | 421 | |
| 22 | 10.3 | 19.2 | 27.6 | 35.8 | 43.8 | 51.6 | 66.8 | 81.7 | 96.2 | 125 | 152 | 186 | 220 | 252 | 284 | 348 | 410 | 454 | 435 | |
| 23 | 10.8 | 20.1 | 29.0 | 37.6 | 45.9 | 54.1 | 70.1 | 85.7 | 101 | 131 | 160 | 195 | 230 | 265 | 298 | 365 | 430 | 469 | 448 | |
| 24 | 11.3 | 21.1 | 30.4 | 39.3 | 48.1 | 56.7 | 73.4 | 89.7 | 106 | 137 | 167 | 205 | 241 | 277 | 312 | 282 | 450 | 483 | | |
| 25 | 11.8 | 22.0 | 31.7 | 41.1 | 50.3 | 59.2 | 76.7 | 93.8 | 110 | 143 | 175 | 214 | 252 | 290 | 327 | 399 | 470 | 496 | | |
| 26 | 12.3 | 23.0 | 33.1 | 42.9 | 52.4 | 61.8 | 80.0 | 97.8 | 115 | 149 | 183 | 223 | 263 | 302 | 341 | 416 | 491 | 509 | | |
| Lubrication | Type A | | Type B | | | | | | | | | Type C | | | | | | | | |

**Type A** Manual Lubrication

**Type B** Bath or Disc Lubrication

**Type C** Oil Stream Lubrication

### Multiple Strand Factors

| No. Strands | Strand Factor | No. Strands | Strand Factor |
|---|---|---|---|
| 1 | 1.0 | 3 | 2.8 |
| 2 | 1.9 | 4 | 3.7 |

## American Standard No. 2040

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | 50 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 |
| 11 | .202 | .379 | .687 | .958 | 1.19 | 1.41 | 1.59 | 1.89 | 2.14 | 2.32 | | | | | | | |
| 12 | .223 | .419 | .766 | 1.07 | 1.34 | 1.58 | 1.81 | 2.16 | 2.46 | 2.71 | 2.88 | | | | | | |
| 13 | .243 | .458 | .842 | 1.18 | 1.48 | 1.76 | 2.00 | 2.44 | 2.79 | 3.08 | 3.31 | 3.48 | | | | | |
| 14 | .263 | .497 | .914 | 1.28 | 1.63 | 1.93 | 2.20 | 2.67 | 3.09 | 3.44 | 3.70 | 3.91 | 4.10 | | | | |
| 15 | .283 | .535 | .989 | 1.39 | 1.76 | 2.09 | 2.40 | 2.93 | 3.38 | 3.77 | 4.08 | 4.32 | 4.52 | 4.67 | | | |
| 16 | .303 | .572 | 1.06 | 1.49 | 1.89 | 2.25 | 2.59 | 3.17 | 3.67 | 4.09 | 4.44 | 4.73 | 4.96 | 5.13 | | | |
| 17 | .322 | .611 | 1.13 | 1.59 | 2.02 | 2.41 | 2.77 | 3.41 | 3.95 | 4.41 | 4.80 | 5.10 | 5.38 | 5.57 | 5.72 | | |
| 18 | .342 | .648 | 1.20 | 1.70 | 2.15 | 2.57 | 2.94 | 3.63 | 4.21 | 4.71 | 5.13 | 5.48 | 5.76 | 5.97 | 6.15 | | |
| 19 | .361 | .687 | 1.27 | 1.80 | 2.28 | 2.72 | 3.14 | 3.86 | 4.49 | 5.02 | 5.48 | 5.85 | 6.17 | 6.41 | 6.61 | 6.70 | |
| 20 | .380 | .720 | 1.34 | 1.90 | 2.40 | 2.87 | 3.29 | 4.07 | 4.72 | 5.29 | 5.76 | 6.17 | 6.50 | 6.77 | 6.98 | 7.13 | |
| 21 | .399 | .758 | 1.41 | 1.99 | 2.52 | 3.01 | 3.47 | 4.27 | 4.97 | 5.57 | 6.07 | 6.50 | 6.86 | 7.13 | 7.35 | 7.50 | |
| 22 | .419 | .794 | 1.48 | 2.08 | 2.64 | 3.15 | 3.63 | 4.48 | 5.20 | 5.83 | 6.37 | 6.81 | 7.18 | 7.48 | 7.71 | 7.87 | |
| 23 | .437 | .829 | 1.54 | 2.18 | 2.76 | 3.30 | 3.79 | 4.68 | 5.42 | 6.09 | 6.64 | 7.11 | 7.49 | 7.80 | 8.04 | 8.21 | 8.30 |
| 24 | .456 | .866 | 1.60 | 2.27 | 2.88 | 3.44 | 3.96 | 4.87 | 5.67 | 6.35 | 6.92 | 7.40 | 7.80 | 8.12 | 8.37 | 8.54 | 8.63 |
| 25 | .475 | .902 | 1.67 | 2.36 | 3.00 | 3.58 | 4.11 | 5.07 | 5.90 | 6.60 | 7.19 | 7.73 | 8.10 | 8.42 | 8.67 | 8.84 | 8.94 |
| 30 | .568 | 1.076 | 1.99 | 2.81 | 3.56 | 4.24 | 4.86 | 5.95 | 6.93 | 7.76 | 8.40 | 8.90 | 9.38 | 9.72 | 9.95 | 10.09 | 10.15 |
| 35 | .657 | 1.247 | 2.30 | 3.24 | 4.09 | 4.86 | 5.56 | 6.81 | 7.86 | 8.71 | 9.42 | 9.99 | 10.43 | 10.72 | 10.93 | 10.97 | |
| 40 | .748 | 1.413 | 2.60 | 3.65 | 4.59 | 5.44 | 6.22 | 7.57 | 8.67 | 9.60 | 10.31 | 10.86 | 11.23 | 11.49 | 11.61 | | |
| Lubrication | Type 1 | | | | Type 2 | | | | Type 3 | | | | | | | | |

## American Standard No. 2050

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 700 | 800 | 900 |
| 11 | .385 | .72 | 1.29 | 1.78 | 2.19 | 2.56 | 2.85 | 3.12 | 3.33 | 3.53 | | | | | | |
| 12 | .428 | .80 | 1.44 | 1.99 | 2.48 | 2.90 | 3.26 | 3.58 | 3.86 | 4.10 | 4.31 | | | | | |
| 13 | .457 | .87 | 1.59 | 2.20 | 2.74 | 3.23 | 3.65 | 4.03 | 4.36 | 4.66 | 4.91 | 5.11 | 5.30 | | | |
| 14 | .506 | .95 | 1.73 | 2.41 | 3.01 | 3.55 | 4.02 | 4.45 | 4.84 | 5.17 | 5.48 | 5.73 | 5.96 | | | |
| 15 | .544 | 1.02 | 1.87 | 2.61 | 3.27 | 3.86 | 4.39 | 4.88 | 5.31 | 5.68 | 6.02 | 6.31 | 6.57 | 6.94 | | |
| 16 | .582 | 1.09 | 2.00 | 2.81 | 3.52 | 4.16 | 4.74 | 5.26 | 5.73 | 6.16 | 6.55 | 6.87 | 7.19 | 7.61 | | |
| 17 | .620 | 1.16 | 2.14 | 2.99 | 3.77 | 4.46 | 5.09 | 5.66 | 6.17 | 6.63 | 7.05 | 7.42 | 7.75 | 8.24 | 8.62 | |
| 18 | .658 | 1.23 | 2.27 | 3.19 | 4.01 | 4.75 | 5.41 | 6.03 | 6.58 | 7.09 | 7.54 | 7.94 | 8.31 | 8.84 | 9.28 | |
| 19 | .696 | 1.31 | 2.41 | 3.39 | 4.25 | 5.05 | 5.76 | 6.42 | 7.00 | 7.55 | 8.04 | 8.46 | 8.87 | 9.42 | 9.90 | |
| 20 | .732 | 1.38 | 2.54 | 3.56 | 4.48 | 5.32 | 6.07 | 6.75 | 7.38 | 7.95 | 8.46 | 8.92 | 9.35 | 9.97 | 10.49 | |
| 21 | .769 | 1.45 | 2.66 | 3.75 | 4.70 | 5.59 | 6.38 | 7.10 | 7.77 | 8.37 | 8.90 | 9.39 | 9.84 | 10.50 | 11.06 | 11.44 |
| 22 | .806 | 1.52 | 2.79 | 3.92 | 4.92 | 5.86 | 6.69 | 7.45 | 8.14 | 8.76 | 9.33 | 9.84 | 10.31 | 11.01 | 11.59 | 12.00 |
| 23 | .842 | 1.58 | 2.91 | 4.09 | 5.16 | 6.12 | 6.98 | 7.78 | 8.50 | 9.15 | 9.74 | 10.27 | 10.76 | 11.50 | 12.10 | 12.52 |
| 24 | .879 | 1.65 | 3.05 | 4.27 | 5.37 | 6.38 | 7.28 | 8.10 | 8.85 | 9.54 | 10.16 | 10.70 | 11.21 | 11.97 | 12.59 | 13.03 |
| 25 | .914 | 1.72 | 3.17 | 4.45 | 5.59 | 6.62 | 7.58 | 8.42 | 9.20 | 9.91 | 10.55 | 11.12 | 11.64 | 12.42 | 13.05 | 13.50 |
| 30 | 1.092 | 2.06 | 3.77 | 5.28 | 6.63 | 7.84 | 8.93 | 9.92 | 10.82 | 11.62 | 12.35 | 12.99 | 13.57 | 14.39 | 15.06 | 15.48 |
| 36 | 1.267 | 2.38 | 4.35 | 6.07 | 7.59 | 8.96 | 10.18 | 11.27 | 12.26 | 13.14 | 13.92 | 14.59 | 15.17 | 16.00 | 16.62 | 16.94 |
| 40 | 1.44 | 2.70 | 4.91 | 6.82 | 8.51 | 10.00 | 11.33 | 12.51 | 13.57 | 14.49 | 15.28 | 15.95 | 16.57 | 17.29 | 17.78 | |
| Lubrication | Type 1 | | | Type 2 | | | | | Type 3 | | | | | | | |

**Type 1** Manual drip (4 to 10 drops per minute), or splash.

**Type 2** Rapid drip (20 drops per minute minimum), splash, or disc.

**Type 3** Disc or forced.

### Multiple Strand Factors

| No. Strands | Strand Factor |
|---|---|
| 2 | 1.7 |
| 3 | 2.5 |
| 4 | 3.3 |

# Horsepower Ratings
# Single Strand Roller Chain

**For Multiple Strand Ratings See Chart at Bottom**

## American Standard No. 2060

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | 50 | 75 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |
| 11 | .66 | 1.21 | 1.70 | 2.15 | 2.54 | 2.93 | 3.58 | 4.12 | 4.56 | 4.93 | | | | | | | |
| 12 | .73 | 1.34 | 1.90 | 2.41 | 2.85 | 3.30 | 4.05 | 4.70 | 5.24 | 5.71 | 6.08 | | | | | | |
| 13 | .79 | 1.48 | 2.09 | 2.65 | 3.15 | 3.65 | 4.52 | 5.27 | 5.91 | 6.46 | 6.92 | 7.32 | | | | | |
| 14 | .86 | 1.60 | 2.27 | 2.90 | 3.45 | 4.00 | 4.97 | 5.79 | 6.54 | 7.17 | 7.72 | 8.18 | 8.58 | | | | |
| 15 | .92 | 1.72 | 2.45 | 3.14 | 3.74 | 4.34 | 5.39 | 6.32 | 7.14 | 7.86 | 8.48 | 9.01 | 9.48 | | | | |
| 16 | .99 | 1.85 | 2.64 | 3.36 | 4.01 | 4.66 | 5.82 | 6.82 | 7.73 | 8.52 | 9.21 | 9.80 | 10.34 | 10.77 | | | |
| 17 | 1.05 | 1.97 | 2.82 | 3.59 | 4.28 | 4.98 | 6.22 | 7.32 | 8.29 | 9.14 | 9.91 | 10.56 | 11.14 | 11.64 | 12.06 | | |
| 18 | 1.12 | 2.10 | 2.99 | 3.82 | 4.56 | 5.31 | 6.63 | 7.82 | 8.85 | 9.78 | 10.60 | 11.31 | 11.96 | 12.50 | 12.97 | | |
| 19 | 1.18 | 2.23 | 3.17 | 4.05 | 4.83 | 5.62 | 7.03 | 8.29 | 9.42 | 10.41 | 11.29 | 12.08 | 12.76 | 13.35 | 13.87 | 14.30 | |
| 20 | 1.25 | 2.34 | 3.34 | 4.26 | 5.09 | 5.93 | 7.41 | 8.74 | 9.92 | 10.97 | 11.91 | 12.74 | 13.46 | 14.08 | 14.64 | 15.10 | |
| 21 | 1.31 | 2.46 | 3.51 | 4.49 | 5.36 | 6.24 | 7.80 | 9.19 | 10.43 | 11.55 | 12.52 | 13.40 | 14.14 | 14.83 | 15.42 | 15.90 | |
| 22 | 1.37 | 2.58 | 3.67 | 4.70 | 5.62 | 6.54 | 8.16 | 9.62 | 10.93 | 12.08 | 13.13 | 14.04 | 14.84 | 15.55 | 16.15 | 16.67 | |
| 23 | 1.44 | 2.69 | 3.83 | 4.90 | 5.86 | 6.83 | 8.53 | 10.06 | 11.42 | 12.62 | 13.71 | 14.67 | 15.49 | 16.22 | 16.87 | 17.38 | 17.83 |
| 24 | 1.50 | 2.80 | 4.00 | 5.11 | 6.11 | 7.12 | 8.90 | 10.47 | 11.90 | 13.16 | 14.28 | 15.27 | 16.14 | 16.89 | 17.56 | 18.11 | 18.57 |
| 25 | 1.56 | 2.92 | 4.17 | 5.32 | 6.36 | 7.41 | 9.27 | 10.89 | 12.37 | 13.67 | 14.84 | 15.86 | 16.76 | 17.53 | 18.21 | 18.79 | 19.24 |
| 30 | 1.86 | 3.48 | 4.96 | 6.32 | 7.55 | 8.78 | 10.94 | 12.76 | 14.55 | 16.05 | 17.38 | 18.54 | 19.53 | 20.38 | 21.11 | 21.70 | 22.16 |
| 35 | 2.16 | 4.03 | 5.73 | 7.29 | 8.67 | 10.06 | 12.52 | 14.67 | 16.54 | 18.17 | 19.61 | 20.80 | 21.88 | 22.73 | 23.40 | 23.99 | |
| 40 | 2.45 | 4.55 | 6.46 | 8.20 | 9.70 | 11.31 | 13.99 | 16.33 | 18.35 | 20.08 | 21.57 | 22.84 | 23.86 | 24.64 | 25.42 | | |
| Lubrication | Type 1 | | | | Type 2 | | | | | | Type 3 | | | | | | |

## American Standard No. 2080

| No. of Teeth of Small Sprocket | Revolutions Per Minute - Smalls Sprocket | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 | 20 | 30 | 40 | 50 | 80 | 70 | BO | 90 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
| 11 | .66 | 1.24 | 1.78 | 2.26 | 2.76 | 3.20 | 3.60 | 3.99 | 4.38 | 4.78 | 6.36 | 7.60 | | | | | |
| 12 | .72 | 1.37 | 1.96 | 2.52 | 3.08 | 3.56 | 4.03 | 4.48 | 4.92 | 5.36 | 7.20 | 8.68 | 9.82 | | | | |
| 13 | .79 | 1.49 | 2.15 | 2.77 | 3.36 | 3.91 | 4.44 | 4.95 | 5.45 | 5.93 | 8.02 | 9.73 | 11.08 | | | | |
| 14 | .85 | 1.62 | 2.33 | 3.01 | 3.66 | 4.26 | 4.85 | 5.42 | 5.96 | 6.49 | 8.82 | 10.75 | 12.29 | 13.60 | | | |
| 15 | .91 | 1.74 | 2.52 | 3.25 | 3.95 | 4.60 | 5.25 | 5.86 | 6.45 | 7.03 | 9.60 | 11.74 | 13.46 | 14.94 | | | |
| 16 | .98 | 1.87 | 2.70 | 3.48 | 4.24 | 4.94 | 5.64 | 6.29 | 6.93 | 7.56 | 10.36 | 12.70 | 14.59 | 16.24 | 17.65 | | |
| 17 | 1.04 | 1.99 | 2.88 | 3.71 | 4.52 | 5.28 | 6.02 | 6.72 | 7.40 | 8.09 | 11.10 | 13.63 | 15.69 | 17.50 | 19.04 | | |
| 18 | 1.11 | 2.11 | 3.05 | 3.94 | 4.80 | 5.61 | 6.40 | 7.14 | 7.87 | 8.60 | 11.82 | 14.53 | 16.76 | 18.72 | 20.38 | 21.77 | |
| 19 | 1.17 | 2.23 | 3.23 | 4.17 | 5.09 | 5.94 | 6.77 | 7.56 | 8.33 | 9.10 | 12.52 | 15.40 | 17.80 | 19.90 | 21.67 | 23.18 | |
| 20 | 1.23 | 2.35 | 3.40 | 4.40 | 5.36 | 6.26 | 7.13 | 7.98 | 8.78 | 9.60 | 13.20 | 16.25 | 18.81 | 21.04 | 22.91 | 24.52 | |
| 21 | 1.29 | 2.47 | 3.57 | 4.62 | 5.62 | 6.58 | 7.49 | 8.39 | 9.23 | 10.09 | 13.87 | 17.08 | 19.79 | 22.14 | 24.11 | 25.80 | |
| 22 | 1.36 | 2.58 | 3.74 | 4.84 | 5.90 | 6.89 | 7.84 | 8.79 | 9.67 | 10.57 | 14.53 | 17.90 | 20.74 | 23.20 | 25.27 | 27.03 | |
| 23 | 1.42 | 2.70 | 3.90 | 5.06 | 6.16 | 7.20 | 8.19 | 9.18 | 10.10 | 11.05 | 15.18 | 18.71 | 21.66 | 24.23 | 26.40 | 28.22 | |
| 24 | 1.48 | 2.82 | 4.05 | 5.27 | 6.43 | 7.51 | 8.54 | 9.56 | 10.53 | 11.52 | 15.82 | 19.51 | 22.55 | 25.23 | 27.50 | 29.38 | 30.98 |
| 25 | 1.54 | 2.92 | 4.20 | 5.48 | 6.69 | 7.81 | 8.89 | 9.94 | 10.95 | 11.98 | 16.45 | 20.30 | 23.42 | 26.20 | 28.57 | 30.52 | 32.16 |
| 30 | 1.84 | 3.50 | 5.02 | 6.54 | 7.96 | 9.29 | 10.59 | 11.74 | 12.97 | 14.23 | 19.46 | 23.91 | 27.52 | 30.70 | 33.56 | 35.52 | 37.26 |
| 35 | 2.14 | 4.07 | 5.82 | 7.56 | 9.19 | 10.71 | 12.21 | 13.48 | 14.92 | 16.35 | 22.26 | 27.23 | 31.21 | 34.65 | 37.57 | 39.66 | |
| 40 | 2.43 | 4.61 | 6.60 | 8.55 | 10.38 | 12.09 | 13.76 | 15.17 | 16.80 | 18.36 | 24.88 | 30.28 | 34.52 | 38.09 | 40.96 | 43.07 | |
| Lubrication | Type 1 | | | | | | | | | Type 2 | | | Type 3 | | | | |

**Type 1** Manual drip (4 to 10 drops per minute), or splash.

**Type 2** Rapid drip (20 drops per minute minimum), splash, or disc.

**Type 3** Disc or forced.

**Multiple Strand Factors**

| No. Strands | Strand Factor |
|---|---|
| 2 | 1.7 |
| 3 | 2.5 |
| 4 | 3.3 |

# ENGINEERED CLASS SPROCKETS

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# Engineered Class Sprockets
# Steel Cut and Cast Iron

Martin's engineering class sprockets are manufactured to the highest quality standards. Martin offers engineering class sprockets in both flame cut (accu-torch) and cast iron.

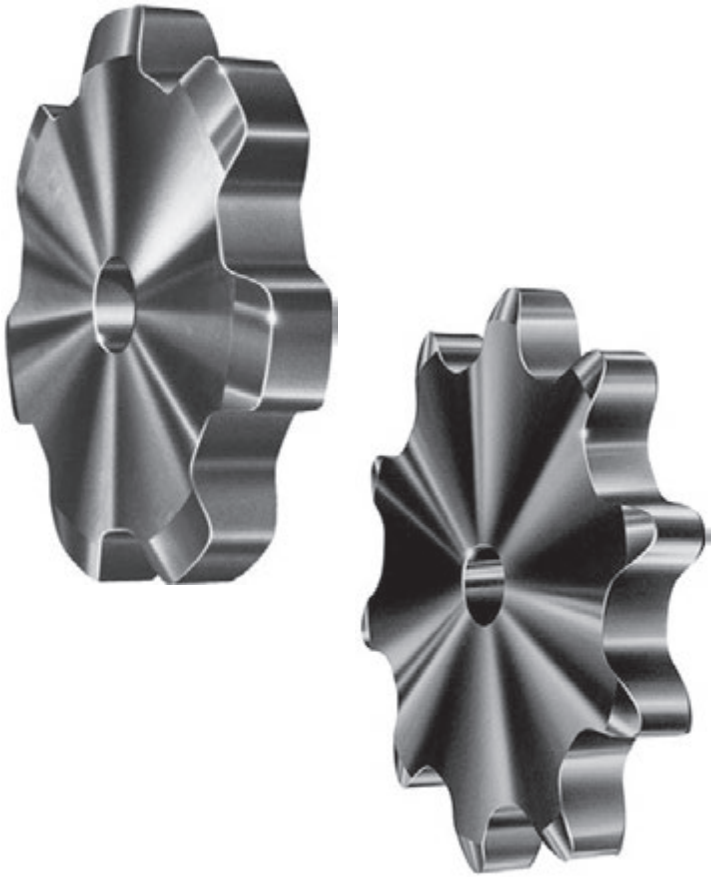
ASME standard torch profiles – elongated root design promotes a self- cleaning effect of the root to keep your demanding applications moving.

These sprockets are available in A, B, and C hub types:

- A style (no hub) typically used in weld-on applications.
- B style (hub one side) is used in applications where clearance width is narrow (these are typically more economical than C style).
- C style (hub both sides) which is used in applications where B style is not wide enough to withstand torques produced by drive.

Martin also offers split style construction. The split style allows for easy removal or installation. They can be used in nearly all applications. The shaft/keyway security is much tighter than a typical setscrew mount.

Flame hardening, induction heat treating, and chilled rim are available for longer wear life.



# Steel Accu-Torch® Sprockets for Engineering Chain

Martin Accu-Torch® steel sprockets are available for virtually all engineering class chains in style A, B, and C. Also available as split with welded hub and split or solid detachable hub. May also be furnished as shear pin type. Send us your inquiries.

Where possible please specify chain number, pitch diameter, number of teeth, bore and keyway size, and hub style required.

Accu-Torch® sprockets are not intended to replace cut tooth roller chain sprockets.

## MTO Engineered Class Sprockets

**ALL STEEL WIDE DRAG SPROCKET**

**SPLINED MUD RELIEF ACCU-TORCH®**

**SPECIAL ACCU-TORCH® FOR SEWAGE TREATMENT**

**10 FT. DIAMETER ACCU-TORCH® FOR PAPER MILLS**

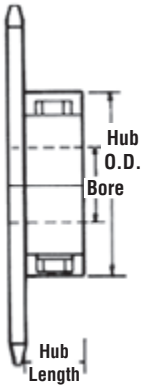
**For quality and dependable service, call Martin for all your made-to-order requirements.**

# Instant Split® Sprockets

Martin Instant Split® / Accu-Torch® sprockets offer unlimited design and are simply installed with a hand wrench... greatly reducing costly downtime.

## Accu-Torch® Size for Instant Split® Hubs

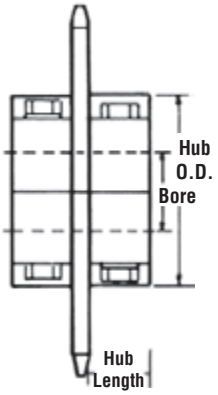
| Minimum Number of Teeth | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chain Number / Pitch | | | | | | | | | | | | |
| Split Hub Number | Bore | 62 | 78 | 1568 | 1030 | 82 | 238 | 124 | 1240 | 635 | 1207 | 132 |
| | | 1.654 | 2.609 | 3.067 | 3.075 | 3.075 | 3.500 | 4.000 | 4.063 | 4.500 | 5000 | 6.050 |
| S-1 | .75" – 1.5" | 9 | 7 | | | | | | | | | |
| S-2 | 1.375" – 2.25" | 12 | 8 | 8 | 8 | 7 | 8 | 6 | 7 | | | |
| S-3 | 2" – 3" | 15 | 10 | 10 | 9 | 9 | 9 | 7 | 8 | 8 | | |
| S-4 | 2.75" – 4" | 18 | 12 | 12 | 11 | 11 | 10 | 9 | 9 | 9 | 8 | |
| S-5 | 3.75" – 5" | 21 | 14 | 13 | 13 | 12 | 12 | 10 | 10 | 10 | 9 | 7 |
| S-6 | 4.75" – 6" | 23 | 15 | 14 | 14 | 13 | 13 | 11 | 11 | 11 | 10 | 8 |
| S-7 | 5.75" – 7" | 27 | 18 | 16 | 16 | 15 | 15 | 12 | 13 | 12 | 11 | 9 |
| S-8 | 6.25" – 8" | 31 | 20 | 18 | 18 | 17 | 16 | 14 | 14 | 14 | 13 | 10 |




**Pricing Example Style B**
1030B25 split with S-3 Hub,
2.938" bore, KW and SS

S-3 Hub
1030A25 Plate

See Hub List
See Plate List
Total Price List




**Pricing Example Style B**
1030B25 split with S-3 Hub,
2.938" bore, KW and SS

Two S-3 Hubs
1030A25 Plate

See Hub List
See Plate List
Total Price List

Instant split hubs are for use with plate sprockets only.

| Hub Number | Bore | Hub O.D. | Hub ★ Length | Bolts | Weight (lb) |
|---|---|---|---|---|---|
| S-1 | .75" - 1.5" | 3.125" | 1" | .375" × 2.25" | 1.8 |
| S-2 | 1.375" - 2.25" | 4.375" | 1.25" | .5" × 3" | 4.1 |
| S-3 | 2" - 3" | 6.125" | 1.375" | .625" × 4.5" | 8.4 |
| S-4 | 2.75" - 4" | 7.625" | 1.5" | .75" × 5.5" | 14.4 |
| S-5 | 3.75" - 5" | 9.25" | 2" | 1" × 6" | 27.8 |
| S-6 | 4.75" - 6" | 10.25" | 2.25" | 1" × 6" | 35.4 |
| S-7 | 5.75" - 7" | 12.5" | 2.5" | 1" × 7" | 64.4 |
| S-8 | 6.25" - 8" | 14.5" | 3" | 1" × 8" | 98.5 |

★Add hub length to plate thickness to determine length thru bore.

# Solid and Split Detachable Hubs

## TYPE D SPROCKETS — STOCK DETACHABLE HUBS

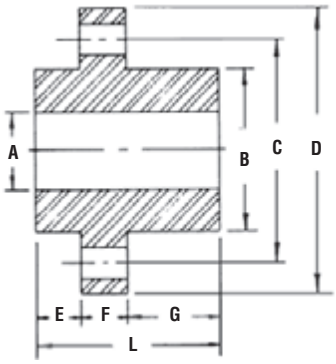
Type D sprockets consist of a Type A plate sprocket bolted to a detachable hub. A solid or split plate sprocket may be assembled to a solid or split hub. When ordering a Type D sprocket, be sure to select a plate sprocket large enough to allow chain clearance over the hub flange diameter, dimension D.

Bolt holes of Type D hubs are drilled for interchangeability. Speed ratios may be changed simply by removing the plate sprocket and substituting another with a different number of teeth. When worn, the sprocket may be reversed to use the unworn tooth surfaces, increasing the life of the sprocket.

### Solid Hubs - Steel — Dimensions (Inches)

| Hub Number | Bore Range A | | Hub Diameter B | Bolt Circle C | Flange Diameter D | Bolt Holes | | E | F | G★ | L |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Stock | Maximum | | | | Number | Bolt Size | | | | |
| 101 | 0.625 | 1.75 | 2.5 | 3.375 | 4.25 | 6 | 0.375 | 0.5 | 0.375 | 1.125 | 2 |
| 102 | 1.438 | 2 | 3 | 4 | 5 | 6 | 0.438 | 0.5 | 0.5 | 1.5 | 2.5 |
| 103 | 1.813 | 2.5 | 4 | 5.063 | 6 | 6 | 0.5 | 0.5 | 0.625 | 1.625 | 2.75 |
| 104 | 2.313 | 3 | 4.5 | 5.75 | 7 | 6 | 0.625 | 0.5 | 0.75 | 2 | 3.25 |
| 105 | 2.563 | 3.25 | 5 | 6.25 | 7.5 | 6 | 0.625 | 0.563 | 0.938 | 2.5 | 4 |
| 106 | 2.813 | 3.75 | 5.5 | 7 | 8.5 | 6 | 0.625 | 0.625 | 1 | 2.375 | 4 |
| 107 | 3.313 | 4 | 6 | 7.5 | 9 | 6 | 0.625 | 0.625 | 1.25 | 2.375 | 4.25 |
| 108 | 3.563 | 4.5 | 7 | 8.625 | 10.375 | 6 | 0.75 | 0.625 | 1.375 | 2.5 | 4.5 |
| 109 | 4.063 | 7 | 10.5 | 13 | 15.5 | 6 | 1 | 0.75 | 1.5 | 2.75 | 5 |

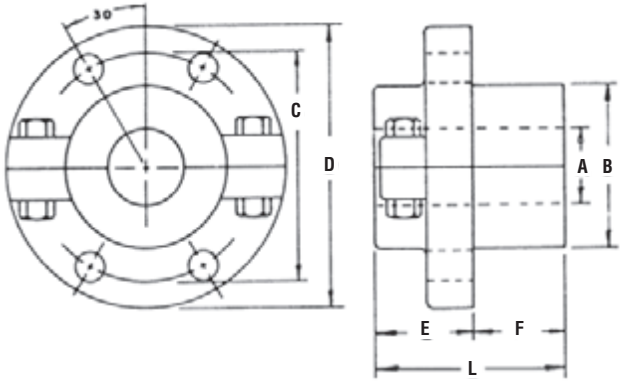
★Maximum bores shown are maximum bores with standard keyseat and setscrew.




**ALTERATION CHARGES**

See current list price and discount sheet for alteration charges.

The list price as shown in the list price book is for hub with stock bore. To obtain the price of a complete Type D sprocket add the list price of hub plus alteration charges and the list price of the desired Type A plate sprocket, including rebore, bolt hole drilling, and splitting charge if desired.




### Split Hubs - Cast Iron — Dimensions (Inches)

| Hub Number | Bore Range A | | Hub Diameter B | Bolt Circle C | Flange Diameter D | Bolt Holes | | E | F★ | L |
|---|---|---|---|---|---|---|---|---|---|---|
| | Stock | Maximum | | | | Number | Bolt Size | | | |
| 102S | 1.313 | 1.5 | 3 | 4 | 5 | 4 | 0.438 | 1.75 | 1.375 | 3.125 |
| 103S | 1.563 | 2.25 | 4 | 5.063 | 6 | 4 | 0.5 | 2 | 1.5 | 3.5 |
| 104S | 2.313 | 2.5 | 4.5 | 5.75 | 7 | 4 | 0.625 | 2.25 | 1.75 | 4 |
| 105S | 2.563 | 2.75 | 5 | 6.25 | 7.5 | 4 | 0.625 | 2.25 | 1.875 | 4.125 |
| 106S | 2.813 | 3.25 | 5.5 | 7 | 8.5 | 4 | 0.625 | 2.5 | 2 | 4.5 |
| 107S | 3.313 | 3.5 | 6 | 7.5 | 9 | 4 | 0.625 | 3 | 1.75 | 4.75 |
| 108S | 3.563 | 4 | 7 | 8.625 | 10.375 | 4 | 0.75 | 3.375 | 1.875 | 5.25 |
| 109S | 4.063 | 6 | 10.5 | 13 | 15.5 | 4 | 1 | 4.125 | 1.75 | 5.875 |

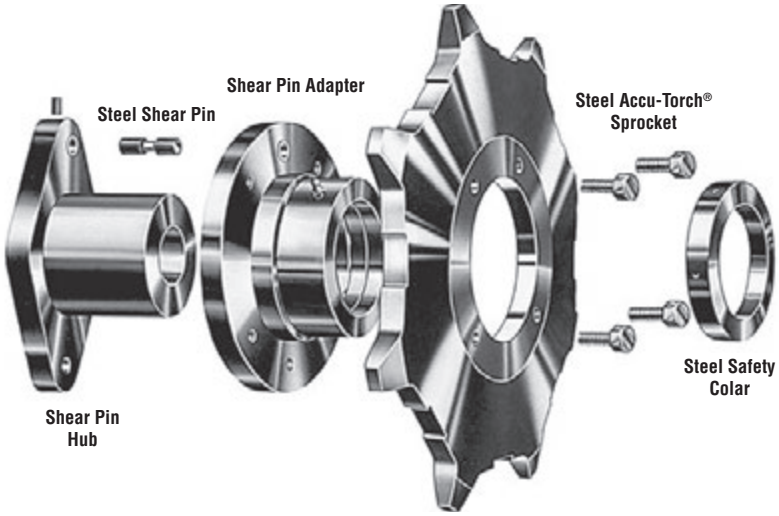
Maximum bores shown are maximum bores with standard keyseat and setscrew.
★Plate thickness of Accu-Torch® not recommended if larger than dimension listed.

# Bolt-On Shear Pin Accu-Torch® Sprockets

Shear pin sprockets provide simple, dependable protection against expensive machinery damage caused by overloads or jamming. Torque is transmitted by a single pin, necked to shear when the safe load is exceeded. When an overload occurs, the pin shears, disconnecting the drive immediately.

The bolt-on shear pin adapter converts any plate sprocket into a stock shear pin sprocket allowing immediate delivery of stock shear pin sprockets.

Selection guide on page F-9 gives complete procedure to select the proper shear pin assembly.




## Stock Shear Pin Assemblies

| Shear Pin Assembly Part Number | Hub Bore Range | Shear Pin Hub Part Number | Shear Pin Adapter Part Number |
|---|---|---|---|
| SP-17 | 1" and UNDER | SPH-17 | SPA-17 |
| SP-18 | 1.063 - 1.25 | SPH-18 | SPA-18 |
| SP-19 | 1.313 - 1.5 | SPH-19 | SPA-19 |
| SP-20 | 1.563 - 1.75 | SPH-20 | SPA-20 |
| SP-21 | 1.813 - 2 | SPH-21 | SPA-21 |
| SP-22 | 2.063 - 2.25 | SPH-22 | SPA-22 |
| SP-23 | 2.313 - 2.5 | SPH-23 | SPA-23 |
| SP-24 | 2.563 - 2.75 | SPH-24 | SPA-24 |
| SP-25 | 2.813 - 3 | SPH-25 | SPA-25 |
| SP-26 | 3.063 - 3.5 | SPH-26 | SPA-26 |
| SP-27 | 3.563 - 4 | SPH-27 | SPA-27 |
| SP-28 | 4.063 - 4.5 | SPH-28 | SPA-28 |
| SP-29 | 4.563 - 5 | SPH-29 | SPA-29 |
| SP-30 | 4.875 - 5.5 | SPH-30 | SPA-30 |
| SP-31 | 5.563 - 6 | SPH-31 | SPA-31 |

**NOTES ON PRICING:**

**Shear Pin Hub List Price** includes any finished bore within the stated range, standard keyway and setscrew, hardened steel shear pin bushing.

**Shear Pin Adapter List Price** includes the shear pin bushing, grease fitting.

**Complete Assembly List Price** includes all components of the shear pin assembly as described above. Total list price of any shear pin sprocket is the complete assembly list price plus the list price of the desired plate sprocket (from tables of stock sprocket list prices).

**Replacement Sprockets** should be priced as altered stock sprockets directly from list price and alteration charge tables.

**Shear Pin Components** may be ordered separately and will be treated as stock items when conforming to standard specifications and descriptions above.

**PRICING EXAMPLES:**

**1. Stock Shear Pin Accu-Torch® Sprocket**

To price a 25 tooth shear pin sprocket for 1030 chain (1030SP25) using SP-26 shear pin assembly with 3.438" bore, standard keyway and setscrew:

SP-26 Assembly .....
1030A25 .....
See List Price Sheet

**2. Shear Pin Adapter and Sprocket for Existing Hub**

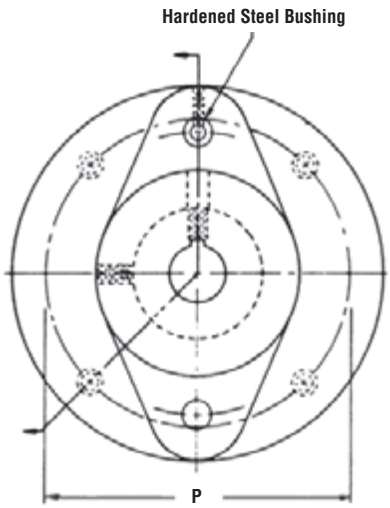
To price a "Bolt-on" shear pin adapter and sprocket to replace the sprocket part of existing 78A12 using SP-20 hub:

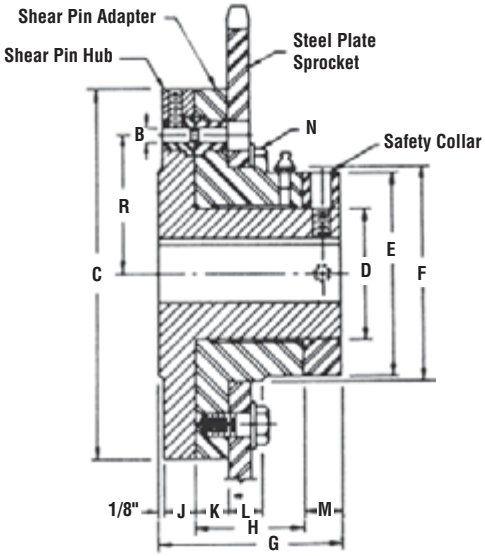
SPA-20 Adapter .....
78A12 .....
See List Price Sheet

**Shear Pin Sprockets can also be furnished in other standard styles or made to customers specifications. Price on application.**

**It is important that torque requirement for selected hub be checked in torque rating on page F-9 and neck diameter of shear pins be specified.**

# Bolt-On Shear Pin Accu-Torch® Sprockets



## Sprocket Sizes for Stock Shear Pin Assemblies

| Shear Pin Assembly Number | Hub Bore Range | Minimum Teeth Number | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Chain Number / Pitch | | | | | | | | | | |
| | | 62 | 78 | 1568 | 1030 | 82 | 238 | 124 | 1240 | 635 | 1207 | 132 |
| | | 1.654 | 2.609 | 3.067 | 3.075 | 3.075 | 3.500 | 4.000 | 4.063 | 4.500 | 5.000 | 6.050 |
| SP-19 | 1.313 - 1.5 | 16 | | | | | | | | | AVAILABLE AS MADE TO ORDER CHECK YOUR NEAREST MARTIN FACILITY | AVAILABLE AS MADE TO ORDER CHECK YOUR NEAREST MARTIN FACILITY |
| SP-20 | 1.563 - 1.75 | 17 | 12 | | | | | | | | | |
| SP-21 | 1.813 - 2 | 19 | 13 | | | 11 | | | | | | |
| SP-22 | 2.063 - 2.25 | 21 | 14 | 13 | 13 | 12 | 12 | | | | | |
| SP-23 | 2.313 - 2.5 | 22 | 15 | 14 | 13 | 13 | 12 | 10 | | | | |
| SP-24 | 2.563 - 2.75 | 25 | 16 | 15 | 15 | 14 | 13 | 11 | 12 | 11 | | |
| SP-25 | 2.813 - 3 | 26 | 18 | 16 | 16 | 15 | 14 | 12 | 13 | 12 | | |
| SP-26 | 3.063 - 3.5 | 28 | 19 | 17 | 17 | 16 | 15 | 13 | 13 | 13 | | |
| SP-27 | 3.563 - 4 | 32 | 21 | 19 | 19 | 18 | 17 | 14 | 15 | 14 | | |
| SP-28 | 4.063 - 4.5 | 34 | 22 | 20 | 20 | 19 | 18 | 15 | 15 | 15 | | |
| SP-29 | 4.563 - 5 | 36 | 24 | 21 | 21 | 20 | 19 | 16 | 16 | 15 | | |
| SP-30 | 4.875 - 5.5 | 41 | 27 | 24 | 23 | 23 | 21 | 18 | 18 | 17 | | |
| SP-31 | 5.563 - 6 | 45 | 30 | 26 | 25 | 25 | 23 | 20 | 20 | 19 | | |

## Shear Pin Assembly Dimensions (Inches)

| Shear Pin Assembly Number | Shear Pin | | Diameters | | | | Length Thru | | | Thickness | | Sprocket Seat Width | Bolts | | Weight (lb) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Radius | Pin Diameter | Flange | Shear Pin Hub | Adapter Hub and Collar | Sprocket Seat | Shear Pin Hub | Adapter | Collar | Hub Flange | Adapter Flange | | Number and Size | Bolt Circle | Shear Pin Hub | Shear Pin Adapter |
| | A | B | C | D | E | F | G | H | M | J | K | L | N | P | | |
| SP-19 | 2.563 | 0.313 | 6.75 | 2.75 | 4 | 4.125 | 3.563 | 2.125 | 0.625 | 0.688 | 0.688 | 0.688 | 4 - 0.5 | 5.5 | 7.2 | 7.6 |
| SP-20 | 3 | 0.375 | 7.75 | 3.25 | 4.75 | 4.875 | 4.188 | 2.5 | 0.75 | 0.813 | 0.813 | 0.688 | 4 - 0.5 | 6.25 | 11.0 | 11.9 |
| SP-21 | 3.313 | 0.438 | 8.75 | 3.75 | 5.25 | 5.375 | 4.813 | 2.875 | 0.875 | 0.938 | 0.938 | 0.938 | 4 - 0.625 | 7 | 16.2 | 16.9 |
| SP-22 | 3.813 | 0.5 | 9.75 | 4.25 | 6.25 | 6.375 | 5.188 | 3 | 1 | 0.688 | 0.688 | 0.813 | 4 - 0.625 | 8 | 23.3 | 24.5 |
| SP-23 | 4 | 0.5 | 10 | 4.5 | 6.5 | 6.625 | 5.688 | 3.5 | 1 | 0.688 | 0.688 | 1.375 | 4 - 0.625 | 8.25 | 26.3 | 27.7 |
| SP-24 | 4.375 | 0.563 | 11.5 | 5 | 7 | 7.125 | 6.313 | 3.875 | 1.125 | 0.813 | 0.813 | 1.375 | 4 - 0.625 | 9.25 | 40.4 | 38.6 |
| SP-25 | 4.875 | 0.625 | 12.5 | 5.5 | 8 | 8.125 | 6.938 | 4.25 | 1.25 | 0.938 | 0.938 | 1.375 | 6 - 0.625 | 10.25 | 52.6 | 53.6 |
| SP-26 | 5.313 | 0.688 | 13.5 | 6.25 | 8.75 | 8.875 | 7.813 | 5.875 | 1.625 | 1.438 | 1.438 | 1.375 | 6 - 0.625 | 11.25 | 66.7 | 66.8 |
| SP-27 | 6.063 | 0.75 | 15.5 | 7 | 10 | 10.125 | 8.688 | 5.5 | 1.5 | 1.563 | 1.5 | 1.375 | 6 - 0.625 | 12.75 | 96.5 | 100.0 |
| SP-28 | 6.438 | 0.75 | 16.25 | 7.75 | 10.75 | 10.875 | 9.688 | 6.5 | 1.5 | 1.563 | 1.5 | 1.375 | 6 - 0.75 | 13.5 | 125.0 | 115.0 |
| SP-29 | 7 .125 | 0.875 | 17.5 | 8.5 | 12 | 12.125 | 10.688 | 7 | 1.75 | 1.813 | 1.5 | 1.75 | 6 - 1 | 14.75 | 160.0 | 150.0 |
| SP-30 | 8 .125 | 1 | 20.25 | 9.75 | 13.75 | 13.875 | 11.688 | 7.5 | 2 | 2.063 | 1.5 | 1.75 | 6 - 1 | 17 | 215.0 | 207.0 |
| SP-31 | 8.875 | 1 .125 | 22.5 | 10.75 | 15 | 15.125 | 12.938 | 8.25 | 2.250 | 2.313 | 1.5 | 1.75 | 6 - 1 | 18.75 | 318.0 | 265.0 |

# Bolt-On Shear Pin Accu-Torch® Sprockets

## Shear Pin Sprocket Selection

1. The shear pin assembly required is determined by the shaft size. Select the smallest shear pin assembly which will accommodate the required bore. Table on page 130 contains the bore ranges and minimum sprocket sizes which allow chain clearance over the shear pin assembly flange.

2. Using one of the following formulas, compute the torque load the pin must transmit and enter the torque rating table below to obtain the proper shear pin neck diameter.

$$T = \frac{HP \times 63{,}025 \times 1.5}{RPM} \quad \text{or} \quad T = \frac{D \times CP \times 1.5}{2}$$

or T = Output of reducer x speed ratio of chain drive x 1.5

Where:

| | | |
|---|---|---|
| T | = | Torque in pound inches |
| HP | = | Horsepower at sprocket |
| RPM | = | Sprocket speed |
| D | = | Pitch diameter of sprocket |
| CP | = | Chain pull in pounds |
| 1.5 | = | Safety factor for starting load |

**Example:**

1. Determine the shear pin assembly and pin neck diameter to transmit 20 horsepower at 67 RPM with a 36 tooth, No. 62 sprocket on a 2.938" shaft.

(1) Referring to Table I, shear pin assembly SP-25 is required for a 2.938" bore. The 36 tooth sprocket is well above the minimum size.

(2) Torque and neck diameter:

$$T = \frac{HP \times 63{,}025 \times 1.5}{RPM}$$

$$T = \frac{20 \times 63{,}025 \times 1.5}{67} = 28{,}200 \text{ lb.in.}$$

Referring to Table II under SP-25, a pin necked to 3⁄8" shows a torque rating of 29,810 lb. in., which exceeds the 28,200 lb. in. required.

(3) Order: 62SP36, SP-25 assembly with 2.938" bore and .375" pin neck diameter.

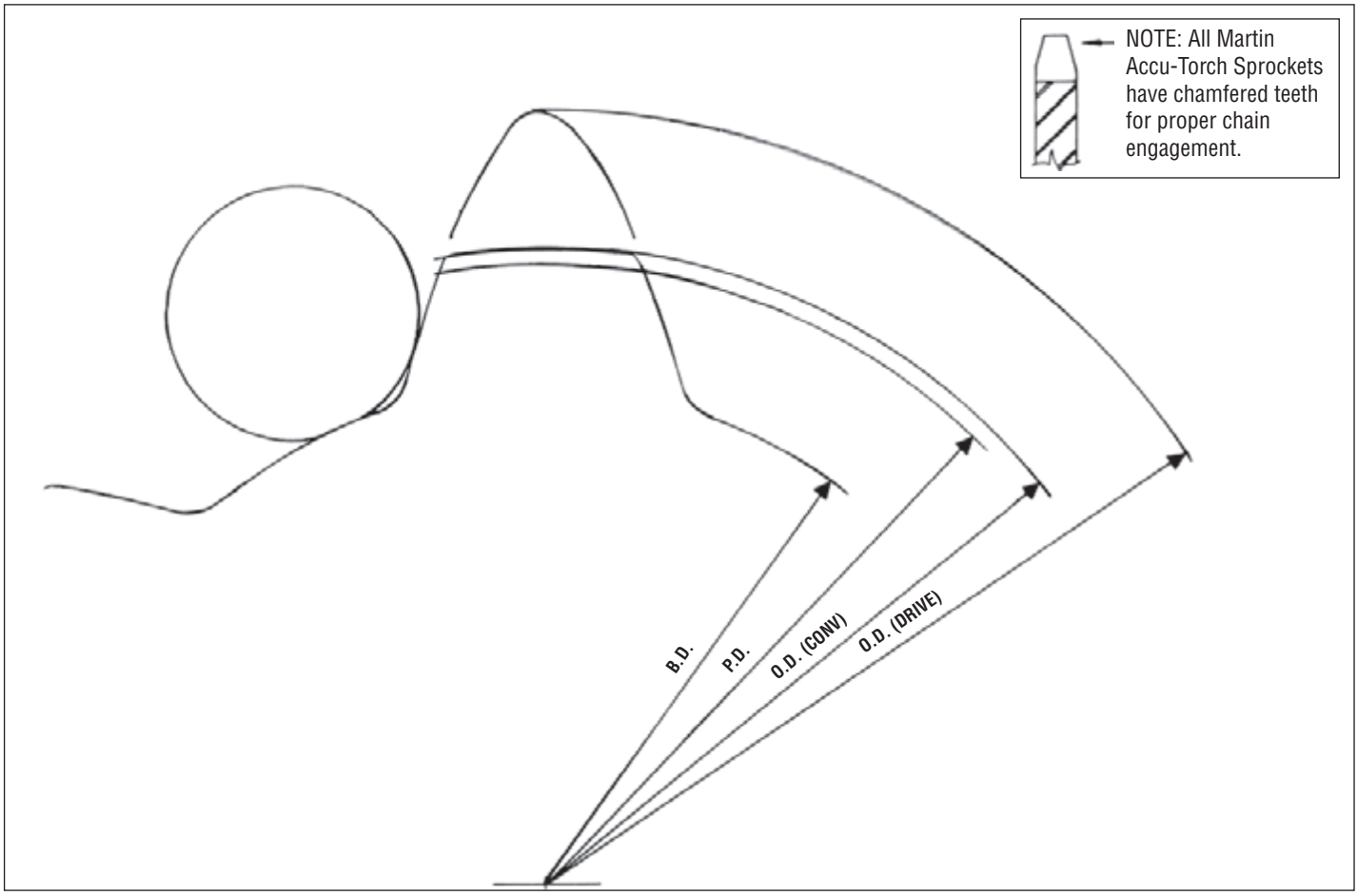
## Shear Pin Assembly Dimensions (Inches)

| Shear Pin Neck Diameter (Inches) | TORQUE RATING — POUND INCHES | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Shear Pin Hub Number | | | | | | | | | | | | | | |
| | SP17 | SP18 | SP19 | SP20 | SP21 | SP22 | SP23 | SP24 | SP25 | SP26 | SP27 | SP28 | SP29 | SP30 | SP31 |
| 3/32 | 1133 | 1367 | 1560 | 1716 | 1893 | 2055 | 2156 | | | | | | | | |
| 1/8 | 2014 | 2430 | 2774 | 3051 | 3365 | 3654 | 3833 | | | | | | | | |
| 5/32 | 3147 | 3796 | 4334 | 4767 | 5258 | 5709 | 5989 | 6783 | | | | | | | |
| 3/16 | 4532 | 5467 | 6240 | 6864 | 7571 | 8221 | 8624 | 9768 | 10508 | | | | | | |
| 7/32 | 6168 | 7441 | 8494 | 9343 | 10305 | 11190 | 11738 | 13295 | 14302 | | | | | | |
| 1/4 | 8056 | 9718 | 11094 | 12203 | 13459 | 14615 | 15332 | 17365 | 18680 | 19520 | 22989 | 24411 | | | |
| 9/32 | | | 14041 | 15444 | 17034 | 18497 | 19404 | 21978 | 23642 | 24705 | 29096 | 30895 | | | |
| 5/16 | | | 17334 | 19067 | 21030 | 22836 | 23956 | 27133 | 29188 | 30500 | 35921 | 38142 | 41867 | | |
| 11/32 | | | | 23071 | 25446 | 27632 | 28987 | 32831 | 35317 | 36905 | 43464 | 46152 | 50659 | | |
| 3/8 | | | | 27456 | 30283 | 32884 | 34497 | 39071 | 42030 | 43920 | 51726 | 54925 | 60289 | 66730 | |
| 13/32 | | | | | 35541 | 38593 | 40486 | 45855 | 49327 | 51545 | 60706 | 64461 | 70756 | 78315 | |
| 7/16 | | | | | 41219 | 44759 | 46954 | 53181 | 57208 | 59780 | 70404 | 74759 | 82060 | 90827 | |
| 15/32 | | | | | | 51381 | 53901 | 61049 | 65672 | 68625 | 80821 | 85820 | 94201 | 104266 | |
| 1/2 | | | | | | 58460 | 61327 | 69460 | 74720 | 78080 | 91957 | 97644 | 107180 | 118631 | |
| 17/32 | | | | | | | | 78414 | 84352 | 88145 | 103811 | 110231 | 120997 | 133923 | |
| 9/16 | | | | | | | | 87911 | 94568 | 98820 | 116383 | 123581 | 135650 | 150142 | |
| 19/32 | | | | | | | | | 105367 | 110105 | 129673 | 137694 | 151141 | 167288 | 179992 |
| 5/8 | | | | | | | | | 116750 | 122000 | 143683 | 152569 | 167469 | 185361 | 199437 |
| 21/32 | | | | | | | | | | 134505 | 158410 | 168208 | 184635 | 204360 | 219880 |
| 11/16 | | | | | | | | | | 147620 | 173856 | 184609 | 202638 | 224287 | 241319 |
| 23/32 | | | | | | | | | | | 190020 | 201773 | 221478 | 245140 | 263756 |
| 3/4 | | | | | | | | | | | 206903 | 219700 | 241156 | 266920 | 287190 |
| 25/32 | | | | | | | | | | | | | 261671 | 289626 | 311621 |
| 13/16 | | | | | | | | | | | | | 283023 | 313260 | 337049 |
| 27/32 | | | | | | | | | | | | | 305213 | 337820 | 363474 |
| 7/8 | | | | | | | | | | | | | 328240 | 363307 | 390897 |
| 29/32 | | | | | | | | | | | | | | 389721 | 419317 |
| 15/16 | | | | | | | | | | | | | | 417062 | 448734 |
| 31/32 | | | | | | | | | | | | | | 445330 | 479148 |
| 1 | | | | | | | | | | | | | | 474524 | 510559 |
| 1 1/16 | | | | | | | | | | | | | | | 576374 |
| 1 1/8 | | | | | | | | | | | | | | | 646177 |

# Flame Cut Sprockets for Engineering Chains

**Conveyor Style Tooth for Chains:**
**78 — 82 — 124 — 132**

**Driver Style Tooth for Chains:**
**62 — 1568 — 1030 — 238 — 1240 — 635 — 1207**




**Accu-Torch Sprockets are not intended to replace cut tooth roller chain sprockets.**

NOTE: For style other than Type "C" or Type "A", or Tooth Size not shown, consult factory for price. See Current List Price Sheet for Stock Pricing.

# Flame Cut Sprockets for Engineering Chains

## 62 FLAME CUT SPROCKETS FOR CHAINS: 062, 072, 162, 162 R, 2, 378 R, 402 RX, 62 CAST, 62 H, 62 Steel, 62A, 72 1/2, 962, H 62, HF 62 A, IS 620, LXS 627, R 362, R432, RR 362, RR 432, US 620, US 622

### Type C — 1.654" Pitch

PLATE THICKNESS 0.75"
ROLLER DIAMETER 0.8125"

### Type A

| Number of Teeth | Catalog Number | Pitch Diameter | Stock Bore | Max. Bore | Hub Diameter | L.T.B. | Approximate Weight | Catalog Number | Stock Bore | Approximate Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 62C12 | 6.39 | .938 | 2.75 | 4.25 | 3.125 | 15.8 | 62A12 | .938 | 6.8 |
| 13 | 62C13 | 6.91 | .938 | 3.25 | 4.75 | 3 | 19.4 | 62A13 | .938 | 8.0 |
| 14 | 62C14 | 7.43 | .938 | 3.25 | 4.75 | 3 | 20.6 | 62A14 | .938 | 9.2 |
| 15 | 62C15 | 7.96 | .938 | 3.25 | 4.75 | 3 | 22.0 | 62A15 | .938 | 10.5 |
| 17 | 62C17 | 9 | .938 | 3.25 | 4.75 | 3 | 24.0 | 62A17 | .938 | 12.0 |
| 19 | 62C19 | 10.05 | .938 | 3.25 | 4.75 | 3 | 28.0 | 62A19 | .938 | 16.8 |
| 20 | 62C20 | 10.57 | .938 | 3.25 | 4.75 | 3 | 30.0 | 62A20 | .938 | 18.6 |
| 24 | 62C24 | 12.67 | 1.25 | 3.75 | 5.5 | 4.375 | 49.0 | 62A24 | 1.25 | 26.0 |
| 26 | 62C26 | 13.72 | 1.25 | 3.75 | 5.5 | 4.375 | 53.0 | 62A26 | 1.25 | 30.0 |
| 30 | 62C30 | 15.82 | 1.25 | 3.75 | 5.5 | 4.375 | 65.0 | 62A30 | 1.25 | 42.0 |
| 36 | 62C36 | 18.98 | 1.25 | 3.75 | 5.5 | 4.375 | 82.0 | 62A36 | 1.25 | 59.0 |
| 54 | 62C54 | 28.45 | 1.25 | 3.75 | 5.5 | 4.375 | 125.0 | 62A54 | 1.25 | 135.0 |
| 60 | 62C60 | 31.6 | 1.25 | 3.75 | 5.5 | 4.375 | 138.0 | 62A60 | 1.25 | 169.0 |

## 78 FLAME CUT SPROCKETS FOR CHAINS: 433 1/2, 488, 578 R, 588 R, 7188, 75, 78, 81X, 87R, 88, 988, C 188, H 74, H 75, H 78, H 78 LR (14 - 18 TEETH ONLY), H 78 RT, H 78 SR, H 79, IS 880, IS 881, IS 882, LXS 881, LXS 882, LXS 886, LXS 887, R 588, R 778, RR 588, RR 778, S 188, S 78, SS 188, US 278 R, US 881, US 882, XS 578

### Type C — 2.609" Pitch

PLATE THICKNESS 0.875"
ROLLER DIAMETER 0.875"

### Type A

| Number of Teeth | Catalog Number | Pitch Diameter | Stock Bore | Max. Bore | Hub Diameter | L.T.B. | Approximate Weight | Catalog Number | Stock Bore | Approximate Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 78C8 | 6.82 | .938 | 3.25 | 4.75 | 3.125 | 21 | 78A8 | .938 | 9.0 |
| 9 | 78C9 | 7.63 | 1.25 | 3.438 | 5.25 | 3.875 | 29 | 78A9 | 1.25 | 11.3 |
| 10 | 78C10 | 8.44 | 1.25 | 3.438 | 5.25 | 3.875 | 31 | 78A10 | 1.25 | 13.9 |
| 11 | 78C11 | 9.26 | 1.25 | 3.438 | 5.25 | 3.875 | 34 | 78A11 | 1.25 | 16.7 |
| 12 | 78C12 | 10.08 | 1.25 | 3.438 | 5.25 | 3.875 | 37 | 78A12 | 1.25 | 19.8 |
| 13 | 78C13 | 10.90 | 1.25 | 3.75 | 5.5 | 4.5 | 46 | 78A13 | 1.25 | 23.0 |
| 14 | 78C14 | 11.72 | 1.25 | 3.75 | 5.5 | 4.5 | 49 | 78A14 | 1.25 | 27.0 |
| 15 | 78C15 | 12.55 | 1.5 | 3.75 | 5.5 | 4.5 | 53 | 78A15 | 1.5 | 30.0 |
| 17 | 78C17 | 14.20 | 1.5 | 3.75 | 5.5 | 4.5 | 62 | 78A17 | 1.5 | 39.0 |
| 19 | 78C19 | 15.85 | 1.5 | 4.5 | 6.5 | 5.375 | 90 | 78A19 | 1.5 | 50.0 |
| 21 | 78C21 | 17.51 | 1.5 | 4.5 | 6.5 | 5.375 | 101 | 78A21 | 1.5 | 61.0 |
| 24 | 78C24 | 19.99 | 1.5 | 4.5 | 6.5 | 5.375 | 119 | 78A24 | 1.5 | 79.0 |
| 25 | 78C25 | 20.82 | 1.5 | 4.5 | 6.5 | 5.375 | 124 | 78A25 | 1.5 | 84.0 |
| 28 | 78C28 | 23.31 | 1.5 | 4.5 | 6.5 | 5.375 | 132 | 78A28 | 1.5 | 105.0 |
| 30 | 78C30 | 24.96 | 1.5 | 4.5 | 6.5 | 5.375 | 150 | 78A30 | 1.5 | 123.0 |
| 35 | 78C35 | 29.11 | 1.5 | 4.5 | 6.5 | 5.375 | 170 | 78A35 | 1.5 | 166.0 |
| 40 | 78C40 | 33.25 | 1.5 | 4.938 | 7.25 | 6.75 | 226 | 78A40 | 1.5 | 216.0 |
| 42 | 78C42 | 34.91 | 1.5 | 4.938 | 7.25 | 6.75 | 240 | 78A42 | 1.5 | 240.0 |
| 46 | 78C46 | 38.31 | 1.5 | 4.938 | 7.25 | 6.75 | 258 | 78A46 | 1.5 | 286.0 |
| 54 | 78C54 | 44.87 | 1.5 | 4.938 | 7.25 | 6.75 | 368 | 78A54 | 1.5 | 302.0 |
| 60 | 78C60 | 49.85 | 1.5 | 4.938 | 7.25 | 6.75 | 388 | 78A60 | 1.5 | 322.0 |

## 78 BORED-TO-SIZE FLAME CUT SPROCKETS

### Type C — 2.609" Pitch

PLATE THICKNESS 0.875"
ROLLER DIAMETER 0.8125"

| Part Number | Pitch Diameter | Approximate Weight (lb) | Stock Finished Bores - Includes Keyway and 2 Setscrews | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 78CS8 | 6.82" | 21 | 1.438 | 1.938 | 2 | 2.188 | 2.438 | 2.938 | — |
| 78CS9 | 7.63" | 29 | 1.438 | 1.938 | 2 | 2.188 | 2.438 | 2.938 | — |
| 78CS10 | 8.44" | 31 | 1.438 | 1.938 | 2 | 2.188 | 2.438 | 2.938 | 3.438* |
| 78CS11 | 9.26" | 34 | — | 1.938 | 2 | 2.188 | 2.438 | 2.938 | 3.438* |
| 78CS12 | 10.08" | 37 | — | 1.938 | 2 | 2.188 | 2.438 | 2.938 | 3.438* |
| 78CS13 | 10.90" | 46 | — | 1.938 | — | 2.188 | 2.438 | 2.938 | 3.438* |
| 78CS14 | 11.72" | 49 | — | 1.938 | — | 2.188 | 2.438 | 2.938 | 3.438* |

Please contact Martin if Hub OD and Length Thru Bore dimensions are critical. These parts have setscrews at 90 degrees and 180 degrees instead of over keyway and 90 degrees.

# Flame Cut Sprockets for Engineering Chains

## 1568 FLAME CUT SPROCKETS FOR CHAINS: 1803 A, 1803 AB, AX 1568, IS 3010, IS 3011, JS 3011, LXS 3011, LXS 3011 M, MXS 3011, SS 568, US 3011, X568, XX 568

**Type C — 3.067" Pitch**

**PLATE THICKNESS 1.25"**
**ROLLER DIAMETER 1.625"**

**Type A**

| Number of Teeth | Catalog Number | Pitch Diameter | Stock Bore | Max. Bore | Hub Diameter | L.T.B. | Approximate Weight | Catalog Number | Stock Bore | Approximate Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 1568C10 | 9.92 | 1.5 | 3.75 | 5.5 | 4.25 | 46 | 1568A10 | 1.5 | 28 |
| 12 | 1568C12 | 11.85 | 1.5 | 3.75 | 5.5 | 4.25 | 58 | 1568A12 | 1.5 | 40 |
| 14 | 1568C14 | 13.78 | 1.5 | 3.75 | 5.5 | 4.25 | 73 | 1568A14 | 1.5 | 53 |
| 30 | 1568C30 | 29.34 | 1.5 | 4.5 | 6.5 | 5.75 | 217 | 1568A30 | 1.5 | 240 |
| 36 | 1568C36 | 35.19 | 1.5 | 5.375 | 7.5 | 5.875 | 257 | 1568A36 | 1.5 | 290 |
| 42 | 1568C42 | 41.04 | 1.5 | 5.5 | 8 | 6.125 | 407 | 1568A42 | 1.5 | 340 |
| 48 | 1568C48 | 46.89 | 1.5 | 5.5 | 8 | 6.125 | 448 | 1568A48 | 1.5 | 381 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

## 1030 FLAME CUT SPROCKETS FOR CHAINS: 1030 , 1037, 1190, 1190 R, 1539, API 3, CHAMPION NO. 3, IS 1030, IS 1031, IS 1032, IS 1037, LXS 1031, LXS 1032, R 1033, R 1035, SS 40, SS 40 Hyp, SXX, US 1031, US 1032

**Type C — 3.075" Pitch**

**PLATE THICKNESS 1.25"**
**ROLLER DIAMETER 1.25"**

**Type A**

| Number of Teeth | Catalog Number | Pitch Diameter | Stock Bore | Max. Bore | Hub Diameter | L.T.B. | Approximate Weight | Catalog Number | Stock Bore | Approximate Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 1030C8 | 8.05 | 1.25 | 3.25 | 5 | 3.875 | 31 | 1030A8 | 1.25 | 17.9 |
| 9 | 1030C9 | 8.99 | 1.25 | 3.25 | 5 | 3.875 | 36 | 1030A9 | 1.25 | 22.4 |
| 10 | 1030C10 | 9.95 | 1.25 | 3.25 | 5 | 3.875 | 40 | 1030A10 | 1.25 | 28.0 |
| 11 | 1030C11 | 10.91 | 1.5 | 3.75 | 5.5 | 4.25 | 51 | 1030A11 | 1.5 | 33.0 |
| 12 | 1030C12 | 11.88 | 1.5 | 3.75 | 5.5 | 4.25 | 57 | 1030A12 | 1.5 | 39.0 |
| 13 | 1030C13 | 12.85 | 1.5 | 3.75 | 5.5 | 4.25 | 64 | 1030A13 | 1.5 | 46.0 |
| 15 | 1030C15 | 14.79 | 1.5 | 4 | 6 | 5.125 | 91 | 1030A15 | 1.5 | 60.0 |
| 17 | 1030C17 | 16.73 | 1.5 | 4 | 6 | 5.125 | 109 | 1030A17 | 1.5 | 78.0 |
| 19 | 1030C19 | 18.68 | 1.5 | 4.5 | 6.5 | 5.75 | 137 | 1030A19 | 1.5 | 97.0 |
| 21 | 1030C21 | 20.63 | 1.5 | 4.5 | 6.5 | 5.75 | 158 | 1030A21 | 1.5 | 118.0 |
| 24 | 1030C24 | 23.56 | 1.5 | 4.5 | 6.5 | 5.75 | 176 | 1030A24 | 1.5 | 154.0 |
| 25 | 1030C25 | 24.53 | 1.5 | 5.375 | 7.5 | 5.875 | 206 | 1030A25 | 1.5 | 167.0 |
| 28 | 1030C28 | 27.46 | 1.5 | 5.375 | 7.5 | 5.875 | 236 | 1030A28 | 1.5 | 210.0 |
| 30 | 1030C30 | 29.42 | 1.5 | 5.375 | 7.5 | 5.875 | 254 | 1030A30 | 1.5 | 240.0 |
| 35 | 1030C35 | 34.30 | 1.5 | 5.5 | 8 | 6.125 | 313 | 1030A35 | 1.5 | 327.0 |
| 40 | 1030C40 | 39.19 | 1.5 | 5.5 | 8 | 6.125 | 360 | 1030A40 | 1.5 | 427.0 |
| 42 | 1030C42 | 41.15 | 1.5 | 5.5 | 8 | 6.125 | 410 | 1030A42 | 1.5 | 343.0 |
| 48 | 1030C48 | 47.03 | 1.5 | 6.5 | 9.5 | 6.75 | 501 | 1030A48 | 1.5 | 384.0 |
| 54 | 1030C54 | 52.89 | 1.5 | 6.5 | 9.5 | 6.75 | 549 | 1030A54 | 1.5 | 432.0 |
| 60 | 1030C60 | 58.75 | 1.5 | 7 | 10 | 7.5 | 642 | 1030A60 | 1.5 | 506.0 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Flame Cut Sprockets for Engineering Chains

## 82 FLAME CUT SPROCKETS FOR CHAINS: 103, 131, 382, 4103, 527 R, 527 RX, 6131, C131, C9103, ER131, H 82, S 131, SBO2103, SBS131, SCA9103, SS 131, WH82, WH9103HD, WS 82, WS 82 H

### Type C — 3.075" Pitch

PLATE THICKNESS 1.125"
ROLLER DIAMETER 1.219"

### Type A

| Number of Teeth | Catalog Number | Pitch Diameter | Stock Bore | Max. Bore | Hub Diameter | L.T.B. | Approximate Weight | Catalog Number | Stock Bore | Approximate Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 82C7 | 7.09 | .813 | 2.938 | 4.5 | 3.875 | 24 | 82A7 | .813 | 12.6 |
| 8 | 82C8 | 8.04 | 1.25 | 3.75 | 5.25 | 4.125 | 34 | 82A8 | 1.25 | 16 |
| 9 | 82C9 | 8.99 | 1.25 | 3.75 | 5.25 | 4.125 | 38 | 82A9 | 1.25 | 20 |
| 10 | 82C10 | 9.95 | 1.25 | 3.75 | 5.25 | 4.125 | 43 | 82A10 | 1.25 | 25 |
| 11 | 82C11 | 10.91 | 1.25 | 3.938 | 5.75 | 4.375 | 54 | 82A11 | 1.25 | 30 |
| 12 | 82C12 | 11.88 | 1.25 | 3.938 | 5.75 | 4.375 | 60 | 82A12 | 1.25 | 36 |
| 13 | 82C13 | 12.85 | 1.25 | 3.938 | 5.75 | 4.375 | 66 | 82A13 | 1.25 | 42 |
| 14 | 82C14 | 13.82 | 1.25 | 3.938 | 5.75 | 4.375 | 72 | 82A14 | 1.25 | 48 |
| 15 | 82C15 | 14.79 | 1.5 | 4.5 | 6.5 | 5.625 | 94 | 82A15 | 1.5 | 54 |
| 16 | 82C16 | 15.76 | 1.5 | 4.5 | 6.5 | 5.625 | 102 | 82A16 | 1.5 | 62 |
| 17 | 82C17 | 16.73 | 1.5 | 4.5 | 6.5 | 5.625 | 110 | 82A17 | 1.5 | 70 |
| 18 | 82C18 | 17.71 | 1.5 | 4.5 | 6.5 | 5.625 | 119 | 82A18 | 1.5 | 79 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

## 82 BORED-TO-SIZE FLAME CUT SPROCKETS

### Type C — 3.075" Pitch

PLATE THICKNESS 1.125"
ROLLER DIAMETER 1.219"

| Number of Teeth | Catalog Number | Pitch Diameter | Approximate Weight (lb) | Stock Finished Bores - Includes Keyway and 2 Setscrews | |
|---|---|---|---|---|---|
| 10 | 82CS10 | 9.95" | 43 | 2.438 | 2.938 |
| 11 | 82CS11 | 10.91" | 54 | 2.438 | 2.938 |
| 12 | 82CS12 | 11.88" | 60 | 2.438 | 2.938 |

Please contact Martin if Hub OD and Length Thru Bore dimensions are critical

## 238 FLAME CUT SPROCKETS FOR CHAINS: 1616 A, IS 3514 J, LXS 3514, LXS 3514 M, MXS 3514, RX 238, US 3514

### Type C — 3.500" Pitch

PLATE THICKNESS 1.25"
ROLLER DIAMETER 1.75"

### Type A

| Number of Teeth | Catalog Number | Pitch Diameter | Stock Bore | Max. Bore | Hub Diameter | L.T.B. | Approximate Weight | Catalog Number | Stock Bore | Approximate Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 238C10 | 11.33 | 1.5 | 3.75 | 5.5 | 4.25 | 54 | 238A10 | 1.5 | 35 |
| 12 | 238C12 | 13.52 | 1.5 | 3.75 | 5.5 | 4.25 | 70 | 238A12 | 1.5 | 51 |
| 14 | 238C14 | 15.73 | 1.5 | 3.75 | 5.5 | 4.25 | 88 | 238A14 | 1.5 | 60 |
| 30 | 238C30 | 33.48 | 1.5 | 4 | 6 | 5.125 | 312 | 238A30 | 1.5 | 253 |
| 36 | 238C36 | 40.16 | 1.5 | 4 | 6 | 5.125 | 445 | 238A36 | 1.5 | 370 |
| 42 | 238C42 | 46.84 | 1.5 | 5.5 | 8 | 6.125 | 446 | 238A42 | 1.5 | 379 |
| 48 | 238C48 | 53.52 | 1.5 | 5.5 | 8 | 6.125 | 517 | 238A48 | 1.5 | 450 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Flame Cut Sprockets for Engineering Chains

## 124 FLAME CUT SPROCKETS FOR CHAINS: H 124, W 124, WH 124, WR 124, WS 124

### Type C — 4.000" Pitch

PLATE THICKNESS 1.5"
ROLLER DIAMETER 1.5"

### Type A

| Number of Teeth | Catalog Number | Pitch Diameter | Stock Bore | Max. Bore | Hub Diameter | L.T.B. | Approximate Weight | Catalog Number | Stock Bore | Approximate Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 124C6 | 8.00 | 0.938 | 3.25 | 4.75 | 4.625 | 36 | 124A6 | 0.938 | 21 |
| 7 | 124C7 | 9.22 | 1 | 3.938 | 5.75 | 4.75 | 52 | 124A7 | 1 | 28 |
| 8 | 124C8 | 10.45 | 1 | 3.938 | 5.75 | 4.75 | 61 | 124A8 | 1 | 37 |
| 9 | 124C9 | 11.70 | 1 | 3.938 | 5.75 | 4.75 | 70 | 124A9 | 1 | 46 |
| 10 | 124C10 | 12.94 | 1 | 3.938 | 5.75 | 4.75 | 79 | 124A10 | 1 | 55 |
| 11 | 124C11 | 14.20 | 1.5 | 4.25 | 6.25 | 4.75 | 95 | 124A11 | 1.5 | 68 |
| 12 | 124C12 | 15.45 | 1.5 | 4.25 | 6.25 | 4.75 | 107 | 124A12 | 1.5 | 80 |
| 13 | 124C13 | 16.72 | 1.5 | 4.25 | 6.25 | 4.75 | 120 | 124A13 | 1.5 | 93 |
| 14 | 124C14 | 17.98 | 1.5 | 4.25 | 6.25 | 4.75 | 135 | 124A14 | 1.5 | 108 |
| 15 | 124C15 | 19.24 | 1.5 | 4.375 | 6.75 | 6 | 168 | 124A15 | 1.5 | 124 |
| 16 | 124C16 | 20.50 | 1.5 | 4.375 | 6.75 | 6 | 185 | 124A16 | 1.5 | 141 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

## 124 BORED-TO-SIZE FLAME CUT SPROCKETS

### Type C — 4.000" Pitch

PLATE THICKNESS 1.5"
ROLLER DIAMETER 1.5"

| Part Number | Pitch Diameter | Approximate Weight (lb) | Stock Finished Bores - Includes Keyway and 2 Setscrews | | | |
|---|---|---|---|---|---|---|
| 124CS9 | 11.70" | 70 | 2.188 | 2.438 | 2.938 | |
| 124CS10 | 12.94" | 79 | | 2.438 | 2.938 | 3.438 |
| 124CS11 | 14.20" | 95 | | | 2.938 | 3.438 |
| 124CS12 | 15.45" | 107 | | | 2.938 | 3.438 |

Please contact Martin if Hub OD and Length Thru Bore dimensions are critical

## 1240 FLAME CUT SPROCKETS FOR CHAINS: 1240, 1244, 3 BAR HYPER, API 4, CHAMPION NO. 4, IS 1242, IS 1425, LXS 1242, LXS 1245, R 1248, SS 124, SS 124, SS 124 D, SS 124 DP

### Type C — 4.063" Pitch

PLATE THICKNESS 1.75"
ROLLER DIAMETER 1.75"

### Type A

| Number of Teeth | Catalog Number | Pitch Diameter | Stock Bore | Max. Bore | Hub Diameter | L.T.B. | Approximate Weight (lb) | Catalog Number | Stock Bore | Approximate Weight (lb) |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 1240C6 | 8.13 | 0.938 | 2.5 | 4 | 4 | 34 | 1240A6 | 0.938 | 26 |
| 7 | 1240C7 | 9.36 | 1.25 | 3.75 | 5.25 | 4.75 | 51 | 1240A7 | 1.25 | 34 |
| 8 | 1240C8 | 10.62 | 1.5 | 4.5 | 6.5 | 5 | 78 | 1240A8 | 1.5 | 44 |
| 9 | 1240C9 | 11.88 | 1.5 | 4.5 | 6.5 | 5 | 89 | 1240A9 | 1.5 | 55 |
| 10 | 1240C10 | 13.15 | 1.5 | 4.5 | 6.5 | 5 | 101 | 1240A10 | 1.5 | 67 |
| 11 | 1240C11 | 14.42 | 1.5 | 4.5 | 6.5 | 5 | 115 | 1240A11 | 1.5 | 81 |
| 12 | 1240C12 | 15.70 | 1.5 | 5.25 | 7 | 6 | 140 | 1240A12 | 1.5 | 96 |
| 13 | 1240C13 | 16.98 | 1.5 | 5.25 | 7 | 6 | 155 | 1240A13 | 1.5 | 111 |
| 14 | 1240C14 | 18.26 | 1.5 | 5.25 | 7 | 6 | 174 | 1240A14 | 1.5 | 130 |
| 15 | 1240C15 | 19.54 | 1.5 | 5.25 | 7 | 6 | 192 | 1240A15 | 1.5 | 148 |
| 16 | 1240C16 | 20.83 | 1.5 | 5.5 | 8 | 6.25 | 230 | 1240A16 | 1.5 | 168 |
| 18 | 1240C18 | 23.40 | 1.5 | 5.5 | 8 | 6.25 | 275 | 1240A18 | 1.5 | 213 |
| 20 | 1240C20 | 25.97 | 1.5 | 5.5 | 8 | 6.25 | 300 | 1240A20 | 1.5 | 263 |
| 21 | 1240C21 | 27.26 | 1.5 | 5.5 | 8 | 6.25 | 319 | 1240A21 | 1.5 | 289 |
| 24 | 1240C24 | 31.12 | 1.5 | 5.5 | 8 | 6.25 | 387 | 1240A24 | 1.5 | 377 |
| 25 | 1240C25 | 33.42 | 1.5 | 6 | 9 | 6.25 | 426 | 1240A25 | 1.5 | 409 |
| 28 | 1240C28 | 36.29 | 1.5 | 6 | 9 | 6.25 | 494 | 1240A28 | 1.5 | 509 |
| 30 | 1240C30 | 38.87 | 1.5 | 7 | 10 | 6.75 | 583 | 1240A30 | 1.5 | 587 |
| 35 | 1240C35 | 45.33 | 1.5 | 7 | 10 | 6.75 | 729 | 1240A35 | 1.5 | 620 |
| 40 | 1240C40 | 51.78 | 1.5 | 7.5 | 11 | 7.75 | 932 | 1240A40 | 1.5 | 721 |
| 48 | 1240C48 | 62.12 | 1.5 | 7.5 | 11 | 7.75 | 1078 | 1240A48 | 1.5 | 867 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Flame Cut Sprockets for Engineering Chains

## 635 FLAME CUT SPROCKETS FOR CHAINS: 1350, 1340 RX, 450 SX, 450 SXX, B 635, IS 4522, LXS 4522 M, RO 635, X 635

**Type C — 4.500" Pitch**

**PLATE THICKNESS 1.75"**
**ROLLER DIAMETER 2.25"**

**Type A**

| Number of Teeth | Catalog Number | Pitch Diameter | Stock Bore | Max. Bore | Hub Diameter | L.T.B. | Approximate Weight (lb) | Catalog Number | Stock Bore | Approximate Weight (lb) |
|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 635C10 | 14.56 | 1.5 | 4 | 6.5 | 5 | 111 | 635A10 | 1.5 | 87 |
| 12 | 635C12 | 17.39 | 1.5 | 4 | 6.5 | 5 | 148 | 635A12 | 1.5 | 119 |
| 14 | 635C14 | 20.22 | 1.5 | 4 | 6.5 | 5 | 188 | 635A14 | 1.5 | 159 |
| 30 | 635C30 | 43.05 | 1.5 | 5.375 | 7.5 | 5.875 | 592 | 635A30 | 1.5 | 542 |
| 36 | 635C36 | 51.63 | 1.5 | 5.375 | 7.5 | 5.875 | 764 | 635A36 | 1.5 | 715 |
| 42 | 635C42 | 60.22 | 1.5 | 6.5 | 9.5 | 7.25 | 884 | 635A42 | 1.5 | 776 |
| 48 | 635C48 | 68.81 | 1.5 | 7.5 | 11 | 7.75 | 1174 | 635A48 | 1.5 | 963 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

## 1207 FLAME CUT SPROCKETS FOR CHAINS: 1510 XX, 1602 A, 1602 AA, A 1302, JS 5031, LXS 5028, LXS 6038 M, MXS 5028, RO 1205, RX 1207, US 5201 A

**Type C — 5.000" Pitch**

**PLATE THICKNESS 2.25"**
**ROLLER DIAMETER 2.5"**

**Type A**

| Number of Teeth | Catalog Number | Pitch Diameter | Stock Bore | Max. Bore | Hub Diameter | L.T.B. | Approximate Weight (lb) | Catalog Number | Stock Bore | Approximate Weight (lb) |
|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 1207C10 | 16.18 | 1.5 | 4.5 | 6.5 | 5.5 | 160 | 1207A10 | 1.5 | 131 |
| 12 | 1207C12 | 19.32 | 1.5 | 4.5 | 6.5 | 5.5 | 215 | 1207A12 | 1.5 | 187 |
| 14 | 1207C14 | 22.47 | 1.5 | 5.375 | 7.5 | 5.875 | 298 | 1207A14 | 1.5 | 254 |
| 30 | 1207C30 | 47.84 | 1.5 | 6 | 9 | 6.75 | 809 | 1207A30 | 1.5 | 730 |
| 36 | 1207C36 | 57.37 | 1.5 | 7 | 10 | 8.5 | 1161 | 1207A36 | 1.5 | 1025 |
| 42 | 1207C42 | 66.91 | 1.5 | 7 | 10 | 8.5 | 1245 | 1207A42 | 1.5 | 1109 |
| 48 | 1207C48 | 76.45 | 1.5 | 7.5 | 11 | 10.25 | 2005 | 1207A48 | 1.5 | 1794 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

## 132 FLAME CUT SPROCKETS FOR CHAINS: 6150, 150 X, A 132, A 132 WS, C 132, C 132 M, C 132 W, SX 150, SXA 150, W 157, WH 157, WR 157, WS 132

**Type C — 6.050" Pitch**

**PLATE THICKNESS 2.75"**
**ROLLER DIAMETER 1.719"**

**Type A**

| Number of Teeth | Catalog Number | Pitch Diameter | Stock Bore | Max. Bore | Hub Diameter | L.T.B. | Approximate Weight (lb) | Catalog Number | Stock Bore | Approximate Weight (lb) |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 132C6 | 12.10 | 1.5 | 4.5 | 6.5 | 6 | 119 | 132A6 | 1.5 | 90 |
| 7 | 132C7 | 13.95 | 1.5 | 4.5 | 6.5 | 6 | 149 | 132A7 | 1.5 | 120 |
| 8 | 132C8 | 15.81 | 1.5 | 4.5 | 6.5 | 6 | 182 | 132A8 | 1.5 | 153 |
| 9 | 132C9 | 17.69 | 1.5 | 5.375 | 7.5 | 6.375 | 236 | 132A9 | 1.5 | 192 |
| 10 | 132C10 | 19.58 | 1.5 | 5.375 | 7.5 | 6.375 | 278 | 132A10 | 1.5 | 235 |
| 11 | 132C11 | 21.47 | 1.5 | 5.375 | 7.5 | 6.375 | 326 | 132A11 | 1.5 | 283 |
| 12 | 132C12 | 23.38 | 1.5 | 5.375 | 7.5 | 6.375 | 378 | 132A12 | 1.5 | 334 |

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

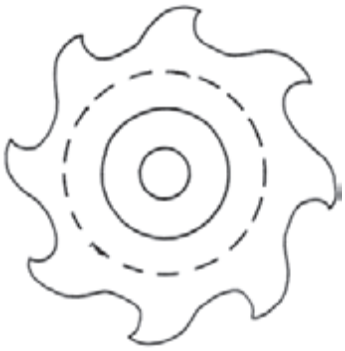
# Veneer Dryer Parts

## 81X 81 X (2.609)

### Hooked Tooth Sprocket
### B Style (Right and Left Hand)

| Number of Teeth | Catalog Number | Outside Diameter | Type | Bore | | Hub (Inches) | |
|---|---|---|---|---|---|---|---|
| | | | | Stock | Max. | Diam. | L.T.B. |
| 8 | 81X-B8RH | 6.5 | B | 1 | 1.5 | 2.375 | 1.625 |
| 8 | 81X-B8LH | 6.5 | B | 1 | 1.5 | 2.375 | 1.625 |

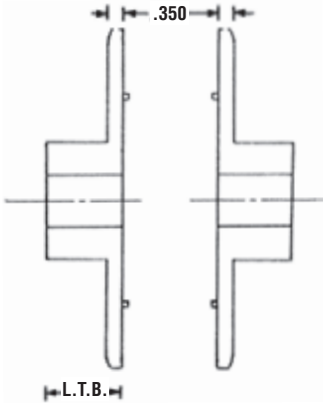
(RH) Right Hand



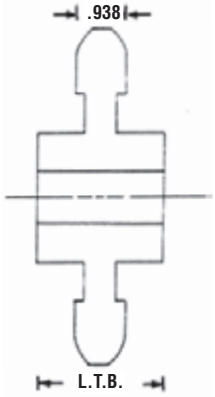
(LH) Left Hand

### C Style

| Number of Teeth | Catalog Number | Outside Diameter | Type | Bore | | Hub (Inches) | |
|---|---|---|---|---|---|---|---|
| | | | | Stock | Max. | Diam. | L.T.B. |
| 7 | 81X-C7 | 5.75 | C | .75 | 1.5 | 2.375 | 2.375 |
| 8 | 81X-C8 | 6.75 | C | .75 | 1.5 | 2.375 | 2.375 |
| 9 | 81X-C9 | 7.438 | C | .75 | 1.5 | 2.375 | 2.375 |



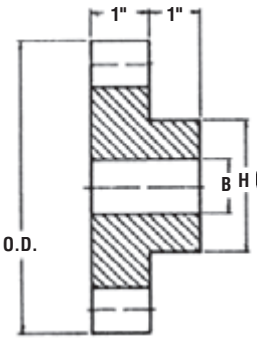

Type B
(Cast Iron)




Type C
(Cast Iron)

### Star Gear

| Number of Teeth | Catalog Number | Outside Diameter | Type | Bore | | Hub (Inches) | |
|---|---|---|---|---|---|---|---|
| | | | | Stock | Max. | Diam. | L.T.B. |
| 10 | SG510 | 4.484 | B | 1 | 1.5 | 2.375 | 2 |

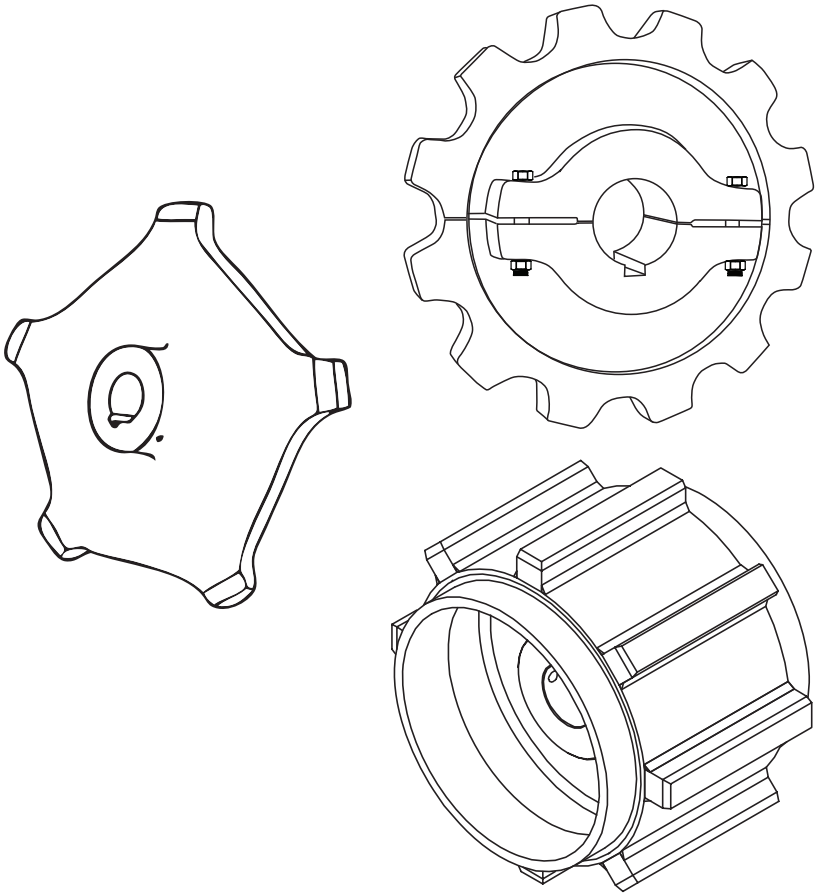



Type B
(Cast Iron)

Call Martin for Price and Availability.

# MTO Engineered Class Cast Iron Sprockets

- Cast Split Sprockets
- Hunting Tooth Sprockets
- Rivetless Chain Sprocket
- Drag Chain Sprockets
  - Plain
  - Flanged
- Traction Wheels
  - Plain
  - Flanged
- Plate Body Sprockets
- Chain Saver Rim Sprockets
- Adjustable Hub Sprockets
- Chilled Rim Sprockets



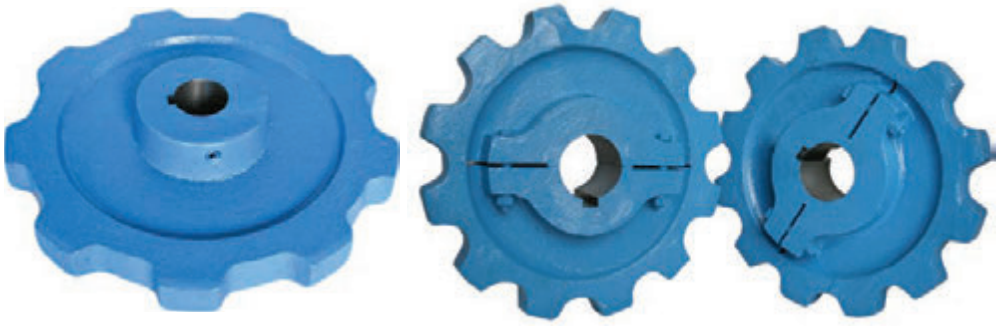
## Sprockets Available to fit Standard Chain Sizes

| | | | | | | |
|---|---|---|---|---|---|---|
| 55 | 103 | H121 | 197 | 678 | 856 | 998 |
| D60 | H104 | SD121 | 348 | 698 | 859 | 1030 |
| 62 | W-106 | WD-122 | 348 | CS720S | F912R | 1036 |
| 67 | S-110 | WD-123 | 458 | 720S | E922 | 1113 |
| 78 | WD-110 | WD-124 | 468 | 730 | F922 | 1120 |
| W-78 | 111SP | 130 | WD-480 | A730 | 925R | 1131 |
| 94R | 111 | 132 | 483 | CS730 | 933 | F1222 |
| 95R | WD-112 | 183 | 520 | 823 | 951 | 2124 |
| 102B | WD-116 | 188 | 531 | 825 | D963R | 2180 |
| H102 | WD-119 | 194 | 625R | 830 | E963R | 4850 |
| 102.5 | WD-120 | 196 | 667 | 844 | F963R | 9250 |

Not all sprockets fit all chain sizes, see factory for availability.

# Cast Iron Sprocket Types

## Now Stocking Select Sizes - Call Martin for Availability



**C 830 C 9 CR S**

**Cast Iron**
CWD if Wide Drag

**Chain**
Example:
132 - 82
102B - 55
78 - 131

**Sprocket Type**
A - Plate Only
B - Hub One Side
C - Hub Both Sides
D - Detachable Hubs

**No. of Teeth**

**Special Instructions**
CR - Chilled Rim
S - Split
CS - Chain Saver
F - Flanged

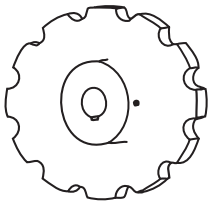


**Plate Body**

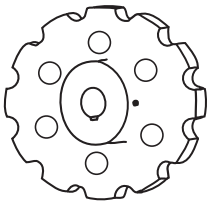
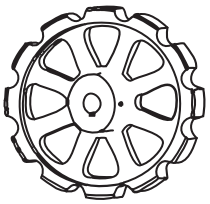
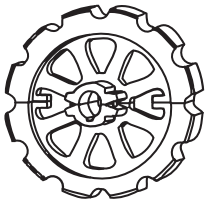


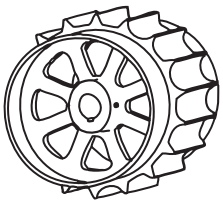
**Plate Body with Lightening Holes**



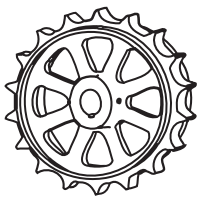
**Arm Body**



**Split Arm Body**



**Drum Chainsaver Rim Arm Body**



**Chainsaver Rim**

## SPROCKET STYLES

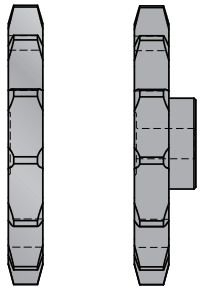
**Cast Arm Body** is often used in larger diameter sprockets. The arms are advantageous because they reduce the weight as well as the cost.

**Cast Split (Arm or Plate) Body-** The split style sprocket eases maintenance and installation. The sprocket can be removed without having to disassemble an entire system.

**Cast Plate Body style** is primarily used in smaller diameter sprockets when the arm body style is unnecessary. Larger diameter sprockets only use this plate body style when the torque is beyond the limits of the arm body style.

**Special Sprockets –** Martin also offers special made-to-order sprockets such as the flanged-rim sprocket (image to the left).

# Cast Iron Sprocket Types



Type A Type B

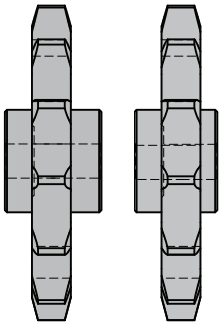
**Hub Types**
Cast Iron Sprockets are offered in different hub types including Type A, B, and C.

**Type A**
An A Style Sprocket is a flat sprocket with no hub extension on either side.

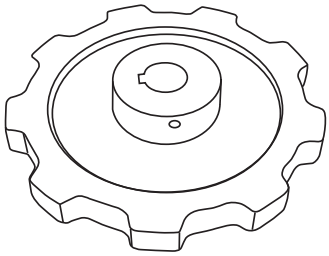
**Type B**
A B Style Sprocket is a sprocket with a hub extension on one side.

**Type C**
A C Style Sprocket is a sprocket with a hub extension on both sides.

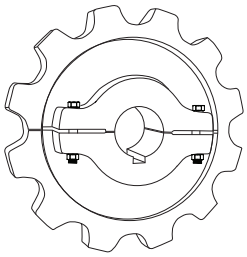
**Type C Offset hubs are the same as a "Type C", however the hubs are slightly off center.**



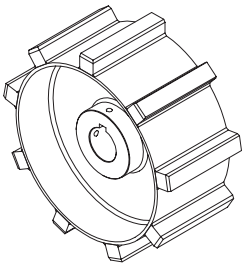
Type C Type C Offset



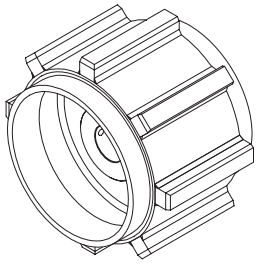
**Non-Split Engineering Class Sprockets** These sprockets can be supplied in various cast materials, with or without hardened teeth.



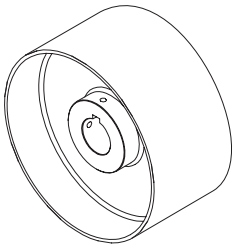
**Split Sprockets** are made in one piece, machined, then split into two halves after machining. The two halves can then be bolted onto the shaft without removing the shaft or the bearings from the installation. Also available in Chilled Rim.



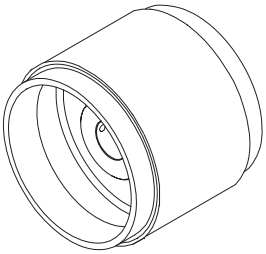
**Drag Chain Sprockets** are of drum type design with full width teeth. There sprockets are available plain, as shown here, or drum flanged as shown below. All types have been redesigned to provide additional wear life on the welded steel drag chains that have largely replaced malleable types.



**Drum Flanged Drag Chain Sprockets** have side extension flanges extending from below the root line. These flanges are used with refuse over the end of conveyors and to serve as a guard if chains jump sprockets or traction wheels.

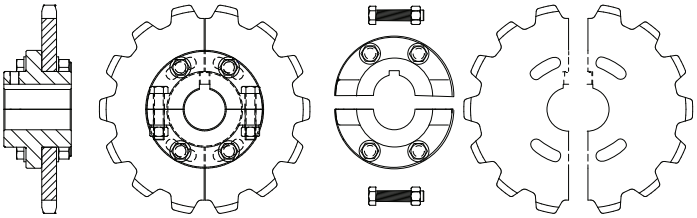


**Drag Chain Traction Wheels** are identical to sprockets but have no teeth. They are commonly used to turn chains at the ends of conveyors or to increase chain wrap in "S" Wrap" drive designs. They are available plain (left) or drum flanged.

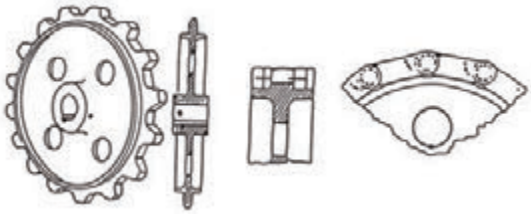


**Drum Flanged Traction Wheels** are used with drag chains either at the discharge end of the conveyor to guide the refuse over the end, or as a chain guard. Flanges on drag chain sprockets and traction wheels are available in many different lengths.

# Cast Iron Sprocket Types

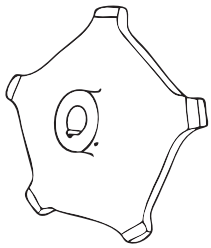


**Adjustable Hub Sprockets** are designed for use in multi-strand conveyors using top carriers or flights, where alignment of adjacent strands is a problem. The hub allows the chain to be moved forward or backward several inches as conditions in the conveyor require. The adjustable sprockets are available in solid or split construction.



**Chainsaver Rims** are short flanges below the root line of the sprocket which make contact with the sidebars of the chain. The rims help support the chain and keep the chain running on the true pitch line of the sprocket. Chainsaver Rims are particularly advantageous when used on elevator headshaft sprockets handling heavy or abrasive loads, and in sewage treatment applications where long, unsupported strands are common.

**Hunting Tooth Sprockets** are designed with an odd number of teeth, with the pitch of the teeth 1/2 the pitch of the chain. This allows each tooth to contact the chain only every other revolution. Wear life of the sprocket is effectively doubled. A Chainsaver Rim is frequently added to these sprocket to give even longer life.



**Drop Forged or Rivetless Chain Sprockets** are of skip tooth design, since the block link of these chains is solid. Sprockets are available for all popular drop forged chains in both regular and X series.

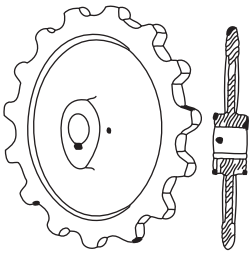


**Plate Body with Cam-Shaped Hubs**
All sprockets are produced with plate type bodies as shown. Few spoked sprockets are offered due to strength limitations of this type design. As space permits, many smaller sprockets are made with cam-shaped hubs, which give additional strength over the keyway, but reduces weight compared to conventional round hubs of the same diameter.

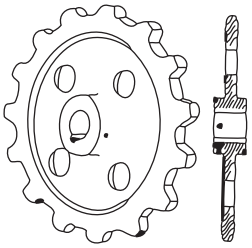
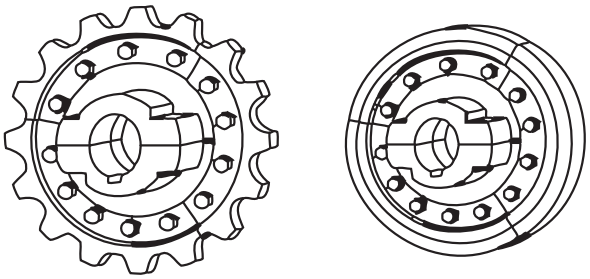
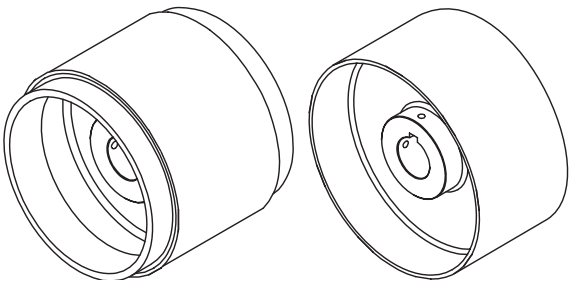


**Plate body with Lightening Holes**
Where space permits, larger sprockets are made with lightening holes cast through the body to reduce weight and facilitate handling. Standard round hubs are used on most larger sprockets, with diameters of hubs as appropriate according to chain type and ANSI hub specifications.



**Segmental Sprockets** - Martin offers segmental sprockets with either solid or split hub bodies. Segmental sprockets greatly reduce the labor costs as well as the downtime associated with replacing worn standard type sprockets. Worn segments can be replaced by simply removing and replacing segments only, eliminating the need to remove the shaft, and or bearing assemblies, as well as the need to realign the hub.



**Traction Wheels -** Traction Wheels are offered in solid or segmental construction. They are often used in bucket elevators and can withstand abrasive materials.

# Information Needed to Quote/Order

The following information should be given when ordering sprockets or traction wheels:

1. **QUANTITY** _____
   (Number of sprockets required)

2. **CHAIN** _____
   (Number and type to be used)

3. **NO. OF TEETH** _____
   (The effective number of teeth should be specified when ordering a double duty, hunting tooth or skip tooth sprocket)

4. **PITCH DIAMETER** _____
   (For traction wheels, the outside diameter should be specified in place of the pitch diameter)

5. **MATERIAL** _____
   (Specify Chilled Rim if hardened teeth required)

6. **CONSTRUCTION** _____
   (Standard, split or segmental construction should be specified)

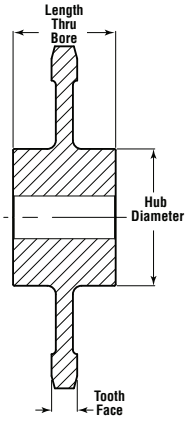
7. **TYPE** _____
   (Standard, hunting tooth, double duty, chain saver, etc., must be specified. Chain saver sprockets increase their life by having flanges on each side of the teeth so that the sidebar engages the flange, thereby distributing the wear over a greater area)

8. **BORE** _____
   (Sprockets and traction wheels are usually furnished with specific bores)

9. **HUB STYLE** _____
   (All hubs are furnished (C style) unless specified otherwise)

10. **KEYWAY AND SETSCREWS** _____
    (Standard straight keyways are finished with one setscrew over the keyway and one at 90°)

# Cast Iron Sprocket




## 55 CAST TOOTH SPROCKETS — PITCH 1.631

FOR CHAINS NO.: 55, SS55, C55L, C55D, C55B, C55A, C55

**Tooth Face at Pitch Line: 0.688 — Roller Diameter: 0.718**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 5 | C55C5 | 2.77 | C | 2.00 | 2.00 | 0.94 | 2.0 |
| 6 | C55C6 | 3.26 | C | 2.00 | 2.00 | 0.94 | 2.0 |
| 7 | C55B7 | 3.76 | B | 2.50 | 2.00 | 1.63 | 3.0 |
| 8 | C55B8 | 4.26 | B | 2.50 | 2.00 | 1.63 | 4.0 |
| 9 | C55C9 | 4.76 | C | 3.00 | 2.00 | 1.94 | 5.0 |
| 10 | C55C10 | 5.26 | C | 3.50 | 2.00 | 2.19 | 5.0 |
| 11 | C55C11 | 5.77 | C | 4.50 | 3.00 | 2.88 | 6.0 |
| 12 | C55C12 | 6.30 | C | 4.50 | 3.00 | 2.88 | 10.0 |
| 13 | C55C13 | 6.80 | C | 4.50 | 3.00 | 2.88 | 10.0 |
| 14 | C55C14 | 7.31 | C | 4.50 | 3.00 | 2.88 | 12.0 |
| 15 | C55C15 | 7.83 | C | 4.50 | 3.00 | 2.88 | 13.0 |
| 16 | C55C16 | 8.34 | C | 4.50 | 3.00 | 2.88 | 13.0 |
| 17 | C55C17 | 8.85 | C | 4.50 | 3.00 | 2.88 | 17.0 |
| 18 | C55C18 | 9.39 | C | 4.50 | 3.00 | 2.88 | 20.0 |
| 19 | C55C19 | 9.92 | C | 4.50 | 3.00 | 2.88 | 20.0 |
| 20 | C55C20 | 10.43 | C | 6.00 | 3.50 | 2.88 | 20.0 |
| 21 | C55C21 | 10.94 | C | 6.00 | 3.50 | 4.00 | 23.0 |
| 22 | C55C22 | 11.43 | C | 6.00 | 3.50 | 4.00 | 24.0 |
| 23 | C55C23 | 11.97 | C | 6.00 | 3.50 | 4.00 | 29.0 |
| 24 | C55C24 | 12.47 | C | 6.00 | 3.50 | 4.00 | 32.0 |
| 25 | C55C26 | 13.00 | C | 8.00 | 4.00 | 6.00 | 31.0 |
| 27 | C55C27 | 14.07 | C | 8.00 | 4.00 | 6.00 | 38.0 |
| 28 | C55C28 | 14.54 | C | 8.00 | 4.00 | 6.00 | 42.0 |
| 29 | C55C29 | 15.08 | C | 8.00 | 4.00 | 6.00 | 26.0 |
| 30 | C55C30 | 15.59 | C | 8.00 | 4.00 | 6.00 | 54.0 |
| 31 | C55C31 | 16.11 | C | 8.00 | 4.00 | 6.00 | 58.0 |
| 32 | C55C32 | 16.63 | C | 8.00 | 4.00 | 6.00 | 63.0 |
| 34 | C55C34 | 17.67 | C | 8.00 | 4.00 | 6.00 | 31.0 |
| 35 | C55C35 | 18.20 | C | 8.00 | 4.00 | 6.00 | 69.0 |
| 36 | C55C36 | 18.70 | C | 8.00 | 4.00 | 6.00 | 77.0 |
| 38 | C55C38 | 19.75 | C | 8.00 | 4.00 | 6.00 | 35.0 |
| 40 | C55C40 | 20.79 | C | 10.00 | 4.00 | 8.00 | 37.0 |
| 41 | C55C41 | 21.31 | C | 10.00 | 4.00 | 8.00 | 36.0 |
| 48 | C55C48 | 24.94 | C | 10.00 | 4.00 | 8.00 | 45.0 |
| 50 | C55C50 | 25.98 | C | 10.00 | 4.00 | 8.00 | 47.0 |
| 54 | C55C54 | 28.00 | C | 10.00 | 4.00 | 8.00 | 50.0 |

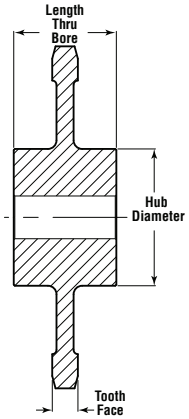
## 62 CAST TOOTH SPROCKETS — PITCH 1.654 CHILLED RIM

FOR CHAINS NO.: 62, 72, 362, H62

**Tooth Face at Pitch Line: 0.812 — Roller Diameter: 0.812**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 5 | C62C5CR | 2.81 | C | 1.38 | 1.25 | .75 | 1.5 |
| 6 | C62C6CR | 3.32 | C | 1.75 | 1.25 | 0.94 | 3.0 |
| 7 | C62C7CR | 3.82 | C | 2.50 | 2.00 | 1.62 | 2.0 |
| 8 | C62C8CR | 4.32 | C | 3.00 | 2.00 | 1.81 | 4.0 |
| 9 | C62C9CR | 4.84 | C | 3.00 | 2.00 | 1.81 | 5.0 |
| 10 | C62C10CR | 5.35 | C | 4.00 | 3.00 | 2.50 | 9.0 |
| 11 | C62C11 | 5.87 | C | 4.00 | 3.00 | 2.50 | 9.0 |
| 12 | C62C12 | 6.39 | C | 4.75 | 3.50 | 2.50 | 7.0 |
| 13 | C62C13 | 6.91 | C | 4.75 | 3.50 | 3.00 | 14.0 |
| 14 | C62C14 | 7.43 | C | 4.75 | 3.50 | 3.00 | 24.0 |
| 15 | C62C15 | 7.96 | C | 5.00 | 3.50 | 3.50 | 26.0 |
| 16 | C62C16 | 8.48 | C | 5.00 | 3.50 | 3.50 | 25.0 |
| 17 | C62C17 | 9.00 | C | 5.00 | 3.50 | 3.50 | 26.0 |
| 18 | C62C18 | 9.53 | C | 5.00 | 3.50 | 3.50 | 28.0 |
| 19 | C62C19 | 10.05 | C | 5.00 | 3.50 | 3.50 | 22.0 |
| 20 | C62C20 | 10.57 | C | 5.50 | 4.00 | 4.00 | 24.0 |
| 21 | C62C21 | 11.10 | C | 5.50 | 4.00 | 4.00 | 39.0 |
| 22 | C62C22 | 11.63 | C | 5.50 | 4.00 | 4.00 | 27.0 |
| 23 | C62C23 | 12.15 | C | 5.50 | 4.00 | 4.00 | 30.0 |
| 24 | C62C24 | 12.67 | C | 5.50 | 4.00 | 4.00 | 36.0 |
| 25 | C62C25 | 13.20 | C | 5.50 | 4.50 | 4.00 | 36.0 |
| 26 | C62C26 | 13.72 | C | 5.50 | 4.50 | 4.00 | 36.0 |
| 27 | C62C27 | 14.25 | C | 5.50 | 4.50 | 4.00 | 58.0 |
| 28 | C62C28 | 14.77 | C | 5.50 | 4.50 | 4.00 | 60.0 |
| 29 | C62C29 | 15.30 | C | 5.50 | 4.50 | 4.00 | 31.6 |
| 30 | C62C30 | 15.82 | C | 6.00 | 4.50 | 4.50 | 44.0 |
| 32 | C62C32 | 16.88 | C | 6.00 | 4.50 | 4.50 | 48.0 |
| 33 | C62C33 | 17.44 | C | 6.00 | 4.50 | 4.50 | 50.0 |
| 34 | C62C34 | 17.93 | C | 6.00 | 4.50 | 4.50 | 77.0 |
| 36 | C62C36 | 18.98 | C | 6.00 | 4.50 | 4.50 | 90.0 |
| 38 | C62C38 | 20.03 | C | 6.00 | 5.00 | 4.50 | 93.0 |
| 39 | C62C39 | 20.55 | C | 6.00 | 5.00 | 4.50 | 61.0 |
| 40 | C62C40 | 21.07 | C | 6.00 | 5.00 | 4.50 | 40.2 |
| 41 | C62C41 | 21.61 | C | 6.00 | 5.00 | 4.50 | 65.0 |
| 42 | C62C42 | 22.13 | C | 6.00 | 5.00 | 4.50 | 72.0 |
| 43 | C62C43 | 22.66 | C | 8.00 | 5.50 | 6.00 | 74.0 |
| 45 | C62C45 | 23.71 | C | 8.00 | 5.50 | 6.00 | 77.0 |
| 46 | C62C46 | 24.24 | C | 8.00 | 5.50 | 6.00 | 80.0 |
| 47 | C62C47 | 24.77 | C | 8.00 | 5.50 | 6.00 | 48.6 |
| 48 | C62C48 | 25.29 | C | 8.00 | 5.50 | 6.00 | 83.0 |
| 49 | C62C49 | 25.82 | C | 8.00 | 5.50 | 6.00 | 84.0 |
| 54 | C62C54 | 28.45 | C | 8.00 | 5.50 | 6.00 | 93.0 |
| 60 | C62C60 | 31.60 | C | 8.00 | 5.50 | 6.00 | 71.0 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.




## 67 CAST TOOTH SPROCKETS — PITCH 2.308 CHILLED RIM

FOR CHAINS NO.: 57, 67, 77, 467, 477, 967, 977, C77, H-60, SM477

**Tooth Face at Pitch Line: 0.687 — Roller Diameter: 0.812**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 5 | C67C5CR | 3.93 | C | 2.25 | 1.75 | 1.19 | 4.0 |
| 6 | C67C6CR | 4.62 | C | 3.00 | 2.00 | 1.81 | 6.0 |
| 7 | C67C7CR | 5.32 | C | 3.50 | 3.00 | 2.19 | 8.0 |
| 8 | C67C8CR | 6.03 | C | 4.00 | 3.00 | 2.50 | 10.0 |
| 9 | CRC67C9 | 6.75 | C | 4.50 | 3.00 | 2.88 | 12.0 |
| 10 | C67C10CR | 7.46 | C | 4.50 | 3.00 | 2.88 | 14.0 |
| 11 | C67C11CR | 8.19 | C | 4.50 | 3.00 | 2.88 | 18.0 |
| 12 | C67C12CR | 8.92 | C | 4.50 | 3.00 | 2.88 | 20.0 |
| 13 | C67C13CR | 9.64 | C | 4.50 | 3.00 | 2.88 | 23.0 |
| 14 | C67C14CR | 10.37 | C | 5.00 | 3.00 | 3.50 | 22.0 |
| 15 | C67C15CR | 11.10 | C | 5.00 | 3.5 | 3.50 | 28.0 |
| 16 | C67C16CR | 11.83 | C | 5.00 | 3.5 | 3.50 | 30.0 |
| 17 | C67C17CR | 12.56 | C | 6.00 | 3.5 | 4.50 | 31.0 |
| 18 | C67C18CR | 13.29 | C | 6.00 | 3.5 | 4.50 | 35.0 |
| 19 | C67C19CR | 14.02 | C | 6.00 | 3.5 | 4.50 | 43.0 |
| 20 | C67C20CR | 14.75 | C | 6.00 | 4.00 | 4.50 | 51.0 |
| 21 | C67C21CR | 15.43 | C | 6.00 | 4.00 | 4.50 | 55.0 |
| 22 | C67C22CR | 16.16 | C | 6.00 | 4.00 | 4.50 | 58.0 |
| 23 | C67C23CR | 16.89 | C | 6.00 | 4.00 | 4.50 | 62.0 |
| 24 | C67C24CR | 17.68 | C | 6.00 | 4.00 | 4.50 | 67.0 |
| 25 | C67C25CR | 18.35 | C | 8.00 | 4.50 | 6.00 | 53.0 |
| 26 | C67C26CR | 19.14 | C | 8.00 | 4.50 | 6.00 | 54.0 |
| 27 | C67C27CR | 19.89 | C | 8.00 | 4.50 | 6.00 | 59.0 |
| 28 | C67C28CR | 20.61 | C | 8.00 | 4.50 | 6.00 | 34.0 |
| 30 | C67C30CR | 22.07 | C | 8.00 | 4.50 | 6.00 | 67.0 |
| 32 | C67C32CR | 23.54 | C | 8.00 | 4.50 | 6.00 | 23.0 |
| 33 | C67C33CR | 24.27 | C | 8.00 | 4.50 | 6.00 | 75.0 |
| 34 | C67C34CR | 25.00 | C | 8.00 | 4.50 | 6.00 | 48.0 |
| 35 | C67C35CR | 25.74 | C | 8.00 | 4.50 | 6.00 | 80.0 |
| 36 | C67C36CR | 26.47 | C | 8.00 | 4.50 | 6.00 | 84.0 |
| 38 | C67C38CR | 27.94 | C | 10.00 | 6.00 | 8.00 | 88.0 |
| 40 | C67C40CR | 29.40 | C | 10.00 | 6.00 | 8.00 | 94.0 |
| 44 | C67C44CR | 32.34 | C | 10.00 | 6.00 | 8.00 | 120.0 |
| 45 | C67C45CR | 33.06 | C | 10.00 | 6.00 | 8.00 | 125.0 |
| 48 | C67C48CR | 35.27 | C | 10.00 | 6.00 | 8.00 | 115.0 |
| 60 | C67C60CR | 44.08 | C | 10.00 | 6.00 | 8.00 | 148.0 |

## 78 CAST TOOTH SPROCKETS — PITCH 2.609

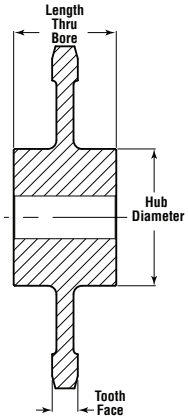
FOR CHAINS NO.: 75, 78, 88, 188, 488, 433-1/2, 81X, BRH, BRH188, C188, H74, H75, H78, H78A, H78B, H78SR, H79, MSR-1288, MW188RT, MXS882, SS188, SS578

**Tooth Face at Pitch Line: .937 — Roller Diameter: 0.875**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 5 | C78C5 | 4.44 | C | 2.50 | 2.50 | 1.19 | 5 |
| 6 | C78C6 | 5.22 | C | 3.50 | 2.75 | 1.44 | 6 |
| 7 | C78C7 | 6.01 | C | 4.00 | 3.00 | 2.44 | 11 |
| 8 | C78C8 | 6.82 | C | 4.75 | 3.12 | 2.81 | 15 |
| 9 | C78C9 | 7.63 | C | 5.25 | 3.88 | 3.25 | 16 |
| 10 | C78C10 | 8.44 | C | 5.25 | 3.88 | 3.25 | 19 |
| 11 | C78C11 | 9.26 | C | 5.25 | 3.88 | 3.25 | 23 |
| 12 | C78C12 | 10.08 | C | 6.00 | 3.88 | 3.25 | 28 |
| 13 | C78C13 | 10.90 | C | 6.00 | 4.50 | 3.31 | 36 |
| 14 | C78C14 | 11.72 | C | 6.00 | 4.50 | 3.31 | 39 |
| 15 | C78C15 | 12.55 | C | 6.00 | 4.50 | 3.31 | 40 |
| 16 | C78C16 | 13.37 | C | 6.00 | 4.50 | 3.31 | 53 |
| 17 | C78C17 | 14.20 | C | 6.00 | 4.50 | 3.31 | 55 |
| 18 | C78C18 | 15.02 | C | 6.00 | 4.50 | 4.06 | 61 |
| 19 | C78C19 | 15.85 | C | 6.50 | 5.38 | 4.06 | 64 |
| 20 | C78C20 | 16.68 | C | 6.50 | 5.38 | 4.06 | 67 |
| 21 | C78C21 | 17.50 | C | 6.50 | 5.38 | 4.06 | 79 |
| 22 | C78C22 | 18.33 | C | 6.50 | 5.38 | 4.06 | 89 |
| 23 | C78C23 | 19.16 | C | 6.50 | 5.38 | 4.06 | 91 |
| 24 | C78C24 | 19.99 | C | 7.00 | 5.38 | 4.06 | 99 |
| 25 | C78C25 | 20.81 | C | 7.00 | 5.38 | 4.06 | 107 |
| 26 | C78C26 | 21.64 | C | 7.00 | 5.38 | 4.06 | 111 |
| 27 | C78C27 | 22.47 | C | 7.00 | 5.38 | 4.06 | 112 |
| 28 | C78C28 | 23.30 | C | 7.00 | 5.38 | 4.06 | 114 |
| 29 | C78C29 | 24.05 | C | 7.00 | 5.38 | 4.06 | 116 |
| 30 | C78C30 | 24.96 | C | 7.00 | 5.38 | 4.06 | 119 |
| 31 | C78C31 | 25.79 | C | 7.00 | 5.38 | 4.06 | 123 |
| 32 | C78C32 | 26.62 | C | 7.00 | 5.38 | 4.06 | 130 |
| 33 | C78C33 | 27.38 | C | 7.00 | 5.38 | 4.06 | 136 |
| 34 | C78C34 | 28.28 | C | 7.00 | 5.38 | 4.06 | 141 |
| 35 | C78C35 | 29.11 | C | 7.00 | 5.38 | 4.06 | 146 |
| 36 | C78C36 | 29.93 | C | 7.00 | 5.38 | 4.06 | 153 |
| 38 | C78C38 | 31.60 | C | 7.00 | 5.38 | 4.06 | 162 |
| 39 | C78C39 | 32.42 | C | 7.00 | 5.38 | 4.06 | 170 |
| 40 | C78C40 | 33.25 | C | 7.25 | 6.75 | 4.62 | 176 |
| 41 | C78C41 | 34.08 | C | 7.25 | 6.75 | 4.62 | 180 |
| 42 | C78C42 | 34.91 | C | 7.25 | 6.75 | 4.62 | 193 |
| 43 | C78C43 | 35.65 | C | 7.25 | 6.75 | 4.62 | 197 |
| 44 | C78C44 | 36.57 | C | 7.25 | 6.75 | 4.62 | 202 |
| 45 | C78C45 | 37.31 | C | 7.25 | 6.75 | 4.62 | 212 |
| 46 | C78C46 | 38.23 | C | 7.25 | 6.75 | 4.62 | 221 |
| 48 | C78C48 | 38.89 | C | 7.25 | 6.75 | 4.62 | 249 |
| 54 | C78C54 | 44.87 | C | 7.25 | 6.75 | 4.62 | 265 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Cast Iron Sprocket




## 95R CAST TOOTH SPROCKETS — PITCH 4.00 CHILLED RIM

FOR CHAINS NO.: 1120, 1520, 4013, 1520C, 95R, LXS4013, MSR 4013, RR1120, RS4013, SS1120

**Tooth Face at Pitch Line: .687 — Roller Diameter: 1.500**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 5 | C95RC5CR | 6.81 | C | 4.50 | 3.00 | 2.50 | 12.0 |
| 6 | C95RC6CR | 8.00 | C | 5.00 | 3.00 | 3.00 | 14.0 |
| 7 | C95RC7CR | 9.22 | C | 6.00 | 3.00 | 4.00 | 18.0 |
| 8 | C95RC8CR | 10.45 | C | 6.00 | 3.00 | 4.00 | 24.0 |
| 9 | C95RC9CR | 11.70 | C | 6.00 | 3.00 | 4.00 | 30.0 |
| 10 | C95RC10CR | 12.94 | C | 6.00 | 3.00 | 4.00 | 40.0 |
| 11 | C95RC11CR | 14.19 | C | 6.00 | 3.00 | 4.00 | 45.0 |
| 12 | C95RC12CR | 15.45 | C | 6.00 | 3.00 | 4.00 | 61.0 |
| 14 | C95RC14CR | 17.98 | C | 6.00 | 3.00 | 4.00 | 76.0 |
| 15 | C95RC15CR | 19.24 | C | 7.00 | 4.00 | 5.00 | 86.0 |
| 18 | C95RC18CR | 23.04 | C | 8.00 | 5.00 | 6.00 | 115.0 |
| 19 | C95RC19CR | 24.30 | C | 8.00 | 5.00 | 6.00 | 125.0 |
| 22 | C95RC22CR | 28.11 | C | 8.00 | 5.00 | 6.00 | 165.0 |

## 94R CAST TOOTH SPROCKETS — PITCH 4.00 CHILLED RIM

FOR CHAINS NO.: 4, 4019, 40SP, 94R, LXS4019, SS4

**Tooth Face at Pitch Line: .750 — Roller Diameter: 1.500**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C94RC5CR | 8.00 | C | 5.00 | 2.75 | 3.00 | 22.0 |
| 8 | C94RC8CR | 10.45 | C | 6.00 | 3.00 | 4.00 | 27.0 |
| 9 | C94RC9CR | 11.70 | C | 6.00 | 3.00 | 4.00 | 36.0 |
| 10 | C94RC10CR | 12.94 | C | 6.50 | 3.00 | 4.00 | 39.0 |
| 12 | C94RC12CR | 15.45 | C | 6.50 | 3.00 | 4.00 | 59.0 |
| 14 | C94RC14CR | 17.98 | C | 7.00 | 4.00 | 5.00 | 74.0 |
| 15 | C94RC15CR | 19.24 | C | 7.00 | 4.00 | 5.00 | 84.0 |
| 16 | C94RC16CR | 20.50 | C | 7.00 | 4.00 | 5.00 | 95.0 |

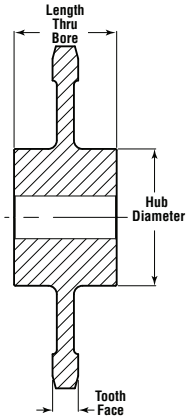
## 102B CAST TOOTH SPROCKETS — PITCH 4.00 CHILLED RIM

FOR CHAINS NO.: 6102B, A102B, C102B, ER102B, S102B, SBS102B, SS102B

**Tooth Face at Pitch Line: 1.875 — Roller Diameter: 1.00**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C102BC6CR | 8.00 | C | 6.00 | 4.00 | 3.94 | 33.0 |
| 7 | C102BC7CR | 9.22 | C | 6.00 | 4.00 | 3.94 | 44.0 |
| 8 | C102BC8CR | 10.45 | C | 6.50 | 4.00 | 4.44 | 47.0 |
| 9 | C102BC9CR | 11.70 | C | 7.00 | 5.00 | 4.56 | 60.0 |
| 10 | C102BC10CR | 12.94 | C | 7.00 | 5.00 | 4.56 | 68.0 |
| 11 | C102BC11CR | 14.20 | C | 7.00 | 5.00 | 4.56 | 72.0 |
| 12 | C102BC12CR | 15.45 | C | 7.00 | 5.00 | 4.56 | 91.0 |
| 13 | C102BC13CR | 16.71 | C | 7.00 | 5.00 | 4.56 | 107.0 |
| 14 | C102BC14CR | 17.98 | C | 7.00 | 5.00 | 4.56 | 110.0 |
| 15 | C102BC15CR | 19.24 | C | 7.00 | 5.00 | 4.56 | 122.0 |
| 16 | C102BC16CR | 20.50 | C | 7.00 | 5.00 | 4.56 | 135.0 |
| 17 | C102BC17CR | 21.76 | C | 7.00 | 5.00 | 4.56 | 145.0 |
| 18 | C102BC18CR | 23.04 | C | 7.00 | 5.00 | 4.56 | 130.0 |
| 19 | C102BC19CR | 24.30 | C | 7.00 | 5.00 | 4.50 | 170.0 |
| 20 | C102BC20CR | 25.57 | C | 10.00 | 6.00 | 6.00 | 175.0 |
| 21 | C102BC21CR | 26.84 | C | 10.00 | 6.00 | 6.00 | 185.0 |
| 22 | C102BC22CR | 28.11 | C | 10.00 | 6.00 | 6.00 | 194.0 |
| 24 | C102BC24CR | 30.65 | C | 10.00 | 6.00 | 6.00 | 214.0 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.




## H102 CAST TOOTH SPROCKETS — PITCH 5.00

FOR CHAINS NO.: H102, WD102, WDH102

**Tooth Face at Pitch Line: .625 — Roller Diameter: 1.500**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | CWD102C6 | 10.00 | C | 6.00 | 7.25 | 4.00 | 65.0 |
| 7 | CWD102C7 | 11.52 | C | 6.00 | 7.25 | 4.00 | 80.0 |
| 8 | CWD102C8 | 13.07 | C | 6.50 | 7.25 | 4.50 | 122.0 |
| 8 | CWD102C8F | 13.07 | C | 6.50 | 7.25 | 4.50 | 160.0 |
| 9 | CWD102C9 | 14.62 | C | 7.00 | 8.00 | 5.00 | 140.0 |
| 10 | CWD102C10 | 16.18 | C | 7.00 | 8.00 | 5.00 | 143.0 |
| 11 | CDW102C11 | 17.75 | C | 7.00 | 8.00 | 5.00 | 165.0 |
| 12 | CDW102C12 | 19.32 | C | 7.50 | 8.00 | 5.50 | 212.0 |
| 13 | CDW102C13 | 20.89 | C | 7.50 | 8.00 | 5.50 | 245.0 |

## 102.5 CAST TOOTH SPROCKETS — PITCH 4.040

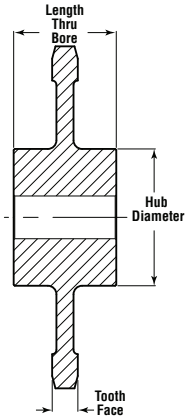
FOR CHAINS NO.: A102-1/2, C102-1/2, C102.5, ER102.5, S102-1/2, SBS102.5, SS102-1/2

**Tooth Face at Pitch Line: 1.875 — Roller Diameter: 1.375**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C102.5C6 | 8.08 | C | 5.00 | 3.50 | 3.94 | 30.0 |
| 8 | C102.5C8 | 10.56 | C | 6.00 | 4.00 | 4.44 | 55.0 |
| 9 | C102.5C9 | 11.81 | C | 6.00 | 4.00 | 5.44 | 62.0 |
| 10 | C102.5C10 | 13.07 | C | 6.00 | 4.00 | 5.94 | 62.0 |
| 11 | C102.5C11 | 14.34 | C | 6.00 | 4.00 | 5.94 | 76.0 |
| 12 | C102.5C12 | 15.61 | C | 6.00 | 4.00 | 5.94 | 106.0 |
| 13 | C102.5C13 | 16.88 | C | 6.00 | 4.00 | 5.94 | 85.0 |
| 14 | C102.5C14 | 18.16 | C | 6.00 | 4.00 | 5.94 | 94.0 |
| 15 | C102.5C15 | 19.43 | C | 6.00 | 4.00 | 5.94 | 105.0 |
| 16 | C102.5C16 | 20.71 | C | 8.00 | 5.00 | 6.00 | 112.0 |
| 17 | C102.5C17 | 21.98 | C | 8.00 | 5.00 | 6.00 | 122.0 |
| 19 | C102.5C19 | 24.55 | C | 8.00 | 5.00 | 6.00 | 140.0 |
| 20 | C102.5C20 | 25.83 | C | 10.00 | 6.00 | 8.00 | 150.0 |
| 22 | C102.5C22 | 28.39 | C | 10.00 | 6.00 | 8.00 | 175.0 |
| 24 | C102.5C24 | 30.95 | C | 10.00 | 6.00 | 8.00 | 190.0 |
| 25 | C102.5C25 | 32.23 | C | 10.00 | 6.00 | 8.00 | 210.0 |
| 26 | C102.5C26 | 33.33 | C | 10.00 | 6.00 | 8.00 | 230.0 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Cast Iron Sprocket




## H104 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: 6104, H104, WDH104

**Tooth Face at Pitch Line: 4.00 — Roller Diameter: 1.50**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 5 | CWD104C5 | 10.21 | C | 6.00 | 4.75 | 4.00 | 80.0 |
| 6 | CWD104C6 | 12.00 | C | 6.00 | 4.75 | 4.00 | 91.0 |
| 7 | CWD104C7 | 13.83 | C | 6.00 | 4.75 | 4.00 | 120.0 |
| 7 | CWD104C7* | | C | 6.00 | 4.75 | 4.00 | 116.0 |
| 8 | CWD104C8 | 15.68 | C | 7.50 | 5.00 | 5.00 | 122.0 |
| 8 | CWD104C8* | | C | 7.50 | 5.00 | 5.00 | 137.0 |
| 9 | CWD104C9 | 17.54 | C | 7.50 | 5.00 | 5.00 | 152.0 |
| 9 | CWD104C9* | | C | 7.50 | 5.00 | 5.00 | 167.0 |
| 10 | CWD104C10 | 19.42 | C | 8.00 | 5.50 | 6.00 | 160.0 |
| 10 | CWD104C10* | | C | 8.00 | 5.50 | 6.00 | 175.0 |
| 11 | CWD104C11 | 21.30 | C | 8.00 | 5.50 | 6.00 | 172.0 |
| 12 | CWD104C12 | 23.18 | C | 8.00 | 5.50 | 6.00 | 185.0 |
| 13 | CWD104C13 | 25.07 | C | 8.00 | 5.50 | 6.00 | 198.0 |

*Available Flanged - Consult Factory.

## W106 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: W106 WH106HD, WH110, WR106, WR106HD

**Tooth Face at Pitch Line: 1.50 — Roller Diameter: 1.25**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 5 | C106C5CR | 10.15 | C | 6.00 | 4.75 | 4.00 | 30.0 |
| 8 | C106C8CR | 15.68 | C | 7.00 | 4.75 | 5.00 | 85.0 |
| 9 | C106C9CR | 17.54 | C | 7.00 | 4.75 | 5.00 | 100.0 |

## S110 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: 6110, C110, C110,ER110, C110C, RR542, SBS110, SS110, WH110, WS110

**Tooth Face at Pitch Line: 1.875 — Roller Diameter: 1.250**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C110C6 | 12.00 | C | 6.00 | 4.00 | 3.94 | 63.0 |
| 7 | C110C7 | 13.84 | C | 7.00 | 4.00 | 4.50 | 68.0 |
| 8 | C110C8 | 15.68 | C | 7.00 | 5.00 | 4.50 | 76.0 |
| 9 | C110C9 | 17.54 | C | 7.00 | 5.00 | 4.50 | 83.0 |
| 10 | C110C10 | 19.42 | C | 7.50 | 5.00 | 5.00 | 88.0 |
| 11 | C110C11 | 21.30 | C | 7.50 | 5.00 | 5.00 | 121.0 |
| 12 | C110C12 | 23.18 | C | 7.50 | 5.00 | 5.00 | 131.0 |
| 13 | C110C13 | 25.07 | C | 7.50 | 5.00 | 5.00 | 152.0 |
| 14 | C110C14 | 26.96 | C | 7.50 | 5.00 | 5.00 | 160.0 |
| 15 | C110C15 | 28.86 | C | 7.50 | 5.00 | 5.00 | 170.0 |
| 16 | C110C16 | 30.76 | C | 8.00 | 6.00 | 6.00 | 181.0 |
| 18 | C110C18 | 34.55 | C | 8.00 | 6.00 | 6.00 | 206.0 |
| 19 | C110C19 | 36.46 | C | 10.00 | 6.00 | 6.00 | 214.0 |
| 24 | C110C24 | 45.97 | C | 10.00 | 8.00 | 8.00 | 340.0 |

## WD110 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: 6110 (DRAG), H-110, H110, WD110, WD113, WDH2210, WHD110, WS110 (PT-C), WSD110

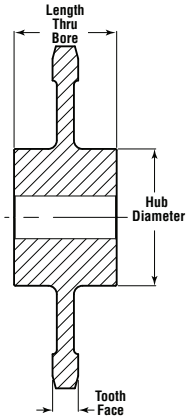
**Tooth Face at Pitch Line: 8.875 — Roller Diameter: 1.500**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 5 | CWD110C5 | 10.15 | C | 6.00 | 3.00 | 4.00 | 120.0 |
| 6 | CWD110C6* | 12.00 | C | 6.00 | 3.00 | 4.00 | 129.0 |
| 7 | CWD110C7* | 13.84 | C | 7.00 | 3.00 | 5.00 | 172.0 |
| 8 | CWD110C8* | 15.68 | C | 8.00 | 3.50 | 6.00 | 202.0 |
| 9 | CWD110C9* | 17.54 | C | 8.00 | 3.50 | 6.00 | 240.0 |
| 10 | CWD110C10* | 19.42 | C | 8.00 | 3.50 | 6.00 | 253.0 |
| 11 | CWD110C11* | 21.30 | C | 8.00 | 4.00 | 6.00 | 265.0 |
| 12 | CWD110C12* | 23.18 | C | 8.00 | 4.00 | 6.00 | 352.0 |
| 15 | CWD110C15 | 28.86 | C | 8.00 | 4.00 | 6.00 | 610.0 |

*Available Flanged - Consult Factory.

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Cast Iron Sprockets




## 111SP CAST TOOTH SPROCKETS — DOUBLE PITCH 4.760 AND 7.240 — CHILLED RIM

FOR CHAINS NO.: 6111 Spec., C111 Spec., ER111SP, SS111 Spec.

**Tooth Face at Pitch Line: 2.375 — Roller Diameter: 1.438**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 8 | CDP111C8CR | 15.74 | C | 7.50 | 6.00 | 5.00 | 90.0 |
| 10 | CDP111C10CR | 19.40 | C | 7.50 | 6.00 | 5.00 | 107.0 |
| 12 | CDP111C12CR | 23.22 | C | 8.00 | 6.00 | 6.00 | 190.0 |

## 111 CAST TOOTH SPROCKETS — PITCH 4.760 CHILLED RIM

FOR CHAINS NO.: 6111 Spec., C111 Spec., ER111SP, SS111 Spec.

**Tooth Face at Pitch Line: 2.375 — Roller Diameter: 1.438**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C111C6CR | 9.52 | C | 7.00 | 4.00 | 4.00 | 64.0 |
| 7 | C111C7CR | 10.99 | C | 7.00 | 4.00 | 5.00 | 81.0 |
| 8 | C111C8CR | 12.44 | C | 7.50 | 6.00 | 5.06 | 98.0 |
| 9 | C111C9CR | 13.92 | C | 7.00 | 6.00 | 5.06 | 107.0 |
| 10 | C111C10CR | 15.40 | C | 7.50 | 6.00 | 5.06 | 122.0 |
| 11 | C111C11CR | 16.90 | C | 7.50 | 6.00 | 5.06 | 136.0 |
| 12 | C111C12CR | 18.39 | C | 7.50 | 6.00 | 5.06 | 145.0 |
| 13 | C111C13CR | 19.89 | C | 7.50 | 6.00 | 5.06 | 120.0 |
| 14 | C111C14CR | 21.39 | C | 8.00 | 6.00 | 6.00 | 125.0 |
| 15 | C111C15CR | 24.35 | C | 8.00 | 6.00 | 6.00 | 180.0 |
| 16 | C111C16CR | 24.35 | C | 8.00 | 6.00 | 6.00 | 189.0 |
| 17 | C111C17CR | 25.90 | C | 8.00 | 6.00 | 6.00 | 218.0 |
| 18 | C111C18CR | 27.41 | C | 8.00 | 6.00 | 6.00 | 228.0 |
| 20 | C111C20CR | 30.34 | C | 8.00 | 6.00 | 6.00 | 248.0 |
| 22 | C111C22CR | 33.44 | C | 10.00 | 6.00 | 8.00 | 261.0 |
| 24 | C111C24CR | 36.47 | C | 10.00 | 6.00 | 8.00 | 274.0 |

## WD112 CAST TOOTH SPROCKETS — PITCH 8.00

FOR CHAINS NO.: H112, SDH112, WD112, WSD112

**Tooth Face at Pitch Line: 9.000 — Roller Diameter: 1.500**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 7 | CWD112C7 | 18.44 | C | 8.00 | 6.00 | 6.938 | 260.0 |
| 8 | CWD112C8 | 20.90 | C | 8.00 | 6.00 | 6.938 | 281.0 |
| 9 | CWD112C9 | 23.39 | C | 8.00 | 6.00 | 6.938 | 308.0 |
| 10 | CWD112C10 | 25.89 | C | 8.00 | 6.00 | 6.938 | 346.0 |

## WD116 CAST TOOTH SPROCKETS — PITCH 8.00 ALLOY IRON

FOR CHAINS NO.: 8116, HC8116, WD116, WDH116, WDH2316, WS116, WSD116

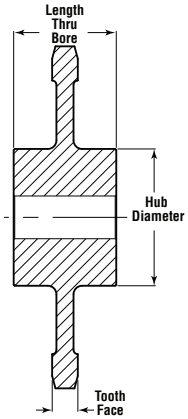
**Tooth Face at Pitch Line: 9.000 — Roller Diameter: 1.500**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | CWD116C6* | 16.00 | C | 7.00 | 6.00 | 5.00 | 210.0 |
| 7 | CWD116C7* | 18.44 | C | 7.00 | 6.00 | 5.00 | 303.0 |
| 8 | CWD116C8* | 20.90 | C | 8.00 | 6.00 | 6.00 | 346.0 |
| 9 | CWD116C9* | 23.39 | C | 8.00 | 6.00 | 6.00 | 442.0 |
| 10 | CDWD116C10 | 25.92 | C | 8.00 | 6.00 | 6.00 | 450.0 |

*Available Flanged - Consult Factory.

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Cast Iron Sprocket




## WD119 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: CC119, HC119, SD-19, SD19A

**Tooth Face at Pitch Line: 3.625 — Roller Diameter: 2.000**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | CWD119C6 | 12.00 | C | 6.00 | 5.00 | 4.00 | 95.0 |

## WD120 CAST TOOTH SPROCKETS — PITCH 6.000

FOR CHAINS NO.: H-120, WD120, WDH120

**Tooth Face at Pitch Line: 8.750 — Roller Diameter: 2.000**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | CWD120C6 | 12.00 | C | 6.00 | 5.00 | 5.00 | 130.0 |
| 8 | CWD120C8 | 15.68 | C | 6.00 | 5.00 | 5.00 | 250.0 |
| 9 | CWD120C9 | 17.54 | C | 8.00 | 5.00 | 6.00 | 232.0 |
| 10 | CWD120C10 | 19.42 | C | 8.00 | 5.00 | 6.00 | 215.0 |
| 11 | CWD120C11 | 21.30 | C | 8.00 | 5.00 | 6.00 | 308.0 |

## H121 CAST TOOTH SPROCKETS — PITCH 9.00

FOR CHAINS NO.: CC121, HC121, SD21, SD21A

**Tooth Face at Pitch Line: 8.625 — Roller Diameter: 2.500**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 8 | CWD121C8 | 23.52 | C | 10.00 | 6.00 | 8.00 | 130.0 |

## WD122 CAST TOOTH SPROCKETS — PITCH 8.00 CHILLED RIM

FOR CHAINS NO.: H-122, WD122, WDH122

**Tooth Face at Pitch Line: 8.750 — Roller Diameter: 2.000**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | CWD122C6CR | 16.00 | C | 7.50 | 5.00 | 6.00 | 180.0 |
| 6 | CWD122C6CRF* | 16.00 | C | 8.00 | 5.00 | 6.00 | 270.0 |
| 7 | CWD122C7CR | 18.44 | C | 8.00 | 5.00 | 6.00 | 210.0 |

* Standard Flange Width is 16.75"

## WD123 CAST TOOTH SPROCKETS — PITCH 9.00

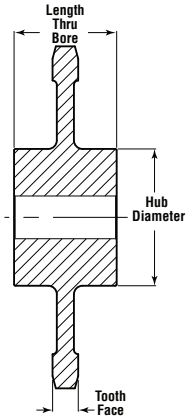
FOR CHAINS NO.: C123, CC123, HC123, SD23, SD23A

**Tooth Face at Pitch Line: 6.250 — Roller Diameter: 2.50**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 8 | CWD123C8 | 23.52 | C | 8.00 | 6.00 | 6.44 | 481.0 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Cast Iron Sprockets




## H124 CAST TOOTH SPROCKETS — PITCH 4.00 CHILLED RIM

FOR CHAINS NO.: C124, H124, H87, WH124, WHX124, WHX124HD, WR124, WS124, WSX124

**Tooth Face at Pitch Line: 1.500 — Roller Diameter: 1.438**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 7 | C124C7CR | 9.22 | C | 6.00 | 4.00 | 3.94 | 38.0 |
| 8 | C124C8CR | 10.45 | C | 6.50 | 4.25 | 4.94 | 52.0 |
| 9 | C124C9CR | 11.70 | C | 6.50 | 4.25 | 5.44 | 45.0 |
| 10 | C124C10CR | 12.94 | C | 7.00 | 4.25 | 5.44 | 73.0 |
| 11 | C124C11CR | 14.20 | C | 7.00 | 4.25 | 5.95 | 75.0 |
| 12 | C124C12CR | 15.45 | C | 7.00 | 4.25 | 6.00 | 80.0 |
| 13 | C124C13CR | 16.71 | C | 7.00 | 5.25 | 6.00 | 100.0 |
| 15 | C124C15CR | 17.98 | C | 7.00 | 5.25 | 6.00 | 103.0 |
| 16 | C124C16CR | 19.24 | C | 7.00 | 5.25 | 6.00 | 112.0 |
| 17 | C124C17CR | 20.50 | C | 7.00 | 5.25 | 6.00 | 125.0 |
| 18 | C124C18CR | 21.77 | C | 7.50 | 5.50 | 6.50 | 135.0 |
| 19 | C124C19CR | 23.04 | C | 7.50 | 5.50 | 6.50 | 145.0 |
| 20 | C124C20CR | 24.30 | C | 7.50 | 5.50 | 6.50 | 154.0 |
| 22 | C124C22CR | 25.57 | C | 8.00 | 6.00 | 6.50 | 161.0 |
| 27 | C124C27CR | 28.11 | C | 8.00 | 6.00 | 6.50 | 176.0 |
| 28 | C124C28CR | 34.46 | C | 10.00 | 6.00 | 8.00 | 240.0 |
| 30 | C124C30CR | 38.27 | C | 10.00 | 6.00 | 8.00 | 290.0 |
| 34 | C124C34CR | 43.35 | C | 10.00 | 6.00 | 8.00 | 300.0 |
| 37 | C124C37CR | 47.18 | C | 10.00 | 6.00 | 8.00 | 410.0 |

## 130 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

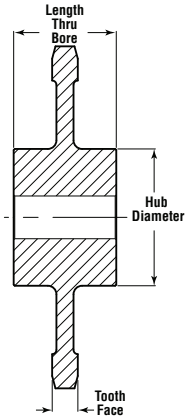
FOR CHAINS NO.: 131, 138, 130RT, 138RT, H-130, H-138, WH784, WHT130/138, WS784

**Tooth Face at Pitch Line: 1.000 — Roller Diameter: 1.000**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 5 | C130C5CR | 6.77 | C | 3.00 | 2.75 | 2.00 | 18.0 |
| 6 | C130C6CR | 8.00 | C | 4.50 | 3.00 | 2.50 | 20.0 |
| 7 | C130C7CR | 9.22 | C | 4.75 | 3.00 | 3.94 | 24.0 |
| 8 | C130C8CR | 10.45 | C | 5.25 | 3.00 | 4.50 | 27.0 |
| 9 | C130C9CR | 11.70 | C | 5.75 | 3.00 | 4.50 | 33.0 |
| 10 | C130C10CR | 12.94 | C | 6.00 | 4.00 | 5.00 | 46.0 |
| 11 | C130C11CR | 14.20 | C | 6.00 | 4.00 | 5.00 | 54.0 |
| 12 | C130C12CR | 15.45 | C | 6.50 | 4.00 | 5.50 | 73.0 |
| 13 | C130C13CR | 16.71 | C | 6.50 | 4.00 | 5.50 | 58.0 |
| 14 | C130C14CR | 17.95 | C | 6.50 | 4.00 | 5.50 | 80.0 |
| 16 | C130C16CR | 20.50 | C | 6.50 | 4.00 | 5.50 | 75.0 |
| 24 | C130C24CR | 36.47 | C | 10.00 | 6.00 | 8.00 | 274.0 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Cast Iron Sprocket




## 132 CAST TOOTH SPROCKETS — PITCH 6.050 CHILLED RIM

FOR CHAINS NO.: 6150PM, A132, A132WS, AX132, AX132WS, AZ132WS, C132, C132C, C132M, C132W1, C132W2, CR-N132, DW132, ER150, ERA150, HSB150, MBP132, MBP132C, MPB132, MPBP132C, PW132, SS150+, SXA150, W132, W157, WH132, WH132HD, WH132XHD, WH150, WH150HD, WH150XHD, WH157, WH2012, WH2855, WH3855, WHX132, WHX150, WHX150,SX150, WHX155, WHX157, WHX159, WHX2855, WHX3855, WSX132

**Tooth Face at Pitch Line: 2.750 — Roller Diameter: 1.750**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 5 | C132C5CR | 10.20 | C | 6.00 | 6.00 | 4.00 | 59.0 |
| 6 | C132C6CR | 12.10 | C | 6.00 | 6.00 | 4.00 | 100.0 |
| 8 | C132C8CR* | 15.81 | C | 8.00 | 7.00 | 6.00 | 163.0 |
| 9 | C132C9CR* | 17.69 | C | 8.00 | 7.00 | 6.00 | 165.0 |
| 10 | C132C10CR* | 19.57 | C | 8.00 | 7.00 | 6.00 | 186.0 |
| 11 | C132C11CR* | 21.47 | C | 8.00 | 8.00 | 6.00 | 215.0 |
| 12 | C132C12CR* | 23.38 | C | 8.00 | 8.00 | 6.00 | 258.0 |
| 13 | C132C13CR | 25.28 | C | 8.00 | 8.00 | 6.00 | 280.0 |
| 14 | C132C14CR | 27.19 | C | 10.00 | 8.00 | 8.00 | 296.0 |
| 15 | C132C15CR | 29.10 | C | 10.00 | 8.00 | 8.00 | 372.0 |
| 16 | C132C16CR | 31.01 | C | 10.00 | 8.00 | 8.00 | 302.0 |
| 18 | C132C17CR | 34.84 | C | 10.00 | 8.00 | 8.00 | 445.0 |
| 19 | C132C18CR | 36.76 | C | 10.00 | 8.00 | 8.00 | 486.0 |
| 20 | C132C19CR | 38.67 | C | 10.00 | 8.00 | 8.00 | 495.0 |

*Available Flanged - Consult Factory.

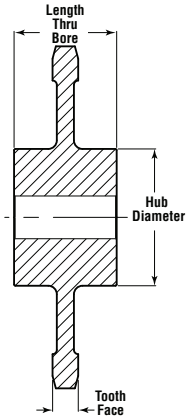
## 182 CAST TOOTH SPROCKETS — PITCH 3.000 CHILLED RIM

FOR CHAINS NO.: 1183, 1583, 3013, 53R, MSR-3013, RS3013, SR183

**Tooth Face at Pitch Line: 0.8125 — Roller Diameter: 1.500**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C183C6CR | 6.00 | C | 4.00 | 3.00 | 2.68 | 10.0 |
| 7 | C183C7CR | 6.92 | C | 4.00 | 3.00 | 2.68 | 14.0 |
| 8 | C183C8CR | 7.84 | C | 4.00 | 3.00 | 2.68 | 14.0 |
| 9 | C183C9CR | 8.77 | C | 5.00 | 3.00 | 2.94 | 22.0 |
| 10 | C183C10CR | 9.71 | C | 5.00 | 3.00 | 2.94 | 21.0 |
| 11 | C183C11CR | 10.65 | C | 5.00 | 3.00 | 2.94 | 30.0 |
| 12 | C183C12CR | 11.59 | C | 5.00 | 3.00 | 3.18 | 28.0 |
| 13 | C183C13CR | 12.54 | C | 6.00 | 3.00 | 3.49 | 38.0 |
| 14 | C183C14CR | 13.48 | C | 6.00 | 4.00 | 4.00 | 40.0 |
| 15 | C183C15CR | 14.43 | C | 6.00 | 4.00 | 4.00 | 43.0 |
| 16 | C183C16CR | 15.38 | C | 6.00 | 4.00 | 4.00 | 46.0 |
| 18 | C183C18CR | 17.28 | C | 6.00 | 4.00 | 4.00 | 55.0 |
| 19 | C183C19CR | 18.23 | C | 6.00 | 4.00 | 4.00 | 67.0 |
| 20 | C183C20CR | 19.18 | C | 8.00 | 4.00 | 6.00 | 65.0 |
| 24 | C183C24CR | 22.98 | C | 8.00 | 4.00 | 6.00 | 75.0 |
| 25 | C183C25CR | 23.94 | C | 8.00 | 4.00 | 6.00 | 85.0 |
| 38 | C183C38CR | 36.33 | C | 8.00 | 4.00 | 6.00 | 140.0 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.




## 188 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

FOR CHAINS NO.: 1188, 2188, 4113, 91R, LXS-4113, RS2188, RS4113. NOT for C-188 (2.609P) see W-78, SR188, SS218

**Tooth Face at Pitch Line: 0.9375 — Roller Diameter: 1.750**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 5 | C188C5CR | 6.78 | C | 4.00 | 3.00 | 2.50 | 14.0 |
| 6 | C188C6CR | 8.00 | C | 4.00 | 3.00 | 3.44 | 15.0 |
| 7 | C188C7CR | 9.22 | C | 4.00 | 3.00 | 3.68 | 27.0 |
| 8 | C188C8CR | 10.45 | C | 6.00 | 4.00 | 3.94 | 35.0 |
| 9 | C188C9CR | 11.70 | C | 6.00 | 4.00 | 3.94 | 32.0 |
| 10 | C188C10CR | 12.94 | C | 6.00 | 4.00 | 3.94 | 43.0 |
| 11 | C188C11CR | 14.19 | C | 6.50 | 4.00 | 4.44 | 50.0 |
| 12 | C188C12CR | 15.45 | C | 6.50 | 4.00 | 4.44 | 60.0 |
| 13 | C188C13CR | 16.71 | C | 8.00 | 5.00 | 5.00 | 36.0 |
| 15 | C188C15CR | 19.24 | C | 8.00 | 5.00 | 5.00 | 39.0 |
| 19 | C188C19CR | 24.30 | C | 10.00 | 5.00 | 6.00 | 48.0 |
| 24 | C188C24CR | 30.64 | C | 10.00 | 5.00 | 6.00 | 58.0 |

## 194 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

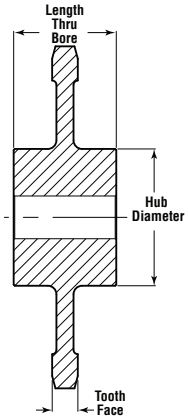
FOR CHAINS NO.: 194, 1400, 1594, 2066, 4215, 14-1/2, 83-R, 83R, GL-194, LXS-4216, S1194, SR-194, SR194, U194, US-90-R, US90R

**Tooth Face at Pitch Line: 1.000 — Roller Diameter: 2.000**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 7 | C194C7CR | 9.22 | C | 5.00 | 4.00 | 3.62 | 30.0 |
| 8 | C194C8CR | 10.45 | C | 5.00 | 4.00 | 3.62 | 36.0 |
| 9 | C194C9CR | 11.70 | C | 5.00 | 4.00 | 3.62 | 40.0 |
| 10 | C194C10CR | 12.94 | C | 6.00 | 4.00 | 3.62 | 47.0 |
| 11 | C194C11CR | 14.20 | C | 6.50 | 4.00 | 3.62 | 62.0 |
| 12 | C194C12CR | 15.46 | C | 6.50 | 4.00 | 3.62 | 55.0 |
| 13 | C194C13CR | 16.71 | C | 6.50 | 4.00 | 3.62 | 64.0 |
| 14 | C194C14CR | 17.98 | C | 6.50 | 4.00 | 3.62 | 90.0 |
| 15 | C194C15CR | 19.14 | C | 7.50 | 4.00 | 3.62 | 81.0 |
| 19 | C194C19CR | 24.30 | C | 7.50 | 4.00 | 3.62 | 121.0 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Cast Iron Sprocket




## 196 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 196, 1114, 1116, 2126, 6018, 604R, 627R, 634R, GL-196, MSR-1116, MSR-6018, SR196, SR911, SRC196, SRD1960, SS-1114, US196R, US196RA42

**Tooth Face at Pitch Line: 1.000 — Roller Diameter: 2.000**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 5 | C196C5CR | 10.21 | C | 6.00 | 4.00 | 4.00 | 28.0 |
| 6 | C196C6CR | 12.00 | C | 6.00 | 4.00 | 4.00 | 33.0 |
| 7 | C196C7CR | 13.83 | C | 6.50 | 4.00 | 4.00 | 49.0 |
| 8 | C196C8CR | 15.68 | C | 6.50 | 5.00 | 4.56 | 84.0 |
| 9 | C196C9CR | 17.54 | C | 6.50 | 5.00 | 4.56 | 93.0 |
| 10 | C196C10CR | 19.42 | C | 7.00 | 5.00 | 4.56 | 114.0 |
| 12 | C196C12CR | 23.18 | C | 7.00 | 5.00 | 4.56 | 148.0 |
| 13 | C196C13CR | 25.07 | C | 7.00 | 5.00 | 4.56 | 119.0 |
| 14 | C196C14CR | 26.96 | C | 7.00 | 5.00 | 4.56 | 128.0 |
| 16 | C196C16CR | 30.76 | C | 8.00 | 5.00 | 4.56 | 160.0 |
| 18 | C196C18CR | 34.55 | C | 8.00 | 5.00 | 4.56 | 195.0 |
| 19 | C196C19CR | 36.45 | C | 8.00 | 5.00 | 4.56 | 210.0 |
| 25 | C196C25CR | 47.87 | C | 8.00 | 5.00 | 4.56 | 304.0 |

## 197 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 614, 1130, 1617, 6018, 607R, 614R, CC5, GL-197, LXS-6238, MR-1130, RS2190 197, SR-3130, SS-2190

**Tooth Face at Pitch Line: 1.125 — Roller Diameter: 2.500**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C197C6CR | 12.00 | C | 6.00 | 5.00 | 4.75 | 45.0 |
| 7 | C197C7CR | 13.83 | C | 6.50 | 5.00 | 4.75 | 60.0 |
| 8 | C197C8CR | 15.68 | C | 6.50 | 5.00 | 4.75 | 75.0 |
| 9 | C197C9CR | 17.54 | C | 6.50 | 5.00 | 4.75 | 84.0 |
| 10 | C197C10CR | 19.42 | C | 7.00 | 5.00 | 4.75 | 94.0 |
| 11 | C197C11CR | 21.30 | C | 7.00 | 5.00 | 4.75 | 100.0 |
| 12 | C197C12CR | 23.18 | C | 7.00 | 5.00 | 4.75 | 125.0 |
| 15 | C197C15CR | 28.86 | C | 7.00 | 5.00 | 4.75 | 178.0 |

## 348 CAST TOOTH SPROCKETS — PITCH 3.031 CHILLED RIM

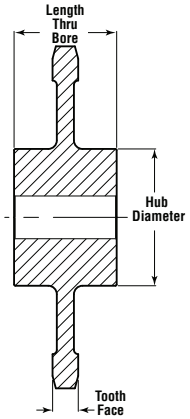
FOR CHAINS NO.: 348, N348, S348, X348

**Tooth Face at Pitch Line: 0.687 — Roller Diameter: 1.0625**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 4 | C348C4CR | 7.92 | C | 4.00 | 4.00 | 2.00 | 11.0 |
| 5 | C348C5CR | 9.71 | C | 4.00 | 4.00 | 2.00 | 19.0 |
| 6 | C348C6CR | 11.59 | C | 5.00 | 4.00 | 3.00 | 24.0 |
| 7 | C348C7CR | 13.48 | C | 5.00 | 4.00 | 3.00 | 43.0 |
| 8 | C348C8CR | 15.54 | C | 5.00 | 4.00 | 3.00 | 43.0 |
| 9 | C348C9CR | 17.28 | C | 7.00 | 4.00 | 5.00 | 51.0 |
| 10 | C348C10CR | 19.18 | C | 7.00 | 4.00 | 5.00 | 68.0 |
| 11 | C348C11CR | 21.03 | C | 7.00 | 4.00 | 5.00 | 75.0 |
| 12 | C348C12CR | 22.98 | C | 7.00 | 4.00 | 5.00 | 83.0 |
| 16 | C348C16CR | 30.60 | C | 7.00 | 4.00 | 5.00 | 120.0 |
| 19 | C348C19CR | 36.33 | C | 7.00 | 4.00 | 5.00 | 159.0 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Cast Iron Sprockets




## 458 CAST TOOTH SPROCKETS — PITCH 4.031 CHILLED RIM

FOR CHAINS NO.: 458, S458, X458

**Tooth Face at Pitch Line: 0.875 — Roller Diameter: 1.380**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 3 | C458C3CR | 7.95 | C | 4.50 | 5.00 | 2.00 | 14.0 |
| 4 | C458C4CR | 10.54 | C | 5.00 | 5.00 | 3.00 | 27.0 |
| 5 | C458C5CR | 13.05 | C | 6.00 | 5.00 | 5.06 | 40.0 |
| 6 | C458C6CR | 15.58 | C | 6.00 | 5.00 | 5.06 | 63.0 |
| 7 | C458C7CR | 18.12 | C | 7.00 | 5.00 | 5.06 | 70.0 |
| 8 | C458C8CR | 20.66 | C | 7.00 | 5.00 | 5.06 | 93.0 |
| 9 | C458C9CR | 23.13 | C | 7.50 | 5.00 | 5.06 | 130.0 |
| 10 | C458C10CR | 25.77 | C | 7.50 | 5.00 | 5.06 | 145.0 |
| 11 | C458C11CR | 28.33 | C | 7.50 | 5.00 | 5.06 | 193.0 |
| 12 | C458C12CR | 30.68 | C | 7.50 | 5.00 | 5.06 | 200.0 |
| 14 | C458C14CR | 35.87 | C | 8.00 | 5.00 | 5.06 | 228.0 |
| 19 | C458C19CR | 48.63 | C | 8.00 | 5.00 | 5.06 | 345.0 |

## WD480 CAST TOOTH SPROCKETS — PITCH 8.000 CHILLED RIM

FOR CHAINS NO.: 480, 8480, H480, WD480, WDH2380, WDH480, WDH580, WDH680, WS480, WSD480

**Tooth Face at Pitch Line: 11.125 — Roller Diameter: 2.00**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | CWD480C6* | 16.00 | C | 7.00 | 5.00 | 5.00 | 237.0 |
| 7 | CWD480C7* | 18.44 | C | 7.50 | 5.00 | 5.00 | 295.0 |
| 8 | CWD480C8* | 20.90 | C | 7.50 | 6.00 | 5.00 | 290.0 |
| 9 | CWD480C9* | 23.39 | C | 7.50 | 6.00 | 5.00 | 380.0 |
| 10◊ | CWD480C10* | 25.89 | C | 8.00 | 6.00 | 5.00 | 381.0 |
| 11◊ | CWD480C11 | 28.40 | C | 8.00 | 6.00 | 5.00 | 505.0 |

*Available Flanged - Consult Factory.

## 468 CAST TOOTH SPROCKETS — PITCH 4.031 CHILLED RIM

FOR CHAINS NO.: 468, 468A ,S468

**Tooth Face at Pitch Line: 1.375 — Roller Diameter: 1.880**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 4 | C468C4CR | 10.53 | C | 5.00 | 4.00 | 3.00 | 36.0 |
| 5 | C468C5CR | 13.05 | C | 6.00 | 4.00 | 4.00 | 52.0 |
| 6 | C468C6CR | 15.58 | C | 6.50 | 4.00 | 4.50 | 80.0 |
| 7 | C468C7CR | 18.12 | C | 6.50 | 4.00 | 4.50 | 92.0 |
| 8 | C468C8CR | 20.66 | C | 6.50 | 4.00 | 4.50 | 118.0 |
| 9 | C468C9CR | 23.21 | C | 7.00 | 4.00 | 5.00 | 148.0 |
| 10 | C468C10CR | 25.77 | C | 7.00 | 4.00 | 5.00 | 160.0 |
| 12 | C468C12CR | 30.88 | C | 7.00 | 4.00 | 5.00 | 240.0 |

## 463 CAST TOOTH SPROCKETS — PITCH 4.000

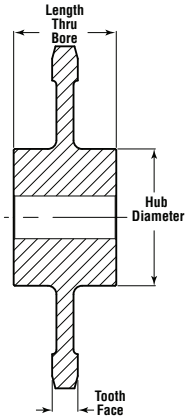
FOR CHAINS NO.: 483, S4830K23

**Tooth Face at Pitch Line: 0.875 — Roller Diameter: 0.940**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 8 | C483C8 | 10.45 | C | 5.00 | 5.00 | 2.75 | 30.0 |
| 9 | C483C9 | 11.70 | C | 5.00 | 5.00 | 2.75 | 35.0 |
| 12 | C483C12 | 15.45 | C | 6.00 | 5.00 | 3.00 | 65.0 |
| 13 | C483C13 | 16.72 | C | 6.00 | 5.00 | 3.00 | 70.0 |
| 19 | C483C19 | 24.30 | C | 8.00 | 5.00 | 6.00 | 124.0 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.
* Standard Flange Plain Chain is 18.625" OAW; Standard Chain is 22" OAW.
◊ Special machining charges apply.

# Cast Iron Sprocket




## 520 CAST TOOTH SPROCKETS — PITCH 2.563 CHILLED RIM

FOR CHAINS NO.: 520-RX, 520RX, A520, IS-2625, IS2625, SS-520, SS520

**Tooth Face at Pitch Line: 0.875 — Roller Diameter: 1.125**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 10 | C520C10CR | 8.29 | C | 4.00 | 3.00 | 2.00 | 4.0 |
| 12 | C520C12CR | 9.90 | C | 4.00 | 3.00 | 2.00 | 5.0 |
| 14 | C520C14CR | 11.53 | C | 5.00 | 3.00 | 2.50 | 34.0 |
| 18 | C520C18CR | 14.76 | C | 5.00 | 3.00 | 2.50 | 65.0 |
| 24 | C520C24CR | 19.64 | C | 6.00 | 3.00 | 3.00 | 100.0 |
| 30 | C520C30CR | 24.52 | C | 7.50 | 3.00 | 3.00 | 112.0 |
| 40 | C520C40CR | 32.67 | C | 7.50 | 3.00 | 3.00 | 165.0 |

## 531 CAST TOOTH SPROCKETS — PITCH 4.000

FOR CHAINS NO.: 149, 531, 4328, 89R, IS4328, LXS4328, MSR4328, RS4328, S531, SS149

**Tooth Face at Pitch Line: 1.187 — Roller Diameter: 2.25**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C531C6 | 8.00 | C | 5.00 | 4.00 | 2.94 | 34.0 |
| 8 | C531C8 | 10.45 | C | 6.00 | 4.00 | 3.44 | 34.0 |
| 10 | C531C10 | 12.94 | C | 7.00 | 4.00 | 3.94 | 47.0 |
| 12 | C531C12 | 15.45 | C | 7.00 | 4.00 | 4.44 | 66.0 |
| 14 | C531C14 | 17.99 | C | 7.50 | 4.00 | 5.00 | 75.0 |
| 15 | C531C15 | 19.24 | C | 7.50 | 4.00 | 5.00 | 85.0 |
| 16 | C531C16 | 20.50 | C | 7.50 | 4.00 | 5.00 | 94.0 |
| 17 | C531C17 | 21.77 | C | 7.50 | 4.00 | 5.00 | 107.0 |
| 19 | C531C19 | 24.30 | C | 7.50 | 4.00 | 5.00 | 120.0 |

## 625R CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 1258, 1604R, 625R, 626R, 629R, SS658

**Tooth Face at Pitch Line: 1.125 — Roller Diameter: 3.000**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C625C6CR | 12.00 | C | 6.00 | 4.00 | 4.00 | 62.0 |
| 8 | C625C8CR | 15.68 | C | 7.00 | 4.00 | 5.00 | 78.0 |
| 10 | C625C10CR | 19.42 | C | 8.00 | 5.00 | 6.00 | 96,0 |
| 12 | C625C12CR | 23.18 | C | 8.00 | 5.00 | 6.00 | 114.0 |
| 13 | C625C13CR | 25.07 | C | 8.00 | 5.00 | 6.00 | 123.0 |

## 667 CAST TOOTH SPROCKETS — PITCH 2.250 CHILLED RIM

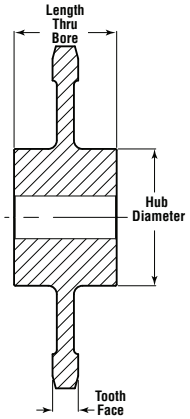
FOR CHAINS NO.: 667, J-X-K-53

**Tooth Face at Pitch Line: 1.000 — Roller Diameter: 1.062**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C667C6CR | 4.50 | C | 2.50 | 2.50 | 1.50 | 9.0 |
| 8 | C667C8CR | 5.87 | C | 3.00 | 2.75 | 1.50 | 10.0 |
| 11 | C667C11CR | 7.98 | C | 4.00 | 2.75 | 2.00 | 15.0 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Cast Iron Sprockets




## 678 CAST TOOTH SPROCKETS — PITCH 6.031 CHILLED RIM

FOR CHAINS NO.: 678, S678, X678

**Tooth Face at Pitch Line: 1.187 — Roller Diameter: 2.00**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 3 | C678C3CR | 12.06 | C | 6.00 | 4.50 | 3.00 | 30.0 |
| 4 | C678C4CR | 15.72 | C | 6.00 | 4.50 | 3.00 | 77.0 |
| 5 | C678C5CR | 19.52 | C | 7.00 | 4.50 | 3.50 | 93.0 |
| 6 | C678C6CR | 23.34 | C | 8.00 | 4.50 | 4.00 | 146.0 |
| 7 | C678C7CR | 27.03 | C | 8.50 | 4.50 | 4.00 | 190.0 |
| 8 | C678C8CR | 30.83 | C | 8.50 | 4.50 | 4.00 | 240.0 |

## 698 CAST TOOTH SPROCKETS — PITCH 6.031 CHILLED RIM

FOR CHAINS NO.: 698, S698, S698HD

**Tooth Face at Pitch Line: 1.375 — Roller Diameter: 2.69**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 5 | C698C5CR | 19.52 | C | 8.00 | 5.00 | 6.00 | 122.0 |
| 6 | C698C6CR | 23.38 | C | 8.00 | 5.00 | 6.00 | 135.0 |
| 7 | C698C7CR | 26.96 | C | 8.00 | 5.00 | 6.00 | 200.0 |
| 8 | C698C8CR | 30.92 | C | 8.00 | 5.00 | 6.00 | 275.0 |

## CS720S CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: CS720S, WH720CS

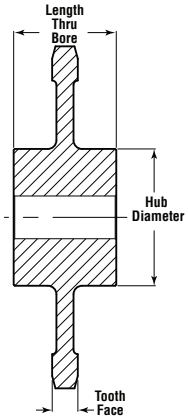
**Tooth Face at Pitch Line: 1.00 — Roller Diameter: 1.44**

| Number of Teeth | Catalog Number | Pitch Diam. | Style | Hub Diam. | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6.5P-13T | C720C13HCR* | 12.89 | C | 6.00 | 4.00 | 3.00 | 65.0 |
| 8.5P-17T | C720C17HCR* | 16.59 | C | 6.00 | 4.00 | 3.00 | 98.2 |
| 9 | C720C9CR | 17.51 | C | 6.00 | 4.00 | 3.00 | 80.0 |
| 9.5P-19T | C720C19HCR* | 18.48 | C | 6.00 | 4.00 | 3.00 | 115.3 |
| 10 | C720C10CR | 19.42 | C | 6.00 | 4.00 | 3.00 | 95.0 |
| 10.5P-21T | C720C21HCR* | 20.33 | C | 7.00 | 5.00 | 3.50 | 110.0 |
| 11 | C720C11CR | 21.30 | C | 7.00 | 5.00 | 3.50 | 105.0 |
| 11.5P-23T | C720C23HCR* | 22.24 | C | 7.00 | 5.00 | 3.50 | 127.7 |
| 12.5P-25T | C720C25HCR* | 24.12 | C | 7.00 | 5.00 | 3.50 | 141.3 |
| 13 | C720C13CR | 25.07 | C | 7.00 | 5.00 | 3.50 | 130.0 |
| 16 | C720C16CR | 30.75 | C | 7.00 | 5.00 | 3.50 | 180.0 |

* Regular and DoubleLife (Hunting Tooth) Designs

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Cast Iron Sprocket




## 720S CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 720, 720S

**Tooth Face at Pitch Line: 1.00 — Roller Diameter: 1.4375**

| Number of Teeth | Catalog Number | Pitch Diam. | Style | Hub Diam. | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C720C6CR | 12.00 | C | 6.00 | 4.00 | 3.00 | 47.0 |
| 6.5P-13T | C720C13HCR* | 12.91 | C | 6.00 | 4.00 | 3.00 | 53.1 |
| 8 | C720C8CR | 15.68 | C | 6.00 | 4.00 | 3.00 | 70.0 |
| 8.5P-17T | C720C17HCR* | 16.61 | C | 6.00 | 4.00 | 3.00 | 92.2 |
| 9 | C720C9CR | 17.51 | C | 6.00 | 4.00 | 3.00 | 80.0 |
| 9.5P-19T | C720C19HCR* | 18.48 | C | 6.00 | 4.00 | 3.00 | 107.3 |
| 10 | C720C10CR | 19.42 | C | 6.00 | 4.00 | 3.00 | 95.0 |
| 10.5P-21T | C720C21HCR* | 20.33 | C | 6.00 | 4.00 | 3.00 | 110.0 |
| 11 | C720C11CR | 21.30 | C | 6.00 | 4.00 | 3.00 | 105.0 |
| 11.5P-23T | C720C23HCR* | 24.12 | C | 6.00 | 4.00 | 3.00 | 131.5 |
| 12 | C720C12CR | 23.18 | C | 7.00 | 5.00 | 3.50 | 120.0 |
| 12.5P-25T | C720C25HCR* | 24.12 | C | 7.00 | 5.00 | 3.50 | 131.5 |
| 13 | C720C13CR | 25.07 | C | 7.00 | 5.00 | 3.50 | 130.0 |
| 15 | C720C15CR | 28.86 | C | 7.00 | 5.00 | 3.50 | 155.0 |
| 16 | C720C16CR | 30.75 | C | 7.00 | 5.00 | 3.50 | 180.0 |
| 19 | C720C19CR | 36.44 | C | 7.50 | 5.00 | 3.75 | 220.0 |
| 20 | C720C20CR | 38.36 | C | 7.50 | 5.00 | 3.75 | 242.0 |
| 21 | C720C21CR | 40.25 | C | 7.50 | 5.00 | 3.75 | 261.0 |
| 23 | C720C23CR | 44.06 | C | 7.50 | 5.00 | 3.75 | 318.0 |
| 25 | C720C25CR | 47.87 | C | 7.50 | 5.00 | 3.75 | 342.0 |

* Regular and DoubleLife (Hunting Tooth) Designs

## A730 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 730, A730

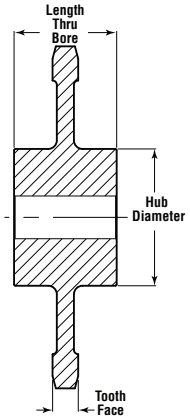
**Tooth Face at Pitch Line: 1.125 — Roller Diameter: 1.500**

| Number of Teeth | Catalog Number | Pitch Diam. | Style | Hub Diam. | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C730C6CR | 12.00 | C | 6.00 | 4.00 | 3.00 | 47.9 |
| 8 | C730C8CR | 15.68 | C | 6.00 | 4.00 | 3.00 | 71.3 |
| 9 | C730C9CR | 17.54 | C | 6.00 | 4.00 | 3.00 | 85.5 |
| 9.5P-19T | C730C19HCR* | 18.48 | C | 6.00 | 4.00 | 3.00 | 107.3 |
| 10P-20T | C730C20HCR* | 19.42 | C | 6.00 | 4.00 | 3.00 | 115.4 |
| 11 | C730C11CR | 21.30 | C | 6.00 | 4.00 | 3.00 | 105.0 |
| 11.5P-23T | C730C23HCR* | 22.24 | C | 6.00 | 4.00 | 3.00 | 104.5 |
| 12 | C730C12CR | 23.14 | C | 7.00 | 5.00 | 3.50 | 110.8 |
| 12.5P-25T | C730C25HCR* | 24.12 | C | 7.00 | 5.00 | 3.50 | 117.9 |
| 13 | C730C13CR | 25.07 | C | 7.00 | 5.00 | 3.50 | 125.1 |
| 13.5P-27T | C730C27HCR* | 26.02 | C | 7.00 | 5.00 | 3.50 | 132.5 |
| 14 | C730C14CR | 26.96 | C | 7.00 | 5.00 | 3.50 | 153.7 |
| 15 | C730C15CR | 28.86 | C | 7.00 | 5.00 | 3.50 | 170.0 |
| 16 | C730C16CR | 30.75 | C | 7.00 | 5.00 | 3.50 | 187.2 |
| 18 | C730C18CR | 34.55 | C | 8.00 | 5.00 | 4.00 | 225.2 |
| 24 | C730C24CR | 45.79 | C | 8.00 | 5.00 | 4.00 | 363.5 |
| 27 | C730C27CR | 57.68 | C | 8.00 | 5.00 | 4.00 | 408. |

* Regular and DoubleLife (Hunting Tooth) Designs

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Cast Iron Sprockets




## 823 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 823

**Tooth Face at Pitch Line: 1.130 — Roller Diameter: 0.780**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 8 | C823C8CR | 10.45 | C | 6.00 | 4.00 | 2.44 | 25.0 |
| 10 | C823C10CR | 12.95 | C | 6.00 | 4.00 | 3.18 | 45.0 |
| 11 | C823C11CR | 14.40 | C | 6.00 | 4.00 | 3.68 | 54.0 |
| 12 | C823C12CR | 15.46 | C | 6.00 | 4.00 | 3.94 | 56.0 |
| 13 | C823C13CR | 16.71 | C | 6.00 | 4.00 | 4.44 | 60.0 |
| 14 | C823C14CR | 17.98 | C | 7.00 | 4.00 | 4.94 | 65.0 |
| 16 | C823C16CR | 20.51 | C | 7.00 | 4.00 | 5.44 | 81.0 |
| 17 | C823C17CR | 21.77 | C | 7.50 | 4.00 | 5.94 | 86.0 |
| 18 | C823C18CR | 23.04 | C | 7.50 | 4.00 | 5.94 | 91.0 |
| 19 | C823C19CR | 24.26 | C | 8.00 | 4.00 | 6.00 | 95.0 |
| 24 | C823C24CR | 30.65 | C | 8.00 | 4.00 | 6.00 | 138.0 |

## 825 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

FOR CHAINS NO.: 825, SR825

**Tooth Face at Pitch Line: 1.250 — Roller Diameter: 1.156**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 10 | C825C10CR | 12.94 | C | 6.00 | 4.00 | 3.00 | 58.0 |
| 11 | C825C11CR | 14.20 | C | 6.00 | 4.00 | 3.00 | 65.0 |
| 12 | C825C12CR | 15.45 | C | 6.00 | 4.00 | 3.00 | 78.0 |
| 13 | C825C13CR | 16.71 | C | 6.00 | 4.00 | 3.00 | 82.0 |
| 14 | C825C14CR | 17.98 | C | 8.00 | 4.00 | 3.00 | 94.0 |
| 15 | C825C15CR | 19.24 | C | 8.00 | 4.00 | 4.00 | 112.0 |
| 16 | C825C16CR | 20.50 | C | 8.00 | 4.00 | 4.00 | 115.0 |
| 19 | C825C19CR | 24.30 | C | 8.00 | 4.00 | 4.00 | 140.0 |

## 830 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 830, 6830, 830R, HSB830, RR830, SR830

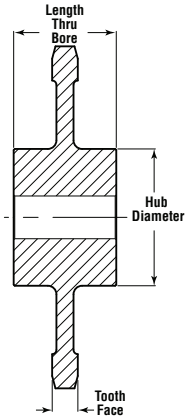
**Tooth Face at Pitch Line: 1.312 — Roller Diameter: 1.156**

| Number of Teeth | Catalog Number | Pitch Diam. | Style | Hub Diam. | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C830C6CR | 12.00 | C | 6.00 | 4.00 | 4.00 | 58.5 |
| 8 | C830C8CR | 15.65 | C | 7.00 | 4.00 | 5.00 | 83.0 |
| 9 | C830C9CR | 17.54 | C | 7.00 | 4.00 | 5.00 | 95.0 |
| 10 | C830C10CR | 19.42 | C | 7.00 | 4.00 | 5.00 | 102.0 |
| 11 | C830C11CR | 21.20 | C | 7.00 | 4.00 | 5.00 | 105.0 |
| 11.5 -23T | C830C23HCR* | 22.21 | C | 7.50 | 5.00 | 5.50 | 125.0 |
| 12 | C830C12CR | 23.18 | C | 7.50 | 5.00 | 5.50 | 121.0 |
| 13 | C830C13CR | 25.07 | C | 8.50 | 5.00 | 6.00 | 142.0 |
| 15 | C830C15CR | 28.86 | C | 8.50 | 5.00 | 6.00 | 168.0 |
| 16 | C830C16CR | 30.75 | C | 8.50 | 5.00 | 6.00 | 180.0 |

* Hunting Tooth

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Cast Iron Sprocket




## 844 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 844, 6844, 6844M, 844R, HSB844, HSB844S, S844, SBS844, SR844

**Tooth Face at Pitch Line: 2.125 — Roller Diameter: 1.190**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 8 | C844C8CR | 15.88 | C | 7.00 | 5.00 | 5.00 | 94.0 |
| 9 | C844C9CR | 17.54 | C | 7.00 | 5.00 | 5.00 | 112.0 |
| 10 | C844C10CR | 19.42 | C | 7.00 | 5.00 | 5.00 | 125.0 |
| 11 | C844C11CR | 21.30 | C | 7.00 | 5.00 | 5.00 | 140.0 |
| 12 | C844C12CR | 23.18 | C | 8.00 | 6.00 | 6.00 | 160.0 |
| 13 | C844C13CR | 25.07 | C | 8.00 | 6.00 | 6.00 | 171.0 |
| 15 | C844C15CR | 28.86 | C | 8.00 | 6.00 | 6.00 | 200.0 |
| 16 | C844C16CR | 30.75 | C | 8.00 | 6.00 | 6.00 | 217.0 |
| 19 | C844C19CR | 36.45 | C | 8.00 | 6.00 | 6.00 | 275.0 |

## 856 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 844, 6844, 6844M, 844R, HSB844, HSB844S, S844, SBS844, SBS844, SR844

**Tooth Face at Pitch Line: 2.125 — Roller Diameter: 1.190**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 7 | C856C7 | 13.83 | C | 6.50 | 5.00 | 4.75 | 122.0 |
| 8 | C856C8 | 15.68 | C | 6.50 | 5.00 | 4.75 | 130.0 |
| 10 | C856C10 | 19.42 | C | 7.00 | 5.00 | 4.75 | 200.0 |
| 11 | C856C11 | 21.30 | C | 7.00 | 5.00 | 4.75 | 230.0 |
| 12 | C856C12 | 23.18 | C | 7.00 | 5.50 | 5.00 | 245.0 |
| 13 | C856C13 | 25.07 | C | 7.50 | 5.50 | 5.00 | 260.0 |
| 14 | C856C14 | 26.96 | C | 7.50 | 5.50 | 5.00 | 285.0 |
| 15 | C856C15 | 28.86 | C | 7.50 | 5.50 | 5.00 | 300.0 |

## E922 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

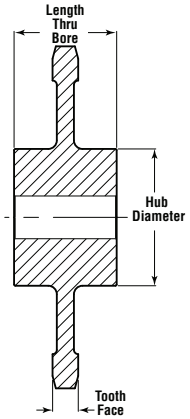
FOR CHAINS NO.: 1751, ER922, MRS927, SS927

**Tooth Face at Pitch Line: 1.625 — Roller Diameter: 3.500**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | CE922C6CR | 18.00 | C | 8.00 | 6.00 | 5.94 | 112.0 |
| 8 | CE922C8CR | 23.52 | C | 8.00 | 6.00 | 5.94 | 170.0 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Cast Iron Sprockets




## F933 CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: 933, B964R, E933, ER933, F-933, F929, F932, F933, F940, FB40, FR933, RS933F, RS933P, SS932, SS933, SS940

**Tooth Face at Pitch Line: 1.250 — Roller Diameter: 4.000**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | CF933C6CR | 18.00 | | 8.00 | 8.00 | 5.94 | 93.0 |
| 7 | CF933C7CR | 20.74 | | 8.00 | 8.00 | 5.94 | 120.0 |
| 8 | CF933C8CR | 23.52 | | 8.00 | 8.00 | 5.94 | 152.0 |

## B963R CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: 809, 925R, B963R, E931, F922, F930, FR922, SS4002, SS922, SS930

**Tooth Face at Pitch Line: 1.125 — Roller Diameter: 3.500**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | CB963CR6CR | 18.00 | C | 6.00 | 6.00 | 2.93 | 74.0 |
| 8 | CB963CR8CR | 23.52 | C | 8.00 | 6.00 | 3.44 | 150.0 |
| 9 | CB963CR9CR | 26.31 | C | 8.00 | 6.00 | 3.44 | 160.0 |
| 10 | CB963CR10CR | 29.12 | C | 8.00 | 6.00 | 3.44 | 175.0 |
| 11 | CB963CR11CR | 31.95 | C | 8.00 | 6.00 | 4.00 | 181.0 |
| 12 | CB963CR12CR | 34.77 | C | 8.00 | 6.00 | 4.00 | 195.0 |

## 951 CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: 1734, 1906, 2183, 2184, 1131R, 126C, 126CMR, 156CMR, 2184AC, 2184R, 6 Spec., 626R, 631R, F2183, LXS6438, MR126C, MR156C, S1131, S951, SS1131, SS2184, SS314, SS951, U1131

**Tooth Face at Pitch Line: 1.062 — Roller Diameter: 3.00**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C951C6CR | 12.00 | C | 6.00 | 6.00 | 3.94 | 62.0 |
| 8 | C951C8CR | 15.68 | C | 6.00 | 6.00 | 3.94 | 78.0 |
| 9 | C951C9CR | 17.54 | C | 6.00 | 6.00 | 3.94 | 92.0 |
| 12 | C951C12CR | 23.18 | C | 8.00 | 6.00 | 4.44 | 153.0 |
| 13 | C951C13CR | 25.03 | C | 8.00 | 6.00 | 4.44 | 175.0 |
| 14 | C951C14CR | 26.96 | C | 8.00 | 6.00 | 4.44 | 190.0 |
| 16 | C951C16CR | 30.75 | C | 8.00 | 6.00 | 4.44 | 225.0 |
| 25 | C951C25CR | 47.87 | C | 8.00 | 6.00 | 4.44 | 350.0 |

## D963R CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

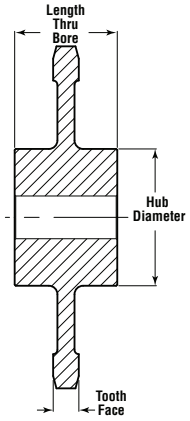
FOR CHAINS NO.: D-963R

**Tooth Face at Pitch Line: 1.750 — Roller Diameter: 3.500**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 8 | CD963C8CR | 23.52 | C | 10.00 | 8.00 | 6.44 | 170.0 |
| 9 | CD963C9CR | 26.31 | C | 10.00 | 8.00 | 6.44 | 182.0 |
| 10 | CD963C10CR | 29.12 | C | 10.00 | 8.00 | 6.44 | 198.0 |
| 11 | CD963C11CR | 31.95 | C | 10.00 | 8.00 | 6.44 | 215.0 |
| 12 | CD963C12CR | 34.77 | C | 10.00 | 8.00 | 6.44 | 230.0 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Cast Iron Sprocket




## E963R CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: E-963R

**Tooth Face at Pitch Line: 1.250 — Roller Diameter: 4.000**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 8 | CE963C8 | 23.52 | C | 10.00 | 8.00 | 6.44 | 152.0 |
| 9 | CE963C9 | 26.31 | C | 10.00 | 8.00 | 6.44 | 164.0 |
| 10 | CE963C10 | 29.12 | C | 10.00 | 8.00 | 6.44 | 179.0 |
| 11 | CE963C11 | 31.95 | C | 10.00 | 8.00 | 6.44 | 194.0 |
| 12 | CE963C12 | 34.77 | C | 10.00 | 8.00 | 6.44 | 224.0 |

## F963R CAST TOOTH SPROCKETS — PITCH 9.000 CHILLED RIM

FOR CHAINS NO.: F-963R (Hitachi)

**Tooth Face at Pitch Line: 1.250 — Roller Diameter: 4.000**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | CF963C8 | 18.00 | C | 8.00 | 6.00 | 6.00 | 80.0 |
| 8 | CF963C9 | 23.52 | C | 8.00 | 6.00 | 6.00 | 80.0 |

## 998 CAST TOOTH SPROCKETS — PITCH 9.031 CHILLED RIM

FOR CHAINS NO.: 998, S998, SS5998

**Tooth Face at Pitch Line: 1.375 — Roller Diameter: 2.690**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 4 | C197C6CR | 23.53 | C | 9.00 | 6.00 | 6.44 | 195.0 |
| 5 | C197C7CR | 29.14 | C | 9.00 | 6.00 | 6.44 | 258.0 |
| 6 | C197C8CR | 34.81 | C | 9.00 | 6.00 | 6.44 | 325.0 |

## 1030 CAST TOOTH SPROCKETS — PITCH 3.075 CHILLED RIM

FOR CHAINS NO.: 1030, 1037, 1359, CHAMP 3, JS-1030, MSR·1539, MXS·1031, MXS·3075, MXS·40, R1033, R1035, R1037, ROA1031, ROA1032, ROA40 HYPER, RS1539,CHAMP3, SJLR1037, SS40, SS554, US-1030

**Tooth Face at Pitch Line: 1.250 — Roller Diameter: 1.250**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C1030C6CR | 6.15 | C | 3.00 | 3.00 | 2.44 | 21.0 |
| 8 | C1030C8CR | 8.04 | C | 4.00 | 4.00 | 2.44 | 24.0 |
| 9 | C1030C9CR | 8.99 | C | 4.00 | 4.00 | 2.44 | 44.0 |
| 10 | C1030C10CR | 9.95 | C | 5.00 | 4.00 | 3.44 | 43.0 |
| 11◊ | C1030C11CR | 10.92 | C | 5.00 | 4.00 | 3.44 | 51.0 |
| 12 | C1030C12CR | 11.88 | C | 5.00 | 4.00 | 3.44 | 50.0 |
| 13◊ | C1030C13CR | 12.85 | C | 5.00 | 4.00 | 3.44 | 64.0 |
| 14 | C1030C14CR | 13.82 | C | 5.00 | 4.00 | 3.44 | 73.0 |
| 15 | C1030C15CR | 14.79 | C | 6.00 | 4.00 | 3.94 | 76.0 |
| 16 | C1030C16CR | 15.76 | C | 6.00 | 4.00 | 3.94 | 82.0 |
| 17 | C1030C17CR | 16.73 | C | 6.00 | 4.00 | 3.94 | 100.0 |
| 18◊ | C1030C18CR | 17.71 | C | 6.00 | 4.00 | 3.94 | 105.0 |
| 19 | C1030C19CR | 18.68 | C | 6.00 | 4.00 | 3.94 | 112.0 |
| 20 | C1030C20CR | 19.66 | C | 6.00 | 4.00 | 3.94 | 100.0 |
| 21 | C1030C21CR | 20.63 | C | 7.50 | 5.00 | 4.88 | 105.0 |
| 22 | C1030C22CR | 21.61 | C | 7.50 | 5.00 | 4.88 | 130.0 |
| 23 | C1030C23CR | 22.57 | C | 7.50 | 5.00 | 4.88 | 132.0 |
| 24 | C1030C24CR | 23.56 | C | 7.50 | 5.00 | 4.88 | 145.0 |
| 26 | C1030C26CR | 25.51 | C | 7.50 | 5.00 | 4.88 | 148.0 |
| 27 | C1030C27CR | 26.49 | C | 7.50 | 5.00 | 4.88 | 165.0 |
| 28 | C1030C28CR | 27.46 | C | 7.50 | 5.00 | 4.88 | 171.0 |
| 30◊ | C1030C30CR | 29.42 | C | 8.00 | 5.00 | 4.94 | 180.0 |
| 31 | C1030C31CR | 30.39 | C | 8.00 | 5.00 | 4.94 | 189.0 |
| 32 | C1030C32CR | 31.37 | C | 8.00 | 5.00 | 4.94 | 193.0 |
| 33 | C1030C33CR | 32.35 | C | 8.00 | 5.00 | 4.94 | 215.0 |
| 34 | C1030C34CR | 33.33 | C | 8.00 | 5.00 | 4.94 | 217.0 |
| 35 | C1030C35CR | 34.31 | C | 9.50 | 6.50 | 5.88 | 220.0 |
| 36 | C1030C36CR | 35.28 | C | 9.50 | 6.50 | 5.88 | 229.0 |
| 37◊† | C1030C37CR | 36.26 | C | 9.50 | 6.50 | 5.88 | 234.0 |
| 38† | C1030C38CR | 37.24 | C | 9.50 | 6.50 | 5.88 | 252.0 |
| 39 | C1030C39CR | 38.25 | C | 9.50 | 6.50 | 5.88 | 250.0 |
| 40 | C1030C40CR | 39.19 | C | 9.50 | 6.50 | 5.88 | 261.0 |
| 42 | C1030C42CR | 41.15 | C | 9.50 | 6.50 | 5.88 | 300.0 |
| 44 | C1030C44CR | 43.10 | C | 9.50 | 6.50 | 5.88 | 321.0 |
| 46 | C1030C46CR | 45.06 | C | 9.50 | 6.50 | 5.88 | 330.0 |
| 48 | C1030C48CR | 47.02 | C | 10.00 | 6.50 | 5.88 | 600.0 |
| 55 | C1030C55CR | 53.86 | C | 10.00 | 6.50 | 6.88 | 782.0 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

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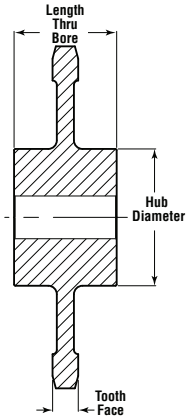



## 1113 CAST TOOTH SPROCKETS — PITCH 4.040 CHILLED RIM

FOR CHAINS NO.: 3420, A3420, B3420, RO2113, RS1113, SR3113, SS1113, SS60

**Tooth Face at Pitch Line: 1.125 — Roller Diameter: 2.00**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C1113C6CR | 8.08 | C | 4.00 | 3.00 | 2.44 | 24.0 |
| 8 | C1113C8CR | 10.56 | C | 4.00 | 4.00 | 2.94 | 38.0 |
| 9 | C1113C9CR | 11.81 | C | 5.00 | 4.00 | 3.18 | 40.0 |
| 10 | C1113C10CR | 13.07 | C | 5.00 | 4.00 | 3.68 | 45.0 |
| 11 | C1113C11CR | 14.34 | C | 5.00 | 5.00 | 3.94 | 50.0 |
| 12 | C1113C12CR | 15.61 | C | 6.00 | 5.00 | 4.44 | 60.0 |
| 13 | C1113C13CR | 16.88 | C | 6.00 | 5.00 | 4.94 | 68.0 |
| 14 | C1113C14CR | 18.16 | C | 6.00 | 5.00 | 4.94 | 85.0 |
| 16 | C1113C16CR | 20.71 | C | 6.00 | 5.00 | 4.94 | 95.0 |
| 17 | C1113C17CR | 21.99 | C | 6.00 | 5.00 | 4.94 | 104.0 |
| 18 | C1113C18CR | 23.67 | C | 8.00 | 6.00 | 4.94 | 110.0 |
| 24 | C1113C24CR | 30.95 | C | 8.00 | 6.00 | 4.94 | 178.0 |

## 1120 CAST TOOTH SPROCKETS — PITCH 4.000 CHILLED RIM

FOR CHAINS NO.: 1120 (TBL 13-47), 2761, 4, 40SP, LXS 4019, RR1120 (TBL 13-14 R95), , RS4029, SS4

**Tooth Face at Pitch Line: 0.750 — Roller Diameter: 1.500**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 5 | C1120C5CR | 6.81 | C | 3.50 | 3.00 | 2.18 | 12.0 |
| 6 | C1120C6CR | 8.00 | C | 4.00 | 3.00 | 2.44 | 23.0 |
| 7 | C1120C7CR | 9.22 | C | 4.50 | 3.00 | 3.68 | 72.0 |
| 8 | C1120C8CR | 10.45 | C | 4.50 | 3.00 | 3.68 | 29.0 |
| 9 | C1120C9CR | 11.70 | C | 5.00 | 3.00 | 3.94 | 38.0 |
| 10 | C1120C10CR | 12.94 | C | 5.00 | 4.00 | 3.94 | 40.0 |
| 11 | C1120C11CR | 14.19 | C | 6.00 | 4.00 | 4.25 | 50.0 |
| 12 | C1120C12CR | 15.45 | C | 6.00 | 4.00 | 4.25 | 65.0 |
| 14 | C1120C14CR | 17.98 | C | 6.00 | 4.00 | 4.25 | 77.0 |
| 15 | C1120C15CR | 19.24 | C | 6.00 | 4.00 | 4.25 | 86.0 |
| 16 | C1120C16CR | 20.50 | C | 8.00 | 5.00 | 6.00 | 97.0 |
| 18 | C1120C18CR | 23.04 | C | 8.00 | 5.00 | 6.00 | 115.0 |
| 19 | C1120C19CR | 24.30 | C | 8.00 | 5.00 | 6.00 | 125.0 |
| 22 | C1120C22CR | 28.11 | C | 8.00 | 5.00 | 6.00 | 165.0 |
| 24 | C1120C24CR | 30.65 | C | 8.00 | 5.00 | 6.00 | 190.0 |
| 31 | C1120C31CR | 39.54 | C | 9.50 | 6.00 | 7.00 | 244.0 |
| 35 | C1120C35CR | 44.62 | C | 9.50 | 6.00 | 7.00 | 322.0 |

## 1131 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 2183, 6SP, A2184, RS1131

**Tooth Face at Pitch Line: 1.250 — Roller Diameter: 3.000**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C1131C6CR | 12.00 | C | 6.00 | 5.00 | 3.94 | 62.0 |
| 8 | C1131C8CR | 15.68 | C | 6.00 | 5.00 | 3.94 | 78.0 |
| 9 | C1131C9CR | 17.54 | C | 6.00 | 5.00 | 3.95 | 120.0 |
| 12 | C1131C12CR | 23.18 | C | 7.00 | 6.00 | 4.44 | 153.0 |
| 13 | C1131C13CR | 25.03 | C | 7.00 | 6.00 | 4.94 | 175.0 |
| 14 | C1131C14CR | 26.96 | C | 8.00 | 6.00 | 5.00 | 190.0 |
| 16 | C1131C16CR | 30.75 | C | 8.00 | 6.00 | 5.00 | 225.0 |
| 24 | C1131C24CR | 47.87 | C | 8.00 | 6.00 | 5.00 | 350.0 |

## F1222 CAST TOOTH SPROCKETS — PITCH 12.000 CHILLED RIM

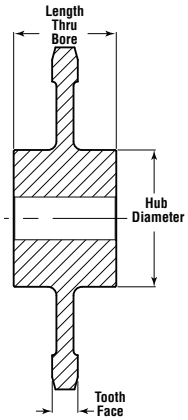
FOR CHAINS NO.: A1263, B1263R, FR1222, SS1222

**Tooth Face at Pitch Line: 1.000 — Roller Diameter: 4.500**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | CF1222C6CR | 24.00 | C | 7.50 | 5.00 | 5.94 | 143.0 |
| 8 | CF1222C8CR | 31.36 | C | 8.00 | 5.00 | 5.94 | 210.0 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Cast Iron Sprocket




## 2180 CAST TOOTH SPROCKETS — PITCH 6.000 CHILLED RIM

FOR CHAINS NO.: 530, 1126, 1212, 1670, 2180, 628R, A1670, B1670

**Tooth Face at Pitch Line: 1.125 — Roller Diameter: 2.250**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C2180C6CR | 12.00 | C | 6.00 | 5.00 | 4.00 | 50.0 |
| 8 | C2180C8CR | 15.68 | C | 6.00 | 5.00 | 4.00 | 64.0 |
| 16 | C2180C16CR | 30.76 | C | 8.00 | 6.00 | 6.00 | 200.0 |
| 20 | C2180C20CR | 38.36 | C | 10.00 | 6.00 | 8.00 | 260.0 |

## 9250 CAST TOOTH SPROCKETS — PITCH 2.500 CHILLED RIM

FOR CHAINS NO.: SM120

**Tooth Face at Pitch Line: 0.750 — Roller Diameter: 1.130**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C9250C6CR | 5.00 | C | 3.00 | 2.75 | 1.50 | 5.0 |
| 7 | C9250C6CR | 5.76 | C | 3.00 | 2.75 | 1.50 | 9.0 |
| 8 | C9250C6CR | 6.53 | C | 4.00 | 2.75 | 2.00 | 10.0 |
| 10 | C9250C6CR | 8.09 | C | 4.00 | 3.00 | 2.50 | 13.0 |
| 11 | C9250C6CR | 8.87 | C | 4.00 | 3.00 | 2.50 | 16.0 |
| 12 | C9250C6CR | 9.66 | C | 4.00 | 3.00 | 2.50 | 18.0 |
| 14 | C9250C6CR | 11.24 | C | 6.00 | 3.00 | 3.00 | 23.0 |
| 15 | C9250C6CR | 12.03 | C | 6.00 | 3.00 | 3.00 | 28.0 |
| 16 | C9250C6CR | 12.81 | C | 6.00 | 3.00 | 3.00 | 30.0 |

## 1240 CAST TOOTH SPROCKETS — PITCH 4.063 CHILLED RIM

FOR CHAINS NO.: 1240, 1241, 1244, IS-4106, IS-4110, LXS1242, R1248, ROA124, ROA1242, SS124

**Tooth Face at Pitch Line: 1.750 — Roller Diameter: 1.750**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 6 | C1240C6CR | 8.13 | C | 4.00 | 4.00 | 2.31 | 30.0 |
| 7 | C1240C7CR | 9.36 | C | 5.25 | 4.75 | 3.25 | 39.0 |
| 8 | C1240C8CR | 10.82 | C | 6.50 | 5.00 | 4.06 | 52.0 |
| 9 | C1240C9CR | 11.88 | C | 6.50 | 5.00 | 4.06 | 61.0 |
| 10 | C1240C10CR | 13.15 | C | 6.50 | 5.00 | 4.06 | 69.0 |
| 11 | C1240C11CR | 14.42 | C | 6.50 | 5.00 | 4.06 | 78.0 |
| 12 | C1240C12CR | 15.70 | C | 7.00 | 6.00 | 4.56 | 96.0 |
| 13 | C1240C13CR | 16.98 | C | 7.00 | 6.00 | 4.56 | 102.0 |
| 14 | C1240C14CR | 18.26 | C | 7.00 | 6.00 | 4.56 | 112.0 |
| 15 | C1240C15CR | 19.54 | C | 7.00 | 6.00 | 4.56 | 122.0 |
| 16 | C1240C16CR | 20.82 | C | 8.00 | 6.25 | 5.31 | 140.0 |
| 17 | C1240C17CR | 22.11 | C | 8.00 | 6.25 | 5.31 | 142.0 |
| 18 | C1240C18CR | 23.40 | C | 8.00 | 6.25 | 5.31 | 161.0 |
| 19 | C1240C19CR | 24.68 | C | 8.00 | 6.25 | 5.31 | 175.0 |
| 21 | C1240C21CR | 27.26 | C | 8.00 | 6.25 | 5.31 | 210.0 |
| 22 | C1240C22CR | 28.55 | C | 8.00 | 6.25 | 5.31 | 218.0 |
| 24 | C1240C24CR | 31.12 | C | 8.00 | 6.25 | 5.31 | 240.0 |
| 25 | C1240C25CR | 33.42 | C | 9.00 | 6.25 | 6.06 | 250.0 |
| 28 | C1240C28CR | 36.29 | C | 9.00 | 6.25 | 6.06 | 310.0 |
| 29 | C1240C29CR | 37.58 | C | 9.00 | 6.75 | 6.06 | 330.0 |
| 30 | C1240C30CR | 38.87 | C | 10.00 | 6.75 | 7.13 | 346.0 |
| 32 | C1240C32CR | 41.45 | C | 10.00 | 6.75 | 7.13 | 378.0 |
| 34 | C1240C34CR | 44.03 | C | 10.00 | 6.75 | 7.13 | 402.0 |
| 37 | C1240C37CR | 47.90 | C | 11.00 | 7.75 | 7.13 | 471.0 |

## 4050 CAST TOOTH SPROCKETS — PITCH 12.000 CHILLED RIM

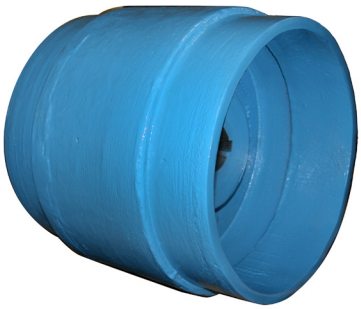
FOR CHAINS NO.: RS4850, SS1265R

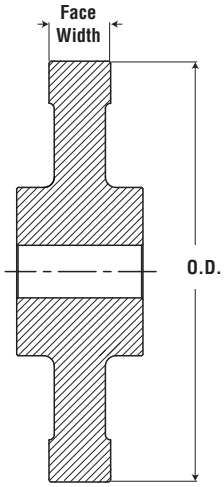
**Tooth Face at Pitch Line: 2.000 — Roller Diameter: 3.000**

| Number of Teeth | Catalog Number | Pitch Diameter | Style | Hub Diameter | Length Thru Bore | Max. Bore | Approx. Weight (lb) |
|---|---|---|---|---|---|---|---|
| 8 | C4850C8CR | 31.43 | C | 10.00 | 6.00 | 6.00 | 220.0 |

NOTE: Weights and Dimensions are approximate. Please consult Martin for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

# Traction Wheels






Martin traction wheels are offered as either solid construction or as a solid hub with segmental teeth. Segmental traction wheels can greatly reduce downtime since you do not have to disassemble the components around it. Traction wheels are in bucket elevators and can withstand abrasive materials.

## Cast Traction Wheels and Drum Flanged Traction Wheels

**Chain: 78, 88** — **F = 0.94**

| Part Number | Outside Diameter | Face Width | Weight Each (lb) |
|---|---|---|---|
| C10.0TW | 10.00 | 0.94 | 30.0 |
| C12.0TW | 12.00 | 0.94 | 45.0 |
| C12.5TW | 12.50 | 0.94 | 50.0 |
| C13.25TW | 13.25 | 0.94 | 58.0 |
| C14.0TW | 14.00 | 0.94 | 62.0 |
| C15.0TW | 15.00 | 0.94 | 65.0 |
| C15.5TW | 15.50 | 0.94 | 68.0 |
| C16.0TW | 16.00 | 0.94 | 70.0 |
| C18.0TW | 18.00 | 0.94 | 75.0 |
| C19.0TW | 19.00 | 0.94 | 80.0 |
| C20.0TW | 20.00 | 0.94 | 85.0 |

**Chain: H102** — **F = 6.25**

| Part Number | Outside Diameter | Face Width | Weight Each (lb) |
|---|---|---|---|
| C8.5TW | 8.50 | 6.25 | 76.0 |
| C10.0TW | 10.00 | 6.25 | 126.0 |
| C11.5TW | 11.50 | 6.25 | 185.0 |
| C13.0TW | 13.00 | 6.25 | 144.0 |
| C14.63TW | 14.63 | 6.25 | 153.0 |
| C16.25TW | 16.25 | 6.25 | 162.0 |
| C17.75TW | 17.75 | 6.25 | 190.0 |
| C19.38TW | 19.38 | 6.25 | 215.0 |

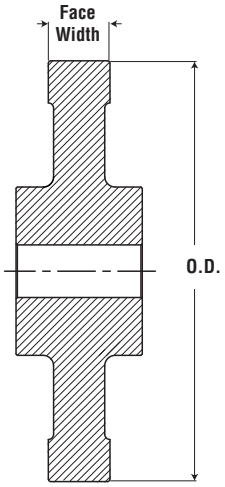
**Chain: C102B, C110, C102-1/2** — **F = 1.88**

| Part Number | Outside Diameter | Face Width | Weight Each (lb) |
|---|---|---|---|
| C12.0TW | 12.00 | 1.88 | 50.0 |
| C13.5TW | 13.50 | 1.88 | 60.0 |
| C14.0TW | 14.00 | 1.88 | 63.0 |
| C16.63TW | 14.63 | 1.88 | 68.0 |
| C15.75TW | 15.75 | 1.88 | 78.0 |
| C16.75TW | 16.75 | 1.88 | 89.0 |
| C17.0TW | 17.00 | 1.88 | 92.0 |
| C18.0TW | 18.00 | 1.88 | 100.0 |
| C19.75TW | 19.75 | 1.88 | 108.0 |
| C21.0TW | 21.00 | 1.88 | 117.0 |
| C22.0TW | 22.00 | 1.88 | 127.0 |
| C22.75TW | 22.75 | 1.88 | 135.0 |
| C23.0TW | 23.00 | 1.88 | 139.0 |
| C23.75TW | 23.75 | 1.88 | 143.0 |
| C27.63TW | 27.63 | 1.88 | 160.0 |
| C29.63TW | 29.63 | 1.88 | 166.0 |
| C33.0TW | 33.00 | 1.88 | 175.0 |

**Chain: H82, C131, 823, 4103, S131, 103, 730** — **F = 1.13**

| Part Number | Outside Diameter | Face Width | Weight Each (lb) |
|---|---|---|---|
| C7.0TW | 7.00 | 1.13 | 25.0 |
| C9.63TW | 9.63 | 1.13 | 38.0 |
| C14.63TW | 14.63 | 1.13 | 49.0 |
| C16.0TW | 16.00 | 1.13 | 60.0 |
| C17.0TW | 17.00 | 1.13 | 70.0 |
| C18.0TW | 18.00 | 1.13 | 75.0 |
| C20.0TW | 20.00 | 1.13 | 90.0 |
| C22.0TW | 22.00 | 1.13 | 115.0 |
| C22.5TW | 22.50 | 1.13 | 125.0 |
| C24.0TW | 24.00 | 1.13 | 135.0 |
| C29.38TW | 29.38 | 1.13 | 170.0 |

# Traction Wheels




### Chain: H104 — F = 4.00

| Part Number | Outside Diameter | Face Width | Drum Width | Weight Each (lb) |
|---|---|---|---|---|
| C10.5TW | 10.50 | 4.00 | 12.00 | 125.0 |
| C12.38TW | 12.38 | 4.00 | 12.00 | 145.0 |
| C14.0TW | 14.00 | 4.00 | 12.00 | 170.0 |
| C16.0TW | 16.00 | 4.00 | 12.00 | 205.0 |
| C17.75TW | 17.75 | 4.00 | 12.00 | 250.0 |
| C19.75TW | 19.75 | 4.00 | 12.00 | 305.0 |
| C20.0TW | 20.03 | 4.00 | 12.00 | 345.0 |

### Chain: H110 — F = 8.88

| Part Number | Outside Diameter | Face Width | Drum Width | Weight Each (lb) |
|---|---|---|---|---|
| C10.25TW | 10.25 | 8.88 | 16.38 | 175.0 |
| C14.0TW | 14.00 | 8.88 | 16.38 | 250.0 |
| C15.0TW | 15.88 | 8.88 | 16.38 | 290.0 |
| C17.75TW | 17.75 | 8.88 | 16.38 | 335.0 |
| C19.63TW | 19.63 | 8.88 | 16.38 | 365.0 |

### Chain: C111 — F = 2.25

| Part Number | Outside Diameter | Face Width | Weight Each (lb) |
|---|---|---|---|
| C9.5TW | 9.50 | 2.25 | 50.0 |
| C14.5TW | 14.56 | 2.25 | 85.0 |
| C15.5TW | 15.50 | 2.25 | 91.0 |
| C18.0TW | 18.00 | 2.25 | 105.0 |
| C20.0TW | 20.00 | 2.25 | 135.0 |
| C22.0TW | 22.00 | 2.25 | 143.0 |
| C23.0TW | 23.00 | 2.25 | 146.0 |
| C23.75TW | 23.75 | 2.25 | 149.0 |
| C26.0TW | 26.00 | 2.25 | 165.0 |
| C29.5TW | 29.50 | 2.25 | 198.0 |
| C30.75TW | 30.75 | 2.25 | 210.0 |

### Chain: H112 — F = 9.00

| Part Number | Outside Diameter | Face Width | Drum Width | Weight Each (lb) |
|---|---|---|---|---|
| C16.75TW | 16.75 | 9.00 | 16.5 | 200.0 |
| C19.25TW | 19.25 | 9.00 | 16.5 | 230.0 |

### Chain: H116 — F = 13.00

| Part Number | Outside Diameter | Face Width | Drum Width | Weight Each (lb) |
|---|---|---|---|---|
| C16.88TW | 16.88 | 13.0 | 20.5 | 395.0 |
| C19.0TW | 19.00 | 13.0 | 20.5 | 485.0 |
| C21.75TW | 21.75 | 13.0 | 20.5 | 550.0 |

### Chain: H118 — F = 13.00

| Part Number | Outside Diameter | Face Width | Weight Each (lb) |
|---|---|---|---|
| C13.88TW | 13.88 | 13.00 | 495.0 |
| C16.5TW | 16.50 | 13.00 | 560.0 |

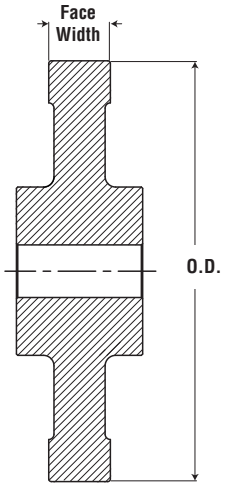
### Chain: C132 — F = 2.75

| Part Number | Outside Diameter | Face Width | Drum Width | Weight Each (lb) |
|---|---|---|---|---|
| C13.0TW | 13.00 | 2.75 | | 120.0 |
| C13.75TW | 13.75 | 2.75 | | 124.0 |
| C16.0TW | 16.00 | 2.75 | | 128.0 |
| C16.25TW | 16.25 | 2.75 | 14.00 | 510.0 |
| C17.0TW | 17.00 | 2.75 | | 138.0 |
| C18.0TW | 18.00 | 2.75 | | 147.0 |
| C18.25TW | 18.25 | 2.75 | 14.00 | 570.0 |
| C20.25TW | 20.25 | 2.75 | 14.00 | 620.0 |
| C21.63TW | 21.63 | 2.75 | | 186.0 |
| C22.0TW | 22.00 | 2.75 | | 190.0 |
| C24.0TW | 24.00 | 2.75 | | 205.0 |
| C26.19TW | 26.19 | 2.75 | | 210.0 |
| C27.75TW | 27.75 | 2.75 | | 225.0 |
| C30.0TW | 30.00 | 2.75 | | 280.0 |

### Unit Number H480 — F = 11.13

| Part Number | Outside Diameter | Face Width | Drum Width | Weight Each (lb) |
|---|---|---|---|---|
| C13.88TW | 13.88 | 11.13 | 22.00 | 440.0 |
| C16.25TW | 16.25 | 11.13 | 22.00 | 510 0 |
| C18.75TW | 18.75 | 11.13 | 22.00 | 540 0 |
| C21.13TW | 21.13 | 11.13 | 22.00 | 600 0 |
| C23.75TW | 23.75 | 11.13 | 22.00 | 630.0 |

# Traction Wheels




**Chain: SS40, 825, 830** **F = 1.25**

| Part Number | Outside Diameter | Face Width | Weight Each (lb) |
|---|---|---|---|
| C10.5TW | 10.50 | 1.25 | 45.0 |
| C14.0TW | 14.00 | 1.25 | 60.0 |
| C15.5TW | 15.50 | 1.25 | 68.0 |
| C16.0TW | 16.00 | 1.25 | 72.0 |
| C17.0TW | 17.00 | 1.25 | 79.0 |
| C18.25TW | 18.25 | 1.25 | 86.0 |
| C20.0TW | 20.00 | 1.25 | 95.0 |
| C22.0TW | 22.00 | 1.25 | 105.0 |
| C24.0TW | 24.00 | 1.25 | 120.0 |
| C27.75TW | 27.75 | 1.25 | 140.0 |
| C31.0TW | 31.00 | 1.25 | 160.0 |

**Chain: 844, 844R** **F = 2.13**

| Part Number | Outside Diameter | Face Width | Weight Each (lb) |
|---|---|---|---|
| C12.0TW | 12.00 | 2.13 | 65.0 |
| C16.0TW | 16.00 | 2.13 | 90.0 |
| C19.75TW | 19.75 | 2.13 | 109.0 |
| C22.25TW | 22.25 | 2.13 | 130.0 |
| C23.75TW | 23.75 | 2.13 | 148.0 |
| C27.75TW | 27.75 | 2.13 | 172.0 |
| C29.0TW | 29.00 | 2.13 | 190.0 |

**Chain: S856** **F = 2.63**

| Part Number | Outside Diameter | Face Width | Weight Each (lb) |
|---|---|---|---|
| C20.0TW | 20.00 | 2.63 | 170.0 |
| C21.5TW | 21.50 | 2.63 | 187.0 |
| C26.0TW | 26.00 | 2.63 | 200.0 |
| C27.75TW | 27.75 | 2.63 | 218.0 |
| C29.5TW | 29.50 | 2.63 | 225.0 |
| C30.0TW | 30.00 | 2.63 | 236.0 |

**Chain: 955** **F = 0.69**

| Part Number | Outside Diameter | Face Width | Weight Each (lb) |
|---|---|---|---|
| C08.0TW | 8.00 | 0.69 | 24.0 |
| C18.75TW | 18.75 | 0.69 | 65.0 |

**Chain: 720** **F = 1.00**

| Part Number | Outside Diameter | Face Width | Weight Each (lb) |
|---|---|---|---|
| C15.0TW | 15.00 | 1.00 | 62.0 |
| C15.5TW | 15.50 | 1.00 | 65.0 |
| C18.25TW | 18.25 | 1.00 | 85.0 |

# Keyways and Setscrews

## Keyseating, Keys and Setscrews

All Martin bored-to-size Cast Iron Sprockets include a keyway and two setscrews. All parts are shipped less key stock. Keyway and setscrew sizes are supplied according to the table below, unless specified. Our standard setscrew locations are one over the keyway and one at 90 degrees.

### Standard Keyways and Setscrews

| Bore (Inches) | Keyway Width × Depth | Diameter of Screw | Bore (Inches) | Keyway Width × Depth | Diameter of Screw |
|---|---|---|---|---|---|
| 0.50 to 0.56 | 0.13 × 0.06 | #10 | 2.31 to 2.75 | 0.63 × 0.31 | 0.63 |
| 0.63 to 0.88 | 0.19 × 0.09 | 0.25 | 2.81 to 3.25 | 0.75 × 0.38 | 0.63 |
| 0.94 to 1.25 | 0.25 × 0.13 | 0.31 | 3.31 to 3.75 | 0.88 × 0.44 | 0.75 |
| 1.31 to 1.38 | 0.31 × 0.16 | 0.38 | 3.81 to 4.50 | 1.00 × 0.50 | 0.75 |
| 1.44 to 1.75 | 0.38 × 0.19 | 0.38 | 4.56 to 5.50 | 1.25 × 0.63 | 0.88 |
| 1.81 to 2.25 | 0.50 × 0.25 | 0.50 | 5.56 to 6.50 | 1.50 × 0.75 | 1.00 |

# NOTES

# GEARS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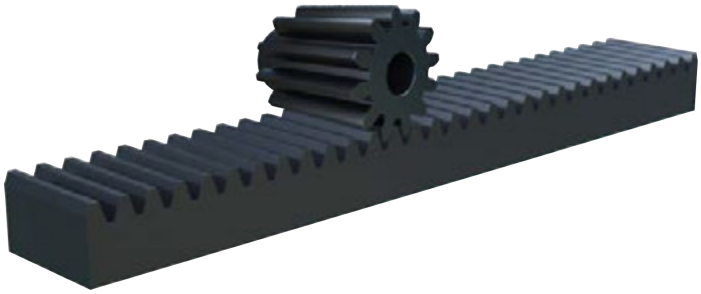
# Stock Gears

**Spur Gears**

**Bevel Gears**

**Miter Gears**

**Worm And Worm Gears**



**Gear Rack**

# Made-To-Order Gears

# Stock Gears Numbering System

Letters (Prefix) Indicate Material and Type Gear.
Letters (Suffix) Indicate Hardened, Number of Threads, Direction of Rotation and KW and SS.
Numbers Indicate Pitch, Number of Teeth, and Ratio (Suffix).

## Racks

| | |
|---|---|
| **R** | Steel |
| **RA** | Steel, Heavy Backing |
| **TR** | Steel, 20°, Heavy Backing |
| **R20** | Steel, 20°, Wide Face |

**Examples:**

| | |
|---|---|
| **R6X2** | 14½° STD Backing 6DPX2' Long |
| **RA6X4** | 14½° Heavy Backing 6DPX4' Long |
| **TR6X6** | 20° STD Width 6DPX6' Long |
| **R206X6** | 20° Wide Face 6DPX6' Long |

## Worm Gear

| | |
|---|---|
| **W** | Worm, Cast Iron |
| **WB** | Worm, Bronze |
| **D / Q** | (Suffix) Double or Quadruple Thread |

Worms and Worm Gears come standard as right hand. If left hand is needed, it must be specified.

**Examples:**

| | |
|---|---|
| **W660** | Cast Iron 6DP 60T Right Hand |
| **WB1020** | Bronze 10DP 20T Right Hand |
| **W640D** | Cast Iron 6DP 40T Double Thread Right Hand |

## Bevel Gears

| | |
|---|---|
| **B** | Bevel Gear, Cast Iron |
| **B** | Pinion, Steel |
| **BS** | Bevel Gear, Steel |
| **BS** | Pinion, Steel |

**Examples:**

| | |
|---|---|
| **B1060-3** | Cast Iron 10DP 60T 3:1 Ratio |
| **B1020-3** | Steel 10DP 20T 3:1 Ratio |
| **BS1040-2** | Steel 10DP 40T 2:1 Ratio |
| **BS1020-2** | Steel 10DP 20T 2:1 Ratio |

## Spur Gears

| | |
|---|---|
| **S** | Steel |
| **TS** | Steel, 20° |
| **C** | Cast Iron |
| **TC** | Cast Iron, 20° |
| **H** | Hardened Teeth |
| **NM** | Non-Metallic |

**Examples:**

| | |
|---|---|
| **S620** | Steel 6DP 20T 14½°PA |
| **TS621** | Steel 6DP 21T 20°PA |
| **C675** | Cast Iron 6DP 75T 14½°PA |
| **S620H** | Steel 6DP 20T Hardened 14½°PA |
| **NM620** | Non-Metallic 6DP 20T 14½°PA |
| **S612BS 1** | Steel 6DP 12T 1" Bore 14½°PA |
| **TS816BS 7/8** | Steel 8DP 16T .875 Bore 20°PA |

## Worm

| | |
|---|---|
| **W** | Steel |
| **WH** | Steel With Hub Projection |
| **WG** | Steel Hardened Ground Threads |
| **WHG** | Steel Hardened Ground Threads with Hub Projection |
| **D / Q** | (Suffix) Double or Quadruple Thread |

**Examples:**

| | |
|---|---|
| **W6** | Steel 6DP Right Hand |
| **WH6** | Steel w/Hub Projection 6DP Right Hand |
| **WG6** | Steel Case Hardened Ground Threads 6DP Right Hand |
| **WHG6** | Steel w/Hub Projection Hardened Ground Threads 6DP Right Hand |
| **W6D** | Steel 6DP Double Thread Right Hand |

## Miter Gears

| | |
|---|---|
| **M** | Miter Gear, Steel |
| **A / B** | Larger Bore (Suffix) |
| **HM** | Miter, Hardened Teeth |
| **K** | KW & SS |

Notes:
ALWAYS 1: 1 RATIO.
Same number of teeth on each mating Gear.

**Examples:**

| | |
|---|---|
| **M824** | Steel 8DP 24T |
| **M824A** | Steel 8DP 24T Larger Bore |
| **HM1020** | Steel Hardened Teeth 10DP 20T |
| **HMK1020** | Steel Hardened 10DP 20T with KW & SS |

# Styles of Spur Gears

Martin stock spur gears are available in five different styles. Steel gears are furnished in plain style and plain style with hub. Cast gears are furnished, plain with hub, web with lightening holes, and spoke. Cast gears are machined on all operating surFace. Martin cast gears are cast with larger hub to provide extra strength and to allow for larger bores.

**Type A**

- Plain without hubs
- All steel

**Type $B_1$**

- Web
- All steel
- Cast

**Type B**

- Plain with hubs
- All steel
- Cast

**Type $B_2$**

- Web with lighten holes
- All steel
- Cast

**Type $B_3$**

- Spoke style
- Cast

# 3 DP
## 3" Face

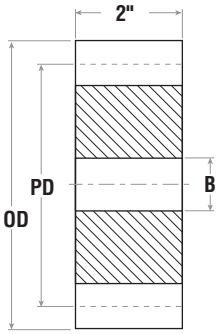
# Steel Stock Spur Gears
### 14½°Pressure Angle

**Type A**
Plain without hubs

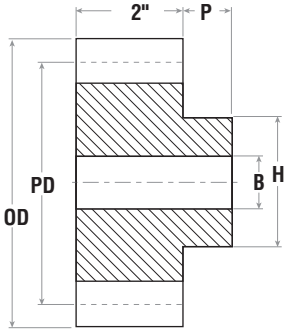
**Type B**
Plain with hubs

**Type $B_1$**
Web

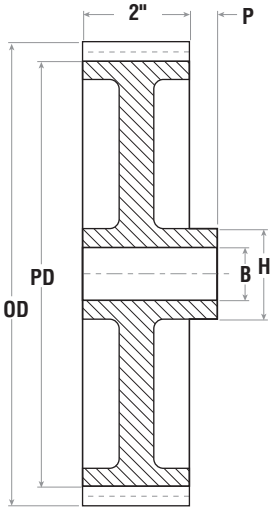
**Type $B_2$**
Web with lighten holes




**Type A**




**Type B**




**Type $B_1$, $B_2$**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 11 | S311 | 14 1/2 | 4.000 • † | 4.666 | A | 1 5/16 | 2 | – | – | 12.0 |
| 12 | S312 | 14 1/2 | 4.000 • | 4.666 | A | 1 5/16 | 2 | – | – | 11.0 |
| 13 | S313 | 14 1/2 | 4.333 | 5.000 | A | 1 5/16 | 2 1/4 | – | – | 10.7 |
| 14 | S314 | 14 1/2 | 4.667 | 5.333 | A | 1 5/16 | 2 3/8 | – | – | 12.8 |
| 15 | S315 | 14 1/2 | 5.000 | 5.666 | A | 1 5/16 | 2 3/4 | – | – | 14.8 |
| 16 | S316 | 14 1/2 | 5.333 | 6.000 | A | 1 5/16 | 2 13/16 | – | – | 17.0 |
| 18 | S318 | 14 1/2 | 6.000 | 6.666 | A | 1 5/16 | 3 1/4 | – | – | 22.0 |
| 20 | S320 | 14 1/2 | 6.667 | 7.333 | A | 1 7/16 | 3 5/8 | – | – | 27.4 |
| 21 | S321 | 14 1/2 | 7.000 | 7.666 | A | 1 7/16 | 3 7/8 | – | – | 30.7 |
| 24 | S324 | 14 1/2 | 8.000 | 8.666 | B | 1 7/16 | 3 1/4 | 5 1/2 | 1 1/4 | 48.2 |
| 30 | S330 | 14 1/2 | 10.000 | 10.666 | B | 1 9/16 | 3 7/8 | 6 1/4 | 1 1/4 | 74.5 |
| 36 | S336 | 14 1/2 | 12.000 | 12.666 | B | 1 9/16 | 4 1/8 | 6 1/2 | 1 3/4 | 114.0 |
| 42 | S342 | 14 1/2 | 14.000 | 14.666 | B1 | 1 9/16 | 4 1/8 | 6 1/2 | 1 3/4 | 106.0 |
| 48 | S348 | 14 1/2 | 16.000 | 16.666 | B1 | 1 9/16 | 4 1/8 | 6 1/2 | 1 3/4 | 120.0 |
| 54 | S354 | 14 1/2 | 18.000 | 18.666 | B2 | 1 9/16 | 4 1/8 | 6 1/2 | 1 3/4 | 134.0 |
| 60 | S360 | 14 1/2 | 20.000 | 20.666 | B2 | 1 9/16 | 4 1/8 | 6 1/2 | 1 3/4 | 150.0 |
| 72 | S372 | 14 1/2 | 24.000 | 24.666 | B2 | 1 9/16 | 4 1/2 | 7 | 1 3/4 | 180.0 |
| 84 | S384 | 14 1/2 | 28.000 | 28.666 | B2 | 1 9/16 | 4 1/2 | 7 | 1 3/4 | 215.0 |
| 96 | S396 | 14 1/2 | 32.000 | 32.666 | B2 | 1 11/16 | 4 1/2 | 7 | 1 3/4 | 264.0 |
| 108 | S3108 | 14 1/2 | 36.000 | 36.666 | B2 | 1 15/16 | 4 1/2 | 7 | 1 3/4 | 305.0 |
| 120 | S3120 | 14 1/2 | 40.000 | 40.666 | B2 | 1 15/16 | 5 | 7 1/2 | 1 3/4 | 367.0 |

* Recommended maximum bore with keyway and setscew.
† Enlarged pitch diameter with special tooth form.
• 4" Face.

**14½° P.A. gears will not operate with 20° P.A.**

# Cast Iron Stock Spur Gears

**14½°Pressure Angle**

# 3 DP

## 3" Face

**Type B**

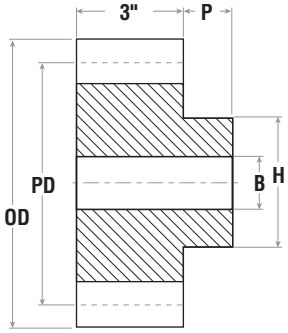
Plain with hubs

**Type $B_2$**

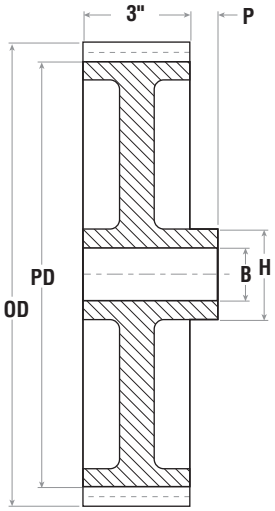
Web with lighten holes

**Type $B_3$**

Spoke style




**Type B**




**Type $B_2$, $B_3$**

## Cast — Style B

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 24 | C324 | 14 1/2 | 8.000 | 8.666 | B | 1 7/16 | 2 11/16 | 4 1/2 | 1 1/4 | 40.4 |
| 28 | C328 | 14 1/2 | 9.333 | 10.000 | B | 1 7/16 | 3 3/16 | 5 1/4 | 1 1/4 | 54.2 |
| 30 | C330 | 14 1/2 | 10.000 | 10.666 | B | 1 7/16 | 3 3/16 | 5 1/4 | 1 1/4 | 57.1 |
| 32 | C332 | 14 1/2 | 10.667 | 11.333 | B | 1 7/16 | 3 3/16 | 5 1/4 | 1 1/4 | 62.4 |
| 36 | C336 | 14 1/2 | 12.000 | 12.666 | B2 | 1 7/16 | 3 1/4 | 5 1/2 | 1 3/4 | 71.3 |
| 40 | C340 | 14 1/2 | 13.333 | 14.000 | B2 | 1 7/16 | 3 1/4 | 5 1/2 | 1 3/4 | 75.9 |
| 42 | C342 | 14 1/2 | 14.000 | 14.666 | B2 | 1 7/16 | 3 1/4 | 5 1/2 | 1 3/4 | 79.5 |
| 45 | C345 | 14 1/2 | 15.000 | 15.666 | B2 | 1 7/16 | 3 1/4 | 5 1/2 | 1 3/4 | 85.0 |
| 48 | C348 | 14 1/2 | 16.000 | 16.666 | B3 | 1 9/16 | 3 1/4 | 5 1/2 | 1 3/4 | 92.9 |
| 54 | C354 | 14 1/2 | 18.000 | 18.666 | B3 | 1 9/16 | 3 1/4 | 5 1/2 | 1 3/4 | 104.0 |
| 60 | C360 | 14 1/2 | 20.000 | 20.666 | B3 | 1 9/16 | 3 1/4 | 5 1/2 | 1 3/4 | 115.0 |
| 72 | C372 | 14 1/2 | 24.000 | 24.666 | B3 | 1 9/16 | 3 11/16 | 6 | 1 3/4 | 153.0 |
| 75 | C375 | 14 1/2 | 25.000 | 25.666 | B3 | 1 9/16 | 3 11/16 | 6 | 1 3/4 | 155.0 |
| 84 | C384 | 14 1/2 | 28.000 | 28.666 | B3 | 1 11/16 | 3 11/16 | 6 | 1 3/4 | 178.0 |
| 90 | C390 | 14 1/2 | 30.000 | 30.666 | B3 | 1 11/16 | 3 11/16 | 6 | 1 3/4 | 185.0 |
| 96 | C396 | 14 1/2 | 32.000 | 32.666 | B3 | 1 11/16 | 3 11/16 | 6 | 1 3/4 | 205.0 |
| 105 | C3105 | 14 1/2 | 35.000 | 35.666 | B3 | 1 11/16 | 3 11/16 | 6 | 1 3/4 | 216.0 |
| 108 | C3108 | 14 1/2 | 36.000 | 36.666 | B3 | 1 15/16 | 3 11/16 | 6 | 1 3/4 | 228.0 |
| 120 | C3120 | 14 1/2 | 40.000 | 40.666 | B3 | 1 15/16 | 4 1/8 | 6 1/2 | 1 3/4 | 226.0 |

* Recommended maximum bore with keyway and setscew.

**14½° P.A. gears will not operate with 20° P.A.**

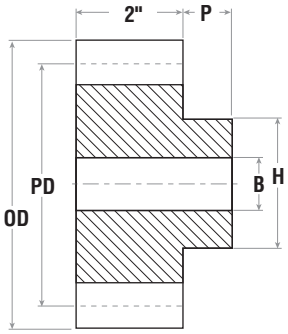
# 4 DP
## 2" Face

# Steel Stock Spur Gears
**14½°Pressure Angle**

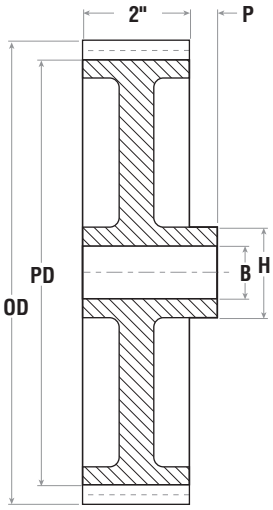
**Type B**
Plain with hubs

**Type $B_1$**
Web

**Type $B_2$**
Web with lighten holes




**Type B**




**Type $B_1$, $B_2$**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 11 | S411 | 14 1/2 | 3.000 † | 3.500 | B | 1 1/8 | 1 5/16 | 2 1/4 | 7/8 | 4.0 |
| 12 | S412 | 14 1/2 | 3.000 | 3.500 | B | 1 1/8 | 1 5/16 | 2 1/4 | 7/8 | 3.9 |
| 13 | S413 | 14 1/2 | 3.250 | 3.750 | B | 1 1/8 | 1 5/16 | 2 1/4 | 7/8 | 4.6 |
| 14 | S414 | 14 1/2 | 3.500 | 4.000 | B | 1 1/8 | 1 5/8 | 2 3/4 | 7/8 | 5.7 |
| 15 | S415 | 14 1/2 | 3.750 | 4.250 | B | 1 1/8 | 1 3/4 | 3 | 7/8 | 6.8 |
| 16 | S416 | 14 1/2 | 4.000 | 4.500 | B | 1 1/8 | 1 3/4 | 3 1/4 | 7/8 | 8.0 |
| 17 | S417 | 14 1/2 | 4.250 | 4.750 | B | 1 1/8 | 2 | 3 1/2 | 7/8 | 9.2 |
| 18 | S418 | 14 1/2 | 4.500 | 5.000 | B | 1 1/8 | 2 1/4 | 3 3/4 | 7/8 | 10.4 |
| 19 | S419 | 14 1/2 | 4.750 | 5.250 | B | 1 1/8 | 2 1/4 | 4 | 7/8 | 10.5 |
| 20 | S420 | 14 1/2 | 5.000 | 5.500 | B | 1 1/8 | 2 3/8 | 4 1/4 | 7/8 | 13.4 |
| 21 | S421 | 14 1/2 | 5.250 | 5.750 | B | 1 1/8 | 2 5/8 | 4 1/2 | 7/8 | 14.9 |
| 22 | S422 | 14 1/2 | 5.500 | 6.000 | B | 1 1/8 | 2 3/4 | 4 3/4 | 7/8 | 16.5 |
| 24 | S424 | 14 1/2 | 6.000 | 6.500 | B | 1 1/8 | 2 3/4 | 4 3/4 | 1 1/2 | 22.8 |
| 26 | S426 | 14 1/2 | 6.500 | 7.000 | B | 1 1/8 | 2 3/4 | 4 3/4 | 1 1/2 | 24.8 |
| 28 | S428 | 14 1/2 | 7.000 | 7.500 | B | 1 1/8 | 2 3/4 | 4 3/4 | 1 1/2 | 27.8 |
| 30 | S430 | 14 1/2 | 7.500 | 8.000 | B | 1 1/4 | 2 3/4 | 4 3/4 | 1 1/2 | 31.0 |
| 32 | S432 | 14 1/2 | 8.000 | 8.500 | B | 1 1/4 | 2 3/4 | 4 3/4 | 1 1/2 | 34.4 |
| 36 | S436 | 14 1/2 | 9.000 | 9.500 | B | 1 1/4 | 2 3/4 | 4 3/4 | 1 1/2 | 41.7 |
| 40 | S440 | 14 1/2 | 10.000 | 10.500 | B | 1 1/4 | 3 1/8 | 5 1/8 | 1 1/2 | 51.8 |
| 42 | S442 | 14 1/2 | 10.500 | 11.000 | B | 1 1/4 | 3 1/8 | 5 1/8 | 1 1/2 | 56.0 |
| 44 | S444 | 14 1/2 | 11.000 | 11.500 | B | 1 1/4 | 3 1/8 | 5 1/8 | 1 1/2 | 60.8 |
| 48 | S448 | 14 1/2 | 12.000 | 12.500 | B | 1 1/4 | 3 1/8 | 5 1/8 | 1 1/2 | 70.8 |
| 54 | S454 | 14 1/2 | 13.500 | 14.000 | B1 | 1 1/4 | 3 | 5 | 1 1/2 | 57.4 |
| 56 | S456 | 14 1/2 | 14.000 | 14.500 | B1 | 1 1/4 | 3 | 5 | 1 1/2 | 59.9 |
| 60 | S460 | 14 1/2 | 15.000 | 15.500 | B2 | 1 1/4 | 3 | 5 | 1 1/2 | 62.8 |
| 64 | S464 | 14 1/2 | 16.000 | 16.500 | B2 | 1 1/4 | 3 | 5 | 1 1/2 | 66.2 |
| 72 | S472 | 14 1/2 | 18.000 | 18.500 | B2 | 1 1/4 | 3 1/4 | 5 1/2 | 1 1/2 | 82.9 |
| 80 | S480 | 14 1/2 | 20.000 | 20.500 | B2 | 1 3/8 | 3 1/4 | 5 1/2 | 1 1/2 | 95.0 |
| 84 | S484 | 14 1/2 | 21.000 | 21.500 | B2 | 1 3/8 | 3 1/4 | 5 1/2 | 1 1/2 | 92.0 |
| 88 | S488 | 14 1/2 | 22.000 | 22.500 | B2 | 1 3/8 | 3 3/4 | 6 1/8 | 1 3/4 | 95.8 |
| 96 | S496 | 14 1/2 | 24.000 | 24.500 | B2 | 1 3/8 | 3 3/4 | 6 1/8 | 1 3/4 | 124.0 |
| 120 | S4120 | 14 1/2 | 30.000 | 30.500 | B2 | 1 3/8 | 3 5/8 | 6 | 1 3/4 | 155.0 |
| 144 | S4144 | 14 1/2 | 36.000 | 36.500 | B2 | 1 3/8 | 4 | 6 1/2 | 1 3/4 | 208.0 |

* Recommended maximum bore with keyway and setscew.
† Enlarged pitch diameter with special tooth form.

**14½° P.A. gears will not operate with 20° P.A.**

# Cast Iron Stock Spur Gears

**14½°Pressure Angle**

# 4 DP

## 2" Face

**Type B**

Plain with hubs

**Type $B_1$**

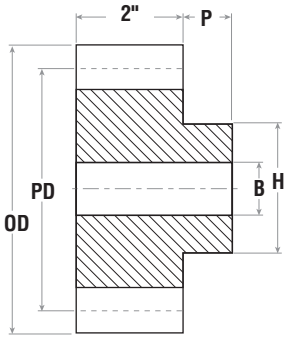
Web

**Type $B_2$**

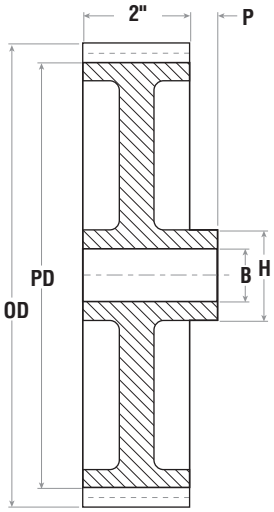
Web with lighten holes

**Type $B_3$**

Spoke style




**Type B**




**Type $B_1$, $B_2$, $B_3$**

## Cast — Style B

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 24 | C424 | 14 1/2 | 6.000 | 6.500 | B | 1 1/8 | 2 1/8 | 3 1/2 | 1 1/2 | 17.0 |
| 28 | C428 | 14 1/2 | 7.000 | 7.500 | B1 | 1 1/4 | 2 1/8 | 3 1/2 | 1 1/2 | 20.2 |
| 30 | C430 | 14 1/2 | 7.500 | 8.000 | B1 | 1 1/4 | 2 1/8 | 3 1/2 | 1 1/2 | 21.1 |
| 32 | C432 | 14 1/2 | 8.000 | 8.500 | B1 | 1 1/4 | 2 1/8 | 3 1/2 | 1 1/2 | 23.2 |
| 36 | C436 | 14 1/2 | 9.000 | 9.500 | B2 | 1 1/4 | 2 1/4 | 3 3/4 | 1 1/2 | 30.5 |
| 40 | C440 | 14 1/2 | 10.000 | 10.500 | B2 | 1 1/4 | 2 1/2 | 4 | 1 1/2 | 26.4 |
| 42 | C442 | 14 1/2 | 10.500 | 11.000 | B2 | 1 1/4 | 2 1/2 | 4 | 1 1/2 | 33.9 |
| 44 | C444 | 14 1/2 | 11.000 | 11.500 | B2 | 1 1/4 | 2 1/2 | 4 | 1 1/2 | 32.0 |
| 48 | C448 | 14 1/2 | 12.000 | 12.500 | B3 | 1 1/4 | 2 1/2 | 4 | 1 1/2 | 38.4 |
| 52 | C452 | 14 1/2 | 13.000 | 13.500 | B3 | 1 1/4 | 2 1/2 | 4 | 1 1/2 | 42.5 |
| 54 | C454 | 14 1/2 | 13.500 | 14.000 | B3 | 1 1/4 | 2 1/2 | 4 | 1 1/2 | 44.7 |
| 56 | C456 | 14 1/2 | 14.000 | 14.500 | B3 | 1 1/4 | 2 1/2 | 4 | 1 1/2 | 46.7 |
| 60 | C460 | 14 1/2 | 15.000 | 15.500 | B3 | 1 1/4 | 2 1/2 | 4 | 1 1/2 | 49.5 |
| 64 | C464 | 14 1/2 | 16.000 | 16.500 | B3 | 1 1/4 | 2 1/2 | 4 | 1 1/2 | 54.5 |
| 68 | C468 | 14 1/2 | 17.000 | 17.500 | B3 | 1 1/4 | 2 1/2 | 4 | 1 1/2 | 56.0 |
| 72 | C472 | 14 1/2 | 18.000 | 18.500 | B3 | 1 1/4 | 2 11/16 | 4 1/2 | 1 1/2 | 63.0 |
| 80 | C480 | 14 1/2 | 20.000 | 20.500 | B3 | 1 3/8 | 2 11/16 | 4 1/2 | 1 1/2 | 72.0 |
| 84 | C484 | 14 1/2 | 21.000 | 21.500 | B3 | 1 3/8 | 2 11/16 | 4 1/2 | 1 1/2 | 73.0 |
| 88 | C488 | 14 1/2 | 22.000 | 22.500 | B3 | 1 3/8 | 2 11/16 | 4 1/2 | 1 3/4 | 75.0 |
| 96 | C496 | 14 1/2 | 24.000 | 24.500 | B3 | 1 3/8 | 2 11/16 | 4 1/2 | 1 3/4 | 86.0 |
| 100 | C4100 | 14 1/2 | 25.000 | 25.500 | B3 | 1 3/8 | 2 11/16 | 4 1/2 | 1 3/4 | 91.0 |
| 104 | C4104 | 14 1/2 | 26.000 | 26.500 | B3 | 1 3/8 | 2 11/16 | 4 1/2 | 1 3/4 | 105.0 |
| 112 | C4112 | 14 1/2 | 28.000 | 28.500 | B3 | 1 3/8 | 3 1/8 | 5 | 1 3/4 | 108.0 |
| 120 | C4120 | 14 1/2 | 30.000 | 30.500 | B3 | 1 3/8 | 3 1/8 | 5 | 1 3/4 | 115.0 |
| 132 | C4132 | 14 1/2 | 33.000 | 33.500 | B3 | 1 3/8 | 3 1/8 | 5 | 1 3/4 | 129.0 |
| 144 | C4144 | 14 1/2 | 36.000 | 36.500 | B3 | 1 3/8 | 3 1/4 | 5 1/2 | 1 3/4 | 140.0 |

* Recommended maximum bore with keyway and setscew.

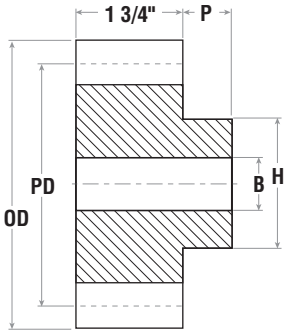
**14½° P.A. gears will not operate with 20° P.A.**

# 5 DP
## 1¾" Face

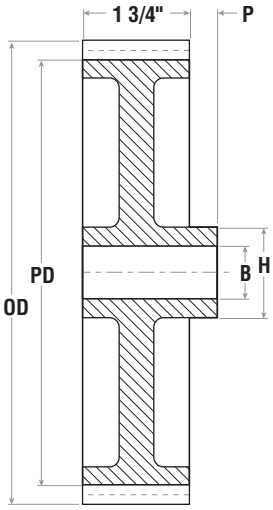
# Steel Stock Spur Gears
### 14½°Pressure Angle

**Type B**
Plain with hubs

**Type $B_2$**
Web with lighten holes




**Type B**




**Type $B_2$**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 11 | S511 | 14 1/2 | 2.400 † | 2.800 | B | 1 1/16 | 1 1/16 | 1 25/32 | 7/8 | 2.0 |
| 12 | S512 | 14 1/2 | 2.400 | 2.800 | B | 1 1/16 | 1 1/16 | 1 25/32 | 7/8 | 2.0 |
| 13 | S513 | 14 1/2 | 2.600 | 3.000 | B | 1 1/16 | 1 1/4 | 2 | 7/8 | 2.6 |
| 14 | S514 | 14 1/2 | 2.800 | 3.200 | B | 1 1/16 | 1 5/16 | 2 3/16 | 7/8 | 3.1 |
| 15 | S515 | 14 1/2 | 3.000 | 3.400 | B | 1 1/16 | 1 7/16 | 2 3/8 | 7/8 | 3.7 |
| 16 | S516 | 14 1/2 | 3.200 | 3.600 | B | 1 1/16 | 1 5/8 | 2 19/32 | 7/8 | 4.5 |
| 17 | S517 | 14 1/2 | 3.400 | 3.800 | B | 1 1/16 | 1 13/16 | 2 7/8 | 7/8 | 5.2 |
| 18 | S518 | 14 1/2 | 3.600 | 4.000 | B | 1 1/16 | 1 7/8 | 3 | 7/8 | 5.9 |
| 19 | S519 | 14 1/2 | 3.800 | 4.200 | B | 1 1/16 | 2 1/8 | 3 1/4 | 7/8 | 6.7 |
| 20 | S520 | 14 1/2 | 4.000 | 4.400 | B | 1 1/16 | 2 1/4 | 3 3/8 | 7/8 | 7.5 |
| 21 | S521 | 14 1/2 | 4.200 | 4.600 | B | 1 1/16 | 2 1/4 | 3 3/8 | 7/8 | 8.1 |
| 22 | S522 | 14 1/2 | 4.400 | 4.800 | B | 1 1/16 | 2 1/4 | 3 3/8 | 7/8 | 8.8 |
| 23 | S523 | 14 1/2 | 4.600 | 5.000 | B | 1 1/16 | 2 1/4 | 3 3/8 | 7/8 | 9.5 |
| 24 | S524 | 14 1/2 | 4.800 | 5.200 | B | 1 1/16 | 2 1/4 | 3 3/8 | 1 1/4 | 11.0 |
| 25 | S525 | 14 1/2 | 5.000 | 5.400 | B | 1 1/16 | 2 1/4 | 3 3/8 | 1 1/4 | 11.8 |
| 26 | S526 | 14 1/2 | 5.200 | 5.600 | B | 1 1/16 | 2 1/4 | 3 3/8 | 1 1/4 | 12.9 |
| 28 | S528 | 14 1/2 | 5.600 | 6.000 | B | 1 1/16 | 2 1/4 | 3 3/8 | 1 1/4 | 14.3 |
| 30 | S530 | 14 1/2 | 6.000 | 6.400 | B | 1 1/16 | 2 1/4 | 3 3/8 | 1 1/4 | 16.0 |
| 35 | S535 | 14 1/2 | 7.000 | 7.400 | B | 1 3/16 | 2 5/8 | 4 1/4 | 1 1/4 | 22.8 |
| 40 | S540 | 14 1/2 | 8.000 | 8.400 | B | 1 3/16 | 2 5/8 | 4 1/4 | 1 1/4 | 28.5 |
| 45 | S545 | 14 1/2 | 9.000 | 9.400 | B | 1 3/16 | 2 11/16 | 4 5/8 | 1 1/4 | 35.0 |
| 50 | S550 | 14 1/2 | 10.000 | 10.400 | B | 1 3/16 | 2 13/16 | 4 3/4 | 1 1/4 | 43.6 |
| 55 | S555 | 14 1/2 | 11.000 | 11.400 | B | 1 3/16 | 2 13/16 | 4 3/4 | 1 1/4 | 52.0 |
| 60 | S560 | 14 1/2 | 12.000 | 12.400 | B | 1 3/16 | 2 13/16 | 4 3/4 | 1 1/4 | 60.9 |
| 70 | S570 | 14 1/2 | 14.000 | 14.400 | B2 | 1 3/16 | 3 1/8 | 5 | 1 1/4 | 48.4 |
| 80 | S580 | 14 1/2 | 16.000 | 16.400 | B2 | 1 3/16 | 3 1/8 | 5 | 1 1/4 | 57.0 |
| 90 | S590 | 14 1/2 | 18.000 | 18.400 | B2 | 1 3/16 | 3 1/8 | 5 | 1 1/4 | 67.0 |
| 100 | S5100 | 14 1/2 | 20.000 | 20.400 | B2 | 1 5/16 | 3 1/4 | 5 1/2 | 1 1/2 | 62.0 |
| 110 | S5110 | 14 1/2 | 22.000 | 22.400 | B2 | 1 5/16 | 3 1/4 | 5 1/2 | 1 1/2 | 87.6 |
| 120 | S5120 | 14 1/2 | 24.000 | 24.400 | B2 | 1 5/16 | 3 1/2 | 6 1/8 | 1 1/2 | 113.0 |

* Recommended maximum bore with keyway and setscew.
† Enlarged pitch diameter with special tooth form.

**14½° P.A. gears will not operate with 20° P.A.**

# Cast Iron Stock Spur Gears

**14½°Pressure Angle**

# 5 DP

## 1¾" Face

**Type B**

Plain with hubs

**Type $B_1$**

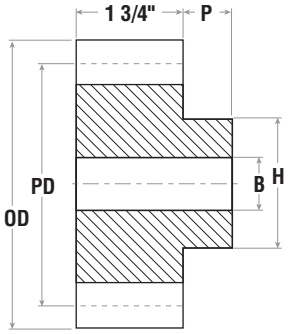
Web

**Type $B_2$**

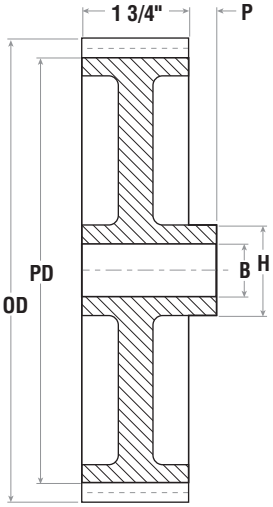
Web with lighten holes

**Type $B_3$**

Spoke style




**Type B**




**Type $B_1$, $B_2$, $B_3$**

## Cast — Style B

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 24 | C524 | 14 1/2 | 4.800 | 5.200 | B | 1 1/16 | 2 1/16 | 3 1/4 | 1 1/4 | 9.9 |
| 25 | C525 | 14 1/2 | 5.000 | 5.400 | B | 1 1/16 | 2 1/16 | 3 1/4 | 1 1/4 | 10.6 |
| 28 | C528 | 14 1/2 | 5.600 | 6.000 | B1 | 1 1/16 | 2 1/16 | 3 1/4 | 1 1/4 | 12.1 |
| 30 | C530 | 14 1/2 | 6.000 | 6.400 | B1 | 1 1/16 | 2 1/16 | 3 1/4 | 1 1/4 | 13.9 |
| 32 | C532 | 14 1/2 | 6.400 | 6.800 | B1 | 1 1/16 | 2 1/16 | 3 1/4 | 1 1/4 | 13.5 |
| 35 | C535 | 14 1/2 | 7.000 | 7.400 | B1 | 1 3/16 | 2 1/16 | 3 1/4 | 1 1/4 | 16.9 |
| 36 | C536 | 14 1/2 | 7.200 | 7.600 | B1 | 1 3/16 | 2 1/16 | 3 1/4 | 1 1/4 | 15.5 |
| 40 | C540 | 14 1/2 | 8.000 | 8.400 | B1 | 1 3/16 | 2 1/16 | 3 1/4 | 1 1/4 | 17.4 |
| 45 | C545 | 14 1/2 | 9.000 | 9.400 | B2 | 1 3/16 | 2 1/16 | 3 1/4 | 1 1/4 | 20.3 |
| 48 | C548 | 14 1/2 | 9.600 | 10.000 | B2 | 1 3/16 | 2 5/16 | 3 3/4 | 1 1/4 | 25.2 |
| 50 | C550 | 14 1/2 | 10.000 | 10.400 | B3 | 1 3/16 | 2 5/16 | 3 3/4 | 1 1/4 | 23.7 |
| 54 | C554 | 14 1/2 | 10.800 | 11.200 | B3 | 1 3/16 | 2 5/16 | 3 3/4 | 1 1/4 | 25.1 |
| 55 | C555 | 14 1/2 | 11.000 | 11.400 | B3 | 1 3/16 | 2 5/16 | 3 3/4 | 1 1/4 | 26.0 |
| 60 | C560 | 14 1/2 | 12.000 | 12.400 | B3 | 1 3/16 | 2 5/16 | 3 3/4 | 1 1/4 | 30.6 |
| 64 | C564 | 14 1/2 | 12.800 | 13.200 | B3 | 1 3/16 | 2 5/16 | 3 3/4 | 1 1/4 | 31.2 |
| 66 | C566 | 14 1/2 | 13.200 | 13.600 | B3 | 1 3/16 | 2 5/16 | 3 3/4 | 1 1/4 | 30.8 |
| 70 | C570 | 14 1/2 | 14.000 | 14.400 | B3 | 1 3/16 | 2 9/16 | 4 | 1 1/4 | 34.5 |
| 72 | C572 | 14 1/2 | 14.400 | 14.800 | B3 | 1 3/16 | 2 9/16 | 4 | 1 1/4 | 35.0 |
| 75 | C575 | 14 1/2 | 15.000 | 15.400 | B3 | 1 3/16 | 2 9/16 | 4 | 1 1/4 | 36.7 |
| 80 | C580 | 14 1/2 | 16.000 | 16.400 | B3 | 1 3/16 | 2 9/16 | 4 | 1 1/4 | 40.8 |
| 84 | C584 | 14 1/2 | 16.800 | 17.200 | B3 | 1 3/16 | 2 9/16 | 4 | 1 1/4 | 40.0 |
| 90 | C590 | 14 1/2 | 18.000 | 18.400 | B3 | 1 3/16 | 2 9/16 | 4 | 1 1/4 | 45.4 |
| 96 | C596 | 14 1/2 | 19.200 | 19.600 | B3 | 1 3/16 | 2 9/16 | 4 | 1 1/4 | 48.6 |
| 100 | C5100 | 14 1/2 | 20.000 | 20.400 | B3 | 1 5/16 | 2 5/8 | 4 1/2 | 1 1/2 | 54.4 |
| 120 | C5120 | 14 1/2 | 24.000 | 24.400 | B3 | 1 5/16 | 2 13/16 | 4 3/4 | 1 1/2 | 56.1 |
| 130 | C5130 | 14 1/2 | 26.000 | 26.400 | B3 | 1 5/16 | 2 13/16 | 4 3/4 | 1 1/2 | 70.2 |

* Recommended maximum bore with keyway and setscew.
Quotes for large quantity discontinued cast iron sizes, contact your nearest Martin Facility.

**14½° P.A. gears will not operate with 20° P.A.**

# 6 DP
## 1½" Face

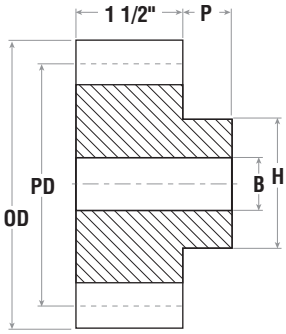
# Steel Stock Spur Gears
### 14½°Pressure Angle

**Type B**

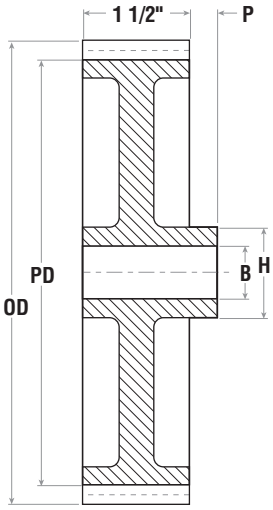
Plain with hubs

**Type $B_2$**

Web with lighten holes




**Type B**




**Type $B_2$**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 11 | S611 | 14 1/2 | 2.000 † | 2.333 | B | 1 | ** | 1 1/2 | 7/8 | 1.1 |
| 12 | S612 | 14 1/2 | 2.000 | 2.333 | B | 1 | ** | 1 1/2 | 7/8 | 1.1 |
| 14 | S614 | 14 1/2 | 2.333 | 2.666 | B | 1 | 1 1/16 | 1 13/16 | 7/8 | 1.8 |
| 15 | S615 | 14 1/2 | 2.500 | 2.833 | B | 1 | 1 1/4 | 2 | 7/8 | 2.2 |
| 16 | S616 | 14 1/2 | 2.666 | 3.000 | B | 1 | 1 5/16 | 2 5/32 | 7/8 | 2.6 |
| 18 | S618 | 14 1/2 | 3.000 | 3.333 | B | 1 | 1 1/2 | 2 1/2 | 7/8 | 3.5 |
| 20 | S620 | 14 1/2 | 3.333 | 3.666 | B | 1 | 1 3/4 | 2 27/32 | 7/8 | 4.6 |
| 21 | S621 | 14 1/2 | 3.500 | 3.833 | B | 1 | 1 7/8 | 3 | 7/8 | 5.1 |
| 22 | S622 | 14 1/2 | 3.666 | 4.000 | B | 1 | 1 7/8 | 3 | 7/8 | 5.5 |
| 24 | S624 | 14 1/2 | 4.000 | 4.333 | B | 1 1/8 | 1 7/8 | 3 | 1 | 6.5 |
| 27 | S627 | 14 1/2 | 4.500 | 4.833 | B | 1 1/8 | 1 7/8 | 3 | 1 | 6.6 |
| 28 | S628 | 14 1/2 | 4.666 | 5.000 | B | 1 1/8 | 1 7/8 | 3 | 1 | 8.3 |
| 30 | S630 | 14 1/2 | 5.000 | 5.333 | B | 1 1/8 | 2” | 3 1/8 | 1 | 9.5 |
| 32 | S632 | 14 1/2 | 5.333 | 5.666 | B | 1 1/8 | 2” | 3 1/8 | 1 | 10.7 |
| 33 | S633 | 14 1/2 | 5.500 | 5.833 | B | 1 1/8 | 2 1/8 | 3 1/4 | 1 | 11.3 |
| 36 | S636 | 14 1/2 | 6.000 | 6.333 | B | 1 1/8 | 2 1/8 | 3 1/4 | 1 | 13.3 |
| 39 | S639 | 14 1/2 | 6.500 | 6.833 | B | 1 1/8 | 2 1/2 | 4 | 1 | 16.6 |
| 40 | S640 | 14 1/2 | 6.666 | 7.000 | B | 1 1/8 | 2 1/2 | 4 | 1 | 17.6 |
| 42 | S642 | 14 1/2 | 7.000 | 7.333 | B | 1 1/8 | 2 1/2 | 4 | 1 | 18.9 |
| 45 | S645 | 14 1/2 | 7.500 | 7.833 | B | 1 1/8 | 2 1/2 | 4 | 1 | 21.3 |
| 48 | S648 | 14 1/2 | 8.000 | 8.333 | B | 1 1/8 | 2 1/2 | 4 1/8 | 1 | 24.3 |
| 52 | S652 | 14 1/2 | 8.666 | 9.000 | B | 1 1/8 | 2 5/8 | 4 1/4 | 1 | 27.9 |
| 54 | S654 | 14 1/2 | 9.000 | 9.333 | B | 1 1/8 | 2 5/8 | 4 3/8 | 1 | 30.4 |
| 58 | S658 | 14 1/2 | 9.666 | 10.000 | B | 1 1/8 | 2 5/8 | 4 3/8 | 1 | 33.9 |
| 60 | S660 | 14 1/2 | 10.000 | 10.333 | B | 1 1/4 | 2 5/8 | 4 3/8 | 1 1/4 | 34.3 |
| 64 | S664 | 14 1/2 | 10.666 | 11.000 | B | 1 1/4 | 2 5/8 | 4 3/8 | 1 1/4 | 42.2 |
| 66 | S666 | 14 1/2 | 11.000 | 11.333 | B | 1 1/4 | 2 5/8 | 4 3/8 | 1 1/4 | 50.0 |
| 72 | S672 | 14 1/2 | 12.000 | 12.333 | B | 1 1/4 | 2 11/16 | 4 3/8 | 1 1/4 | 53.0 |
| 84 | S684 | 14 1/2 | 14.000 | 14.333 | B2 | 1 1/4 | 2 11/16 | 4 1/2 | 1 1/4 | 40.0 |
| 96 | S696 | 14 1/2 | 16.000 | 16.333 | B2 | 1 1/4 | 2 13/16 | 5 1/8 | 1 1/4 | 43.8 |
| 108 | S6108 | 14 1/2 | 18.000 | 18.333 | B2 | 1 1/4 | 2 13/16 | 5 1/8 | 1 1/4 | 53.0 |
| 120 | S6120 | 14 1/2 | 20.000 | 20.333 | B2 | 1 1/4 | 2 13/16 | 5 1/8 | 1 1/2 | 63.2 |
| 132 | S6132 | 14 1/2 | 22.000 | 22.333 | B2 | 1 1/4 | 2 13/16 | 5 1/8 | 1 1/2 | 68.3 |
| 144 | S6144 | 14 1/2 | 24.000 | 24.333 | B2 | 1 1/4 | 3 1/8 | 5 | 1 1/2 | 82.7 |

* Recommended maximum bore with keyway and setscew.
† Enlarged pitch diameter with special tooth form.
** Check application with factory.

**14½° P.A. gears will not operate with 20° P.A.**

# Cast Iron Stock Spur Gears

**14½°Pressure Angle**

# 6 DP

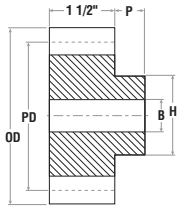
## 1½" Face

**Type B**
Plain with hubs

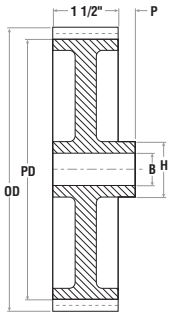
**Type $B_1$**
Web

**Type $B_2$**
Web with lighten holes

**Type $B_3$**
Spoke style




**Type B**




**Type $B_1$, $B_2$, $B_3$**

## Cast — Style B

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| • 32 | C632 | 14 1/2 | 5.333 | 5.666 | B1 | 1 1/8 | 1 7/16 | 2 1/2 | 1 | 7.2 |
| • 40 | C640 | 14 1/2 | 6.666 | 7.000 | B1 | 1 1/8 | 1 13/16 | 3 | 1 | 11.9 |
| • 42 | C642 | 14 1/2 | 7.000 | 7.333 | B1 | 1 1/8 | 1 13/16 | 3 | 1 | 13.0 |
| • 48 | C648 | 14 1/2 | 8.000 | 8.333 | B3 | 1 1/8 | 1 13/16 | 3 | 1 | 12.1 |
| • 54 | C654 | 14 1/2 | 9.000 | 9.333 | B3 | 1 1/8 | 2 1/16 | 3 1/4 | 1 | 14.4 |
| • 60 | C660 | 14 1/2 | 10.000 | 10.333 | B3 | 1 1/4 | 2 1/16 | 3 1/4 | 1 1/4 | 17.0 |
| • 64 | C664 | 14 1/2 | 10.666 | 11.000 | B3 | 1 1/4 | 2 1/16 | 3 1/4 | 1 1/4 | 18.5 |
| 66 | C666 | 14 1/2 | 11.000 | 11.333 | B3 | 1 1/4 | 2 1/16 | 3 1/4 | 1 1/4 | 19.0 |
| 70 | C670 | 14 1/2 | 11.666 | 12.000 | B3 | 1 1/4 | 2 1/16 | 3 1/4 | 1 1/4 | 20.6 |
| 72 | C672 | 14 1/2 | 12.000 | 12.333 | B3 | 1 1/4 | 2 3/16 | 3 1/2 | 1 1/4 | 23.7 |
| 75 | C675 | 14 1/2 | 12.500 | 12.833 | B3 | 1 1/4 | 2 3/16 | 3 1/2 | 1 1/4 | 25.4 |
| 80 | C680 | 14 1/2 | 13.333 | 13.666 | B3 | 1 1/4 | 2 3/16 | 3 1/2 | 1 1/4 | 25.8 |
| 84 | C684 | 14 1/2 | 14.000 | 14.333 | B3 | 1 1/4 | 2 3/16 | 3 1/2 | 1 1/4 | 25.0 |
| 90 | C690 | 14 1/2 | 15.000 | 15.333 | B3 | 1 1/4 | 2 3/16 | 3 1/2 | 1 1/4 | 25.8 |
| 96 | C696 | 14 1/2 | 16.000 | 16.333 | B3 | 1 1/4 | 2 3/16 | 3 1/2 | 1 1/4 | 28.0 |
| 108 | C6108 | 14 1/2 | 18.000 | 18.333 | B3 | 1 1/4 | 2 5/16 | 3 3/4 | 1 1/4 | 32.0 |
| 120 | C6120 | 14 1/2 | 20.000 | 20.333 | B3 | 1 1/4 | 2 5/16 | 3 3/4 | 1 1/2 | 34.8 |
| 132 | C6132 | 14 1/2 | 22.000 | 22.333 | B3 | 1 1/4 | 2 5/16 | 3 3/4 | 1 1/2 | 43.4 |
| 144 | C6144 | 14 1/2 | 24.000 | 24.333 | B3 | 1 1/4 | 2 9/16 | 4 | 1 1/2 | 45.2 |
| 180 | C6180 | 14 1/2 | 30.000 | 30.333 | B3 | 1 1/4 | 2 9/16 | 4 | 1 1/2 | 58.3 |

## Bored-To-Size

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Setscrew | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Keyway | | Diameter | Projection | |
| 11 | S611BS 1 | 14 1/2 | 2.000 | 2.333 | B | 1 | 1/4 × 1/8 | (1) 1/4-20 @ 90 | 1 1/2 | 7/8 | 1.10 |
| 12 | S612BS 1 | 14 1/2 | 2.000 | 2.333 | B | 1 | 1/4 × 1/8 | (1) 1/4-20 @ 90 | 1 1/2 | 7/8 | 1.10 |
| 14 | S614BS 1 | 14 1/2 | 2.333 | 2.667 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 13/16 | 7/8 | 1.80 |
| 14 | S614BS 1 1/8 | 14 1/2 | 2.333 | 2.667 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 13/16 | 7/8 | 1.80 |
| 15 | S615BS 1 | 14 1/2 | 2.500 | 2.833 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 | 7/8 | 2.20 |
| 15 | S615BS 1 1/8 | 14 1/2 | 2.500 | 2.833 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 | 7/8 | 2.20 |
| 15 | S615BS 1 3/16 | 14 1/2 | 2.500 | 2.833 | B | 1 3/16 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 | 7/8 | 2.20 |
| 15 | S615BS 1 1/4 | 14 1/2 | 2.500 | 2.833 | B | 1 1/4 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 | 7/8 | 2.20 |
| 16 | S616BS 1 | 14 1/2 | 2.667 | 3.000 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 5/32 | 7/8 | 2.60 |
| 16 | S616BS 1 1/8 | 14 1/2 | 2.667 | 3.000 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 5/32 | 7/8 | 2.60 |
| 16 | S616BS 1 3/16 | 14 1/2 | 2.667 | 3.000 | B | 1 3/16 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 5/32 | 7/8 | 2.60 |
| 16 | S616BS 1 1/4 | 14 1/2 | 2.667 | 3.000 | B | 1 1/4 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 5/32 | 7/8 | 2.60 |
| 18 | S618BS 1 | 14 1/2 | 3.000 | 3.333 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 1/2 | 7/8 | 3.50 |
| 18 | S618BS 1 1/8 | 14 1/2 | 3.000 | 3.333 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 1/2 | 7/8 | 3.50 |
| 18 | S618BS 1 3/16 | 14 1/2 | 3.000 | 3.333 | B | 1 3/16 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 1/2 | 7/8 | 3.50 |
| 18 | S618BS 1 1/4 | 14 1/2 | 3.000 | 3.333 | B | 1 1/4 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 1/2 | 7/8 | 3.50 |
| 20 | S620BS 1 | 14 1/2 | 3.333 | 3.667 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 27/32 | 7/8 | 4.60 |
| 20 | S620BS 1 1/8 | 14 1/2 | 3.333 | 3.667 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 27/32 | 7/8 | 4.60 |
| 20 | S620BS 1 3/16 | 14 1/2 | 3.333 | 3.667 | B | 1 3/16 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 27/32 | 7/8 | 4.60 |
| 20 | S620BS 1 1/4 | 14 1/2 | 3.333 | 3.667 | B | 1 1/4 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 27/32 | 7/8 | 4.60 |

**14½° P.A. gears will not operate with 20° P.A.**

• Consult Factory.

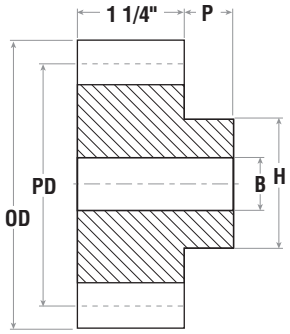
* Recommended maximum bore with keyway and setscew.

# 8 DP
## 1¼" Face

# Steel Stock Spur Gears
### 14½°Pressure Angle

**Type B**

Plain with hubs




**Type B**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 11 | S811 | 14 1/2 | 1.500 † | 1.750 | B | 3/4 | ** | 1 1/8 | 3/4 | 0.5 |
| 12 | S812 | 14 1/2 | 1.500 | 1.750 | B | 3/4 | ** | 1 1/8 | 3/4 | 0.5 |
| 13 | S813 | 14 1/2 | 1.625 | 1.875 | B | 3/4 | ** | 1 1/4 | 3/4 | 0.7 |
| 14 | S814 | 14 1/2 | 1.750 | 2.000 | B | 3/4 | 13/16 | 1 3/8 | 3/4 | 0.9 |
| 15 | S815 | 14 1/2 | 1.875 | 2.125 | B | 7/8 | 7/8 | 1 1/2 | 3/4 | 0.9 |
| 16 | S816 | 14 1/2 | 2.000 | 2.250 | B | 7/8 | 15/16 | 1 5/8 | 3/4 | 1.1 |
| 17 | S817 | 14 1/2 | 2.125 | 2.375 | B | 7/8 | 1 | 1 3/4 | 3/4 | 1.3 |
| 18 | S818 | 14 1/2 | 2.250 | 2.500 | B | 7/8 | 1 1/8 | 1 7/8 | 3/4 | 1.6 |
| 19 | S819 | 14 1/2 | 2.375 | 2.625 | B | 7/8 | 1 1/4 | 2 | 3/4 | 1.8 |
| 20 | S820 | 14 1/2 | 2.500 | 2.750 | B | 7/8 | 1 5/16 | 2 1/8 | 3/4 | 2.0 |
| 21 | S821 | 14 1/2 | 2.625 | 2.875 | B | 7/8 | 1 7/16 | 2 1/4 | 3/4 | 2.3 |
| 22 | S822 | 14 1/2 | 2.750 | 3.000 | B | 7/8 | 1 5/8 | 2 3/8 | 3/4 | 2.6 |
| 24 | S824 | 14 1/2 | 3.000 | 3.250 | B | 7/8 | 1 5/8 | 2 5/8 | 1 | 3.6 |
| 26 | S826 | 14 1/2 | 3.250 | 3.500 | B | 7/8 | 1 5/8 | 2 5/8 | 1 | 3.9 |
| 28 | S828 | 14 1/2 | 3.500 | 3.750 | B | 7/8 | 1 5/8 | 2 5/8 | 1 | 4.4 |
| 30 | S830 | 14 1/2 | 3.750 | 4.000 | B | 7/8 | 1 3/4 | 2 3/4 | 1 | 5.1 |
| 32 | S832 | 14 1/2 | 4.000 | 4.250 | B | 1 | 1 13/16 | 2 7/8 | 1 | 5.6 |
| 36 | S836 | 14 1/2 | 4.500 | 4.750 | B | 1 | 1 7/8 | 3 | 1 | 7.0 |
| 40 | S840 | 14 1/2 | 5.000 | 5.250 | B | 1 | 1 7/8 | 3 | 1 | 8.3 |
| 42 | S842 | 14 1/2 | 5.250 | 5.500 | B | 1 | 1 7/8 | 3 | 1 | 9.0 |
| 44 | S844 | 14 1/2 | 5.500 | 5.750 | B | 1 | 1 7/8 | 3 | 1 | 9.7 |
| 48 | S848 | 14 1/2 | 6.000 | 6.250 | B | 1 | 1 7/8 | 3 | 1 | 11.3 |

* Recommended maximum bore with keyway and setscew.
† Enlarged pitch diameter with special tooth form.
** Check application with factory.

**14½° P.A. gears will not operate with 20° P.A.**

# Cast Iron Stock Spur Gears

**14½°Pressure Angle**

# 8 DP

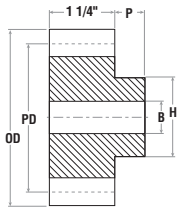
## 1¼" Face

**Type B**
Plain with hubs

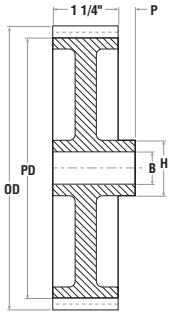
**Type $B_1$**
Web

**Type $B_2$**
Web with lighten holes

**Type $B_3$**
Spoke style




**Type B**




**Type $B_1$, $B_2$, $B_3$**

## Cast — Style B

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| • 36 | C836 | 14 1/2 | 4.500 | 4.750 | B1 | 1 | 1 7/16 | 2 1/2 | 1 | 4.5 |
| • 40 | C840 | 14 1/2 | 5.000 | 5.250 | B1 | 1 | 1 7/16 | 2 1/2 | 1 | 5.1 |
| • 42 | C842 | 14 1/2 | 5.250 | 5.500 | B1 | 1 | 1 7/16 | 2 1/2 | 1 | 5.5 |
| • 44 | C844 | 14 1/2 | 5.500 | 5.750 | B1 | 1 | 1 7/16 | 2 1/2 | 1 | 6.0 |
| 52 | C852 | 14 1/2 | 6.500 | 6.750 | B1 | 1 | 1 11/16 | 2 3/4 | 1 | 10.3 |
| 54 | C854 | 14 1/2 | 6.750 | 7.000 | B2 | 1 | 1 11/16 | 2 3/4 | 1 | 8.1 |
| 56 | C856 | 14 1/2 | 7.000 | 7.250 | B3 | 1 | 1 11/16 | 2 3/4 | 1 | 8.2 |
| 60 | C860 | 14 1/2 | 7.500 | 7.750 | B3 | 1 | 1 11/16 | 2 3/4 | 1 | 8.8 |
| 64 | C864 | 14 1/2 | 8.000 | 8.250 | B3 | 1 | 1 11/16 | 2 3/4 | 1 | 11.2 |
| 68 | C868 | 14 1/2 | 8.500 | 8.750 | B3 | 1 | 1 13/16 | 3 | 1 | 11.5 |
| 72 | C872 | 14 1/2 | 9.000 | 9.250 | B3 | 1 | 1 13/16 | 3 | 1 | 11.7 |
| 76 | C876 | 14 1/2 | 9.500 | 9.750 | B3 | 1 | 1 13/16 | 3 | 1 | 12.0 |
| 80 | C880 | 14 1/2 | 10.000 | 10.250 | B3 | 1 1/8 | 1 13/16 | 3 | 1 1/8 | 12.2 |
| 84 | C884 | 14 1/2 | 10.500 | 10.750 | B3 | 1 1/8 | 1 13/16 | 3 | 1 1/8 | 13.2 |
| 88 | C888 | 14 1/2 | 11.000 | 11.250 | B3 | 1 1/8 | 1 13/16 | 3 | 1 1/8 | 13.5 |
| 92 | C892 | 14 1/2 | 11.500 | 11.750 | B3 | 1 1/8 | 2 1/16 | 3 1/4 | 1 1/8 | 15.0 |
| 96 | C896 | 14 1/2 | 12.000 | 12.250 | B3 | 1 1/8 | 2 1/16 | 3 1/4 | 1 1/8 | 15.8 |
| 100 | C8100 | 14 1/2 | 12.500 | 12.750 | B3 | 1 1/8 | 2 1/16 | 3 1/4 | 1 1/8 | 16.5 |
| 112 | C8112 | 14 1/2 | 14.000 | 14.250 | B3 | 1 1/8 | 2 1/16 | 3 1/4 | 1 1/8 | 17.7 |
| 120 | C8120 | 14 1/2 | 15.000 | 15.250 | B3 | 1 1/8 | 2 1/16 | 3 1/4 | 1 1/8 | 18.4 |
| 128 | C8128 | 14 1/2 | 16.000 | 16.250 | B3 | 1 1/8 | 2 3/16 | 3 1/2 | 1 1/8 | 21.3 |
| 144 | C8144 | 14 1/2 | 18.000 | 18.250 | B3 | 1 1/8 | 2 3/16 | 3 1/2 | 1 1/8 | 24.2 |
| 160 | C8160 | 14 1/2 | 20.000 | 20.250 | B3 | 1 1/8 | 2 5/16 | 3 3/4 | 1 1/4 | 26.6 |
| 168 | C8168 | 14 1/2 | 21.000 | 21.250 | B3 | 1 1/8 | 2 5/16 | 3 3/4 | 1 1/4 | 28.9 |

## Bored-To-Size

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Setscrew | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Keyway | | Diameter | Projection | |
| 11 | S811BS 3/4 | 14 1/2 | 1.500 | 1.750 | B | 3/4 | 3/16 × 3/32 | (1) 10-24 @ 90 | 1 1/8 | 3/4 | 0.50 |
| 12 | S812BS 3/4 | 14 1/2 | 1.500 | 1.750 | B | 3/4 | 3/16 × 3/32 | (1) 10-24 @ 90 | 1 1/8 | 3/4 | 0.50 |
| 14 | S814BS 3/4 | 14 1/2 | 1.750 | 2.000 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 3/8 | 3/4 | 0.90 |
| 15 | S815BS 7/8 | 14 1/2 | 1.875 | 2.125 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 1/2 | 3/4 | 1.00 |
| 16 | S816BS 7/8 | 14 1/2 | 2.000 | 2.250 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 5/8 | 3/4 | 1.10 |
| 16 | S816BS 1 | 14 1/2 | 2.000 | 2.250 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 5/8 | 3/4 | 1.10 |
| 18 | S818BS 7/8 | 14 1/2 | 2.250 | 2.500 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 7/8 | 3/4 | 1.60 |
| 18 | S818BS 1 | 14 1/2 | 2.250 | 2.500 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 7/8 | 3/4 | 1.60 |
| 18 | S818BS 1-1/8 | 14 1/2 | 2.250 | 2.500 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 7/8 | 3/4 | 1.60 |
| 20 | S820BS 7/8 | 14 1/2 | 2.500 | 2.750 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 2 1/8 | 3/4 | 2.00 |
| 20 | S820BS 1 | 14 1/2 | 2.500 | 2.750 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 1/8 | 3/4 | 2.00 |
| 20 | S820BS 1-1/8 | 14 1/2 | 2.500 | 2.750 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 1/8 | 3/4 | 2.00 |
| 22 | S822BS 7/8 | 14 1/2 | 2.750 | 3.000 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 2 3/8 | 3/4 | 2.60 |
| 22 | S822BS 1 | 14 1/2 | 2.750 | 3.000 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 3/8 | 3/4 | 2.60 |
| 22 | S822BS 1-1/8 | 14 1/2 | 2.750 | 3.000 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 3/8 | 3/4 | 2.60 |

**14½° P.A. gears will not operate with 20° P.A.**

• Consult Factory.

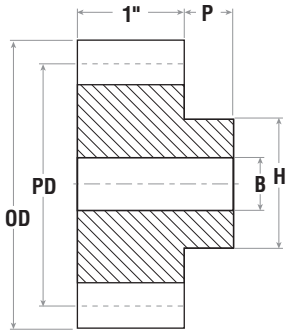
* Recommended maximum bore with keyway and setscew.

# 10 DP
## 1" Face

# Steel Stock Spur Gears
### 14½°Pressure Angle

**Type B**

Plain with hubs




**Type B**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 11 | S1011 | 14 1/2 | 1.200 † | 1.400 | B | 5/8 | ** | 15/16 | 5/8 | 0.3 |
| 12 | S1012 | 14 1/2 | 1.200 | 1.400 | B | 5/8 | ** | 15/16 | 5/8 | 0.3 |
| 13 | S1013 | 14 1/2 | 1.300 | 1.500 | B | 5/8 | ** | 1 | 5/8 | 0.3 |
| 14 | S1014 | 14 1/2 | 1.400 | 1.600 | B | 5/8 | 5/8 | 1 1/8 | 5/8 | 0.4 |
| 15 | S1015 | 14 1/2 | 1.500 | 1.700 | B | 3/4 | 3/4 | 1 7/32 | 5/8 | 0.5 |
| 16 | S1016 | 14 1/2 | 1.600 | 1.800 | B | 3/4 | 3/4 | 1 5/16 | 5/8 | 0.6 |
| 17 | S1017 | 14 1/2 | 1.700 | 1.900 | B | 3/4 | 13/16 | 1 3/8 | 5/8 | 0.6 |
| 18 | S1018 | 14 1/2 | 1.800 | 2.000 | B | 3/4 | 7/8 | 1 17/32 | 5/8 | 0.8 |
| 19 | S1019 | 14 1/2 | 1.900 | 2.100 | B | 3/4 | 7/8 | 1 9/16 | 5/8 | 0.9 |
| 20 | S1020 | 14 1/2 | 2.000 | 2.200 | B | 3/4 | 1 | 1 23/32 | 5/8 | 1.0 |
| 21 | S1021 | 14 1/2 | 2.100 | 2.300 | B | 3/4 | 1 | 1 3/4 | 5/8 | 1.2 |
| 22 | S1022 | 14 1/2 | 2.200 | 2.400 | B | 3/4 | 1 1/8 | 1 7/8 | 5/8 | 1.3 |
| 24 | S1024 | 14 1/2 | 2.400 | 2.600 | B | 3/4 | 1 1/4 | 2 1/8 | 5/8 | 1.6 |
| 25 | S1025 | 14 1/2 | 2.500 | 2.700 | B | 3/4 | 1 1/2 | 2 7/32 | 5/8 | 1.8 |
| 26 | S1026 | 14 1/2 | 2.600 | 2.800 | B | 3/4 | 1 1/4 | 2 1/8 | 5/8 | 1.9 |
| 28 | S1028 | 14 1/2 | 2.800 | 3.000 | B | 3/4 | 1 1/4 | 2 1/8 | 7/8 | 2.3 |
| 30 | S1030 | 14 1/2 | 3.000 | 3.200 | B | 3/4 | 1 1/4 | 2 1/8 | 7/8 | 2.6 |
| 32 | S1032 | 14 1/2 | 3.200 | 3.400 | B | 3/4 | 1 1/4 | 2 1/8 | 7/8 | 2.9 |
| 35 | S1035 | 14 1/2 | 3.500 | 3.700 | B | 3/4 | 1 5/16 | 2 1/4 | 7/8 | 3.4 |
| 36 | S1036 | 14 1/2 | 3.600 | 3.800 | B | 3/4 | 1 5/16 | 2 1/4 | 7/8 | 3.5 |
| 38 | S1038 | 14 1/2 | 3.800 | 4.000 | B | 3/4 | 1 5/16 | 2 1/4 | 7/8 | 3.8 |
| 40 | S1040 | 14 1/2 | 4.000 | 4.200 | B | 7/8 | 1 5/16 | 2 1/4 | 7/8 | 4.1 |
| 42 | S1042 | 14 1/2 | 4.200 | 4.400 | B | 7/8 | 1 5/16 | 2 1/4 | 7/8 | 4.5 |
| 45 | S1045 | 14 1/2 | 4.500 | 4.700 | B | 7/8 | 1 1/2 | 2 1/2 | 7/8 | 5.3 |
| 48 | S1048 | 14 1/2 | 4.800 | 5.000 | B | 7/8 | 1 1/2 | 2 1/2 | 7/8 | 5.9 |
| 50 | S1050 | 14 1/2 | 5.000 | 5.200 | B | 7/8 | 1 1/2 | 2 1/2 | 7/8 | 6.4 |
| 54 | S1054 | 14 1/2 | 5.400 | 5.600 | B | 7/8 | 1 1/2 | 2 1/2 | 7/8 | 7.8 |
| 55 | S1055 | 14 1/2 | 5.500 | 5.700 | B | 7/8 | 1 1/2 | 2 1/2 | 7/8 | 7.9 |
| 60 | S1060 | 14 1/2 | 6.000 | 6.200 | B | 7/8 | 1 1/2 | 2 1/2 | 7/8 | 8.7 |

* Recommended maximum bore with keyway and setscew.
† Enlarged pitch diameter with special tooth form.
** Check application with factory.

**14½° P.A. gears will not operate with 20° P.A.**

# Cast Iron Stock Spur Gears

**14½°Pressure Angle**

# 10 DP

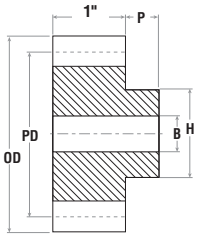
## 1" Face

**Type B**
Plain with hubs

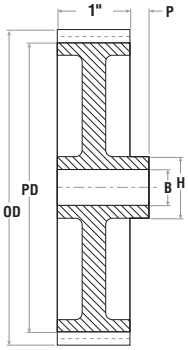
**Type $B_1$**
Web

**Type $B_2$**
Web with lighten holes

**Type $B_3$**
Spoke style




**Type B**




**Type $B_1$, $B_2$, $B_3$**

## Cast — Style B

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| • 60 | C1060 | 14 1/2 | 6.000 | 6.200 | B3 | 7/8 | 1 3/16 | 2 1/8 | 7/8 | 4.3 |
| 64 | C1064 | 14 1/2 | 6.400 | 6.600 | B3 | 7/8 | 1 7/16 | 2 1/2 | 7/8 | 5.6 |
| 65 | C1065 | 14 1/2 | 6.500 | 6.700 | B3 | 7/8 | 1 7/16 | 2 1/2 | 7/8 | 5.6 |
| 70 | C1070 | 14 1/2 | 7.000 | 7.200 | B3 | 7/8 | 1 7/16 | 2 1/2 | 7/8 | 5.9 |
| 72 | C1072 | 14 1/2 | 7.200 | 7.500 | B3 | 7/8 | 1 7/16 | 2 1/2 | 7/8 | 6.3 |
| 75 | C1075 | 14 1/2 | 7.500 | 7.700 | B3 | 7/8 | 1 7/16 | 2 1/2 | 7/8 | 6.7 |
| 80 | C1080 | 14 1/2 | 8.000 | 8.200 | B3 | 7/8 | 1 7/16 | 2 1/2 | 7/8 | 7.0 |
| 84 | C1084 | 14 1/2 | 8.400 | 8.600 | B3 | 7/8 | 1 7/16 | 2 1/2 | 7/8 | 6.9 |
| 85 | C1085 | 14 1/2 | 8.500 | 8.700 | B3 | 7/8 | 1 7/16 | 2 1/2 | 7/8 | 7.3 |
| 90 | C1090 | 14 1/2 | 9.000 | 9.200 | B3 | 7/8 | 1 7/16 | 2 1/2 | 7/8 | 7.6 |
| 95 | C1095 | 14 1/2 | 9.500 | 9.700 | B3 | 7/8 | 1 7/16 | 2 1/2 | 7/8 | 8.1 |
| 96 | C1096 | 14 1/2 | 9.600 | 9.800 | B3 | 7/8 | 1 7/16 | 2 1/2 | 7/8 | 8.1 |
| 100 | C10100 | 14 1/2 | 10.000 | 10.200 | B3 | 1 | 1 7/16 | 2 1/2 | 7/8 | 10.3 |
| 105 | C10105 | 14 1/2 | 10.500 | 10.700 | B3 | 1 | 1 7/16 | 2 1/2 | 1 | 10.4 |
| 110 | C10110 | 14 1/2 | 11.000 | 11.200 | B3 | 1 | 1 11/16 | 2 3/4 | 1 | 10.0 |
| 112 | C10112 | 14 1/2 | 11.200 | 11.400 | B3 | 1 | 1 11/16 | 2 3/4 | 1 | 10.2 |
| 120 | C10120 | 14 1/2 | 12.000 | 12.200 | B3 | 1 | 1 11/16 | 2 3/4 | 1 | 11.1 |
| 130 | C10130 | 14 1/2 | 13.000 | 13.200 | B3 | 1 | 1 11/16 | 2 3/4 | 1 | 13.4 |
| 140 | C10140 | 14 1/2 | 14.000 | 14.200 | B1 | 1 | 1 11/16 | 2 3/4 | 1 | 30.8 |
| 150 | C10150 | 14 1/2 | 15.000 | 15.200 | B1 | 1 | 1 11/16 | 2 3/4 | 1 | 33.0 |
| 160 | C10160 | 14 1/2 | 16.000 | 16.200 | B1 | 1 | 1 11/16 | 2 3/4 | 1 | 38.3 |
| 180 | C10180 | 14 1/2 | 18.000 | 18.200 | B3 | 1 | 1 13/16 | 3 | 1 | 43.6 |

## Bored-To-Size

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Setscrew | Hub (Inches) | | Weight Lb. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Keyway | | Diameter | Projection | (Approx.) |
| 11 | S1011BS 5/8 | 14 1/2 | 1.200 | 1.400 | B | 5/8 | 3/16 × 3/32 | (1) 10-24 @ 90 | 15/16 | 5/8 | 0.30 |
| 12 | S1012BS 5/8 | 14 1/2 | 1.200 | 1.400 | B | 5/8 | 3/16 × 3/32 | (1) 10-24 @ 90 | 15/16 | 5/8 | 0.30 |
| 14 | S1014BS 5/8 | 14 1/2 | 1.400 | 1.600 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 1/8 | 5/8 | 0.40 |
| 15 | S1015BS 3/4 | 14 1/2 | 1.500 | 1.700 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 7/32 | 5/8 | 0.50 |
| 16 | S1016BS 3/4 | 14 1/2 | 1.600 | 1.800 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 5/16 | 5/8 | 0.60 |
| 18 | S1018BS 3/4 | 14 1/2 | 1.800 | 2.000 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 17/32 | 5/8 | 0.80 |
| 18 | S1018BS 7/8 | 14 1/2 | 1.800 | 2.000 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 17/32 | 5/8 | 0.80 |
| 20 | S1020BS 3/4 | 14 1/2 | 2.000 | 2.200 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 23/32 | 5/8 | 1.00 |
| 20 | S1020BS 7/8 | 14 1/2 | 2.000 | 2.200 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 23/32 | 5/8 | 1.00 |
| 20 | S1020BS 1 | 14 1/2 | 2.000 | 2.200 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 23/32 | 5/8 | 1.00 |
| 24 | S1024BS 3/4 | 14 1/2 | 2.400 | 2.600 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 2 1/8 | 5/8 | 1.60 |
| 24 | S1024BS 7/8 | 14 1/2 | 2.400 | 2.600 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 2 1/8 | 5/8 | 1.60 |
| 24 | S1024BS 1 | 14 1/2 | 2.400 | 2.600 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 3/8 | 5/8 | 1.60 |

**14½° P.A. gears will not operate with 20° P.A.**

• Consult Factory.

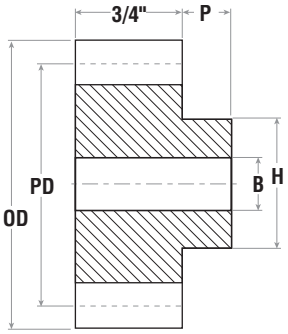
* Recommended maximum bore with keyway and setscew.

# 12 DP
## ¾" Face

# Steel Stock Spur Gears
## 14½°Pressure Angle

**Type B**

Plain with hubs




**Type B**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 11 | S1211 | 14 1/2 | 1.000 † | 1.167 | B | 1/2 | ** | 3/4 | 1/2 | 0.14 |
| 12 | S1212 | 14 1/2 | 1.000 | 1.167 | B | 1/2 | ** | 3/4 | 1/2 | 0.16 |
| 13 | S1213 | 14 1/2 | 1.083 | 1.250 | B | 1/2 | ** | 13/16 | 1/2 | 0.20 |
| 14 | S1214 | 14 1/2 | 1.167 | 1.333 | B | 1/2 | ** | 29/32 | 1/2 | 0.24 |
| 15 | S1215 | 14 1/2 | 1.250 | 1.417 | B | 5/8 | ** | 1 | 1/2 | 0.27 |
| 16 | S1216 | 14 1/2 | 1.333 | 1.500 | B | 5/8 | 5/8 | 1 1/16 | 1/2 | 0.34 |
| 17 | S1217 | 14 1/2 | 1.417 | 1.580 | B | 5/8 | 5/8 | 1 1/8 | 1/2 | 0.36 |
| 18 | S1218 | 14 1/2 | 1.500 | 1.667 | B | 5/8 | 11/16 | 1 1/4 | 1/2 | 0.42 |
| 19 | S1219 | 14 1/2 | 1.583 | 1.750 | B | 5/8 | 3/4 | 1 5/16 | 1/2 | 0.48 |
| 20 | S1220 | 14 1/2 | 1.667 | 1.833 | B | 5/8 | 13/16 | 1 13/32 | 1/2 | 0.56 |
| 21 | S1221 | 14 1/2 | 1.750 | 1.917 | B | 5/8 | 7/8 | 1 1/2 | 1/2 | 0.64 |
| 22 | S1222 | 14 1/2 | 1.833 | 2.000 | B | 5/8 | 7/8 | 1 9/16 | 1/2 | 0.70 |
| 23 | S1223 | 14 1/2 | 1.917 | 2.083 | B | 5/8 | 15/16 | 1 5/8 | 1/2 | 0.78 |
| 24 | S1224 | 14 1/2 | 2.000 | 2.166 | B | 5/8 | 1 | 1 3/4 | 1/2 | 0.88 |
| 25 | S1225 | 14 1/2 | 2.083 | 2.250 | B | 5/8 | 1 1/16 | 1 27/32 | 1/2 | 0.96 |
| 26 | S1226 | 14 1/2 | 2.167 | 2.333 | B | 5/8 | 1 3/16 | 1 15/16 | 5/8 | 1.14 |
| 28 | S1228 | 14 1/2 | 2.333 | 2.500 | B | 5/8 | 1 1/2 | 2 1/16 | 5/8 | 1.34 |
| 30 | S1230 | 14 1/2 | 2.500 | 2.667 | B | 5/8 | 1 5/16 | 2 1/4 | 5/8 | 1.60 |
| 32 | S1232 | 14 1/2 | 2.667 | 2.833 | B | 5/8 | 1 5/16 | 2 1/4 | 5/8 | 1.72 |
| 34 | S1234 | 14 1/2 | 2.833 | 3.000 | B | 5/8 | 1 5/16 | 2 1/4 | 5/8 | 1.88 |
| 36 | S1236 | 14 1/2 | 3.000 | 3.167 | B | 5/8 | 1 1/2 | 2 1/2 | 5/8 | 2.20 |
| 38 | S1238 | 14 1/2 | 3.167 | 3.333 | B | 5/8 | 1 1/2 | 2 1/2 | 5/8 | 2.38 |
| 40 | S1240 | 14 1/2 | 3.333 | 3.500 | B | 5/8 | 1 1/2 | 2 1/2 | 5/8 | 2.54 |
| 42 | S1242 | 14 1/2 | 3.500 | 3.666 | B | 5/8 | 1 1/2 | 2 1/2 | 5/8 | 2.72 |
| 44 | S1244 | 14 1/2 | 3.667 | 3.833 | B | 5/8 | 1 1/2 | 2 1/2 | 5/8 | 2.94 |
| 48 | S1248 | 14 1/2 | 4.000 | 4.166 | B | 5/8 | 1 1/2 | 2 1/2 | 3/4 | 3.50 |
| 54 | S1254 | 14 1/2 | 4.500 | 4.666 | B | 3/4 | 1 3/4 | 2 3/4 | 3/4 | 4.40 |
| 56 | S1256 | 14 1/2 | 4.667 | 4.833 | B | 3/4 | 1 3/4 | 2 3/4 | 3/4 | 4.60 |
| 60 | S1260 | 14 1/2 | 5.000 | 5.166 | B | 3/4 | 1 3/4 | 2 3/4 | 3/4 | 5.14 |
| 64 | S1264 | 14 1/2 | 5.333 | 5.500 | B | 3/4 | 1 3/4 | 2 3/4 | 3/4 | 5.74 |
| 66 | S1266 | 14 1/2 | 5.500 | 5.666 | B | 3/4 | 1 3/4 | 2 3/4 | 3/4 | 6.02 |
| 72 | S1272 | 14 1/2 | 6.000 | 6.166 | B | 3/4 | 1 3/4 | 2 3/4 | 3/4 | 7.02 |

* Recommended maximum bore with keyway and setscew.
† Enlarged pitch diameter with special tooth form.
** Check application with factory.

**14½° P.A. gears will not operate with 20° P.A.**

# Cast Iron Stock Spur Gears

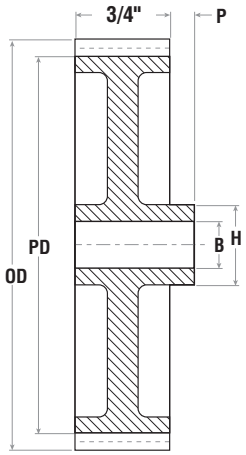
**14½°Pressure Angle**

# 12 DP

## ¾" Face

**Type $B_1$**
Web

**Type $B_3$**
Spoke style




**Type $B_1$, $B_3$**

## Cast — Style B

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 78 | C1278 | 14 1/2 | 6.500 | 6.666 | B3 | 3/4 | 1 7/16 | 2 1/2 | 3/4 | 4.1 |
| 84 | C1284 | 14 1/2 | 7.000 | 7.166 | B3 | 3/4 | 1 7/16 | 2 1/2 | 3/4 | 4.4 |
| 90 | C1290 | 14 1/2 | 7.500 | 7.666 | B3 | 3/4 | 1 11/16 | 2 3/4 | 3/4 | 5.2 |
| 96 | C1296 | 14 1/2 | 8.000 | 8.166 | B3 | 3/4 | 1 11/16 | 2 3/4 | 3/4 | 5.5 |
| 102 | C12102 | 14 1/2 | 8.500 | 8.666 | B3 | 3/4 | 1 11/16 | 2 3/4 | 3/4 | 5.9 |
| 108 | C12108 | 14 1/2 | 9.000 | 9.166 | B3 | 3/4 | 1 11/16 | 2 3/4 | 3/4 | 6.4 |
| 112 | C12112 | 14 1/2 | 9.333 | 9.500 | B3 | 3/4 | 1 11/16 | 2 3/4 | 3/4 | 6.4 |
| 114 | C12114 | 14 1/2 | 9.500 | 9.666 | B3 | 3/4 | 1 11/16 | 2 3/4 | 3/4 | 6.4 |
| 120 | C12120 | 14 1/2 | 10.000 | 10.166 | B3 | 7/8 | 1 11/16 | 2 3/4 | 3/4 | 8.1 |
| 126 | C12126 | 14 1/2 | 10.500 | 10.666 | B3 | 7/8 | 1 13/16 | 3 | 3/4 | 7.4 |
| 144 | C12144 | 14 1/2 | 12.000 | 12.166 | B3 | 7/8 | 1 13/16 | 3 | 1 | 10.1 |
| 168 | C12168 | 14 1/2 | 14.000 | 14.166 | B1 | 7/8 | 1 13/16 | 3 | 1 | 10.6 |

## Bored-To-Size

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Setscrew | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Keyway | | Diameter | Projection | |
| 11 | S1211BS 1/2 | 14 1/2 | 1.000 | 1.167 | B | 1/2 | NONE | (1) 10-24 | 3/4 | 1/2 | 0.14 |
| 12 | S1212BS 1/2 | 14 1/2 | 1.000 | 1.167 | B | 1/2 | NONE | (1) 10-24 | 3/4 | 1/2 | 0.16 |
| 13 | S1213BS 1/2 | 14 1/2 | 1.083 | 1.250 | B | 1/2 | NONE | (1) 10-24 | 13/16 | 1/2 | 0.20 |
| 14 | S1214BS 1/2 | 14 1/2 | 1.167 | 1.333 | B | 1/2 | NONE | (1) 10-24 | 29/32 | 5/8 | 0.24 |
| 15 | S1215BS 5/8 | 14 1/2 | 1.250 | 1.417 | B | 5/8 | 3/16 × 3/32 | (1) 10-24 @ 90 | 1 | 1/2 | 0.27 |
| 16 | S1216BS 5/8 | 14 1/2 | 1.333 | 1.500 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 1/16 | 1/2 | 0.34 |
| 18 | S1218BS 5/8 | 14 1/2 | 1.500 | 1.667 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 1/4 | 1/2 | 0.42 |
| 20 | S1220BS 5/8 | 14 1/2 | 1.667 | 1.833 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 13/32 | 1/2 | 0.56 |
| 20 | S1220BS 3/4 | 14 1/2 | 1.667 | 1.833 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 13/32 | 1/2 | 0.56 |
| 21 | S1221BS 5/8 | 14 1/2 | 1.750 | 1.917 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 13/32 | 1/2 | 0.56 |
| 21 | S1221BS 3/4 | 14 1/2 | 1.750 | 1.917 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 13/32 | 1/2 | 0.56 |
| 21 | S1221BS 7/8 | 14 1/2 | 1.750 | 1.917 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 13/32 | 1/2 | 0.56 |
| 22 | S1222BS 5/8 | 14 1/2 | 1.833 | 2.000 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 9/16 | 1/2 | 0.70 |
| 22 | S1222BS 3/4 | 14 1/2 | 1.833 | 2.000 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 9/16 | 1/2 | 0.70 |
| 22 | S1222BS 7/8 | 14 1/2 | 1.833 | 2.000 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 9/16 | 1/2 | 0.70 |
| 22 | S1222BS 1 | 14 1/2 | 1.833 | 2.000 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 9/16 | 1/2 | 0.70 |
| 24 | S1224BS 5/8 | 14 1/2 | 2.000 | 2.167 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 3/4 | 1/2 | 0.88 |
| 24 | S1224BS 3/4 | 14 1/2 | 2.000 | 2.167 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 3/4 | 1/2 | 0.88 |
| 24 | S1224BS 7/8 | 14 1/2 | 2.000 | 2.167 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 3/4 | 1/2 | 0.88 |
| 24 | S1224BS 1 | 14 1/2 | 2.000 | 2.167 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 3/4 | 1/2 | 0.88 |

**14½° P.A. gears will not operate with 20° P.A.**

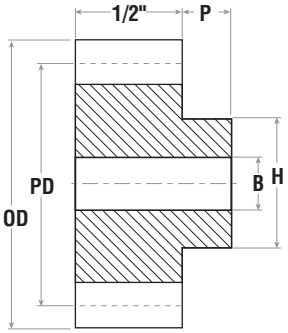
* Recommended maximum bore with keyway and setscew.

# 16 DP
## ½" Face

# Steel Stock Spur Gears
### 14½°Pressure Angle

**Type B**

Plain with hubs




**Type B**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 11 | S1611 | 14 1/2 | 0.750† | 0.875 | B | 3/8 | ** | 9/16 | 7/16 | 0.06 |
| 12 | S1612 | 14 1/2 | 0.750 | 0.875 | B | 3/8 | ** | 9/16 | 7/16 | 0.06 |
| 13 | S1613 | 14 1/2 | 0.812 | 0.937 | B | 3/8 | ** | 5/8 | 7/16 | 0.08 |
| 14 | S1614 | 14 1/2 | 0.875 | 1.000 | B | 3/8 | ** | 11/16 | 7/16 | 0.08 |
| 15 | S1615 | 14 1/2 | 0.937 | 1.062 | B | 1/2 | ** | 3/4 | 7/16 | 0.10 |
| 16 | S1616 | 14 1/2 | 1.000 | 1.125 | B | 1/2 | ** | 13/16 | 7/16 | 0.12 |
| 17 | S1617 | 14 1/2 | 1.062 | 1.187 | B | 1/2 | ** | 7/8 | 7/16 | 0.14 |
| 18 | S1618 | 14 1/2 | 1.125 | 1.250 | B | 1/2 | ** | 15/16 | 7/16 | 0.16 |
| 19 | S1619 | 14 1/2 | 1.187 | 1.312 | B | 1/2 | 1/2 | 1 | 7/16 | 0.20 |
| 20 | S1620 | 14 1/2 | 1.250 | 1.375 | B | 1/2 | 9/16 | 1 1/16 | 7/16 | 0.22 |
| 21 | S1621 | 14 1/2 | 1.312 | 1.438 | B | 1/2 | 5/8 | 1 1/8 | 7/16 | 0.24 |
| 22 | S1622 | 14 1/2 | 1.375 | 1.500 | B | 1/2 | 5/8 | 1 3/16 | 7/16 | 0.28 |
| 23 | S1623 | 14 1/2 | 1.437 | 1.562 | B | 1/2 | 11/16 | 1 1/4 | 7/16 | 0.32 |
| 24 | S1624 | 14 1/2 | 1.500 | 1.625 | B | 1/2 | 3/4 | 1 5/16 | 7/16 | 0.34 |
| 26 | S1626 | 14 1/2 | 1.625 | 1.750 | B | 1/2 | 7/8 | 1 7/16 | 7/16 | 0.42 |
| 28 | S1628 | 14 1/2 | 1.750 | 1.875 | B | 1/2 | 7/8 | 1 1/2 | 1/2 | 0.52 |
| 30 | S1630 | 14 1/2 | 1.875 | 2.000 | B | 1/2 | 15/16 | 1 5/8 | 1/2 | 0.60 |
| 32 | S1632 | 14 1/2 | 2.000 | 2.125 | B | 1/2 | 1 | 1 3/4 | 1/2 | 0.70 |
| 34 | S1634 | 14 1/2 | 2.125 | 2.250 | B | 1/2 | 1 1/8 | 1 7/8 | 1/2 | 0.80 |
| 36 | S1636 | 14 1/2 | 2.250 | 2.375 | B | 1/2 | 1 1/4 | 2 | 1/2 | 0.92 |
| 38 | S1638 | 14 1/2 | 2.375 | 2.500 | B | 1/2 | 1 1/4 | 2 | 1/2 | 0.98 |
| 40 | S1640 | 14 1/2 | 2.500 | 2.626 | B | 1/2 | 1 1/4 | 2 | 1/2 | 1.10 |
| 44 | S1644 | 14 1/2 | 2.750 | 2.875 | B | 1/2 | 1 1/4 | 2 | 1/2 | 1.20 |
| 48 | S1648 | 14 1/2 | 3.000 | 3.125 | B | 1/2 | 1 1/4 | 2 | 1/2 | 1.40 |
| 52 | S1652 | 14 1/2 | 3.250 | 3.375 | B | 1/2 | 1 1/4 | 2 | 1/2 | 1.50 |
| 54 | S1654 | 14 1/2 | 3.375 | 3.500 | B | 1/2 | 1 1/4 | 2 | 1/2 | 1.60 |
| 56 | S1656 | 14 1/2 | 3.500 | 3.625 | B | 1/2 | 1 1/4 | 2 | 1/2 | 1.70 |
| 60 | S1660 | 14 1/2 | 3.750 | 3.875 | B | 1/2 | 1 1/4 | 2 | 1/2 | 1.30 |
| 64 | S1664 | 14 1/2 | 4.000 | 4.125 | B | 5/8 | 1 1/4 | 2 | 5/8 | 2.20 |
| 68 | S1668 | 14 1/2 | 4.250 | 4.375 | B | 5/8 | 1 5/16 | 2 1/4 | 5/8 | 2.50 |
| 72 | S1672 | 14 1/2 | 4.500 | 4.625 | B | 5/8 | 1 5/16 | 2 1/4 | 5/8 | 2.80 |
| 80 | S1680 | 14 1/2 | 5.000 | 5.125 | B | 5/8 | 1 5/16 | 2 1/4 | 5/8 | 3.40 |
| 84 | S1684 | 14 1/2 | 5.250 | 5.375 | B | 5/8 | 1 5/16 | 2 1/4 | 5/8 | 3.60 |
| 88 | S1688 | 14 1/2 | 5.500 | 5.625 | B | 5/8 | 1 5/16 | 2 1/4 | 5/8 | 3.90 |
| 96 | S1696 | 14 1/2 | 6.000 | 6.125 | B | 5/8 | 1 5/16 | 2 1/4 | 5/8 | 4.60 |
| 104 | S16104 | 14 1/2 | 6.500 | 6.625 | B | 5/8 | 1 5/16 | 2 1/4 | 5/8 | 5.20 |

* Recommended maximum bore with keyway and setscew.
† Enlarged pitch diameter with special tooth form.
** Check application with factory.

**14½° P.A. gears will not operate with 20° P.A.**

# Cast Iron Stock Spur Gears

**14½°Pressure Angle**

# 16 DP

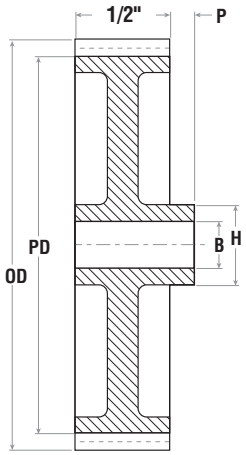
## ½" Face

**Type $B_1$**

Web

**Type $B_3$**

Spoke style




**Type $B_1$, $B_3$**

## Cast — Style B

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 112 | C16112 | 14 1/2 | 7.000 | 7.125 | B3 | 5/8 | 1 7/16 | 2 1/2 | 5/8 | 3.4 |
| 120 | C16120 | 14 1/2 | 7.500 | 7.625 | B3 | 5/8 | 1 7/16 | 2 1/2 | 5/8 | 3.5 |
| 128 | C16128 | 14 1/2 | 8.000 | 8.125 | B3 | 5/8 | 1 7/16 | 2 1/2 | 5/8 | 3.7 |
| 144 | C16144 | 14 1/2 | 9.000 | 9.125 | B3 | 5/8 | 1 11/16 | 2 3/4 | 3/4 | 5.0 |
| 160 | C16160 | 14 1/2 | 10.000 | 10.125 | B3 | 5/8 | 1 11/16 | 2 3/4 | 3/4 | 5.2 |
| 192 | C16192 | 14 1/2 | 12.000 | 12.125 | B1 | 5/8 | 1 11/16 | 2 3/4 | 3/4 | 8.1 |

## Bored-To-Size

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Setscrew | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Keyway | | Diameter | Projection | |
| 11 | S1611BS 3/8 | 14 1/2 | 0.750 | 0.875 | B | 3/8 | None | (1) 8-32 | 9/16 | 7/16 | 0.06 |
| 12 | S1612BS 3/8 | 14 1/2 | 0.752 | 0.875 | B | 3/8 | None | (1) 8-32 | 9/16 | 7/16 | 0.06 |
| 13 | S1613BS 3/8 | 14 1/2 | 0.812 | 0.937 | B | 3/8 | None | (1) 8-32 | 5/8 | 7/16 | 0.08 |
| 14 | S1614BS 3/8 | 14 1/2 | 0.875 | 1.000 | B | 3/8 | None | (1) 10-24 | 11/16 | 7/16 | 0.08 |
| 15 | S1615BS 1/2 | 14 1/2 | 0.937 | 1.062 | B | 1/2 | None | (1) 10-24 | 3/4 | 7/16 | 0.10 |
| 16 | S1616BS 1/2 | 14 1/2 | 1.000 | 1.125 | B | 1/2 | None | (1) 10-24 | 13/16 | 7/16 | 0.12 |
| 18 | S1618BS 1/2 | 14 1/2 | 1.125 | 1.250 | B | 1/2 | None | (1) 1/4-20 | 15/16 | 7/16 | 0.16 |
| 20 | S1620BS 1/2 | 14 1/2 | 1.250 | 1.375 | B | 1/2 | None | (1) 1/4-20 | 1 1/16 | 7/16 | 0.22 |
| 20 | S1620BS 5/8 | 14 1/2 | 1.250 | 1.375 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 1/16 | 7/16 | 0.22 |
| 22 | S1622BS 1/2 | 14 1/2 | 1.375 | 1.500 | B | 1/2 | None | (1) 1/4-20 | 1 3/16 | 7/16 | 0.28 |
| 22 | S1622BS 5/8 | 14 1/2 | 1.375 | 1.500 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 3/16 | 7/16 | 0.28 |
| 24 | S1624BS 1/2 | 14 1/2 | 1.500 | 1.625 | B | 1/2 | None | (1) 1/4-20 | 1 5/16 | 7/16 | 0.34 |
| 24 | S1624BS 5/8 | 14 1/2 | 1.500 | 1.625 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 5/16 | 7/16 | 0.34 |
| 24 | S1624BS 3/4 | 14 1/2 | 1.500 | 1.625 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 5/16 | 7/16 | 0.34 |
| 26 | S1626BS 1/2 | 14 1/2 | 1.625 | 1.750 | B | 1/2 | None | (1) 1/4-20 | 1 7/16 | 7/16 | 0.42 |
| 26 | S1626BS 5/8 | 14 1/2 | 1.625 | 1.750 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 7/16 | 7/16 | 0.42 |
| 26 | S1626BS 3/4 | 14 1/2 | 1.625 | 1.750 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 7/16 | 7/16 | 0.42 |
| 28 | S1628BS 1/2 | 14 1/2 | 1.750 | 1.875 | B | 1/2 | None | (1) 1/4-20 | 1 1/2 | 1/2 | 0.52 |
| 28 | S1628BS 5/8 | 14 1/2 | 1.750 | 1.875 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 1/2 | 1/2 | 0.52 |
| 28 | S1628BS 3/4 | 14 1/2 | 1.750 | 1.875 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 1/2 | 1/2 | 0.52 |
| 28 | S1628BS 7/8 | 14 1/2 | 1.750 | 1.875 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 1/2 | 1/2 | 0.52 |
| 30 | S1630BS 1/2 | 14 1/2 | 1.875 | 2.000 | B | 1/2 | None | (1) 1/4-20 | 1 5/8 | 1/2 | 0.60 |
| 30 | S1630BS 5/8 | 14 1/2 | 1.875 | 2.000 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 5/8 | 1/2 | 0.60 |
| 30 | S1630BS 3/4 | 14 1/2 | 1.875 | 2.000 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 5/8 | 1/2 | 0.60 |
| 30 | S1630BS 7/8 | 14 1/2 | 1.875 | 2.000 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 5/8 | 1/2 | 0.60 |
| 30 | S1630BS 1 | 14 1/2 | 1.875 | 2.000 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 5/8 | 1/2 | 0.60 |
| 32 | S1632BS 1/2 | 14 1/2 | 2.000 | 2.125 | B | 1/2 | None | (1) 1/4-20 | 1 3/4 | 1/2 | 0.70 |
| 32 | S1632BS 5/8 | 14 1/2 | 2.000 | 2.125 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 3/4 | 1/2 | 0.70 |
| 32 | S1632BS 3/4 | 14 1/2 | 2.000 | 2.125 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 3/4 | 1/2 | 0.70 |
| 32 | S1632BS 7/8 | 14 1/2 | 2.000 | 2.125 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 3/4 | 1/2 | 0.70 |
| 32 | S1632BS 1 | 14 1/2 | 2.000 | 2.125 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 3/4 | 1/2 | 0.70 |

**14½° P.A. gears will not operate with 20° P.A.**

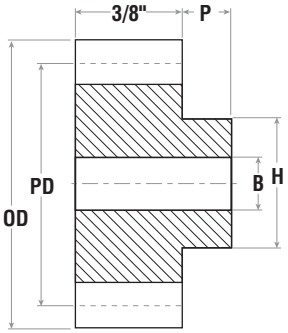
* Recommended maximum bore with keyway and setscew.

# 20 DP
## 3/8" Face

# Steel Stock Spur Gears
## 14½°Pressure Angle

**Type B**

Plain with hubs




**Type B**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 11 | S2011 | 14 1/2 | 0.600 † | 0.700 | B | 5/16 | ** | 15/32 | 3/8 | 0.02 |
| 12 | S2012 | 14 1/2 | 0.600 | 0.700 | B | 5/16 | ** | 15/32 | 3/8 | 0.02 |
| 13 | S2013 | 14 1/2 | 0.650 | 0.750 | B | 5/16 | ** | 1/2 | 3/8 | 0.04 |
| 14 | S2014 | 14 1/2 | 0.700 | 0.800 | B | 5/16 | ** | 35/64 | 3/8 | 0.04 |
| 15 | S2015 | 14 1/2 | 0.750 | 0.850 | B | 3/8 | ** | 39/64 | 3/8 | 0.04 |
| 16 | S2016 | 14 1/2 | 0.800 | 0.900 | B | 3/8 | ** | 21/32 | 3/8 | 0.04 |
| 17 | S2017 | 14 1/2 | 0.850 | 0.950 | B | 3/8 | ** | 45/64 | 3/8 | 0.08 |
| 18 | S2018 | 14 1/2 | 0.900 | 1.000 | B | 3/8 | ** | 3/4 | 3/8 | 0.08 |
| 19 | S2019 | 14 1/2 | 0.950 | 1.050 | B | 3/8 | ** | 51/64 | 3/8 | 0.10 |
| 20 | S2020 | 14 1/2 | 1.000 | 1.100 | B | 3/8 | ** | 55/64 | 3/8 | 0.12 |
| 21 | S2021 | 14 1/2 | 1.050 | 1.150 | B | 3/8 | ** | 7/8 | 3/8 | 0.12 |
| 22 | S2022 | 14 1/2 | 1.100 | 1.200 | B | 3/8 | ** | 31/32 | 3/8 | 0.14 |
| 23 | S2023 | 14 1/2 | 1.150 | 1.250 | B | 3/8 | ** | 31/32 | 3/8 | 0.16 |
| 24 | S2024 | 14 1/2 | 1.200 | 1.300 | B | 3/8 | 9/16 | 1 1/16 | 3/8 | 0.19 |
| 25 | S2025 | 14 1/2 | 1.250 | 1.350 | B | 3/8 | 5/8 | 1 7/64 | 3/8 | 0.20 |
| 28 | S2028 | 14 1/2 | 1.400 | 1.500 | B | 3/8 | 11/16 | 1 17/64 | 3/8 | 0.26 |
| 30 | S2030 | 14 1/2 | 1.500 | 1.600 | B | 3/8 | 13/16 | 1 23/64 | 3/8 | 0.30 |
| 32 | S2032 | 14 1/2 | 1.600 | 1.700 | B | 3/8 | 7/8 | 1 7/16 | 1/2 | 0.40 |
| 35 | S2035 | 14 1/2 | 1.750 | 1.850 | B | 3/8 | 7/8 | 1 9/16 | 1/2 | 0.50 |
| 36 | S2036 | 14 1/2 | 1.800 | 1.900 | B | 3/8 | 15/16 | 1 5/8 | 1/2 | 0.52 |
| 40 | S2040 | 14 1/2 | 2.000 | 2.100 | B | 3/8 | 1 1/16 | 1 13/16 | 1/2 | 0.64 |
| 45 | S2045 | 14 1/2 | 2.250 | 2.350 | B | 3/8 | 1 1/4 | 2 | 1/2 | 0.82 |
| 48 | S2048 | 14 1/2 | 2.400 | 2.500 | B | 3/8 | 1 1/4 | 2 | 1/2 | 0.88 |
| 50 | S2050 | 14 1/2 | 2.500 | 2.600 | B | 3/8 | 1 1/4 | 2 | 1/2 | 0.90 |
| 55 | S2055 | 14 1/2 | 2.750 | 2.850 | B | 3/8 | 1 1/4 | 2 | 1/2 | 1.04 |
| 60 | S2060 | 14 1/2 | 3.000 | 3.100 | B | 3/8 | 1 1/4 | 2 | 1/2 | 1.16 |
| 64 | S2064 | 14 1/2 | 3.200 | 3.300 | B | 3/8 | 1 1/4 | 2 | 1/2 | 1.26 |
| 70 | S2070 | 14 1/2 | 3.500 | 3.600 | B | 3/8 | 1 1/4 | 2 | 1/2 | 1.40 |
| 72 | S2072 | 14 1/2 | 3.600 | 3.700 | B | 3/8 | 1 5/16 | 2 1/4 | 1/2 | 1.60 |
| 75 | S2075 | 14 1/2 | 3.750 | 3.850 | B | 3/8 | 1 5/16 | 2 1/4 | 1/2 | 1.70 |
| 80 | S2080 | 14 1/2 | 4.000 | 4.100 | B | 1/2 | 1 5/16 | 2 1/4 | 1/2 | 1.82 |
| 84 | S2084 | 14 1/2 | 4.200 | 4.300 | B | 1/2 | 1 5/16 | 2 1/4 | 1/2 | 1.96 |
| 90 | S2090 | 14 1/2 | 4.500 | 4.600 | B | 1/2 | 1 5/16 | 2 1/4 | 1/2 | 2.20 |
| 96 | S2096 | 14 1/2 | 4.800 | 4.900 | B | 1/2 | 1 5/16 | 2 1/4 | 1/2 | 2.42 |
| 100 | S20100 | 14 1/2 | 5.000 | 5.100 | B | 1/2 | 1 5/16 | 2 1/4 | 1/2 | 2.60 |
| 112 | S20112 | 14 1/2 | 5.600 | 5.700 | B | 1/2 | 1 | 1 3/4 | 1/2 | 2.86 |
| 120 | S20120 | 14 1/2 | 6.000 | 6.100 | B1 | 1/2 | 1 | 1 3/4 | 1/2 | 3.24 |
| 132 | S20132 | 14 1/2 | 6.600 | 6.700 | B | 1/2 | 1 | 1 3/4 | 1/2 | 3.80 |

* Recommended maximum bore with keyway and setscew.
† Enlarged pitch diameter with special tooth form.
** Check application with factory.

**14½° P.A. gears will not operate with 20° P.A.**

# Cast Iron Stock Spur Gears

**14½°Pressure Angle**

# 20 DP

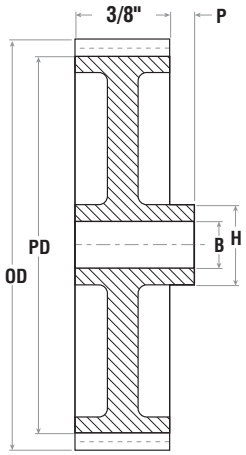
## 3/8" Face

**Type $B_1$**

Web

**Type $B_3$**

Spoke style




**Type $B_1$, $B_3$**

## Cast — Style B

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| • 48 | C2048 | 14 1/2 | 2.400 | 2.500 | B1 | 3/8 | 9/16 | 1 1/8 | 1/2 | 0.50 |
| • 64 | C2064 | 14 1/2 | 3.200 | 3.300 | B1 | 3/8 | 9/16 | 1 1/8 | 1/2 | 0.68 |
| 140 | C20140 | 14 1/2 | 7.000 | 7.100 | B1 | 1/2 | 1 | 1 3/4 | 1/2 | 2.00 |
| 160 | C20160 | 14 1/2 | 8.000 | 8.100 | B1 | 1/2 | 1 | 1 3/4 | 5/8 | 2.34 |
| 180 | C20180 | 14 1/2 | 9.000 | 9.100 | B1 | 1/2 | 1 | 1 3/4 | 5/8 | 2.66 |
| 200 | C20200 | 14 1/2 | 10.000 | 10.100 | B1 | 1/2 | 1 | 1 3/4 | 5/8 | 2.84 |

## Bored-To-Size

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Setscrew | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Keyway | | Diameter | Projection | |
| 11 | S2011BS 5/16 | 14 1/2 | 0.600 | 0.700 | B | 5/16 | None | #35 P.H. | 15/32 | 3/8 | 0.02 |
| 12 | S2012BS 5/16 | 14 1/2 | 0.600 | 0.700 | B | 5/16 | None | #35 P.H. | 15/32 | 3/8 | 0.02 |
| 13 | S2013BS 5/16 | 14 1/2 | 0.650 | 0.750 | B | 5/16 | None | #35 P.H. | 1/2 | 3/8 | 0.04 |
| 14 | S2014BS 5/16 | 14 1/2 | 0.700 | 0.800 | B | 5/16 | None | #35 P.H. | 35/64 | 3/8 | 0.04 |
| 15 | S2015BS 3/8 | 14 1/2 | 0.750 | 0.850 | B | 3/8 | None | (1) 8-32 | 39/64 | 3/8 | 0.04 |
| 16 | S2016BS 3/8 | 14 1/2 | 1.800 | 0.900 | B | 3/8 | None | (1) 8-32 | 21/32 | 3/8 | 0.04 |
| 18 | S2018BS 3/8 | 14 1/2 | 1.900 | 1.000 | B | 3/8 | None | (1) 10-24 | 3/4 | 3/8 | 0.08 |
| 20 | S2020BS 3/8 | 14 1/2 | 1.000 | 1.100 | B | 3/8 | None | (1) 10-24 | 55/64 | 3/8 | 0.12 |
| 20 | S2020BS 1/2 | 14 1/2 | 1.000 | 1.100 | B | 1/2 | None | (1) 10-24 | 55/64 | 3/8 | 0.12 |
| 22 | S2022BS 3/8 | 14 1/2 | 1.100 | 1.200 | B | 3/8 | None | (1) 1/4-20 | 31/32 | 3/8 | 0.14 |
| 22 | S2022BS 1/2 | 14 1/2 | 1.100 | 1.200 | B | 1/2 | None | (1) 1/4-20 | 31/32 | 3/8 | 0.14 |
| 24 | S2024BS 3/8 | 14 1/2 | 1.200 | 1.300 | B | 3/8 | None | (1) 1/4-20 | 1 1/16 | 3/8 | 0.19 |
| 24 | S2024BS 1/2 | 14 1/2 | 1.200 | 1.300 | B | 1/2 | None | (1) 1/4-20 | 1 1/16 | 3/8 | 0.19 |
| 25 | S2025BS 3/8 | 14 1/2 | 1.250 | 1.350 | B | 3/8 | None | (1) 1/4-20 | 1 7/64 | 3/8 | 0.20 |
| 25 | S2025BS 1/2 | 14 1/2 | 1.250 | 1.350 | B | 1/2 | None | (1) 1/4-20 | 1 7/64 | 3/8 | 0.20 |
| 28 | S2028BS 3/8 | 14 1/2 | 1.400 | 1.500 | B | 3/8 | None | (1) 1/4-20 | 1 17/64 | 3/8 | 0.26 |
| 28 | S2028BS 1/2 | 14 1/2 | 1.400 | 1.500 | B | 1/2 | None | (1) 1/4-20 | 1 17/64 | 3/8 | 0.26 |
| 30 | S2030BS 3/8 | 14 1/2 | 1.500 | 1.600 | B | 3/8 | None | (1) 1/4-20 | 1 23/64 | 3/8 | 0.30 |
| 30 | S2030BS 1/2 | 14 1/2 | 1.500 | 1.600 | B | 1/2 | None | (1) 1/4-20 | 1 23/64 | 3/8 | 0.30 |
| 32 | S2032BS 3/8 | 14 1/2 | 1.600 | 1.700 | B | 3/8 | None | (1) 1/4-20 | 1 7/16 | 1/2 | 0.40 |
| 32 | S2032BS 1/2 | 14 1/2 | 1.600 | 1.700 | B | 1/2 | None | (1) 1/4-20 | 1 7/16 | 1/2 | 0.40 |
| 35 | S2035BS 3/8 | 14 1/2 | 1.750 | 1.850 | B | 3/8 | None | (1) 1/4-20 | 1 9/16 | 1/2 | 0.50 |
| 35 | S2035BS 1/2 | 14 1/2 | 1.750 | 1.850 | B | 1/2 | None | (1) 1/4-20 | 1 9/16 | 1/2 | 0.50 |
| 36 | S2036BS 3/8 | 14 1/2 | 1.800 | 1.900 | B | 3/8 | None | (1) 1/4-20 | 1 5/8 | 1/2 | 0.52 |
| 36 | S2036BS 1/2 | 14 1/2 | 1.800 | 1.900 | B | 1/2 | None | (1) 1/4-20 | 1 5/8 | 1/2 | 0.52 |
| 40 | S2040BS 3/8 | 14 1/2 | 2.000 | 2.100 | B | 3/8 | None | (1) 1/4-20 | 1 13/16 | 1/2 | 0.64 |
| 40 | S2040BS 1/2 | 14 1/2 | 2.000 | 2.100 | B | 1/2 | None | (1) 1/4-20 | 1 13/16 | 1/2 | 0.64 |
| 40 | S2040BS 5/8 | 14 1/2 | 2.000 | 2.100 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 13/16 | 1/2 | 0.64 |
| 40 | S2040BS 3/4 | 14 1/2 | 2.000 | 2.100 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 13/16 | 1/2 | 0.64 |

**14½° P.A. gears will not operate with 20° P.A.**

• Consult Factory.

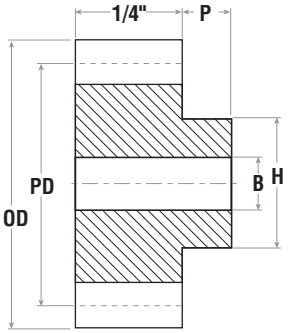
* Recommended maximum bore with keyway and setscew.

# 24 DP
## ¼" Face

# Steel Stock Spur Gears
### 14½°Pressure Angle

**Type B**

Plain with hubs




**Type B**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 11 | S2411 | 14 1/2 | 0.500 † | 0.583 | B | 1/4 | ** | 3/8 | 5/16 | 0.02 |
| 12 | S2412 | 14 1/2 | 0.500 | 0.583 | B | 1/4 | ** | 3/8 | 5/16 | 0.02 |
| 14 | S2414 | 14 1/2 | 0.583 | 0.666 | B | 1/4 | ** | 15/32 | 5/16 | 0.04 |
| 15 | S2415 | 14 1/2 | 0.625 | 0.708 | B | 1/4 | ** | 1/2 | 5/16 | 0.04 |
| 16 | S2416 | 14 1/2 | 0.666 | 0.750 | B | 5/16 | ** | 35/64 | 5/16 | 0.04 |
| 17 | S2417 | 14 1/2 | 0.709 | 0.791 | B | 5/16 | ** | 9/16 | 5/16 | 0.04 |
| 18 | S2418 | 14 1/2 | 0.750 | 0.833 | B | 5/16 | ** | 5/8 | 5/16 | 0.04 |
| 19 | S2419 | 14 1/2 | 0.791 | 0.875 | B | 5/16 | ** | 5/8 | 5/16 | 0.06 |
| 20 | S2420 | 14 1/2 | 0.833 | 0.917 | B | 5/16 | ** | 23/32 | 5/16 | 0.06 |
| 21 | S2421 | 14 1/2 | 0.875 | 0.959 | B | 3/8 | ** | 3/4 | 5/16 | 0.06 |
| 22 | S2422 | 14 1/2 | 0.917 | 1.000 | B | 3/8 | ** | 3/4 | 5/16 | 0.06 |
| 24 | S2424 | 14 1/2 | 1.000 | 1.083 | B | 3/8 | ** | 7/8 | 3/8 | 0.10 |
| 26 | S2426 | 14 1/2 | 1.083 | 1.166 | B | 3/8 | ** | 7/8 | 3/8 | 0.10 |
| 27 | S2427 | 14 1/2 | 1.125 | 1.208 | B | 3/8 | ** | 7/8 | 3/8 | 0.12 |
| 30 | S2430 | 14 1/2 | 1.250 | 1.333 | B | 3/8 | 1/2 | 1 | 3/8 | 0.16 |
| 32 | S2432 | 14 1/2 | 1.333 | 1.416 | B | 3/8 | 1/2 | 1 | 3/8 | 0.20 |
| 33 | S2433 | 14 1/2 | 1.375 | 1.458 | B | 3/8 | 5/8 | 1 1/8 | 3/8 | 0.20 |
| 36 | S2436 | 14 1/2 | 1.500 | 1.583 | B | 3/8 | 5/8 | 1 1/8 | 3/8 | 0.20 |
| 40 | S2440 | 14 1/2 | 1.666 | 1.750 | B | 3/8 | 5/8 | 1 1/8 | 3/8 | 0.24 |
| 42 | S2442 | 14 1/2 | 1.750 | 1.833 | B | 3/8 | 11/16 | 1 1/4 | 3/8 | 0.28 |
| 44 | S2444 | 14 1/2 | 1.833 | 1.917 | B | 3/8 | 11/16 | 1 1/4 | 3/8 | 0.30 |
| 45 | S2445 | 14 1/2 | 1.875 | 1.959 | B | 3/8 | 11/16 | 1 1/4 | 3/8 | 0.30 |
| 48 | S2448 | 14 1/2 | 2.000 | 2.083 | B | 3/8 | 11/16 | 1 1/4 | 3/8 | 0.32 |
| 54 | S2454 | 14 1/2 | 2.250 | 2.333 | B | 3/8 | 11/16 | 1 1/4 | 3/8 | 0.38 |
| 56 | S2456 | 14 1/2 | 2.333 | 2.416 | B | 3/8 | 11/16 | 1 1/4 | 3/8 | 0.40 |
| 60 | S2460 | 14 1/2 | 2.500 | 2.583 | B | 3/8 | 11/16 | 1 1/4 | 3/8 | 0.46 |
| 66 | S2466 | 14 1/2 | 2.750 | 2.833 | B | 3/8 | 11/16 | 1 1/4 | 3/8 | 0.52 |
| 72 | S2472 | 14 1/2 | 3.000 | 3.083 | B | 1/2 | 13/16 | 1 3/8 | 1/2 | 0.64 |
| 84 | S2484 | 14 1/2 | 3.500 | 3.583 | B | 1/2 | 7/8 | 1 1/2 | 1/2 | 0.88 |
| 96 | S2496 | 14 1/2 | 4.000 | 4.083 | B | 1/2 | 7/8 | 1 1/2 | 1/2 | 1.08 |
| 120 | S24120 | 14 1/2 | 5.000 | 5.083 | B | 1/2 | 7/8 | 1 1/2 | 1/2 | 2.60 |
| 144 | S24144 | 14 1/2 | 6.000 | 6.083 | B | 1/2 | 15/16 | 1 5/8 | 17/32 | 2.28 |

* Recommended maximum bore with keyway and setscew.
† Enlarged pitch diameter with special tooth form.
** Check application with factory.

**14½° P.A. gears will not operate with 20° P.A.**

# 14½° Spur Gear Horsepower Ratings

**(S) = Steel (CI) = Cast Iron**

## 3 D.P. — 3" Face

| No. Teeth | 50 RPM | | 100 RPM | | 200 RPM | | 300 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 12 | 6.14 | | 11.37 | | 19.8 | | 26.3 | | 39.14 | | 46.74 | | 51.78 | | | |
| 15 | 8.76 | | 15.96 | | 27.06 | | 35.24 | | 50.49 | | 59.01 | | | | | |
| 18 | 11.37 | | 20.38 | | 33.75 | | 43.2 | | 60 | | 68.93 | | | | | |
| 21 | 13.92 | | 24.59 | | 39.84 | | 50.24 | | 67.96 | | | | | | | |
| 24 | 16.32 | 9.67 | 28.53 | 16.84 | 45.16 | 26.76 | 56.19 | 33.3 | 74.34 | 44.05 | | | | | | |
| 48 | 32.28 | 19.5 | 51.3 | 30.98 | 72.69 | 43.9 | 84.44 | 51.39 | | | | | | | | |
| 72 | 45.01 | 27.06 | 66.98 | 40.29 | 88.62 | 53.32 | | | | | | | | | | |
| 96 | 54.74 | 32.95 | 77.57 | 46.7 | 98.01 | 59.01 | | | | | | | | | | |
| 120 | 62.89 | 37.74 | 85.79 | 51.48 | 104.88 | 62.93 | | | | | | | | | | |

## 4 D.P. — 2" Face

| No. Teeth | 50 RPM | | 100 RPM | | 200 RPM | | 300 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 12 | 2.35 | | 4.42 | | 7.92 | | 10.77 | | 16.8 | | 20.65 | | 23.33 | | 27 | |
| 16 | 3.81 | | 6.85 | | 11.92 | | 15.82 | | 23.6 | | 28.18 | | 31.23 | | | |
| 20 | 5.06 | | 9.22 | | 15.65 | | 20.38 | | 29.19 | | 31.11 | | | | | |
| 24 | 6.27 | 3.77 | 11.25 | 6.75 | 18.64 | 11.19 | 23.86 | 14.32 | 33.14 | 19.88 | 38.17 | 22.84 | | | | |
| 36 | 10.03 | 5.96 | 17.23 | 10.24 | 28.01 | 15.98 | 33.05 | 16.94 | 42.89 | 25.49 | | | | | | |
| 48 | 12.94 | 7.82 | 21.44 | 12.95 | 31.91 | 19.28 | 38.12 | 23.02 | 47.31 | 28.58 | | | | | | |
| 72 | | 11.1 | | 17.32 | | 24.05 | | 27.65 | | | | | | | | |
| 96 | | 13.78 | | 20.5 | | 27.12 | | | | | | | | | | |
| 144 | | 18 | | 25 | | 31 | | | | | | | | | | |

## 5 D.P. — 1 3/4" Face

| No. Teeth | 50 RPM | | 100 RPM | | 200 RPM | | 300 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 12 | 1.32 | | 2.54 | | 4.63 | | 6.4 | | 10.33 | | 12.98 | | 14.9 | | 17.48 | |
| 18 | 2.5 | | 4.66 | | 8.22 | | 11 | | 16.67 | | 20.13 | | 22.45 | | | |
| 24 | 3.64 | 2.16 | 6.55 | 3.95 | 11.18 | 6.73 | 14.62 | 8.79 | 21.09 | 12.69 | 24.74 | 14.88 | | | | |
| 30 | 4.68 | 2.79 | 8.45 | 5.02 | 14 | 8.31 | 17.92 | 10.65 | 24.88 | 14.79 | 28.58 | 17 | | | | |
| 45 | 7.59 | 4.32 | 12.2 | 7.43 | 19.03 | 11.59 | 23.41 | 14.27 | 30.38 | 18.52 | | | | | | |
| 60 | | 5.62 | | 9.31 | | 13.86 | | 16.56 | | 20.55 | | | | | | |
| 80 | 11.96 | 7.25 | 19 | 11.54 | 26.92 | 16.35 | 31.28 | 18.99 | | | | | | | | |
| 100 | | 8.51 | | 13.07 | | 17.84 | | | | | | | | | | |
| 120 | 16.23 | 9.74 | 24.16 | 14.49 | 31.95 | 19.18 | | | | | | | | | | |
| 160 | | 11.77 | | 16.68 | | 21.09 | | | | | | | | | | |

Note:

1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.
2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of cast iron or steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

# 14½° Spur Gear Horsepower Ratings

**(S) = Steel (CI) = Cast Iron**

## 6 D.P. — 1 1/2" Face

| No. Teeth | 100 RPM | | 200 RPM | | 300 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 12 | 1.54 | | 2.83 | | 3.97 | | 6.57 | | 8.4 | | 9.78 | | 11.69 | |
| 18 | 2.83 | | 5.09 | | 6.91 | | 10.8 | | 13.28 | | 14.98 | | 17.22 | |
| 24 | 4.02 | | 7.02 | | 9.32 | | 13.86 | | 16.56 | | 18.35 | | | |
| 30 | 5.16 | | 8.75 | | 11.41 | | 16.35 | | 19.1 | | | | | |
| 36 | 6.26 | 3.77 | 10.37 | 6.24 | 13.28 | 7.98 | 18.44 | 11.09 | | | | | | |
| 48 | 7.56 | 4.88 | 12.91 | 7.75 | 15.98 | 9.64 | 20.66 | 12.75 | | | | | | |
| 84 | 12.86 | 7.6 | 17.62 | 11.02 | 20.51 | 12.96 | | | | | | | | |
| 120 | 15.99 | 9.5 | 20.86 | 12.95 | | | | | | | | | | |
| 180 | | 12 | | 15 | | | | | | | | | | |

## 8 D.P. — 1 1/4" Face

| No. Teeth | 100 RPM | | 200 RPM | | 300 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 12 | 0.72 | | 1.37 | | 1.95 | | 3.32 | | 4.36 | | 5.21 | | 6.38 | |
| 18 | 1.37 | | 2.52 | | 3.49 | | 5.69 | | 7.2 | | 8.30 | | 9.8 | |
| 24 | 1.98 | 1.18 | 3.59 | 2.13 | 4.81 | 2.86 | 7.55 | 4.48 | 9.25 | 5.49 | 10.48 | 6.22 | 12.08 | 7.17 |
| 36 | 3.02 | | 5.13 | | 6.73 | | 9.85 | | | | | | | |
| 48 | 4.08 | 2.5 | 6.76 | 4.14 | 8.58 | 5.26 | 11.91 | 7.29 | | | | | | |
| 60 | | 2.98 | | 4.79 | | 5.98 | | | | | | | | |
| 72 | | 3.47 | | 5.45 | | 6.67 | | | | | | | | |
| 96 | | 4.4 | | 6.49 | | 7.75 | | | | | | | | |
| 112 | | 4.83 | | 7.01 | | | | | | | | | | |
| 120 | | 5.05 | | 7.22 | | | | | | | | | | |
| 160 | | 6.02 | | 8.21 | | | | | | | | | | |

## 10 D.P. — 1" Face

| No. Teeth | 100 RPM | | 200 RPM | | 300 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 12 | 0.38 | | 0.75 | | 1.08 | | 1.88 | | 2.50 | | 3.00 | | 3.75 | |
| 18 | 0.72 | | 1.33 | | 1.87 | | 3.15 | | 4.07 | | 4.76 | | 5.75 | |
| 24 | 1.08 | | 1.98 | | 2.71 | | 4.33 | | 5.41 | | 7.21 | | 7.21 | |
| 28 | 1.24 | 0.80 | 2.24 | 1.44 | 3.06 | 1.94 | 4.83 | 3.03 | 5.98 | 3.71 | 6.79 | 4.85 | 7.85 | |
| 48 | 2.26 | 1.31 | 3.77 | 2.23 | 4.94 | 2.91 | 7.13 | 4.2 | 8.23 | 4.92 | | | | |
| 60 | 2.68 | 1.61 | 4.45 | 2.66 | 5.65 | 3.41 | 7.84 | 4.73 | 9.04 | 5.43 | | | | |
| 72 | | 1.88 | | 3.02 | | 3.80 | | 5.16 | | | | | | |
| 96 | | 2.37 | | 3.65 | | 4.46 | | 5.73 | | | | | | |
| 120 | | 2.80 | | 4.17 | | 4.98 | | 6.18 | | | | | | |
| 140 | | 3.12 | | 4.52 | | 5.33 | | | | | | | | |
| 180 | | 3.63 | | 5.04 | | 5.81 | | | | | | | | |
| 200 | | 3.88 | | 5.29 | | 6.02 | | | | | | | | |

Note:

1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.
2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of cast iron or steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

# 14½° Spur Gear Horsepower Ratings

## 12 D.P. — 3/4" Face

| No. Teeth | 100 RPM | | 200 RPM | | 300 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 12 | 0.21 | | 0.39 | | 0.55 | | 0.99 | | 1.33 | | 1.64 | | 2.09 | |
| 18 | 0.38 | | 0.71 | | 1.01 | | 1.73 | | 2.28 | | 2.70 | | 3.32 | |
| 24 | 0.56 | | 1.05 | | 1.43 | | 2.37 | | 3.01 | | 3.50 | | 4.17 | |
| 36 | 0.88 | 0.53 | 1.57 | 0.95 | 2.13 | 1.28 | 3.33 | 2.01 | 4.09 | 2.46 | 4.62 | 2.46 | 5.31 | 3.21 |
| 48 | 1.16 | 0.70 | 2.02 | 1.22 | 2.70 | 1.62 | 3.99 | 2.41 | 4.76 | 2.88 | 4.76 | 3.19 | | |
| 60 | 1.46 | 0.87 | 2.44 | 1.47 | 3.19 | 1.91 | 4.61 | 2.74 | 5.32 | 3.21 | | | | |
| 72 | 1.71 | 1.04 | 2.84 | 1.72 | 3.60 | 2.18 | 5.00 | 3.03 | 5.76 | 3.49 | | | | |
| 96 | | 1.30 | | 2.06 | | 2.56 | | 3.39 | | | | | | |
| 120 | | 1.54 | | 2.37 | | 2.90 | | 3.68 | | | | | | |
| 200 | | 2.19 | | 3.08 | | 3.56 | | | | | | | | |

## 16 D.P. — 1/2" Face

| No. Teeth | 100 RPM | | 200 RPM | | 300 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 12 | 0.08 | | 0.14 | | 0.21 | | 0.40 | | 0.53 | | 0.66 | | 0.87 | |
| 18 | 0.14 | | 0.27 | | 0.39 | | 0.70 | | 0.94 | | 1.14 | | 1.44 | |
| 24 | 0.21 | | 0.39 | | 0.56 | | 0.96 | | 1.26 | | 1.50 | | 1.84 | |
| 36 | 0.32 | 0.14 | 0.60 | 0.27 | 0.82 | 0.37 | 1.35 | 0.60 | 1.71 | 0.68 | 1.97 | 0.87 | 2.33 | 1.03 |
| 48 | 0.45 | | 0.82 | | 1.10 | | 1.72 | | 2.11 | | 2.39 | | 2.75 | |
| 60 | | 0.34 | | 0.60 | | 0.80 | | 1.20 | | 1.44 | | 1.60 | | |
| 72 | | 0.40 | | 0.69 | | 0.91 | | 1.33 | | 1.57 | | | | |
| 80 | 0.76 | 0.45 | 1.26 | 0.75 | 1.65 | 0.99 | 2.38 | 1.43 | 2.75 | 1.64 | | | | |
| 120 | | 0.63 | | 1.00 | | 1.25 | | 1.68 | | | | | | |
| 160 | | 0.78 | | 1.21 | | 1.48 | | 1.78 | | | | | | |
| 200 | | 0.93 | | 1.34 | | 1.60 | | 1.78 | | | | | | |

## 20 D.P. — 3/8" Face

| No. Teeth | 100 RPM | | 200 RPM | | 300 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 12 | 0.05 | | 0.07 | | 0.10 | | 0.19 | | 0.27 | | 0.33 | | 0.46 | |
| 18 | 0.07 | | 0.13 | | 0.19 | | 0.35 | | 0.48 | | 0.59 | | 0.76 | |
| 24 | 0.11 | | 0.20 | | 0.29 | | 0.51 | | 0.68 | | 0.81 | | 1.02 | |
| 48 | 0.22 | 0.14 | 0.43 | 0.26 | 0.58 | 0.35 | 0.93 | 0.56 | 1.16 | 0.70 | 1.34 | 0.81 | 1.55 | 0.94 |
| 60 | 0.28 | | 0.50 | | 0.67 | | 1.06 | | 1.29 | | 1.47 | | 1.69 | |
| 80 | | 0.22 | | 0.39 | | 0.52 | | 0.76 | | 0.91 | | 1.01 | | |
| 96 | 0.46 | 0.26 | 0.76 | | 0.99 | | 1.44 | | 1.66 | | 1.70 | | | |
| 120 | | 0.32 | | 0.53 | | 0.66 | | 0.92 | | 1.06 | | | | |
| 160 | | 0.40 | | 0.64 | | 0.79 | | 1.05 | | 1.16 | | | | |
| 200 | | 0.47 | | 0.73 | | 0.89 | | 1.08 | | 1.14 | | | | |

## 24 D.P. — 1/4" Face

| No. Teeth | 100 RPM | | 200 RPM | | 300 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 12 | 0.017 | | 0.033 | | 0.049 | | 0.092 | | 0.131 | | 0.165 | |
| 18 | 0.030 | | 0.060 | | 0.090 | | 0.170 | | 0.230 | | 0.290 | |
| 24 | 0.047 | | 0.091 | | 0.132 | | 0.236 | | 0.321 | | 0.391 | |
| 36 | 0.080 | | 0.150 | | 0.210 | | 0.360 | | 0.470 | | 0.550 | |
| 48 | 0.105 | | 0.197 | | 0.275 | | 0.455 | | 0.583 | | 0.679 | |
| 60 | 0.130 | | 0.240 | | 0.330 | | 0.530 | | 0.670 | | 0.760 | |
| 96 | 0.210 | | 0.360 | | 0.480 | | 0.710 | | 0.850 | | 0.940 | |
| 144 | 0.291 | | 0.482 | | 0.617 | | 0.857 | | 0.984 | | | |

Note:

1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.
2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of cast iron or steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

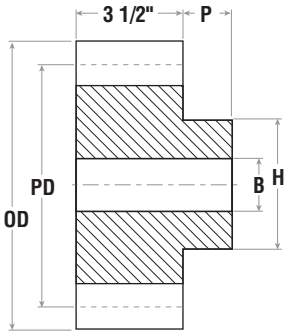
# 4 DP
## 3½" Face

# Steel Stock Spur Gears
**20°Pressure Angle**

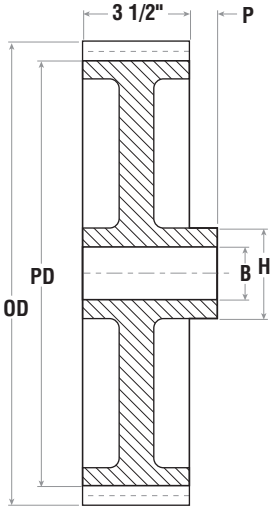
**Type B**
Plain with hubs

**Type $B_1$**
Web

**Type $B_2$**
Web with lighten holes




**Type B**




**Type $B_1$, $B_2$**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 12 | TS412 | 20 | 3.000 | 3.500 | B | 1 1/8 | 1 5/16 | 2 17/64 | 7/8 | 6.8 |
| 14 | TS414 | 20 | 3.500 | 4.000 | B | 1 1/8 | 1 3/4 | 2 49/64 | 7/8 | 9.8 |
| 15 | TS415 | 20 | 3.750 | 4.250 | B | 1 1/8 | 1 7/8 | 3 1/64 | 7/8 | 11.5 |
| 16 | TS416 | 20 | 4.000 | 4.500 | B | 1 1/8 | 2 1/8 | 3 17/64 | 7/8 | 13.3 |
| 18 | TS418 | 20 | 4.500 | 5.000 | B | 1 1/8 | 2 3/8 | 3 49/64 | 7/8 | 17.3 |
| 20 | TS420 | 20 | 5.000 | 5.500 | B | 1 1/8 | 2 3/4 | 4 17/64 | 7/8 | 21.8 |
| 22 | TS422 | 20 | 5.500 | 6.000 | B | 1 1/8 | 3 | 4 49/64 | 7/8 | 26.7 |
| 24 | TS424 | 20 | 6.000 | 6.500 | B | 1 1/8 | 3 1/8 | 5 | 1 1/4 | 33.7 |
| 28 | TS428 | 20 | 7.000 | 7.500 | B | 1 1/8 | 3 1/8 | 5 | 1 1/4 | 43.8 |
| 30 | TS430 | 20 | 7.500 | 8.000 | B | 1 1/8 | 3 1/8 | 5 | 1 1/4 | 49.4 |
| 32 | TS432 | 20 | 8.000 | 8.500 | B | 1 1/4 | 3 1/8 | 5 | 1 1/2 | 56.8 |
| 36 | TS436 | 20 | 9.000 | 9.500 | B | 1 1/4 | 3 1/8 | 5 | 1 1/2 | 70.0 |
| 40 | TS440 | 20 | 10.000 | 10.500 | B | 1 1/4 | 3 1/8 | 5 1/8 | 1 1/2 | 85.2 |
| 44 | TS444 | 20 | 11.000 | 11.500 | B | 1 1/4 | 3 1/8 | 5 1/8 | 1 1/2 | 101.6 |
| 48 | TS448 | 20 | 12.000 | 12.500 | B | 1 1/4 | 3 1/8 | 5 1/8 | 1 1/2 | 119.5 |
| 56 | TS456 | 20 | 14.000 | 14.500 | B1 | 1 1/4 | 3 1/4 | 5 1/2 | 1 1/2 | 96.9 |
| 60 | TS460 | 20 | 15.000 | 15.500 | B2 | 1 1/4 | 3 1/4 | 5 1/2 | 1 1/2 | 88.1 |
| 64 | TS464 | 20 | 16.000 | 16.500 | B2 | 1 1/4 | 3 1/4 | 5 1/2 | 1 1/2 | 86.9 |
| 72 | TS472 | 20 | 18.000 | 18.500 | B2 | 1 1/4 | 3 1/4 | 5 1/2 | 1 1/2 | 86.5 |
| 80 | TS480 | 20 | 20.000 | 20.500 | B2 | 1 1/4 | 3 1/4 | 5 1/2 | 1 1/2 | 90.9 |

* Recommended maximum bore with keyway and setscew.

**20° P.A. gears will not operate with 14 1/2° P.A.**

# Steel Stock Spur Gears

**20°Pressure Angle**

# 5 DP

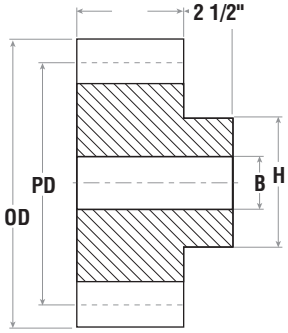
## 2½" Face

**Type B**

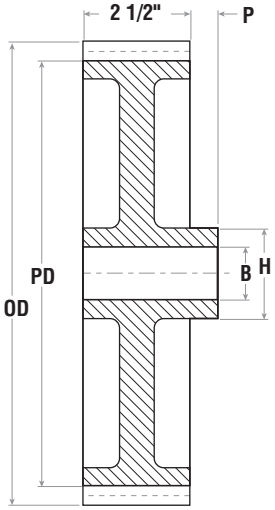
Plain with hubs

**Type $B_2$**

Web with lighten holes




**Type B**




**Type $B_2$**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 12 | TS512 | 20 | 2.400 | 2.800 | B | 1 1/8 | 1 1/8 | 1 25/32 | 7/8 | 2.9 |
| 14 | TS514 | 20 | 2.800 | 3.200 | B | 1 1/8 | 1 5/16 | 2 3/16 | 7/8 | 4.3 |
| 15 | TS515 | 20 | 3.000 | 3.400 | B | 1 1/8 | 1 7/16 | 2 3/8 | 7/8 | 5.2 |
| 16 | TS516 | 20 | 3.200 | 3.600 | B | 1 1/8 | 1 5/8 | 2 19/32 | 7/8 | 6.1 |
| 18 | TS518 | 20 | 3.600 | 4.000 | B | 1 1/8 | 1 7/8 | 3 | 7/8 | 8.0 |
| 20 | TS520 | 20 | 4.000 | 4.400 | B | 1 1/8 | 2 1/4 | 3 3/8 | 7/8 | 10.2 |
| 24 | TS524 | 20 | 4.800 | 5.200 | B | 1 1/8 | 2 3/8 | 3 3/4 | 1 1/4 | 15.7 |
| 25 | TS525 | 20 | 5.000 | 5.400 | B | 1 1/8 | 2 3/8 | 3 3/4 | 1 1/4 | 20.3 |
| 28 | TS528 | 20 | 5.600 | 6.000 | B | 1 1/8 | 2 3/8 | 3 3/4 | 1 1/4 | 22.9 |
| 30 | TS530 | 20 | 6.000 | 6.400 | B | 1 1/8 | 2 3/8 | 3 3/4 | 1 1/4 | 23.9 |
| 35 | TS535 | 20 | 7.000 | 7.400 | B | 1 1/4 | 2 3/8 | 3 3/4 | 1 1/4 | 29.9 |
| 40 | TS540 | 20 | 8.000 | 8.400 | B | 1 1/4 | 2 3/8 | 3 3/4 | 1 1/4 | 38.2 |
| 45 | TS545 | 20 | 9.000 | 9.400 | B | 1 1/4 | 2 3/8 | 3 3/4 | 1 1/4 | 47.7 |
| 50 | TS550 | 20 | 10.000 | 10.400 | B | 1 1/4 | 2 13/16 | 4 5/8 | 1 1/4 | 60.3 |
| 60 | TS560 | 20 | 12.000 | 12.400 | B | 1 1/4 | 2 13/16 | 4 5/8 | 1 1/4 | 84.7 |
| 70 | TS570 | 20 | 14.000 | 14.400 | B2 | 13/16 | 3 1/8 | 5 1/4 | 1 1/4 | 51.6 |
| 80 | TS580 | 20 | 16.000 | 16.400 | B2 | 13/16 | 3 1/8 | 5 1/4 | 1 1/4 | 55.8 |
| 90 | TS590 | 20 | 18.000 | 18.400 | B2 | 13/16 | 3 1/8 | 5 1/4 | 1 1/4 | 59.7 |
| 100 | TS5100 | 20 | 20.000 | 20.400 | B2 | 15/16 | 3 1/4 | 5 3/4 | 1 1/2 | 69.2 |
| 110 | TS5110 | 20 | 22.000 | 22.400 | B2 | 15/16 | 3 1/4 | 5 3/4 | 1 1/2 | 72.3 |
| 120 | TS5120 | 20 | 24.000 | 24.400 | B2 | 15/16 | 3 1/2 | 6 1/4 | 1 1/2 | 80.2 |

* Recommended maximum bore with keyway and setscew.

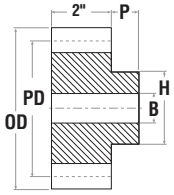
**20° P.A. gears will not operate with 14 1/2° P.A.**

# 6 DP
## 2" Face

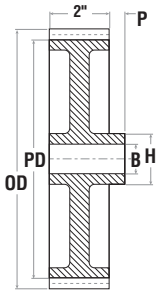
# Steel Stock Spur Gears
**20°Pressure Angle**

**Type B**
Plain with hubs

**Type $B_2$**
Web with lighten holes




**Type B**




**Type $B_2$**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 11 | TS611† | 20 | 2.000 | 2.333 | B | 1 | 1 | 1 1/2 | 7/8 | 1.6 |
| 12 | TS612 | 20 | 2.000 | 2.333 | B | 1 | 1 | 1 1/2 | 7/8 | 1.6 |
| 14 | TS614 | 20 | 2.333 | 2.666 | B | 1 | 1 | 1 13/16 | 7/8 | 2.4 |
| 15 | TS615 | 20 | 2.500 | 2.833 | B | 1 | 1 1/4 | 2 | 7/8 | 2.9 |
| 16 | TS616 | 20 | 2.666 | 3.000 | B | 1 | 1 5/16 | 2 1/8 | 7/8 | 3.4 |
| 18 | TS618 | 20 | 3.000 | 3.333 | B | 1 | 1 1/2 | 2 1/2 | 7/8 | 4.6 |
| 21 | TS621 | 20 | 3.500 | 3.833 | B | 1 | 1 7/8 | 3 | 7/8 | 6.6 |
| 24 | TS624 | 20 | 4.000 | 4.333 | B | 1 1/8 | 1 7/8 | 3 | 7/8 | 8.1 |
| 27 | TS627 | 20 | 4.500 | 4.833 | B | 1 1/8 | 2 1/8 | 3 1/2 | 7/8 | 10.6 |
| 30 | TS630 | 20 | 5.000 | 5.333 | B | 1 1/8 | 2 1/2 | 4 | 7/8 | 13.4 |
| 33 | TS633 | 20 | 5.500 | 5.833 | B | 1 1/8 | 2 1/2 | 4 | 1 1/2 | 17.8 |
| 36 | TS636 | 20 | 6.000 | 6.333 | B | 1 1/8 | 2 1/2 | 4 | 1 1/2 | 20.4 |
| 42 | TS642 | 20 | 7.000 | 7.333 | B | 1 1/8 | 2 1/2 | 4 | 1 1/2 | 26.2 |
| 48 | TS648 | 20 | 8.000 | 8.333 | B | 1 1/8 | 2 1/2 | 4 | 1 1/2 | 32.8 |
| 54 | TS654 | 20 | 9.000 | 9.333 | B | 1 1/8 | 2 1/2 | 4 | 1 1/2 | 40.4 |
| 60 | TS660 | 20 | 10.000 | 10.333 | B | 1 1/4 | 2 11/16 | 4 5/8 | 1 1/2 | 50.0 |
| 64 | TS664 | 20 | 10.666 | 11.000 | B | 1 1/4 | 2 11/16 | 4 5/8 | 1 1/2 | 56.5 |
| 66 | TS666 | 20 | 11.000 | 11.333 | B | 1 1/4 | 2 11/16 | 4 5/8 | 1 1/2 | 59.8 |
| 72 | TS672 | 20 | 12.000 | 12.333 | B | 1 1/4 | 2 11/16 | 4 5/8 | 1 1/2 | 70.0 |
| 84 | TS684 | 20 | 14.000 | 14.333 | B2 | 1 1/4 | 2 13/16 | 5 | 1 1/2 | 42.8 |
| 96 | TS696 | 20 | 16.000 | 16.333 | B2 | 1 1/4 | 2 13/16 | 5 | 1 1/2 | 46.0 |
| 108 | TS6108 | 20 | 18.000 | 18.333 | B2 | 1 1/4 | 2 13/16 | 5 | 1 1/2 | 48.8 |
| 120 | TS6120 | 20 | 20.000 | 20.333 | B2 | 1 1/4 | 2 13/16 | 5 | 1 1/2 | 51.3 |

## Bored-To-Size

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Setscrew | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Keyway | | Diameter | Projection | |
| 12 | TS612BS 1 | 20 | 2.000 | 2.333 | B | 1 | 1/4 × 1/8 | (1) 1/4-20 @90 | 1 1/2 | 7/8 | 1.60 |
| 14 | TS614BS 1 | 20 | 2.333 | 2.667 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @90 | 1 13/16 | 7/8 | 2.40 |
| 14 | TS614BS 1-1/8 | 20 | 2.333 | 2.667 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @90 | 1 13/16 | 7/8 | 2.40 |
| 15 | TS615BS 1 | 20 | 2.500 | 2.833 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @90 | 2 | 7/8 | 2.90 |
| 15 | TS615BS 1-1/8 | 20 | 2.500 | 2.833 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @90 | 2 | 7/8 | 2.90 |
| 15 | TS615BS 1-3/16 | 20 | 2.500 | 2.833 | B | 1 3/16 | 1/4 × 1/8 | (1) 5/16-18 @90 | 2 | 7/8 | 2.90 |
| 15 | TS615BS 1-1/4 | 20 | 2.500 | 2.833 | B | 1 1/4 | 1/4 × 1/8 | (1) 5/16-18 @90 | 2 | 7/8 | 2.90 |
| 16 | TS616BS 1 | 20 | 2.667 | 3.000 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @90 | 2 1/8 | 7/8 | 3.40 |
| 16 | TS616BS 1-1/8 | 20 | 2.667 | 3.000 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @90 | 2 1/8 | 7/8 | 3.40 |
| 16 | TS616BS 1-3/16 | 20 | 2.667 | 3.000 | B | 1 3/16 | 1/4 × 1/8 | (1) 5/16-18 @90 | 2 1/8 | 7/8 | 3.40 |
| 16 | TS616BS 1-1/4 | 20 | 2.667 | 3.000 | B | 1 1/4 | 1/4 × 1/8 | (1) 5/16-18 @90 | 2 1/8 | 7/8 | 3.40 |
| 18 | TS618BS 1 | 20 | 3.000 | 3.333 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @90 | 2 1/2 | 7/8 | 4.60 |
| 18 | TS618BS 1-1/8 | 20 | 3.000 | 3.333 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @90 | 2 1/2 | 7/8 | 4.60 |
| 18 | TS618BS 1-3/16 | 20 | 3.000 | 3.333 | B | 1 3/16 | 1/4 × 1/8 | (1) 5/16-18 @90 | 2 1/2 | 7/8 | 4.60 |
| 18 | TS618BS 1-1/4 | 20 | 3.000 | 3.333 | B | 1 1/4 | 1/4 × 1/8 | (1) 5/16-18 @90 | 3 | 7/8 | 4.60 |
| 21 | TS621BS 1 | 20 | 3.500 | 3.833 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @90 | 3 | 7/8 | 6.60 |
| 21 | TS621BS 1-1/8 | 20 | 3.500 | 3.833 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @90 | 3 | 7/8 | 6.60 |
| 21 | TS621BS 1-3/16 | 20 | 3.500 | 3.833 | B | 1 3/16 | 1/4 × 1/8 | (1) 5/16-18 @90 | 3 | 7/8 | 6.60 |
| 21 | TS621BS 1-1/4 | 20 | 3.500 | 3.833 | B | 1 1/4 | 1/4 × 1/8 | (1) 5/16-18 @90 | 3 | 7/8 | 6.60 |

**20° P.A. gears will not operate with 14 1/2° P.A.**

* Recommended maximum bore with keyway and setscew.

# Steel & Cast Stock Spur Gears

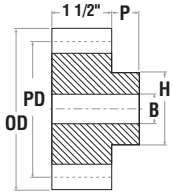
**20°Pressure Angle**

# 8 DP

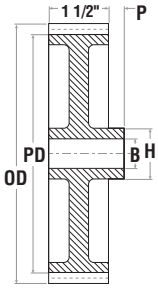
## 1½" Face

**Type B**
Plain with hubs

**Type $B_3$**
Spoke style




**Type B**




**Type $B_3$**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 12 | TS812 | 20 | 1.500 | 1.750 | B | 3/4 | 3/4 | 1 1/8 | 3/4 | 0.7 |
| 14 | TS814 | 20 | 1.750 | 2.000 | B | 3/4 | 13/16 | 1 5/16 | 3/4 | 1.0 |
| 15 | TS815 | 20 | 1.875 | 2.125 | B | 3/4 | 7/8 | 1 7/16 | 3/4 | 1.2 |
| 16 | TS816 | 20 | 2.000 | 2.250 | B | 7/8 | 15/16 | 1 9/16 | 7/8 | 1.4 |
| 18 | TS818 | 20 | 2.250 | 2.500 | B | 7/8 | 1 1/8 | 1 13/16 | 7/8 | 1.9 |
| 19 | TS819 | 20 | 2.375 | 2.625 | B | 7/8 | 1 1/4 | 2 | 7/8 | 2.3 |
| 20 | TS820 | 20 | 2.500 | 2.750 | B | 7/8 | 1 5/16 | 2 1/16 | 7/8 | 2.5 |
| 22 | TS822 | 20 | 2.750 | 3.000 | B | 7/8 | 1 1/2 | 2 5/16 | 7/8 | 3.2 |
| 24 | TS824 | 20 | 3.000 | 3.250 | B | 7/8 | 1 5/8 | 2 9/16 | 7/8 | 3.9 |
| 26 | TS826 | 20 | 3.250 | 3.500 | B | 7/8 | 1 3/4 | 2 3/4 | 7/8 | 4.6 |
| 28 | TS828 | 20 | 3.500 | 3.750 | B | 7/8 | 1 3/4 | 2 3/4 | 7/8 | 5.2 |
| 30 | TS830 | 20 | 3.750 | 4.000 | B | 1 | 1 3/4 | 2 3/4 | 7/8 | 5.6 |
| 32 | TS832 | 20 | 4.000 | 4.250 | B | 1 | 1 7/8 | 3 1/4 | 7/8 | 6.6 |
| 36 | TS836 | 20 | 4.500 | 4.750 | B | 1 | 2 1/8 | 3 1/2 | 7/8 | 8.6 |
| 40 | TS840 | 20 | 5.000 | 5.250 | B | 1 | 2 1/8 | 3 1/2 | 7/8 | 10.2 |
| 42 | TS842 | 20 | 5.250 | 5.500 | B | 1 | 2 1/8 | 3 1/2 | 1 | 11.4 |
| 44 | TS844 | 20 | 5.500 | 5.750 | B | 1 | 2 1/8 | 3 1/2 | 1 | 12.3 |
| 48 | TS848 | 20 | 6.000 | 6.250 | B | 1 | 2 1/8 | 3 1/2 | 1 | 14.2 |

## Cast

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 52 | TC852 | 20 | 6.500 | 6.750 | B | 1 | 1 7/8 | 3 | 1 | 11.9 |
| 56 | TC856 | 20 | 7.000 | 7.250 | B | 1 | 1 7/8 | 3 | 1 | 13.0 |
| 60 | TC860 | 20 | 7.500 | 7.750 | B2 | 1 | 1 7/8 | 3 | 1 | 12.0 |
| 64 | TC864 | 20 | 8.000 | 8.250 | B3 | 1 | 1 7/8 | 3 | 1 | 12.1 |
| 72 | TC872 | 20 | 9.000 | 9.250 | B3 | 1 | 2 1/16 | 3 1/4 | 1 | 14.4 |
| 80 | TC880 | 20 | 10.000 | 10.250 | B3 | 1 1/8 | 2 1/16 | 3 1/4 | 1 1/4 | 17.0 |
| 88 | TC888 | 20 | 11.000 | 11.250 | B3 | 1 1/8 | 2 1/16 | 3 1/4 | 1 1/4 | 19.0 |
| 96 | TC896 | 20 | 12.000 | 12.250 | B3 | 1 1/8 | 2 1/8 | 3 1/2 | 1 1/4 | 23.7 |
| 112 | TC8112 | 20 | 14.000 | 14.250 | B3 | 1 1/8 | 2 1/8 | 3 1/2 | 1 1/4 | 25.0 |
| 120 | TC8120 | 20 | 15.000 | 15.250 | B3 | 1 1/8 | 2 1/8 | 3 1/2 | 1 1/4 | 25.8 |
| 128 | TC8128 | 20 | 16.000 | 16.250 | B3 | 1 1/8 | 2 1/8 | 3 1/2 | 1 1/4 | 28.0 |
| 144 | TC8144 | 20 | 18.000 | 18.250 | B3 | 1 1/8 | 2 1/4 | 3 3/4 | 1 1/4 | 32.0 |
| 160 | TC8160 | 20 | 20.000 | 20.250 | B3 | 1 1/4 | 2 1/4 | 3 3/4 | 1 1/2 | 34.8 |

## Bored-To-Size

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Setscrew | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Keyway | | Diameter | Projection | |
| 12 | TS812BS 3/4 | 20 | 1.500 | 1.750 | B | 3/4 | 3/16 × 3/32 | (1) 10-24 @ 90 | 1 1/8 | 3/4 | 0.70 |
| 14 | TS814BS 3/4 | 20 | 1.750 | 2.000 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 5/16 | 3/4 | 1.00 |
| 15 | TS815BS 3/4 | 20 | 1.875 | 2.125 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 7/16 | 3/4 | 1.20 |
| 15 | TS815BS 7/8 | 20 | 1.875 | 2.125 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 7/16 | 3/4 | 1.20 |
| 16 | TS816BS 7/8 | 20 | 2.000 | 2.250 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 9/16 | 7/8 | 1.40 |
| 16 | TS816BS 1 | 20 | 2.000 | 2.250 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 9/16 | 7/8 | 1.40 |
| 18 | TS818BS 7/8 | 20 | 2.250 | 2.500 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 13/16 | 7/8 | 1.90 |
| 18 | TS818BS 1 | 20 | 2.250 | 2.500 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 13/16 | 7/8 | 1.90 |
| 18 | TS818BS 1-1/8 | 20 | 2.250 | 2.500 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 13/16 | 7/8 | 1.90 |
| 20 | TS820BS 7/8 | 20 | 2.500 | 2.750 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 2 1/16 | 7/8 | 2.50 |
| 20 | TS820BS 1 | 20 | 2.500 | 2.750 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 1/16 | 7/8 | 2.50 |
| 20 | TS820BS 1-1/8 | 20 | 2.500 | 2.750 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 1/16 | 7/8 | 2.50 |
| 22 | TS822BS 7/8 | 20 | 2.750 | 3.000 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 2 5/16 | 7/8 | 3.20 |
| 22 | TS822BS 1 | 20 | 2.750 | 3.000 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 5/16 | 7/8 | 3.20 |
| 22 | TS822BS 1-1/8 | 20 | 2.750 | 3.000 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 5/16 | 7/8 | 3.20 |
| 24 | TS824BS 7/8 | 20 | 3.000 | 3.250 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 2 9/16 | 7/8 | 3.90 |
| 24 | TS824BS 1 | 20 | 3.000 | 3.250 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 9/16 | 7/8 | 3.90 |
| 24 | TS824BS 1-1/8 | 20 | 3.000 | 3.250 | B | 1 1/8 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 9/16 | 7/8 | 3.90 |

**20° P.A. gears will not operate with 14 1/2° P.A.**

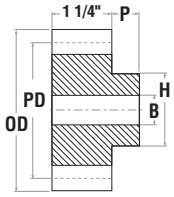
* Recommended maximum bore with keyway and setscew.

# 10 DP
## 1¼" Face

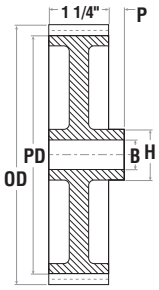
# Steel & Cast Stock Spur Gears
**20°Pressure Angle**

**Type B**
Plain with hubs

**Type $B_3$**
Spoke style




**Type B**




**Type $B_3$**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 12 | TS1012 | 20 | 1.200 | 1.400 | B | 5/8 | 5/8 | 29/32 | 5/8 | 0.4 |
| 14 | TS1014 | 20 | 1.400 | 1.600 | B | 5/8 | 5/8 | 1 7/64 | 5/8 | 0.6 |
| 15 | TS1015 | 20 | 1.500 | 1.700 | B | 3/4 | 3/4 | 1 7/32 | 5/8 | 0.6 |
| 16 | TS1016 | 20 | 1.600 | 1.800 | B | 3/4 | 3/4 | 1 5/16 | 5/8 | 0.7 |
| 18 | TS1018 | 20 | 1.800 | 2.000 | B | 3/4 | 13/16 | 1 11/32 | 5/8 | 0.9 |
| 20 | TS1020 | 20 | 2.000 | 2.200 | B | 7/8 | 7/8 | 1 39/64 | 5/8 | 1.2 |
| 22 | TS1022 | 20 | 2.200 | 2.400 | B | 7/8 | 1 1/16 | 1 13/16 | 5/8 | 1.5 |
| 24 | TS1024 | 20 | 2.400 | 2.600 | B | 7/8 | 1 3/16 | 2 1/64 | 5/8 | 1.8 |
| 25 | TS1025 | 20 | 2.500 | 2.700 | B | 7/8 | 1 1/4 | 2 7/64 | 5/8 | 2.0 |
| 26 | TS1026 | 20 | 2.600 | 2.800 | B | 7/8 | 1 1/4 | 2 1/8 | 5/8 | 2.2 |
| 28 | TS1028 | 20 | 2.800 | 3.000 | B | 7/8 | 1 5/16 | 2 13/32 | 5/8 | 2.7 |
| 30 | TS1030 | 20 | 3.000 | 3.200 | B | 7/8 | 1 3/8 | 2 1/2 | 7/8 | 3.4 |
| 32 | TS1032 | 20 | 3.200 | 3.400 | B | 7/8 | 1 3/8 | 2 1/2 | 7/8 | 3.7 |
| 35 | TS1035 | 20 | 3.500 | 3.700 | B | 1 | 1 3/8 | 2 1/2 | 7/8 | 4.2 |
| 36 | TS1036 | 20 | 3.600 | 3.800 | B | 1 | 1 3/8 | 2 1/2 | 7/8 | 4.3 |
| 40 | TS1040 | 20 | 4.000 | 4.200 | B | 1 | 2 1/8 | 3 1/2 | 7/8 | 6.4 |
| 45 | TS1045 | 20 | 4.500 | 4.700 | B | 1 | 2 1/8 | 3 1/2 | 7/8 | 7.5 |
| 48 | TS1048 | 20 | 4.800 | 5.000 | B | 1 | 2 3/8 | 3 3/4 | 7/8 | 8.7 |
| 50 | TS1050 | 20 | 5.000 | 5.200 | B | 1 | 2 1/2 | 4 | 7/8 | 9.6 |
| 55 | TS1055 | 20 | 5.500 | 5.700 | B | 1 | 2 1/2 | 4 | 1 | 11.5 |
| 60 | TS1060 | 20 | 6.000 | 6.200 | B | 1 | 2 1/2 | 4 | 1 | 13.1 |

## Cast

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 70 | TC1070 | 20 | 7.000 | 7.200 | B3 | 1 | 1 11/16 | 2 3/4 | 1 | 8.2 |
| 80 | TC1080 | 20 | 8.000 | 8.200 | B3 | 1 | 1 11/16 | 2 3/4 | 1 | 11.2 |
| 90 | TC1090 | 20 | 9.000 | 9.200 | B3 | 1 | 1 13/16 | 3 | 1 | 11.7 |
| 100 | TC10100 | 20 | 10.000 | 10.200 | B3 | 1 1/8 | 1 13/16 | 3 | 1 1/8 | 12.2 |

## Bored-To-Size

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Setscrew | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Keyway | | Diameter | Projection | |
| 12 | TS1012BS 5/8 | 20 | 1.200 | 1.400 | B | 5/8 | 3/16 × 3/32 | (1) 10-24 @ 90 | 29/32 | 5/8 | 0.40 |
| 14 | TS1014BS 5/8 | 20 | 1.400 | 1.600 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 7/64 | 5/8 | 0.60 |
| 15 | TS1015BS 3/4 | 20 | 1.500 | 1.700 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 7/32 | 5/8 | 0.60 |
| 16 | TS1016BS 3/4 | 20 | 1.600 | 1.800 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 5/16 | 5/8 | 0.70 |
| 18 | TS1018BS 3/4 | 20 | 1.800 | 2.000 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 11/32 | 5/8 | 0.88 |
| 18 | TS1018BS 7/8 | 20 | 1.800 | 2.000 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 11/32 | 5/8 | 0.90 |
| 20 | TS1020BS 7/8 | 20 | 2.000 | 2.200 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 39/64 | 5/8 | 1.20 |
| 20 | TS1020BS 1 | 20 | 2.000 | 2.200 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 39/64 | 5/8 | 1.20 |
| 24 | TS1024BS 7/8 | 20 | 2.400 | 2.600 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 13/16 | 5/8 | 1.50 |
| 24 | TS1024BS 1 | 20 | 2.400 | 2.600 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 13/16 | 5/8 | 1.50 |
| 25 | TS1025BS 7/8 | 20 | 2.500 | 2.700 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 2 7/64 | 5/8 | 2.00 |
| 25 | TS1025BS 1 | 20 | 2.500 | 2.700 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 7/64 | 5/8 | 2.00 |
| 28 | TS1028BS 7/8 | 20 | 2.800 | 3.000 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 2 13/32 | 5/8 | 2.70 |
| 28 | TS1028BS 1 | 20 | 2.800 | 3.000 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 13/32 | 5/8 | 2.70 |

**20° P.A. gears will not operate with 14 1/2° P.A.**

* Recommended maximum bore with keyway and setscew.

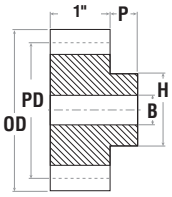
# Steel& Cast Stock Spur Gears

**20°Pressure Angle**

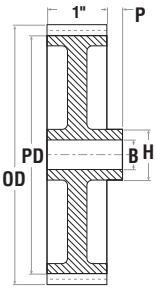
# 12 DP
## 1" Face

**Type B**
Plain with hubs

**Type $B_3$**
Spoke style




**Type B**




**Type $B_3$**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 12 | TS1212 | 20 | 1.000 | 1.167 | B | 1/2 | 1/2 | 3/4 | 5/8 | 0.21 |
| 13 | TS1213 | 20 | 1.083 | 1.250 | B | 5/8 | 5/8 | 13/16 | 5/8 | 0.21 |
| 14 | TS1214 | 20 | 1.167 | 1.333 | B | 5/8 | 5/8 | 29/32 | 5/8 | 0.28 |
| 15 | TS1215 | 20 | 1.250 | 1.417 | B | 5/8 | 5/8 | 63/64 | 5/8 | 0.34 |
| 16 | TS1216 | 20 | 1.333 | 1.500 | B | 5/8 | 5/8 | 1 1/16 | 5/8 | 0.41 |
| 18 | TS1218 | 20 | 1.500 | 1.667 | B | 3/4 | 3/4 | 1 1/4 | 5/8 | 0.51 |
| 19 | TS1219 | 20 | 1.583 | 1.750 | B | 3/4 | 3/4 | 1 5/16 | 5/8 | 0.59 |
| 20 | TS1220 | 20 | 1.667 | 1.833 | B | 3/4 | 3/4 | 1 5/16 | 5/8 | 0.65 |
| 21 | TS1221 | 20 | 1.750 | 1.917 | B | 3/4 | 13/16 | 1 25/64 | 5/8 | 0.75 |
| 22 | TS1222 | 20 | 1.833 | 2.000 | B | 3/4 | 7/8 | 1 9/16 | 5/8 | 0.88 |
| 24 | TS1224 | 20 | 2.000 | 2.166 | B | 3/4 | 15/16 | 1 41/64 | 5/8 | 1.06 |
| 25 | TS1225 | 20 | 2.083 | 2.250 | B | 3/4 | 1 1/16 | 1 13/16 | 5/8 | 1.22 |
| 26 | TS1226 | 20 | 2.167 | 2.333 | B | 3/4 | 1 1/8 | 1 7/8 | 5/8 | 1.33 |
| 28 | TS1228 | 20 | 2.333 | 2.500 | B | 3/4 | 1 1/4 | 2 1/16 | 5/8 | 1.60 |
| 30 | TS1230 | 20 | 2.500 | 2.667 | B | 3/4 | 1 5/16 | 2 5/32 | 5/8 | 1.83 |
| 32 | TS1232 | 20 | 2.667 | 2.833 | B | 3/4 | 1 5/16 | 2 1/4 | 5/8 | 2.08 |
| 36 | TS1236 | 20 | 3.000 | 3.167 | B | 3/4 | 1 3/8 | 2 1/2 | 7/8 | 2.98 |
| 42 | TS1242 | 20 | 3.500 | 3.666 | B | 3/4 | 1 3/8 | 2 1/2 | 7/8 | 3.71 |
| 48 | TS1248 | 20 | 4.000 | 4.166 | B | 7/8 | 1 7/8 | 3 | 7/8 | 4.99 |
| 54 | TS1254 | 20 | 4.500 | 4.666 | B | 7/8 | 2 1/8 | 3 1/2 | 7/8 | 6.57 |
| 60 | TS1260 | 20 | 5.000 | 5.166 | B | 7/8 | 2 1/8 | 3 1/2 | 7/8 | 7.63 |
| 66 | TS1266 | 20 | 5.500 | 5.666 | B | 7/8 | 2 1/8 | 3 1/2 | 7/8 | 8.80 |
| 72 | TS1272 | 20 | 6.000 | 6.166 | B | 7/8 | 2 1/8 | 3 1/2 | 7/8 | 10.08 |

## Cast

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 84 | TC1284 | 20 | 7.000 | 7.166 | B3 | 7/8 | 1 7/16 | 2 1/2 | 7/8 | 5.9 |
| 96 | TC1296 | 20 | 8.000 | 8.166 | B3 | 7/8 | 1 7/16 | 2 1/2 | 7/8 | 7.0 |
| 108 | TC12108 | 20 | 9.000 | 9.166 | B3 | 7/8 | 1 7/16 | 2 1/2 | 7/8 | 7.6 |
| 120 | TC12120 | 20 | 10.000 | 10.166 | B3 | 1 | 1 7/16 | 2 1/2 | 7/8 | 10.3 |
| 144 | TC12144 | 20 | 12.000 | 12.166 | B3 | 1 | 1 11/16 | 2 3/4 | 1 | 10.4 |

## Bored-To-Size

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Setscrew | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | | Diameter | Projection | |
| 12 | TS1212BS 1/2 | 20 | 1.000 | 1.167 | B | 1/2 | NONE | (1) 10-24 | 3/4 | 5/8 | 0.21 |
| 13 | TS1213BS 5/8 | 20 | 1.083 | 1.250 | B | 5/8 | NONE | (1) 1/4-20 @ 90 | 13/16 | 5/8 | 0.21 |
| 14 | TS1214BS 5/8 | 20 | 1.167 | 1.333 | B | 5/8 | 3/16 × 3/32 | (1) 10-24 @ 90 | 29/32 | 5/8 | 0.28 |
| 15 | TS1215BS 5/8 | 20 | 1.250 | 1.417 | B | 5/8 | 3/16 × 3/32 | (1) 10-24 @ 90 | 63/64 | 5/8 | 0.34 |
| 16 | TS1216BS 5/8 | 20 | 1.333 | 1.500 | B | 5/8 | 3/16 × 3/32 | (1)1/4-20 @ 90 | 1 1/16 | 5/8 | 0.41 |
| 18 | TS1218BS 3/4 | 20 | 1.500 | 1.667 | B | 3/4 | 3/16 × 3/32 | (1)1/4-20 @ 90 | 1 1/4 | 5/8 | 0.51 |
| 20 | TS1220BS 3/4 | 20 | 1.667 | 1.833 | B | 3/4 | 3/16 × 3/32 | (1)1/4-20 @ 90 | 1 5/16 | 5/8 | 0.65 |
| 21 | TS1221BS 3/4 | 20 | 1.750 | 1.917 | B | 3/4 | 3/16 × 3/32 | (1)1/4-20 @ 90 | 1 25/64 | 5/8 | 0.75 |
| 21 | TS1221BS 7/8 | 20 | 1.750 | 1.917 | B | 7/8 | 3/16 × 3/32 | (1)1/4-20 @ 90 | 1 25/64 | 5/8 | 0.75 |
| 24 | TS1224BS 3/4 | 20 | 2.000 | 2.167 | B | 3/4 | 3/16 × 3/32 | (1)1/4-20 @ 90 | 1 41/64 | 5/8 | 1.06 |
| 24 | TS1224BS 7/8 | 20 | 2.000 | 2.167 | B | 7/8 | 3/16 × 3/32 | (1)1/4-20 @ 90 | 1 41/64 | 5/8 | 1.06 |
| 24 | TS1224BS 1 | 20 | 2.000 | 2.167 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 41/64 | 5/8 | 1.06 |
| 28 | TS1228BS 3/4 | 20 | 2.333 | 2.500 | B | 3/4 | 3/16 × 3/32 | (1)1/4-20 @ 90 | 2 1/16 | 5/8 | 1.60 |
| 28 | TS1228BS 7/8 | 20 | 2.333 | 2.500 | B | 7/8 | 3/16 × 3/32 | (1)1/4-20 @ 90 | 2 1/16 | 5/8 | 1.60 |
| 28 | TS1228BS 1 | 20 | 2.333 | 2.500 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 2 1/16 | 5/8 | 1.60 |

**20° P.A. gears will not operate with 14 1/2° P.A.**

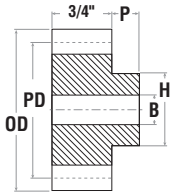
* Recommended maximum bore with keyway and setscew.

# 16 DP
## ¾" Face

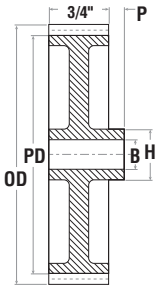
# Steel & Cast Stock Spur Gears
### 20°Pressure Angle

**Type B**
Plain with hubs

**Type $B_3$**
Spoke style




**Type B**




**Type $B_3$**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 12 | TS1612 | 20 | 0.750 | 0.875 | B | 3/8 | 3/8 | 9/16 | 1/2 | 0.09 |
| 13 | TS1613 | 20 | 0.812 | 0.938 | B | 3/8 | 3/8 | 5/8 | 1/2 | 0.11 |
| 14 | TS1614 | 20 | 0.875 | 1.000 | B | 3/8 | 3/8 | 11/16 | 1/2 | 0.14 |
| 15 | TS1615 | 20 | 0.937 | 1.063 | B | 3/8 | 1/2 | 3/4 | 1/2 | 0.17 |
| 16 | TS1616 | 20 | 1.000 | 1.125 | B | 1/2 | 1/2 | 13/16 | 1/2 | 0.17 |
| 17 | TS1617 | 20 | 1.062 | 1.188 | B | 1/2 | 1/2 | 7/8 | 1/2 | 0.20 |
| 18 | TS1618 | 20 | 1.125 | 1.250 | B | 1/2 | 1/2 | 15/16 | 1/2 | 0.24 |
| 20 | TS1620 | 20 | 1.250 | 1.375 | B | 5/8 | 5/8 | 11/16 | 1/2 | 0.28 |
| 21 | TS1621 | 20 | 1.312 | 1.438 | B | 5/8 | 5/8 | 11/8 | 1/2 | 0.32 |
| 22 | TS1622 | 20 | 1.375 | 1.500 | B | 5/8 | 5/8 | 13/16 | 1/2 | 0.36 |
| 24 | TS1624 | 20 | 1.500 | 1.625 | B | 5/8 | 3/4 | 15/16 | 1/2 | 0.46 |
| 26 | TS1626 | 20 | 1.625 | 1.750 | B | 5/8 | 7/8 | 1 7/16 | 1/2 | 0.56 |
| 28 | TS1628 | 20 | 1.750 | 1.875 | B | 5/8 | 7/8 | 1 1/2 | 1/2 | 0.65 |
| 30 | TS1630 | 20 | 1.875 | 2.000 | B | 5/8 | 15/16 | 1 5/8 | 1/2 | 0.77 |
| 32 | TS1632 | 20 | 2.000 | 2.125 | B | 5/8 | 1 | 1 3/4 | 1/2 | 0.90 |
| 36 | TS1636 | 20 | 2.250 | 2.375 | B | 5/8 | 1 1/4 | 2 | 1/2 | 1.18 |
| 40 | TS1640 | 20 | 2.500 | 2.625 | B | 5/8 | 1 1/4 | 2 | 5/8 | 1.48 |
| 48 | TS1648 | 20 | 3.000 | 3.125 | B | 5/8 | 1 1/4 | 2 | 5/8 | 1.94 |
| 56 | TS1656 | 20 | 3.500 | 3.625 | B | 5/8 | 1 3/8 | 2 1/2 | 5/8 | 2.79 |
| 60 | TS1660 | 20 | 3.750 | 3.875 | B | 5/8 | 1 1/2 | 2 3/4 | 5/8 | 3.28 |
| 64 | TS1664 | 20 | 4.000 | 4.125 | B | 3/4 | 1 1/2 | 2 3/4 | 3/4 | 3.74 |
| 72 | TS1672 | 20 | 4.500 | 4.625 | B | 3/4 | 1 7/8 | 3 | 3/4 | 4.69 |
| 80 | TS1680 | 20 | 5.000 | 5.125 | B | 3/4 | 2 1/8 | 3 1/2 | 3/4 | 6.03 |
| 84 | TS1684 | 20 | 5.250 | 5.375 | B | 3/4 | 2 1/8 | 3 1/2 | 3/4 | 6.46 |
| 96 | TS1696 | 20 | 6.000 | 6.125 | B | 3/4 | 2 1/8 | 3 1/2 | 3/4 | 7.86 |

## Cast

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 112 | TC16112 | 20 | 7.000 | 7.125 | B3 | 3/4 | 1 7/16 | 2 1/2 | 3/4 | 4.4 |
| 128 | TC16128 | 20 | 8.000 | 8.125 | B3 | 3/4 | 1 11/16 | 2 3/4 | 3/4 | 5.5 |
| 144 | TC16144 | 20 | 9.000 | 9.125 | B3 | 3/4 | 1 11/16 | 2 3/4 | 3/4 | 6.4 |
| 160 | TC16160 | 20 | 10.000 | 10.125 | B3 | 7/8 | 1 11/16 | 2 3/4 | 3/4 | 8.1 |
| 192 | TC16192 | 20 | 12.000 | 12.125 | B3 | 7/8 | 1 13/16 | 3 | 1 | 10.1 |

## Bored-To-Size

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Setscrew | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | | Diameter | Projection | |
| 12 | TS1612BS 3/8 | 20 | 0.750 | 0.875 | B | 3/8 | NONE | (1) 8-32 | 9/16 | 1/2 | 0.09 |
| 14 | TS1614BS 3/8 | 20 | 0.875 | 1.000 | B | 3/8 | NONE | (1) 10-24 | 11/16 | 1/2 | 0.14 |
| 15 | TS1615BS 3/8 | 20 | 0.937 | 1.063 | B | 3/8 | NONE | (1) 10-24 | 3/4 | 1/2 | 0.17 |
| 15 | TS1615BS 1/2 | 20 | 0.937 | 1.063 | B | 1/2 | NONE | (1) 10-24 | 3/4 | 1/2 | 0.17 |
| 16 | TS1616BS 1/2 | 20 | 1.000 | 1.125 | B | 1/2 | NONE | (1) 10-24 | 13/16 | 1/2 | 0.17 |
| 18 | TS1618BS 1/2 | 20 | 1.125 | 1.250 | B | 1/2 | NONE | (1) 1/4-20 | 15/16 | 1/2 | 0.24 |
| 20 | TS1620BS 5/8 | 20 | 1.250 | 1.375 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 1/16 | 1/2 | 0.28 |
| 24 | TS1624BS 5/8 | 20 | 1.500 | 1.625 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 5/16 | 1/2 | 0.46 |
| 24 | TS1624BS 3/4 | 20 | 1.500 | 1.625 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 5/16 | 1/2 | 0.46 |
| 28 | TS1628BS 5/8 | 20 | 1.750 | 1.875 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 1/2 | 1/2 | 0.65 |
| 28 | TS1628BS 3/4 | 20 | 1.750 | 1.875 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 1/2 | 1/2 | 0.65 |
| 30 | TS1630BS 5/8 | 20 | 1.875 | 2.000 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 5/8 | 1/2 | 0.77 |
| 30 | TS1630BS 3/4 | 20 | 1.875 | 2.000 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 5/8 | 1/2 | 0.77 |
| 30 | TS1630BS 7/8 | 20 | 1.875 | 2.000 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 5/8 | 1/2 | 0.77 |
| 32 | TS1632BS 5/8 | 20 | 2.000 | 2.125 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 3/4 | 1/2 | 0.90 |
| 32 | TS1632BS 3/4 | 20 | 2.000 | 2.125 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 3/4 | 1/2 | 0.90 |
| 32 | TS1632BS 7/8 | 20 | 2.000 | 2.125 | B | 7/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 3/4 | 1/2 | 0.90 |
| 32 | TS1632BS 1 | 20 | 2.000 | 2.125 | B | 1 | 1/4 × 1/8 | (1) 5/16-18 @ 90 | 1 3/4 | 1/2 | 0.90 |

**20° P.A. gears will not operate with 14 1/2° P.A.**

* Recommended maximum bore with keyway and setscew.

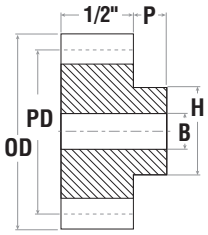
# Steel Stock Spur Gears

**20°Pressure Angle**

# 20 DP

## ½" Face

**Type B**
Plain with hubs




**Type B**

## Steel

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Max.* | Diameter | Projection | |
| 12 | TS2012 | 20 | 0.600 | 0.700 | B | 5/16 | 5/16 | 15/32 | 7/16 | 0.04 |
| 14 | TS2014 | 20 | 0.700 | 0.800 | B | 5/16 | 5/16 | 35/64 | 7/16 | 0.06 |
| 15 | TS2015 | 20 | 0.750 | 0.850 | B | 3/8 | 3/8 | 39/64 | 7/16 | 0.07 |
| 16 | TS2016 | 20 | 0.800 | 0.900 | B | 3/8 | 3/8 | 21/32 | 7/16 | 0.08 |
| 18 | TS2018 | 20 | 0.900 | 1.000 | B | 3/8 | 3/8 | 3/4 | 7/16 | 0.12 |
| 20 | TS2020 | 20 | 1.000 | 1.100 | B | 1/2 | 1/2 | 55/64 | 7/16 | 0.13 |
| 21 | TS2021 | 20 | 1.050 | 1.150 | B | 1/2 | 1/2 | 7/8 | 7/16 | 0.15 |
| 22 | TS2022 | 20 | 1.100 | 1.200 | B | 1/2 | 1/2 | 31/32 | 7/16 | 0.17 |
| 24 | TS2024 | 20 | 1.200 | 1.300 | B | 1/2 | 9/16 | 1 1/16 | 7/16 | 0.22 |
| 25 | TS2025 | 20 | 1.250 | 1.350 | B | 1/2 | 5/8 | 1 7/64 | 7/16 | 0.24 |
| 28 | TS2028 | 20 | 1.400 | 1.500 | B | 1/2 | 11/16 | 1 17/64 | 7/16 | 0.32 |
| 30 | TS2030 | 20 | 1.500 | 1.600 | B | 1/2 | 13/16 | 1 23/64 | 7/16 | 0.38 |
| 32 | TS2032 | 20 | 1.600 | 1.700 | B | 1/2 | 7/8 | 1 7/16 | 1/2 | 0.46 |
| 35 | TS2035 | 20 | 1.750 | 1.850 | B | 1/2 | 7/8 | 1 9/16 | 1/2 | 0.56 |
| 36 | TS2036 | 20 | 1.800 | 1.900 | B | 1/2 | 15/16 | 1 5/8 | 1/2 | 0.60 |
| 40 | TS2040 | 20 | 2.000 | 2.100 | B | 1/2 | 1 1/16 | 1 13/16 | 1/2 | 0.76 |
| 45 | TS2045 | 20 | 2.250 | 2.350 | B | 1/2 | 1 1/4 | 2 | 1/2 | 0.95 |
| 50 | TS2050 | 20 | 2.500 | 2.600 | B | 1/2 | 1 1/4 | 2 | 1/2 | 1.08 |
| 60 | TS2060 | 20 | 3.000 | 3.100 | B | 1/2 | 1 5/16 | 2 1/8 | 1/2 | 1.45 |
| 70 | TS2070 | 20 | 3.500 | 3.600 | B | 1/2 | 1 7/16 | 2 3/8 | 1/2 | 1.93 |
| 72 | TS2072 | 20 | 3.600 | 3.700 | B | 1/2 | 1 7/16 | 2 3/8 | 1/2 | 2.01 |
| 80 | TS2080 | 20 | 4.000 | 4.100 | B | 5/8 | 1 1/2 | 2 1/2 | 5/8 | 2.35 |
| 84 | TS2084 | 20 | 4.200 | 4.300 | B | 5/8 | 1 1/2 | 2 1/2 | 5/8 | 2.53 |
| 90 | TS2090 | 20 | 4.500 | 4.600 | B | 5/8 | 1 1/2 | 2 1/2 | 5/8 | 2.82 |
| 96 | TS2096 | 20 | 4.800 | 4.900 | B | 5/8 | 1 1/2 | 2 1/2 | 5/8 | 3.14 |
| 100 | TS20100 | 20 | 5.000 | 5.100 | B | 5/8 | 1 1/2 | 2 1/2 | 5/8 | 3.35 |
| 120 | TS20120 | 20 | 6.000 | 6.100 | B | 5/8 | 1 1/2 | 2 1/2 | 5/8 | 4.58 |

## Bored-To-Size

| No. Teeth | Part Number | Pressure Angle | Diameter | | Type | Bore (Inches) | | Setscrew | Hub (Inches) | | Weight Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | Outside | | Stock | Keyway | | Diameter | Projection | |
| 12 | TS2012BS 5/16 | 20 | 0.600 | 0.700 | B | 5/16 | NONE | #35 P.H. | 15/32 | 7/16 | 0.04 |
| 14 | TS2014BS 5/16 | 20 | 0.700 | 0.800 | B | 5/16 | NONE | #35 P.H. | 35/64 | 7/16 | 0.06 |
| 15 | TS2015BS 3/8 | 20 | 0.750 | 0.850 | B | 3/8 | NONE | (1) 8-32 | 39/64 | 7/16 | 0.07 |
| 16 | TS2016BS 3/8 | 20 | 0.800 | 0.900 | B | 3/8 | NONE | (1) 8-32 | 21/32 | 7/16 | 0.08 |
| 18 | TS2018BS 3/8 | 20 | 0.900 | 1.000 | B | 3/8 | NONE | (1) 10-24 | 3/4 | 7/16 | 0.12 |
| 20 | TS2020BS 1/2 | 20 | 1.000 | 1.100 | B | 1/2 | NONE | (1) 10-24 | 55/64 | 7/16 | 0.13 |
| 24 | TS2024BS 1/2 | 20 | 1.200 | 1.300 | B | 1/2 | NONE | (1) 1/4-20 | 1 1/16 | 7/16 | 0.22 |
| 25 | TS2025BS 1/2 | 20 | 1.250 | 1.350 | B | 1/2 | NONE | (1) 1/4-20 | 1 7/64 | 7/16 | 0.24 |
| 30 | TS2030BS 1/2 | 20 | 1.500 | 1.600 | B | 1/2 | NONE | (1) 1/4-20 | 1 23/64 | 7/16 | 0.38 |
| 35 | TS2035BS 1/2 | 20 | 1.750 | 1.850 | B | 1/2 | NONE | (1) 1/4-20 | 1 9/16 | 1/2 | 0.56 |
| 40 | TS2040BS 1/2 | 20 | 2.000 | 2.100 | B | 1/2 | NONE | (1) 1/4-20 | 1 13/16 | 1/2 | 0.76 |
| 40 | TS2040BS 5/8 | 20 | 2.000 | 2.100 | B | 5/8 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 13/16 | 1/2 | 0.76 |
| 40 | TS2040BS 3/4 | 20 | 2.000 | 2.100 | B | 3/4 | 3/16 × 3/32 | (1) 1/4-20 @ 90 | 1 13/16 | 1/2 | 0.76 |

**20° P.A. gears will not operate with 14 1/2° P.A.**

* Recommended maximum bore with keyway and setscew.

# 20° Horsepower Ratings (Approximate)

## For Class I Service (Service Factor = 1.0)

**4 Diametral Pitch** **20° Pressure Angle** **3 1/2" Face**

| No. Teeth | 25 RPM | | 50 RPM | | 100 RPM | | 200 RPM | | 300 RPM | | 500 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 11 | 2.62 | | 5.09 | | 9.64 | | 17.41 | | 23.81 | | 33.72 | | 37.64 | | 46.69 | | 53.06 | |
| 12 • | 3.10 | | 6.02 | | 11.40 | | 20.59 | | 28.15 | | 39.88 | | 44.52 | | 55.21 | | 62.75 | |
| 13 | 3.62 | | 7.03 | | 13.30 | | 24.03 | | 32.86 | | 46.55 | | 51.97 | | 64.45 | | 73.25 | |
| 14 • | 4.07 | | 7.91 | | 14.98 | | 27.06 | | 37.00 | | 52.41 | | 58.51 | | 72.57 | | 82.48 | |
| 15 • | 4.57 | | 8.88 | | 16.80 | | 30.35 | | 41.51 | | 58.80 | | 65.64 | | 81.41 | | 92.53 | |
| 16 • | 4.97 | | 9.67 | | 18.30 | | 33.05 | | 45.20 | | 64.03 | | 71.47 | | 88.64 | | 100.75 | |
| 17 | 5.41 | | 10.51 | | 19.90 | | 35.95 | | 49.16 | | 69.64 | | 77.74 | | 96.42 | | | |
| 18 • | 5.84 | | 11.35 | | 21.49 | | 38.82 | | 53.09 | | 75.20 | | 83.95 | | 104.12 | | | |
| 19 | 6.29 | | 12.22 | | 23.13 | | 41.77 | | 57.13 | | 80.93 | | 90.33 | | 112.04 | | | |
| 20 • | 6.74 | | 13.11 | | 24.81 | | 44.81 | | 61.29 | | 86.81 | | 96.91 | | | | | |
| 21 | 7.19 | | 13.98 | | 26.46 | | 47.79 | | 65.36 | | 92.58 | | 103.34 | | | | | |
| 22 • | 7.65 | | 14.87 | | 28.14 | | 50.83 | | 69.52 | | 98.48 | | 109.93 | | | | | |
| 24 • | 8.52 | | 16.56 | | 31.35 | | 56.63 | | 77.45 | | 109.71 | | 122.47 | | | | | |
| 25 | 8.96 | | 17.41 | | 32.95 | | 59.52 | | 81.39 | | 115.30 | | 128.70 | | | | | |
| 26 | 9.43 | | 18.32 | | 34.67 | | 62.63 | | 85.65 | | 121.32 | | 135.43 | | | | | |
| 27 | 9.90 | | 19.24 | | 36.42 | | 65.79 | | 89.97 | | 127.45 | | 142.27 | | | | | |
| 28 • | 10.39 | | 20.18 | | 38.21 | | 69.01 | | 94.38 | | 133.69 | | 149.24 | | | | | |
| 30 • | 11.32 | | 22.00 | | 41.63 | | 75.20 | | 102.84 | | 145.69 | | | | | | | |
| 32 • | 12.27 | | 23.85 | | 45.15 | | 81.56 | | 111.54 | | 158.00 | | | | | | | |
| 33 | 12.76 | | 24.80 | | 46.95 | | 84.80 | | 115.97 | | 164.28 | | | | | | | |
| 35 | 13.79 | | 26.81 | | 50.74 | | 91.66 | | 125.35 | | 177.56 | | | | | | | |
| 36 • | 14.30 | | 27.79 | | 52.61 | | 95.03 | | 129.96 | | 184.10 | | | | | | | |
| 40 • | 16.40 | | 31.87 | | 60.32 | | 108.95 | | 149.00 | | | | | | | | | |
| 42 | 17.39 | | 33.80 | | 63.98 | | 115.58 | | 158.06 | | | | | | | | | |
| 44 • | 18.41 | | 35.77 | | 67.71 | | 122.31 | | 167.27 | | | | | | | | | |
| 45 | 18.92 | | 36.77 | | 69.60 | | 125.72 | | 171.93 | | | | | | | | | |
| 48 • | 20.54 | | 39.91 | | 75.54 | | 136.46 | | 186.61 | | | | | | | | | |
| 50 | 21.50 | | 41.78 | | 79.08 | | 142.84 | | 195.35 | | | | | | | | | |
| 52 | 22.52 | | 43.77 | | 82.85 | | 149.65 | | 204.66 | | | | | | | | | |
| 54 | 23.56 | | 45.78 | | 86.66 | | 156.54 | | 214.08 | | | | | | | | | |
| 55 | 24.00 | | 46.63 | | 88.26 | | 159.44 | | 218.04 | | | | | | | | | |
| 56 • | 24.49 | | 47.59 | | 90.09 | | 162.73 | | | | | | | ALL STEEL | | | | |
| 60 • | 26.62 | | 51.73 | | 97.92 | | 176.87 | | | | | | | | | | | |
| 64 • | 28.60 | | 55.57 | | 105.19 | | 190.01 | | | | | | | | | | | |
| 66 | 29.63 | | 57.58 | | 108.99 | | 196.87 | | | | | | | | | | | |
| 70 | 31.65 | | 61.50 | | 116.41 | | 210.27 | | | | | | | | | | | |
| 72 • | 32.55 | | 63.26 | | 119.73 | | 216.28 | | | | | | | | | | | |
| 80 • | 36.76 | | 71.43 | | 135.21 | | 244.23 | | | | | | | | | | | |
| 84 | 38.86 | | 75.52 | | 142.94 | | 258.21 | | | | | | | | | | | |
| 88 | 40.80 | | 79.30 | | 150.09 | | | | | | | | | | | | | |
| 90 | 41.83 | | 81.28 | | 153.85 | | | | | | | | | | | | | |
| 96 | 44.92 | | 87.29 | | 165.23 | | | | | | | | | | | | | |
| 100 | 46.90 | | 91.13 | | 172.50 | | | | | | | | | | | | | |
| 108 | 50.87 | | 98.87 | | 187.14 | | | | | | | | | | | | | |
| 110 | 51.93 | | 100.92 | | 191.03 | | | | | | | | | | | | | |
| 112 | 52.88 | | 102.76 | | 194.50 | | | | | | | | | | | | | |
| 120 | 57.03 | | 110.84 | | 209.79 | | | | | | | | | | | | | |
| 144 | 54.18 | | 105.28 | | 199.28 | | | | | | | | | | | | | |
| 160 | 77.39 | | 150.40 | | 284.68 | | | | | | | | | | | | | |
| 200 | 97.58 | | 189.64 | | 358.95 | | | | | | | | | | | | | |

Ratings are based on strength calculation. • Designates stock sizes for this pitch.

Note: 1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of cast iron or steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

# 20° Horsepower Ratings (Approximate)

## For Class I Service (Service Factor = 1.0)

**5 Diametral Pitch** **20° Pressure Angle** **2 1/2" Face**

| No. Teeth | 25 RPM | | 50 RPM | | 100 RPM | | 200 RPM | | 300 RPM | | 500 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 11 • | 1.20 | | 2.35 | | 4.50 | | 8.28 | | 11.49 | | 16.67 | | 18.78 | | 23.82 | | 27.50 | | 32.54 | |
| 12 | 1.42 | | 2.78 | | 5.32 | | 9.79 | | 13.59 | | 19.71 | | 22.21 | | 28.17 | | 32.53 | | | |
| 13 • | 1.66 | | 3.25 | | 6.21 | | 11.43 | | 15.86 | | 23.01 | | 25.93 | | 32.88 | | 37.97 | | | |
| 14 • | 1.87 | | 3.66 | | 7.00 | | 12.87 | | 17.86 | | 25.90 | | 29.19 | | 37.02 | | 42.75 | | | |
| 15 • | 2.10 | | 4.10 | | 7.85 | | 14.44 | | 20.04 | | 29.06 | | 32.75 | | 41.53 | | 47.96 | | | |
| 16 | 2.29 | | 4.47 | | 8.55 | | 15.72 | | 21.82 | | 31.64 | | 35.66 | | 45.22 | | 52.22 | | | |
| 17 • | 2.49 | | 4.86 | | 9.30 | | 17.10 | | 23.73 | | 34.42 | | 38.79 | | 49.19 | | 56.80 | | | |
| 18 | 2.69 | | 5.25 | | 10.04 | | 18.46 | | 25.63 | | 37.17 | | 41.88 | | 53.11 | | 61.34 | | | |
| 19 • | 2.89 | | 5.65 | | 10.80 | | 19.87 | | 27.58 | | 40.00 | | 45.07 | | 57.16 | | 66.01 | | | |
| 20 | 3.10 | | 6.06 | | 11.59 | | 21.31 | | 29.58 | | 42.91 | | 48.35 | | 61.31 | | | | | |
| 21 | 3.31 | | 6.46 | | 12.36 | | 22.73 | | 31.55 | | 45.76 | | 51.56 | | 65.39 | | | | | |
| 22 • | 3.52 | | 6.87 | | 13.15 | | 24.18 | | 33.56 | | 48.67 | | 54.85 | | 69.55 | | | | | |
| 24 • | 3.92 | | 7.66 | | 14.65 | | 26.93 | | 37.39 | | 54.22 | | 61.10 | | 77.49 | | | | | |
| 25 | 4.12 | | 8.05 | | 15.39 | | 28.30 | | 39.29 | | 56.98 | | 64.21 | | 81.43 | | | | | |
| 26 | 4.33 | | 8.47 | | 16.20 | | 29.78 | | 41.34 | | 59.96 | | 67.57 | | | | | | | |
| 27 • | 4.55 | | 8.90 | | 17.02 | | 31.29 | | 43.43 | | 62.99 | | 70.98 | | | | | | | |
| 28 • | 4.78 | | 9.33 | | 17.85 | | 32.82 | | 45.56 | | 66.08 | | 74.46 | | | | | | | |
| 30 | 5.20 | | 10.17 | | 19.45 | | 35.76 | | 49.64 | | 72.00 | | 81.14 | | | | | | | |
| 32 | 5.64 | | 11.03 | | 21.09 | | 38.79 | | 53.84 | | 78.09 | | 88.00 | | | | | | | |
| 33 • | 5.87 | | 11.47 | | 21.93 | | 40.33 | | 55.98 | | 81.19 | | 91.49 | | | | | | | |
| 35 | 6.34 | | 12.40 | | 23.70 | | 43.59 | | 60.51 | | 87.76 | | 98.89 | | | | | | | |
| 36 • | 6.58 | | 12.85 | | 24.58 | | 45.19 | | 62.73 | | 90.99 | | | | | | | | | |
| 40 | 7.54 | | 14.73 | | 28.18 | | 51.81 | | 71.92 | | 104.32 | | | | | | | | | |
| 42 | 8.00 | | 15.63 | | 29.89 | | 54.96 | | 76.30 | | 110.66 | | | | | | | | | |
| 44 • | 8.46 | | 16.54 | | 31.63 | | 58.17 | | 80.74 | | 117.11 | | | | | | | | | |
| 45 | 8.70 | | 17.00 | | 32.51 | | 59.79 | | 82.99 | | | | | | | | | | | |
| 48 • | 9.44 | | 18.45 | | 35.29 | | 64.89 | | 90.08 | | | | | | | | | | | |
| 50 | 9.89 | | 19.32 | | 36.94 | | 67.93 | | 94.30 | | | | | | | | | | | |
| 52 | 10.36 | | 20.24 | | 38.70 | | 71.17 | | 98.79 | | | | | | | | | | | |
| 54 | 10.83 | | 21.17 | | 40.48 | | 74.44 | | 103.34 | | | | | | | | | | | |
| 55 | 11.03 | | 21.56 | | 41.23 | | 75.82 | | 105.25 | | | | | | | | | | | |
| 56 • | 11.26 | | 22.01 | | 42.08 | | 77.39 | | 107.42 | | | | | ALL STEEL | | | | | | |
| 60 | 12.24 | | 23.92 | | 45.74 | | 84.11 | | 116.76 | | | | | | | | | | | |
| 64 | 13.15 | | 25.70 | | 49.14 | | 90.36 | | 125.43 | | | | | | | | | | | |
| 66 • | 13.62 | | 26.62 | | 50.91 | | 93.62 | | 129.96 | | | | | | | | | | | |
| 70 | 14.55 | | 28.44 | | 54.38 | | 100.00 | | 138.81 | | | | | | | | | | | |
| 72 • | 14.97 | | 29.25 | | 55.93 | | 102.85 | | | | | | | | | | | | | |
| 80 | 16.90 | | 33.03 | | 63.16 | | 116.15 | | | | | | | | | | | | | |
| 84 | 17.87 | | 34.92 | | 66.78 | | 122.79 | | | | | | | | | | | | | |
| 88 • | 18.76 | | 36.67 | | 70.12 | | 128.93 | | | | | | | | | | | | | |
| 90 | 19.23 | | 37.58 | | 71.87 | | 132.16 | | | | | | | | | | | | | |
| 96 • | 20.65 | | 40.36 | | 77.19 | | 141.93 | | | | | | | | | | | | | |
| 100 | 21.56 | | 42.14 | | 80.58 | | | | | | | | | | | | | | | |
| 108 • | 23.39 | | 45.71 | | 87.42 | | | | | | | | | | | | | | | |
| 110 | 23.88 | | 46.67 | | 89.24 | | | | | | | | | | | | | | | |
| 112 • | 24.31 | | 47.51 | | | | | | | | | | | | | | | | | |
| 120 | 26.23 | | 51.25 | | | | | | | | | | | | | | | | | |
| 144 | 24.91 | | 48.68 | | | | | | | | | | | | | | | | | |
| 160 | 35.59 | | 69.54 | | | | | | | | | | | | | | | | | |
| 200 | 44.87 | | 87.69 | | | | | | | | | | | | | | | | | |

Ratings are based on strength calculation. • Designates stock sizes for this pitch.

Note: 1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of cast iron or steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

# 20° Horsepower Ratings (Approximate)

## For Class I Service (Service Factor = 1.0)

**6 Diametral Pitch** **20° Pressure Angle** **2" Face**

| No. Teeth | 25 RPM | | 50 RPM | | 100 RPM | | 200 RPM | | 300 RPM | | 500 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 11 • | 0.67 | | 1.32 | | 2.54 | | 4.73 | | 6.63 | | 9.79 | | 11.11 | | 14.34 | | 16.78 | | 20.21 | |
| 12 • | 0.79 | | 1.56 | | 3.00 | | 5.59 | | 7.84 | | 11.58 | | 13.14 | | 16.96 | | 19.84 | | 23.91 | |
| 13 | 0.93 | | 1.82 | | 3.50 | | 6.52 | | 9.15 | | 13.51 | | 15.34 | | 19.80 | | 23.16 | | 27.91 | |
| 14 • | 1.04 | | 2.05 | | 3.94 | | 7.35 | | 10.31 | | 15.21 | | 17.27 | | 22.29 | | 26.08 | | 31.42 | |
| 15 • | 1.17 | | 2.30 | | 4.43 | | 8.24 | | 11.56 | | 17.07 | | 19.37 | | 25.01 | | 29.26 | | 35.25 | |
| 16 • | 1.28 | | 2.50 | | 4.82 | | 8.97 | | 12.59 | | 18.58 | | 21.10 | | 27.23 | | 31.85 | | 38.38 | |
| 17 | 1.39 | | 2.72 | | 5.24 | | 9.76 | | 13.69 | | 20.21 | | 22.95 | | 29.61 | | 34.65 | | | |
| 18 • | 1.50 | | 2.94 | | 5.66 | | 10.54 | | 14.79 | | 21.83 | | 24.78 | | 31.98 | | 37.42 | | | |
| 19 | 1.61 | | 3.16 | | 6.09 | | 11.34 | | 15.91 | | 23.49 | | 26.66 | | 34.41 | | 40.26 | | | |
| 20 | 1.73 | | 3.39 | | 6.53 | | 12.17 | | 17.07 | | 25.20 | | 28.60 | | 36.92 | | 43.19 | | | |
| 21 • | 1.84 | | 3.62 | | 6.97 | | 12.97 | | 18.21 | | 26.87 | | 30.50 | | 39.37 | | 46.06 | | | |
| 22 | 1.96 | | 3.85 | | 7.41 | | 13.80 | | 19.37 | | 28.59 | | 32.45 | | 41.88 | | 49.00 | | | |
| 24 • | 2.19 | | 4.29 | | 8.26 | | 15.38 | | 21.57 | | 31.85 | | 36.15 | | 46.65 | | 54.59 | | | |
| 25 | 2.30 | | 4.51 | | 8.68 | | 16.16 | | 22.67 | | 33.47 | | 37.99 | | 49.03 | | | | | |
| 26 | 2.42 | | 4.74 | | 9.13 | | 17.00 | | 23.86 | | 35.22 | | 39.97 | | 51.59 | | | | | |
| 27 • | 2.54 | | 4.98 | | 9.59 | | 17.86 | | 25.06 | | 37.00 | | 41.99 | | 54.20 | | | | | |
| 28 | 2.66 | | 5.22 | | 10.06 | | 18.74 | | 26.29 | | 38.81 | | 44.05 | | 56.85 | | | | | |
| 30 • | 2.90 | | 5.69 | | 10.97 | | 20.42 | | 28.65 | | 42.29 | | 48.00 | | 61.95 | | | | | |
| 32 | 3.15 | | 6.17 | | 11.89 | | 22.14 | | 31.07 | | 45.86 | | 52.06 | | | | | | | |
| 33 • | 3.27 | | 6.42 | | 12.36 | | 23.02 | | 32.31 | | 47.69 | | 54.13 | | | | | | | |
| 35 | 3.54 | | 6.94 | | 13.36 | | 24.88 | | 34.92 | | 51.54 | | 58.50 | | | | | | | |
| 36 • | 3.67 | | 7.19 | | 13.86 | | 25.80 | | 36.20 | | 53.44 | | 60.66 | | | | | | | |
| 40 | 4.21 | | 8.25 | | 15.89 | | 29.58 | | 41.51 | | 61.27 | | 69.54 | | | | | | | |
| 42 • | 4.46 | | 8.75 | | 16.85 | | 31.38 | | 44.03 | | 64.99 | | 73.77 | | | | | | | |
| 44 | 4.72 | | 9.26 | | 17.83 | | 33.21 | | 46.59 | | 68.78 | | 78.07 | | | | | | | |
| 45 | 4.85 | | 9.52 | | 18.33 | | 34.13 | | 47.89 | | 70.70 | | 80.25 | | | | | | | |
| 48 • | 5.27 | | 10.33 | | 19.90 | | 37.05 | | 51.98 | | 76.73 | | | | | | | | | |
| 50 | 5.51 | | 10.81 | | 20.83 | | 38.78 | | 54.42 | | 80.32 | | | | | | | | | |
| 52 | 5.78 | | 11.33 | | 21.82 | | 40.63 | | 57.01 | | 84.15 | | | | | | | | | |
| 54 • | 6.04 | | 11.85 | | 22.82 | | 42.50 | | 59.63 | | 88.02 | | | | | | | | | |
| 55 | 6.15 | | 12.07 | | 23.25 | | 43.29 | | 60.74 | | | | | | | | | | | |
| 56 | 6.28 | | 12.32 | | 23.73 | | 44.18 | | 61.99 | | | | | | | ALL STEEL | | | | |
| 60 • | 6.83 | | 13.39 | | 25.79 | | 48.02 | | 67.38 | | | | | | | | | | | |
| 64 • | 7.33 | | 14.39 | | 27.70 | | 51.59 | | 72.38 | | | | | | | | | | | |
| 66 • | 7.60 | | 14.91 | | 28.71 | | 53.45 | | 75.00 | | | | | | | | | | | |
| 70 | 8.12 | | 15.92 | | 30.66 | | 57.09 | | 80.10 | | | | | | | | | | | |
| 72 • | 8.35 | | 16.37 | | 31.54 | | 58.72 | | 82.39 | | | | | | | | | | | |
| 80 | 9.43 | | 18.49 | | 35.61 | | 66.31 | | 93.04 | | | | | | | | | | | |
| 84 • | 9.97 | | 19.55 | | 37.65 | | 70.10 | | 98.36 | | | | | | | | | | | |
| 88 | 10.46 | | 20.53 | | 39.53 | | 73.61 | | 103.28 | | | | | | | | | | | |
| 90 | 10.73 | | 21.04 | | 40.52 | | 75.45 | | | | | | | | | | | | | |
| 96 • | 11.52 | | 22.60 | | 43.52 | | 81.03 | | | | | | | | | | | | | |
| 100 | 12.03 | | 23.59 | | 45.43 | | 84.60 | | | | | | | | | | | | | |
| 108 • | 13.05 | | 25.59 | | 49.29 | | 91.77 | | | | | | | | | | | | | |
| 110 | 13.32 | | 26.12 | | 50.31 | | 93.68 | | | | | | | | | | | | | |
| 112 | 13.56 | | 26.60 | | 51.23 | | 95.39 | | | | | | | | | | | | | |
| 120 • | 14.63 | | 28.69 | | 55.25 | | | | | | | | | | | | | | | |
| 144 | 13.89 | | 27.25 | | 52.49 | | | | | | | | | | | | | | | |
| 160 | 19.85 | | 38.93 | | 74.98 | | | | | | | | | | | | | | | |
| 200 | 25.03 | | 49.09 | | 94.54 | | | | | | | | | | | | | | | |

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of cast iron or steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

# 20° Horsepower Ratings (Approximate)

**For Class I Service (Service Factor = 1.0)**

**8 Diametral Pitch** **20° Pressure Angle** **1 1/2" Face**

| No. Teeth | 25 RPM | | 50 RPM | | 100 RPM | | 200 RPM | | 300 RPM | | 500 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 11 | 0.28 | | 0.56 | | 1.09 | | 2.06 | | 2.94 | | 4.45 | | 5.10 | | 6.76 | | 8.07 | | 10.00 | |
| 12 • | 0.34 | | 0.66 | | 1.29 | | 2.44 | | 3.48 | | 5.26 | | 6.03 | | 7.99 | | 9.54 | | 11.83 | |
| 13 | 0.39 | | 0.78 | | 1.51 | | 2.85 | | 4.06 | | 6.14 | | 7.04 | | 9.33 | | 11.14 | | 13.81 | |
| 14 • | 0.44 | | 0.87 | | 1.70 | | 3.21 | | 4.57 | | 6.91 | | 7.93 | | 10.50 | | 12.54 | | 15.55 | |
| 15 • | 0.50 | | 0.98 | | 1.90 | | 3.60 | | 5.13 | | 7.76 | | 8.90 | | 11.78 | | 14.07 | | 17.45 | |
| 16 • | 0.54 | | 1.07 | | 2.07 | | 3.92 | | 5.58 | | 8.44 | | 9.69 | | 12.83 | | 15.31 | | 18.99 | |
| 17 | 0.59 | | 1.16 | | 2.25 | | 4.26 | | 6.07 | | 9.18 | | 10.53 | | 13.95 | | 16.66 | | 20.66 | |
| 18 • | 0.64 | | 1.25 | | 2.43 | | 4.61 | | 6.56 | | 9.92 | | 11.38 | | 15.07 | | 17.99 | | 22.31 | |
| 19 • | 0.68 | | 1.35 | | 2.62 | | 4.96 | | 7.06 | | 10.67 | | 12.24 | | 16.22 | | 19.36 | | 24.01 | |
| 20 • | 0.73 | | 1.45 | | 2.81 | | 5.32 | | 7.57 | | 11.45 | | 13.13 | | 17.40 | | 20.77 | | 25.76 | |
| 21 | 0.78 | | 1.54 | | 3.00 | | 5.67 | | 8.07 | | 12.21 | | 14.00 | | 18.55 | | 22.14 | | | |
| 22 • | 0.83 | | 1.64 | | 3.19 | | 6.03 | | 8.59 | | 12.99 | | 14.90 | | 19.73 | | 23.56 | | | |
| 24 • | 0.93 | | 1.83 | | 3.55 | | 6.72 | | 9.56 | | 14.47 | | 16.60 | | 21.98 | | 26.24 | | | |
| 25 | 0.97 | | 1.92 | | 3.73 | | 7.06 | | 10.05 | | 15.21 | | 17.44 | | 23.10 | | 27.58 | | | |
| 26 • | 1.02 | | 2.02 | | 3.93 | | 7.43 | | 10.58 | | 16.00 | | 18.35 | | 24.31 | | 29.02 | | | |
| 27 | 1.08 | | 2.12 | | 4.12 | | 7.80 | | 11.11 | | 16.81 | | 19.28 | | 25.54 | | 30.49 | | | |
| 28 • | 1.13 | | 2.23 | | 4.33 | | 8.19 | | 11.66 | | 17.63 | | 20.22 | | 26.79 | | 31.98 | | | |
| 30 • | 1.23 | | 2.43 | | 4.71 | | 8.92 | | 12.70 | | 19.21 | | 22.04 | | 29.19 | | 34.85 | | | |
| 32 • | 1.33 | | 2.63 | | 5.11 | | 9.68 | | 13.77 | | 20.84 | | 23.90 | | 31.66 | | | | | |
| 33 | 1.39 | | 2.73 | | 5.31 | | 10.06 | | 14.32 | | 21.67 | | 24.85 | | 32.92 | | | | | |
| 35 | 1.50 | | 2.96 | | 5.74 | | 10.87 | | 15.48 | | 23.42 | | 26.86 | | 35.58 | | | | | |
| 36 • | 1.56 | | 3.06 | | 5.96 | | 11.27 | | 16.05 | | 24.28 | | 27.85 | | 36.89 | | | | | |
| 40 • | 1.78 | | 3.51 | | 6.83 | | 12.92 | | 18.40 | | 27.84 | | 31.93 | | 42.29 | | | | | |
| 42 • | 1.89 | | 3.73 | | 7.24 | | 13.71 | | 19.52 | | 29.53 | | 33.87 | | 44.86 | | | | | |
| 44 • | 2.00 | | 3.94 | | 7.67 | | 14.51 | | 20.66 | | 31.25 | | 35.84 | | 47.48 | | | | | |
| 45 | 2.06 | | 4.05 | | 7.88 | | 14.91 | | 21.23 | | 32.12 | | 36.84 | | | | STEEL | | | |
| 48 • | 2.23 | | 4.40 | | 8.55 | | 16.19 | | 23.05 | | 34.86 | | 39.99 | | | | | | | |
| 50 | | 1.12 | | 2.21 | | 4.30 | | 8.13 | | 11.58 | | 17.52 | | 20.09 | | | CAST | | | |
| 52 • | | 1.18 | | 2.32 | | 4.50 | | 8.52 | | 12.13 | | 18.35 | | 21.05 | | | | | | |
| 54 | | 1.23 | | 2.42 | | 4.71 | | 8.91 | | 12.69 | | 19.20 | | 22.02 | | | | | | |
| 55 | | 1.25 | | 2.47 | | 4.80 | | 9.08 | | 12.93 | | 19.55 | | 22.43 | | | | | | |
| 56 • | | 1.28 | | 2.52 | | 4.90 | | 9.27 | | 13.19 | | 19.96 | | 22.89 | | | | | | |
| 60 • | | 1.39 | | 2.74 | | 5.32 | | 10.07 | | 14.34 | | 21.69 | | 24.88 | | | | | | |
| 64 • | | 1.49 | | 2.94 | | 5.72 | | 10.82 | | 15.40 | | 23.30 | | | | | | | | |
| 66 | | 1.55 | | 3.05 | | 5.92 | | 11.21 | | 15.96 | | 24.14 | | | | | | | | |
| 70 | | 1.65 | | 3.26 | | 6.33 | | 11.97 | | 17.05 | | 25.79 | | | | | | | | |
| 72 • | | 1.70 | | 3.35 | | 6.51 | | 12.32 | | 17.53 | | | | | | | | | | |
| 80 • | | 1.92 | | 3.78 | | 7.35 | | 13.91 | | 19.80 | | | | | | | | | | |
| 84 | | 2.03 | | 4.00 | | 7.77 | | 14.70 | | 20.93 | | | | | | | | | | |
| 88 • | | 2.13 | | 4.20 | | 8.16 | | 15.44 | | 21.98 | | | | | | | | | | |
| 90 | | 2.18 | | 4.30 | | 8.36 | | 15.82 | | 22.53 | | | | | | | | | | |
| 96 • | | 2.34 | | 4.62 | | 8.98 | | 16.99 | | 24.20 | | | | | | | | | | |
| 100 | | 2.45 | | 4.82 | | 9.37 | | 17.74 | | 25.26 | | | | | | | | | | |
| 108 | | 2.66 | | 5.23 | | 10.17 | | 19.25 | | 27.40 | | | | | | | | | | |
| 110 | | 2.71 | | 5.34 | | 10.38 | | 19.65 | | 27.97 | | | | | | | | | | |
| 112 • | | 2.76 | | 5.44 | | 10.57 | | 20.01 | | 28.48 | | | | | | | | | | |
| 120 • | | 2.98 | | 5.87 | | 11.40 | | 21.58 | | 30.72 | | | | | | | | | | |
| 144 • | | 2.83 | | 5.57 | | 10.83 | | 20.50 | | | | | | | | | | | | |
| 160 • | | 4.04 | | 7.96 | | 15.47 | | 29.28 | | | | | | | | | | | | |
| 200 | | 5.09 | | 10.04 | | 19.51 | | 36.92 | | | | | | | | | | | | |

Ratings are based on strength calculation. • Designates stock sizes for this pitch.

Note: 1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of cast iron or steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

# 20° Horsepower Ratings (Approximate)

## For Class I Service (Service Factor = 1.0)

**10 Diametral Pitch** **20° Pressure Angle** **1 1/4" Face**

| No. Teeth | 25 RPM | | 50 RPM | | 100 RPM | | 200 RPM | | 300 RPM | | 500 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 11 | 0.15 | | 0.30 | | 0.59 | | 1.13 | | 1.62 | | 2.49 | | 2.87 | | 3.88 | | 4.70 | | 5.95 | |
| 12 • | 0.18 | | 0.36 | | 0.70 | | 1.33 | | 1.91 | | 2.94 | | 3.40 | | 4.58 | | 5.55 | | 7.04 | |
| 13 | 0.21 | | 0.42 | | 0.81 | | 1.55 | | 2.23 | | 3.43 | | 3.97 | | 5.35 | | 6.48 | | 8.22 | |
| 14 • | 0.24 | | 0.47 | | 0.91 | | 1.75 | | 2.51 | | 3.87 | | 4.47 | | 6.02 | | 7.30 | | 9.25 | |
| 15 • | 0.27 | | 0.53 | | 1.03 | | 1.96 | | 2.82 | | 4.34 | | 5.01 | | 6.76 | | 8.19 | | 10.38 | |
| 16 • | 0.29 | | 0.57 | | 1.12 | | 2.14 | | 3.07 | | 4.72 | | 5.45 | | 7.36 | | 8.91 | | 11.30 | |
| 17 | 0.31 | | 0.62 | | 1.22 | | 2.32 | | 3.34 | | 5.14 | | 5.93 | | 8.00 | | 9.70 | | 12.30 | |
| 18 • | 0.34 | | 0.67 | | 1.31 | | 2.51 | | 3.61 | | 5.55 | | 6.41 | | 8.64 | | 10.47 | | 13.28 | |
| 19 | 0.37 | | 0.72 | | 1.41 | | 2.70 | | 3.88 | | 5.97 | | 6.89 | | 9.30 | | 11.27 | | 14.29 | |
| 20 • | 0.39 | | 0.78 | | 1.52 | | 2.90 | | 4.16 | | 6.40 | | 7.40 | | 9.98 | | 12.09 | | 15.33 | |
| 21 | 0.42 | | 0.83 | | 1.62 | | 3.09 | | 4.44 | | 6.83 | | 7.89 | | 10.64 | | 12.89 | | 16.35 | |
| 22 • | 0.44 | | 0.88 | | 1.72 | | 3.29 | | 4.72 | | 7.26 | | 8.39 | | 11.32 | | 13.71 | | 17.39 | |
| 24 • | 0.50 | | 0.98 | | 1.91 | | 3.66 | | 5.26 | | 8.09 | | 9.35 | | 12.61 | | 15.28 | | 19.37 | |
| 25 • | 0.52 | | 1.03 | | 2.01 | | 3.85 | | 5.53 | | 8.50 | | 9.82 | | 13.25 | | 16.05 | | 20.36 | |
| 26 • | 0.55 | | 1.08 | | 2.12 | | 4.05 | | 5.82 | | 8.95 | | 10.34 | | 13.94 | | 16.89 | | | |
| 27 | 0.58 | | 1.14 | | 2.22 | | 4.25 | | 6.11 | | 9.40 | | 10.86 | | 14.65 | | 17.75 | | | |
| 28 • | 0.60 | | 1.19 | | 2.33 | | 4.46 | | 6.41 | | 9.86 | | 11.39 | | 15.37 | | 18.61 | | | |
| 30 • | 0.66 | | 1.30 | | 2.54 | | 4.86 | | 6.99 | | 10.74 | | 12.41 | | 16.74 | | 20.28 | | | |
| 32 • | 0.71 | | 1.41 | | 2.76 | | 5.27 | | 7.58 | | 11.65 | | 13.46 | | 18.16 | | 22.00 | | | |
| 33 | 0.74 | | 1.47 | | 2.87 | | 5.48 | | 7.88 | | 12.11 | | 14.00 | | 18.88 | | 22.87 | | | |
| 35 • | 0.80 | | 1.59 | | 3.10 | | 5.93 | | 8.52 | | 13.09 | | 15.13 | | 20.41 | | 24.72 | | | |
| 36 • | 0.83 | | 1.64 | | 3.21 | | 6.14 | | 8.83 | | 13.58 | | 15.68 | | 21.16 | | 25.63 | | | |
| 40 • | 0.95 | | 1.88 | | 3.68 | | 7.04 | | 10.12 | | 15.56 | | 17.98 | | 24.26 | | | | | |
| 42 | 1.01 | | 2.00 | | 3.91 | | 7.47 | | 10.74 | | 16.51 | | 19.07 | | 25.73 | | | | | |
| 44 | 1.07 | | 2.12 | | 4.14 | | 7.91 | | 11.36 | | 17.47 | | 20.19 | | 27.23 | | | | | |
| 45 • | 1.10 | | 2.18 | | 4.25 | | 8.13 | | 11.68 | | 17.96 | | 20.75 | | 27.99 | | | | | |
| 48 • | 1.19 | | 2.36 | | 4.61 | | 8.82 | | 12.68 | | 19.49 | | 22.52 | | 30.38 | | | | | |
| 50 • | 1.25 | | 2.47 | | 4.83 | | 9.24 | | 13.27 | | 20.41 | | 23.57 | | | | | | | |
| 52 | 1.31 | | 2.59 | | 5.06 | | 9.68 | | 13.90 | | 21.38 | | 24.70 | | | | | | | |
| 54 | 1.37 | | 2.71 | | 5.29 | | 10.12 | | 14.54 | | 22.36 | | 25.83 | | | | | | | |
| 55 • | 1.40 | | 2.76 | | 5.39 | | 10.31 | | 14.81 | | 22.78 | | 26.31 | | | | | | | |
| 56 | 1.42 | | 2.82 | | 5.50 | | 10.52 | | 15.12 | | 23.25 | | 26.86 | | | | | | | |
| 60 • | 1.55 | | 3.06 | | 5.98 | | 11.44 | | 16.43 | | 25.27 | | 29.19 | | | | | | | |
| 64 | | 0.80 | | 1.58 | | 3.08 | | 5.90 | | 8.47 | | 13.03 | | 15.05 | | | | | | |
| 66 | | 0.83 | | 1.63 | | 3.19 | | 6.11 | | 8.78 | | 13.50 | | 15.60 | | | | | | |
| 70 • | | 0.88 | | 1.75 | | 3.41 | | 6.53 | | 9.38 | | 14.42 | | 16.66 | | | | | | |
| 72 | | 0.91 | | 1.80 | | 3.51 | | 6.71 | | 9.65 | | 14.83 | | 17.13 | | | | | | |
| 80 • | | 1.03 | | 2.03 | | 3.96 | | 7.58 | | 10.89 | | 16.75 | | | | | | | | |
| 84 | | 1.08 | | 2.14 | | 4.19 | | 8.01 | | 11.52 | | 17.71 | | | | | | | | |
| 88 | | 1.14 | | 2.25 | | 4.40 | | 8.41 | | 12.09 | | 18.59 | | | | | | | | |
| 90 • | | 1.17 | | 2.31 | | 4.51 | | 8.62 | | 12.39 | | 19.06 | | | | | | | | |
| 96 | | 1.25 | | 2.48 | | 4.84 | | 9.26 | | 13.31 | | | | | | | | | | |
| 100 • | | 1.31 | | 2.59 | | 5.06 | | 9.67 | | 13.90 | | | | | | | | | | |
| 108 | | 1.42 | | 2.81 | | 5.49 | | 10.49 | | 15.08 | | | | | | | | | | |
| 110 | | 1.45 | | 2.87 | | 5.60 | | 10.71 | | 15.39 | | | | | | | | | | |
| 112 | | 1.48 | | 2.92 | | 5.70 | | 10.90 | | 15.67 | | | | | | | | | | |
| 120 | | 1.59 | | 3.15 | | 6.15 | | 11.76 | | 16.90 | | | | | | | | | | |
| 144 | | 1.51 | | 2.99 | | 5.84 | | 11.17 | | 16.05 | | | | | | | | | | |
| 160 | | 2.16 | | 4.27 | | 8.35 | | 15.96 | | 22.93 | | | | | | | | | | |
| 200 | | 2.72 | | 5.38 | | 10.52 | | 20.12 | | 28.92 | | | | | | | | | | |

STEEL

CAST

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of cast iron or steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

# 20° Horsepower Ratings (Approximate)

**For Class I Service (Service Factor = 1.0)**

**12 Diametral Pitch** **20° Pressure Angle** **1" Face**

| No. Teeth | 25 RPM | | 50 RPM | | 100 RPM | | 200 RPM | | 300 RPM | | 500 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 11 | 0.08 | | 0.17 | | 0.33 | | 0.63 | | 0.92 | | 1.43 | | 1.66 | | 2.27 | | 2.78 | | 3.58 | |
| 12 • | 0.10 | | 0.20 | | 0.39 | | 0.75 | | 1.09 | | 1.69 | | 1.96 | | 2.68 | | 3.28 | | 4.24 | |
| 13 • | 0.12 | | 0.23 | | 0.45 | | 0.88 | | 1.27 | | 1.97 | | 2.29 | | 3.13 | | 3.83 | | 4.95 | |
| 14 • | 0.13 | | 0.26 | | 0.51 | | 0.99 | | 1.43 | | 2.22 | | 2.58 | | 3.52 | | 4.32 | | 5.57 | |
| 15 • | 0.15 | | 0.29 | | 0.57 | | 1.11 | | 1.60 | | 2.49 | | 2.89 | | 3.95 | | 4.84 | | 6.25 | |
| 16 • | 0.16 | | 0.32 | | 0.63 | | 1.20 | | 1.74 | | 2.71 | | 3.15 | | 4.30 | | 5.27 | | 6.81 | |
| 17 | 0.18 | | 0.35 | | 0.68 | | 1.31 | | 1.90 | | 2.95 | | 3.42 | | 4.68 | | 5.74 | | 7.40 | |
| 18 • | 0.19 | | 0.37 | | 0.73 | | 1.42 | | 2.05 | | 3.18 | | 3.70 | | 5.06 | | 6.19 | | 7.99 | |
| 19 • | 0.20 | | 0.40 | | 0.79 | | 1.52 | | 2.20 | | 3.43 | | 3.98 | | 5.44 | | 6.67 | | 8.60 | |
| 20 • | 0.22 | | 0.43 | | 0.85 | | 1.63 | | 2.36 | | 3.68 | | 4.27 | | 5.84 | | 7.15 | | 9.23 | |
| 21 • | 0.23 | | 0.46 | | 0.90 | | 1.74 | | 2.52 | | 3.92 | | 4.55 | | 6.22 | | 7.63 | | 9.84 | |
| 22 • | 0.25 | | 0.49 | | 0.96 | | 1.85 | | 2.68 | | 4.17 | | 4.84 | | 6.62 | | 8.11 | | 10.47 | |
| 24 • | 0.28 | | 0.55 | | 1.07 | | 2.06 | | 2.99 | | 4.64 | | 5.39 | | 7.38 | | 9.04 | | 11.66 | |
| 25 • | 0.29 | | 0.57 | | 1.13 | | 2.17 | | 3.14 | | 4.88 | | 5.67 | | 7.75 | | 9.50 | | 12.26 | |
| 26 • | 0.31 | | 0.60 | | 1.19 | | 2.28 | | 3.30 | | 5.14 | | 5.96 | | 8.16 | | 9.99 | | 12.90 | |
| 27 | 0.32 | | 0.63 | | 1.25 | | 2.40 | | 3.47 | | 5.40 | | 6.27 | | 8.57 | | 10.50 | | 13.55 | |
| 28 • | 0.34 | | 0.67 | | 1.31 | | 2.52 | | 3.64 | | 5.66 | | 6.57 | | 8.99 | | 11.01 | | 14.21 | |
| 30 • | 0.37 | | 0.73 | | 1.42 | | 2.74 | | 3.96 | | 6.17 | | 7.16 | | 9.79 | | 12.00 | | 15.49 | |
| 32 • | 0.40 | | 0.79 | | 1.54 | | 2.97 | | 4.30 | | 6.69 | | 7.77 | | 10.62 | | 13.01 | | | |
| 33 | 0.41 | | 0.82 | | 1.61 | | 3.09 | | 4.47 | | 6.95 | | 8.08 | | 11.05 | | 13.53 | | | |
| 35 | 0.45 | | 0.88 | | 1.73 | | 3.34 | | 4.83 | | 7.52 | | 8.73 | | 11.94 | | 14.63 | | | |
| 36 • | 0.46 | | 0.92 | | 1.80 | | 3.46 | | 5.01 | | 7.79 | | 9.05 | | 12.38 | | 15.16 | | | |
| 40 | 0.53 | | 1.05 | | 2.06 | | 3.97 | | 5.74 | | 8.94 | | 10.38 | | 14.19 | | 17.39 | | | |
| 42 • | 0.56 | | 1.12 | | 2.19 | | 4.21 | | 6.09 | | 9.48 | | 11.01 | | 15.05 | | 18.44 | | | |
| 44 | 0.60 | | 1.18 | | 2.32 | | 4.46 | | 6.45 | | 10.03 | | 11.65 | | 15.93 | | 19.52 | | | |
| 45 | 0.61 | | 1.21 | | 2.38 | | 4.58 | | 6.63 | | 10.31 | | 11.97 | | 16.37 | | 20.06 | | | |
| 48 • | 0.66 | | 1.32 | | 2.58 | | 4.97 | | 7.19 | | 11.19 | | 13.00 | | 17.77 | | | | | |
| 50 | 0.70 | | 1.38 | | 2.70 | | 5.21 | | 7.53 | | 11.71 | | 13.60 | | 18.60 | | | | | |
| 52 | 0.73 | | 1.44 | | 2.83 | | 5.45 | | 7.89 | | 12.27 | | 14.25 | | 19.49 | | | | | |
| 54 • | 0.76 | | 1.51 | | 2.96 | | 5.71 | | 8.25 | | 12.84 | | 14.91 | | 20.39 | | | | | |
| 55 | 0.78 | | 1.54 | | 3.02 | | 5.81 | | 8.41 | | 13.08 | | 15.18 | | 20.77 | | | | | |
| 56 | 0.79 | | 1.57 | | 3.08 | | 5.93 | | 8.58 | | 13.35 | | 15.50 | | 21.19 | | | | | |
| 60 • | 0.86 | | 1.71 | | 3.35 | | 6.45 | | 9.33 | | 14.51 | | 16.84 | | 23.04 | | | | | |
| 64 | 0.93 | | 1.83 | | 3.60 | | 6.93 | | 10.02 | | 15.58 | | 18.10 | | 24.75 | | | | | |
| 66 • | 0.96 | | 1.90 | | 3.73 | | 7.18 | | 10.38 | | 16.15 | | 18.75 | | | | | | | |
| 70 | 1.02 | | 2.03 | | 3.98 | | 7.66 | | 11.09 | | 17.24 | | 20.03 | | | | STEEL | | | |
| 72 • | 1.05 | | 2.09 | | 4.09 | | 7.88 | | 11.40 | | | | | | | | | | | |
| 80 | | 0.57 | | 1.13 | | 2.22 | | 4.27 | | 6.18 | | 9.61 | | 11.16 | | | CAST | | | |
| 84 • | | 0.60 | | 1.20 | | 2.35 | | 4.52 | | 6.53 | | 10.16 | | 11.80 | | | | | | |
| 88 | | 0.63 | | 1.26 | | 2.46 | | 4.74 | | 6.86 | | 10.67 | | 12.39 | | | | | | |
| 90 | | 0.65 | | 1.29 | | 2.52 | | 4.86 | | 7.03 | | 10.94 | | | | | | | | |
| 96 • | | 0.70 | | 1.38 | | 2.71 | | 5.22 | | 7.55 | | 11.75 | | | | | | | | |
| 100 | | 0.73 | | 1.44 | | 2.83 | | 5.45 | | 7.89 | | 12.27 | | | | | | | | |
| 108 • | | 0.79 | | 1.57 | | 3.07 | | 5.91 | | 8.55 | | 13.31 | | | | | | | | |
| 110 | | 0.81 | | 1.60 | | 3.13 | | 6.04 | | 8.73 | | 13.58 | | | | | | | | |
| 112 | | 0.82 | | 1.63 | | 3.19 | | 6.15 | | 8.89 | | | | | | | | | | |
| 120 • | | 0.89 | | 1.76 | | 3.44 | | 6.63 | | 9.59 | | | | | | | | | | |
| 144 • | | 0.84 | | 1.67 | | 3.27 | | 6.30 | | 9.11 | | | | | | | | | | |
| 160 | | 1.20 | | 2.38 | | 4.67 | | 9.00 | | 13.01 | | | | | | | | | | |
| 200 | | 1.52 | | 3.00 | | 5.89 | | 11.34 | | 16.41 | | | | | | | | | | |

Ratings are based on strength calculation. • Designates stock sizes for this pitch.

Note: 1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of cast iron or steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

# 20° Horsepower Ratings (Approximate)

## For Class I Service (Service Factor = 1.0)

**16 Diametral Pitch** **20° Pressure Angle** **3/4" Face**

| No. Teeth | 25 RPM | | 50 RPM | | 100 RPM | | 200 RPM | | 300 RPM | | 500 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 11 | 0.04 | | 0.07 | | 0.14 | | 0.27 | | 0.40 | | 0.63 | | 0.73 | | 1.02 | | 1.28 | | 1.69 | |
| 12 • | 0.04 | | 0.08 | | 0.17 | | 0.32 | | 0.47 | | 0.74 | | 0.87 | | 1.21 | | 1.51 | | 2.00 | |
| 13 • | 0.05 | | 0.10 | | 0.19 | | 0.38 | | 0.55 | | 0.87 | | 1.01 | | 1.41 | | 1.76 | | 2.33 | |
| 14 • | 0.06 | | 0.11 | | 0.22 | | 0.42 | | 0.62 | | 0.98 | | 1.14 | | 1.59 | | 1.98 | | 2.63 | |
| 15 • | 0.06 | | 0.12 | | 0.24 | | 0.48 | | 0.69 | | 1.10 | | 1.28 | | 1.79 | | 2.22 | | 2.95 | |
| 16 • | 0.07 | | 0.14 | | 0.27 | | 0.52 | | 0.76 | | 1.19 | | 1.40 | | 1.94 | | 2.42 | | 3.21 | |
| 17 • | 0.07 | | 0.15 | | 0.29 | | 0.56 | | 0.82 | | 1.30 | | 1.52 | | 2.12 | | 2.63 | | 3.49 | |
| 18 • | 0.08 | | 0.16 | | 0.31 | | 0.61 | | 0.89 | | 1.40 | | 1.64 | | 2.28 | | 2.84 | | 3.77 | |
| 19 | 0.09 | | 0.17 | | 0.34 | | 0.65 | | 0.95 | | 1.51 | | 1.76 | | 2.46 | | 3.06 | | 4.05 | |
| 20 • | 0.09 | | 0.18 | | 0.36 | | 0.70 | | 1.02 | | 1.62 | | 1.89 | | 2.64 | | 3.28 | | 4.35 | |
| 21 • | 0.10 | | 0.20 | | 0.39 | | 0.75 | | 1.09 | | 1.73 | | 2.02 | | 2.81 | | 3.50 | | 4.64 | |
| 22 • | 0.10 | | 0.21 | | 0.41 | | 0.80 | | 1.16 | | 1.84 | | 2.15 | | 2.99 | | 3.72 | | 4.93 | |
| 24 • | 0.12 | | 0.23 | | 0.46 | | 0.89 | | 1.29 | | 2.04 | | 2.39 | | 3.33 | | 4.15 | | 5.50 | |
| 25 | 0.12 | | 0.24 | | 0.48 | | 0.93 | | 1.36 | | 2.15 | | 2.51 | | 3.50 | | 4.36 | | 5.78 | |
| 26 • | 0.13 | | 0.26 | | 0.50 | | 0.98 | | 1.43 | | 2.26 | | 2.64 | | 3.69 | | 4.59 | | 6.08 | |
| 27 | 0.14 | | 0.27 | | 0.53 | | 1.03 | | 1.50 | | 2.38 | | 2.78 | | 3.87 | | 4.82 | | 6.38 | |
| 28 • | 0.14 | | 0.28 | | 0.56 | | 1.08 | | 1.58 | | 2.49 | | 2.91 | | 4.06 | | 5.06 | | 6.70 | |
| 30 • | 0.15 | | 0.31 | | 0.61 | | 1.18 | | 1.72 | | 2.72 | | 3.18 | | 4.43 | | 5.51 | | 7.30 | |
| 32 • | 0.17 | | 0.33 | | 0.66 | | 1.28 | | 1.86 | | 2.94 | | 3.44 | | 4.80 | | 5.98 | | 7.91 | |
| 33 | 0.17 | | 0.35 | | 0.68 | | 1.33 | | 1.94 | | 3.06 | | 3.58 | | 4.99 | | 6.21 | | 8.23 | |
| 35 | 0.19 | | 0.37 | | 0.74 | | 1.44 | | 2.09 | | 3.31 | | 3.87 | | 5.39 | | 6.72 | | 8.89 | |
| 36 • | 0.20 | | 0.39 | | 0.77 | | 1.49 | | 2.17 | | 3.43 | | 4.01 | | 5.59 | | 6.96 | | 9.22 | |
| 40 • | 0.22 | | 0.45 | | 0.88 | | 1.71 | | 2.49 | | 3.93 | | 4.60 | | 6.41 | | 7.98 | | 10.57 | |
| 42 | 0.24 | | 0.47 | | 0.93 | | 1.81 | | 2.64 | | 4.17 | | 4.88 | | 6.80 | | 8.47 | | | |
| 44 | 0.25 | | 0.50 | | 0.99 | | 1.92 | | 2.80 | | 4.42 | | 5.16 | | 7.20 | | 8.96 | | | |
| 45 | 0.26 | | 0.51 | | 1.01 | | 1.97 | | 2.87 | | 4.54 | | 5.31 | | 7.40 | | 9.21 | | | |
| 48 • | 0.28 | | 0.56 | | 1.10 | | 2.14 | | 3.12 | | 4.93 | | 5.76 | | 8.03 | | 10.00 | | | |
| 50 | 0.29 | | 0.58 | | 1.15 | | 2.24 | | 3.26 | | 5.16 | | 6.03 | | 8.41 | | 10.47 | | | |
| 52 | 0.31 | | 0.61 | | 1.21 | | 2.34 | | 3.42 | | 5.40 | | 6.32 | | 8.81 | | 10.96 | | | |
| 54 | 0.32 | | 0.64 | | 1.26 | | 2.45 | | 3.58 | | 5.65 | | 6.61 | | 9.21 | | 11.47 | | | |
| 55 | 0.33 | | 0.65 | | 1.29 | | 2.50 | | 3.64 | | 5.76 | | 6.73 | | 9.38 | | 11.68 | | | |
| 56 • | 0.34 | | 0.67 | | 1.31 | | 2.55 | | 3.72 | | 5.88 | | 6.87 | | 9.58 | | | | | |
| 60 • | 0.36 | | 0.72 | | 1.43 | | 2.77 | | 4.04 | | 6.39 | | 7.47 | | 10.41 | | | | | |
| 64 • | 0.39 | | 0.78 | | 1.53 | | 2.98 | | 4.34 | | 6.86 | | 8.02 | | 11.18 | | | | | |
| 66 | 0.41 | | 0.81 | | 1.59 | | 3.08 | | 4.50 | | 7.11 | | 8.31 | | 11.58 | | | | | |
| 70 | 0.43 | | 0.86 | | 1.70 | | 3.29 | | 4.81 | | 7.59 | | 8.88 | | 12.37 | | | | | |
| 72 • | 0.45 | | 0.88 | | 1.74 | | 3.39 | | 4.94 | | 7.81 | | 9.13 | | 12.73 | | | | | |
| 80 • | 0.50 | | 1.00 | | 1.97 | | 3.83 | | 5.58 | | 8.82 | | 10.31 | | 14.37 | | | | | |
| 84 • | 0.53 | | 1.06 | | 2.08 | | 4.05 | | 5.90 | | 9.32 | | 10.90 | | 15.19 | | | | | |
| 88 • | 0.56 | | 1.11 | | 2.19 | | 4.25 | | 6.20 | | 9.79 | | 11.45 | | | | | | | |
| 90 | 0.57 | | 1.14 | | 2.24 | | 4.35 | | 6.35 | | 10.03 | | 11.73 | | | | | | | |
| 96 • | 0.62 | | 1.22 | | 2.41 | | 4.68 | | 6.82 | | 10.78 | | 12.60 | | | | | | | |
| 100 | 0.64 | | 1.27 | | 2.51 | | 4.88 | | 7.12 | | 11.25 | | 13.16 | | | | | | | |
| 108 | | 0.33 | | 0.66 | | 1.31 | | 2.54 | | 3.71 | | 5.86 | | 6.85 | | | | | | |
| 110 | | 0.34 | | 0.68 | | 1.34 | | 2.60 | | 3.79 | | 5.98 | | 6.99 | | | | | | |
| 112 • | | 0.35 | | 0.69 | | 1.36 | | 2.64 | | 3.85 | | 6.09 | | 7.12 | | | | | | |
| 120 | | 0.37 | | 0.74 | | 1.47 | | 2.85 | | 4.16 | | 6.57 | | 7.68 | | | | | | |
| 144 • | | 0.36 | | 0.71 | | 1.39 | | 2.71 | | 3.95 | | 6.24 | | | | | | | | |
| 160 • | | 0.51 | | 1.01 | | 1.99 | | 3.87 | | 5.64 | | 8.91 | | | | | | | | |
| 200 | | 0.64 | | 1.27 | | 2.51 | | 4.88 | | 7.11 | | 11.24 | | | | | | | | |

STEEL

CAST

Ratings are based on strength calculation.

• Designates stock sizes for this pitch.

Note: 1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of cast iron or steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

# 20° Horsepower Ratings (Approximate)

## For Class I Service (Service Factor = 1.0)

**20 Diametral Pitch** **20° Pressure Angle** **1/2" Face**

| No. Teeth | 25 RPM | | 50 RPM | | 100 RPM | | 200 RPM | | 300 RPM | | 500 RPM | | 600 RPM | | 900 RPM | | 1200 RPM | | 1800 RPM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI | S | CI |
| 11 | 0.02 | | 0.03 | | 0.06 | | 0.12 | | 0.17 | | 0.28 | | 0.32 | | 0.46 | | 0.57 | | 0.78 | |
| 12 • | 0.02 | | 0.04 | | 0.07 | | 0.14 | | 0.20 | | 0.33 | | 0.38 | | 0.54 | | 0.68 | | 0.92 | |
| 13 | 0.02 | | 0.04 | | 0.08 | | 0.16 | | 0.24 | | 0.38 | | 0.45 | | 0.63 | | 0.79 | | 1.07 | |
| 14 • | 0.02 | | 0.05 | | 0.09 | | 0.18 | | 0.27 | | 0.43 | | 0.50 | | 0.71 | | 0.89 | | 1.20 | |
| 15 • | 0.03 | | 0.05 | | 0.11 | | 0.21 | | 0.30 | | 0.48 | | 0.56 | | 0.80 | | 1.00 | | 1.35 | |
| 16 • | 0.03 | | 0.06 | | 0.11 | | 0.22 | | 0.33 | | 0.52 | | 0.61 | | 0.87 | | 1.09 | | 1.47 | |
| 17 | 0.03 | | 0.06 | | 0.12 | | 0.24 | | 0.36 | | 0.57 | | 0.67 | | 0.94 | | 1.19 | | 1.60 | |
| 18 • | 0.03 | | 0.07 | | 0.13 | | 0.26 | | 0.38 | | 0.61 | | 0.72 | | 1.02 | | 1.28 | | 1.73 | |
| 19 | 0.04 | | 0.07 | | 0.14 | | 0.28 | | 0.41 | | 0.66 | | 0.78 | | 1.10 | | 1.38 | | 1.86 | |
| 20 • | 0.04 | | 0.08 | | 0.16 | | 0.30 | | 0.44 | | 0.71 | | 0.83 | | 1.18 | | 1.48 | | 2.00 | |
| 21 • | 0.04 | | 0.08 | | 0.17 | | 0.32 | | 0.47 | | 0.76 | | 0.89 | | 1.25 | | 1.58 | | 2.13 | |
| 22 • | 0.04 | | 0.09 | | 0.18 | | 0.34 | | 0.50 | | 0.80 | | 0.94 | | 1.33 | | 1.68 | | 2.26 | |
| 24 • | 0.05 | | 0.10 | | 0.20 | | 0.38 | | 0.56 | | 0.90 | | 1.05 | | 1.49 | | 1.87 | | 2.52 | |
| 25 • | 0.05 | | 0.10 | | 0.21 | | 0.40 | | 0.59 | | 0.94 | | 1.11 | | 1.56 | | 1.96 | | 2.65 | |
| 26 | 0.06 | | 0.11 | | 0.22 | | 0.42 | | 0.62 | | 0.99 | | 1.16 | | 1.64 | | 2.07 | | 2.79 | |
| 27 | 0.06 | | 0.12 | | 0.23 | | 0.44 | | 0.65 | | 1.04 | | 1.22 | | 1.73 | | 2.17 | | 2.93 | |
| 28 • | 0.06 | | 0.12 | | 0.24 | | 0.47 | | 0.68 | | 1.09 | | 1.28 | | 1.81 | | 2.28 | | 3.07 | |
| 30 • | 0.07 | | 0.13 | | 0.26 | | 0.51 | | 0.75 | | 1.19 | | 1.40 | | 1.97 | | 2.48 | | 3.35 | |
| 32 • | 0.07 | | 0.14 | | 0.28 | | 0.55 | | 0.81 | | 1.29 | | 1.52 | | 2.14 | | 2.69 | | 3.63 | |
| 33 | 0.07 | | 0.15 | | 0.29 | | 0.57 | | 0.84 | | 1.34 | | 1.58 | | 2.22 | | 2.80 | | 3.78 | |
| 35 • | 0.08 | | 0.16 | | 0.32 | | 0.62 | | 0.91 | | 1.45 | | 1.70 | | 2.40 | | 3.03 | | 4.08 | |
| 36 • | 0.08 | | 0.17 | | 0.33 | | 0.64 | | 0.94 | | 1.50 | | 1.77 | | 2.49 | | 3.14 | | 4.23 | |
| 40 • | 0.10 | | 0.19 | | 0.38 | | 0.74 | | 1.08 | | 1.72 | | 2.02 | | 2.86 | | 3.60 | | 4.85 | |
| 42 | 0.10 | | 0.20 | | 0.40 | | 0.78 | | 1.15 | | 1.83 | | 2.15 | | 3.03 | | 3.81 | | 5.15 | |
| 44 | 0.11 | | 0.21 | | 0.42 | | 0.83 | | 1.21 | | 1.93 | | 2.27 | | 3.21 | | 4.04 | | 5.45 | |
| 45 • | 0.11 | | 0.22 | | 0.44 | | 0.85 | | 1.25 | | 1.99 | | 2.34 | | 3.30 | | 4.15 | | 5.60 | |
| 48 | 0.12 | | 0.24 | | 0.47 | | 0.92 | | 1.35 | | 2.16 | | 2.54 | | 3.58 | | 4.50 | | 6.08 | |
| 50 • | 0.13 | | 0.25 | | 0.49 | | 0.97 | | 1.42 | | 2.26 | | 2.65 | | 3.75 | | 4.71 | | 6.36 | |
| 52 | 0.13 | | 0.26 | | 0.52 | | 1.01 | | 1.48 | | 2.37 | | 2.78 | | 3.92 | | 4.94 | | 6.66 | |
| 54 | 0.14 | | 0.27 | | 0.54 | | 1.06 | | 1.55 | | 2.48 | | 2.91 | | 4.10 | | 5.17 | | | |
| 55 | 0.14 | | 0.28 | | 0.55 | | 1.08 | | 1.58 | | 2.52 | | 2.96 | | 4.18 | | 5.26 | | | |
| 56 | 0.14 | | 0.28 | | 0.56 | | 1.10 | | 1.61 | | 2.57 | | 3.02 | | 4.27 | | 5.37 | | | |
| 60 • | 0.16 | | 0.31 | | 0.61 | | 1.20 | | 1.75 | | 2.80 | | 3.29 | | 4.64 | | 5.84 | | | |
| 64 | 0.17 | | 0.33 | | 0.66 | | 1.28 | | 1.88 | | 3.01 | | 3.53 | | 4.98 | | 6.27 | | | |
| 66 | 0.17 | | 0.34 | | 0.68 | | 1.33 | | 1.95 | | 3.11 | | 3.66 | | 5.16 | | 6.50 | | | |
| 70 • | 0.19 | | 0.37 | | 0.73 | | 1.42 | | 2.08 | | 3.33 | | 3.91 | | 5.51 | | 6.94 | | | |
| 72 • | 0.19 | | 0.38 | | 0.75 | | 1.46 | | 2.14 | | 3.42 | | 4.02 | | 5.67 | | 7.14 | | | |
| 80 • | 0.22 | | 0.43 | | 0.85 | | 1.65 | | 2.42 | | 3.86 | | 4.54 | | 6.40 | | | | | |
| 84 • | 0.23 | | 0.45 | | 0.89 | | 1.75 | | 2.56 | | 4.08 | | 4.80 | | 6.77 | | | | | |
| 88 | 0.24 | | 0.47 | | 0.94 | | 1.83 | | 2.69 | | 4.29 | | 5.04 | | 7.11 | | | | | |
| 90 • | 0.24 | | 0.49 | | 0.96 | | 1.88 | | 2.76 | | 4.40 | | 5.16 | | 7.29 | | | ALL STEEL | | |
| 96 • | 0.26 | | 0.52 | | 1.03 | | 2.02 | | 2.96 | | 4.72 | | 5.55 | | 7.83 | | | | | |
| 100 • | 0.27 | | 0.55 | | 1.08 | | 2.11 | | 3.09 | | 4.93 | | 5.79 | | 8.17 | | | | | |
| 108 | 0.30 | | 0.59 | | 1.17 | | 2.29 | | 3.35 | | 5.35 | | 6.28 | | | | | | | |
| 110 | 0.30 | | 0.60 | | 1.19 | | 2.33 | | 3.42 | | 5.46 | | 6.41 | | | | | | | |
| 112 | 0.31 | | 0.62 | | 1.22 | | 2.38 | | 3.48 | | 5.56 | | 6.53 | | | | | | | |
| 120 • | 0.33 | | 0.66 | | 1.31 | | 2.56 | | 3.76 | | 5.99 | | 7.04 | | | | | | | |
| 144 | 0.32 | | 0.63 | | 1.25 | | 2.43 | | 3.57 | | 5.69 | | 6.69 | | | | | | | |
| 160 | 0.45 | | 0.90 | | 1.78 | | 3.48 | | 5.10 | | 8.13 | | 9.56 | | | | | | | |
| 200 | 0.57 | | 1.14 | | 2.24 | | 4.38 | | 6.43 | | 10.26 | | 12.05 | | | | | | | |

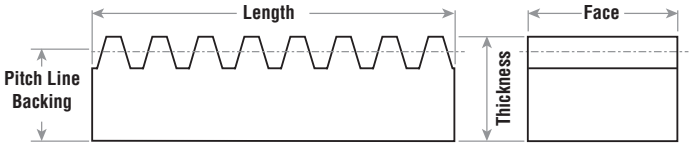
Ratings are based on strength calculation. • Designates stock sizes for this pitch.

Note: 1. Pitch line velocities exceeding 1000 feet per minute are not recommended. They should be used for interpolation purposes only.

2. Non-metallic gears are most commonly used for the driving pinion of a pair of gears, with mating gear made of cast iron or steel, where pitch line velocities exceed 1000 FPM and are not subjected to shock loads.

# Machined Gear Rack

Martin rack is made from low carbon cold drawn steel. It is available in 14½° and 20° pressure angle in 2, 4, and 6 foot lengths. Allowance is made for cutting and machining. Pinions to run with the rack may be selected from the spur gear section of the catalog. Special rack can be supplied in other materials, sizes, and pitches.




## Rack in lengths up to 12' available on request

### Standard Face Width
### Steel — 14½° & 20° Pressure Angle

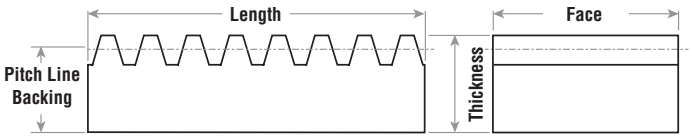
| Part Number | | Pitch | Face Width | Overall Thickness | Pitch Line Backing | App. Wt. lb/pc |
|---|---|---|---|---|---|---|
| 14½° P.A. | 20° P.A. | | | | | |
| R3x2 | TR3x2 | 3 | 3 | 1 1/2 | 1.167 | 24.00 |
| R3x4 | TR3x4 | 3 | 3 | 1 1/2 | 1.167 | 48.00 |
| R3x6 | TR3x6 | 3 | 3 | 1 1/2 | 1.167 | 72.00 |
| R4x2 | TR4x2 | 4 | 2 | 1 1/2 | 1.250 | 17.40 |
| R4x4 | TR4x4 | 4 | 2 | 1 1/2 | 1.250 | 34.80 |
| R4x6 | TR4x6 | 4 | 2 | 1 1/2 | 1.250 | 52.20 |
| RA4x2 | | 4 | 2 | 2 | 1.750 | 23.60 |
| RA4x4 | | 4 | 2 | 2 | 1.750 | 47.20 |
| RA4x6 | | 4 | 2 | 2 | 1.750 | 70.80 |
| R5x2 | TR5x2 | 5 | 1 3/4 | 1 1/4 | 1.050 | 12.80 |
| R5x4 | TR5x4 | 5 | 1 3/4 | 1 1/4 | 1.050 | 25.60 |
| R5x6 | TR5x6 | 5 | 1 3/4 | 1 1/4 | 1.050 | 38.40 |
| RA5x2 | | 5 | 1 3/4 | 1 1/2 | 1.300 | 16.00 |
| RA5x4 | | 5 | 1 3/4 | 1 1/2 | 1.300 | 32.00 |
| RA5x6 | | 5 | 1 3/4 | 1 1/2 | 1.300 | 48.00 |
| R6x2 | | 6 | 1 1/2 | 1 | 0.833 | 8.60 |
| R6x4 | | 6 | 1 1/2 | 1 | 0.833 | 17.20 |
| R6x6 | | 6 | 1 1/2 | 1 | 0.833 | 25.80 |
| RA6x2 | TR6x2 | 6 | 1 1/2 | 1 1/2 | 1.333 | 13.80 |
| RA6x4 | TR6x4 | 6 | 1 1/2 | 1 1/2 | 1.333 | 27.60 |
| RA6x6 | TR6x6 | 6 | 1 1/2 | 1 1/2 | 1.333 | 41.40 |
| R8x2 | | 8 | 1 1/4 | 3/4 | 0.625 | 5.20 |
| R8x4 | | 8 | 1 1/4 | 3/4 | 0.625 | 10.40 |
| R8x6 | | 8 | 1 1/4 | 3/4 | 0.625 | 15.60 |
| RA8x2 | TR8x2 | 8 | 1 1/4 | 1 1/4 | 1.125 | 9.80 |
| RA8x4 | TR8x4 | 8 | 1 1/4 | 1 1/4 | 1.125 | 19.60 |
| RA8x6 | TR8x6 | 8 | 1 1/4 | 1 1/4 | 1.125 | 29.40 |
| R10x2 | | 10 | 1 | 5/8 | 0.525 | 3.60 |
| R10x4 | | 10 | 1 | 5/8 | 0.525 | 7.20 |
| R10x6 | | 10 | 1 | 5/8 | 0.525 | 10.80 |
| RA10x2 | TR10x2 | 10 | 1 | 1 | 0.900 | 6.00 |
| RA10x4 | TR10x4 | 10 | 1 | 1 | 0.900 | 12.00 |
| RA10x6 | TR10x6 | 10 | 1 | 1 | 0.900 | 18.00 |
| R12x2 | | 12 | 3/4 | 1/2 | 0.417 | 2.00 |
| R12x4 | | 12 | 3/4 | 1/2 | 0.417 | 4.00 |
| R12x6 | | 12 | 3/4 | 1/2 | 0.417 | 6.00 |
| RA12x2 | TR12x2 | 12 | 3/4 | 3/4 | 0.667 | 3.40 |
| RA12x4 | TR12x4 | 12 | 3/4 | 3/4 | 0.667 | 6.80 |
| RA12x6 | TR12x6 | 12 | 3/4 | 3/4 | 0.667 | 10.20 |
| R16x2 | | 16 | 5/16 | 5/16 | 0.250 | 0.50 |
| R16x4 | | 16 | 5/16 | 5/16 | 0.250 | 1.00 |
| R16x6 | | 16 | 5/16 | 5/16 | 0.250 | 1.50 |
| RA16x2 | TR16x2 | 16 | 1/2 | 1/2 | 0.438 | 1.52 |
| RA16x4 | TR16x4 | 16 | 1/2 | 1/2 | 0.438 | 3.04 |
| RA16x6 | TR16x6 | 16 | 1/2 | 1/2 | 0.438 | 4.56 |
| R20x2 | TR20x2 | 20 | 3/8 | 3/8 | 0.325 | 0.84 |
| R20x4 | TR20x4 | 20 | 3/8 | 3/8 | 0.325 | 1.68 |
| R20x6 | TR20x6 | 20 | 3/8 | 3/8 | 0.325 | 2.52 |
| R24x2 | | 24 | 1/4 | 1/4 | 0.208 | 0.38 |
| R24x4 | | 24 | 1/4 | 1/4 | 0.208 | 0.76 |
| R24x6 | | 24 | 1/4 | 1/4 | 0.208 | 1.14 |

# Machined Gear Rack

Martin Rack is made from low carbon cold drawn steel. It is available in 14½° and 20° pressure angle in 2, 4, and 6 foot lengths. Allowance is made for cutting and machining. Pinions to run with the rack may be selected from the Spur Gear section of the catalog. Special rack can be supplied in other materials, sizes, and pitches.

## Wide Face Width
## Steel — 20° Pressure Angle

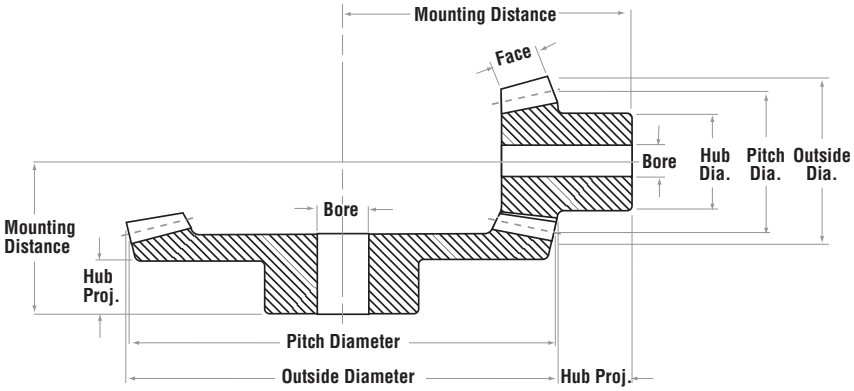
| Part Number | Pitch | Face Width | Overall Thickness | Pitch Line Backing | App. Wt. lb/pc |
|---|---|---|---|---|---|
| R204x2 | 4 | 3 1/2 | 2 | 1.750 | 41.0 |
| R204x4 | 4 | 3 1/2 | 2 | 1.750 | 82.0 |
| R204x6 | 4 | 3 1/2 | 2 | 1.750 | 123.0 |
| R205x2 | 5 | 2 1/2 | 1 1/2 | 1.300 | 22.4 |
| R205x4 | 5 | 2 1/2 | 1 1/2 | 1.300 | 44.8 |
| R205x6 | 5 | 2 1/2 | 1 1/2 | 1.300 | 67.2 |
| R206x2 | 6 | 2 | 1 1/2 | 1.333 | 17.0 |
| R206x4 | 6 | 2 | 1 1/2 | 1.333 | 34.0 |
| R206x6 | 6 | 2 | 1 1/2 | 1.333 | 51.0 |
| R208x2 | 8 | 1 1/2 | 1 1/2 | 1.375 | 13.8 |
| R208x4 | 8 | 1 1/2 | 1 1/2 | 1.375 | 27.6 |
| R208x6 | 8 | 1 1/2 | 1 1/2 | 1.375 | 41.3 |
| R2010x2 | 10 | 1 1/4 | 1 1/4 | 1.150 | 9.0 |
| R2010x4 | 10 | 1 1/4 | 1 1/4 | 1.150 | 18.0 |
| R2010x6 | 10 | 1 1/4 | 1 1/4 | 1.150 | 27.0 |
| R2012x2 | 12 | 1 | 1 | 0.917 | 6.4 |
| R2012x4 | 12 | 1 | 1 | 0.917 | 12.8 |
| R2012x6 | 12 | 1 | 1 | 0.917 | 19.2 |
| R2016x2 | 16 | 3/4 | 3/4 | 0.688 | 3.4 |
| R2016x4 | 16 | 3/4 | 3/4 | 0.688 | 6.8 |
| R2016x6 | 16 | 3/4 | 3/4 | 0.688 | 10.2 |
| R2020x2 | 20 | 1/2 | 1/2 | 0.450 | 0.8 |
| R2020x4 | 20 | 1/2 | 1/2 | 0.450 | 1.6 |
| R2020x6 | 20 | 1/2 | 1/2 | 0.450 | 2.5 |




## Martin Stocks 14½°and 20° Spur Gears

## Rack in lengths up to 12' available on request

# Bevel Gears
# 20° Pressure Angle



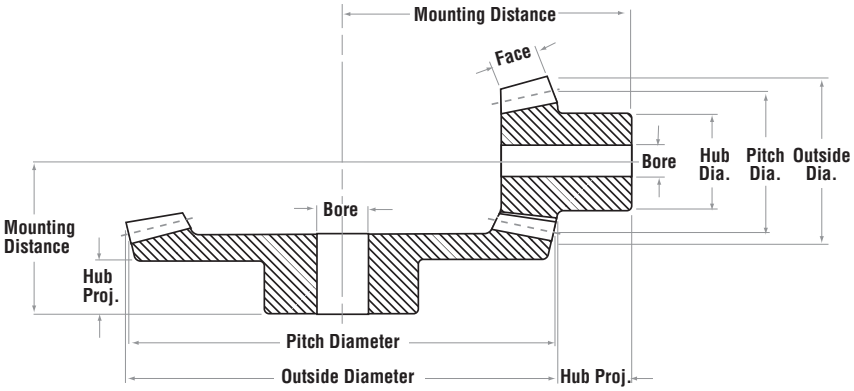

Bevel gears are used as right angle drives where high efficiency is required. They are carried in stock as 1:1 to 6:1 ratios. Bevel gears are cut with the long and short addendum system and 20 degree pressure angle to compensate for tooth undercut in gears and pinions having low numbers of teeth. Most all of Martin bevel gears are cut with the "coniflex" tooth form to allow for a slight misalignment at assembly and during operation. Gears should be mounted at the correct distance from the core of apex center with thrust bearings being used in back of hubs to absorb the backward thrust created in this type of gearing.

## Cast Iron Gears With Steel Pinions

| Number of Teeth | Part Number | Diameter | | Face (Inches) | Bore (inches) | | Mounting (Inches) | Hub (Inches) | | Wt. Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Diameter | Length | | Diameter | Projection | |
| **3 Pitch** | | | | | | | | | | |
| 30 | B330-2 | 10.00 | 10.19 | 1.87 | 1 1/4 | 3 19/32 | 5 1/2 | 5 | 2 | 32.8 |
| 15 | B315-2 | 5.00 | 5.80 | 1.87 | 1 1/8 | 4 1/32 | 7 1/4 | 3 3/4 | 1 15/16 | 13.4 |
| **4 Pitch** | | | | | | | | | | |
| 32 | B432-2 | 8.00 | 8.10 | 1.40 | 1 1/8 | 2 11/16 | 4 1/4 | 3 3/4 | 1 9/16 | 14.7 |
| 16 | B416-2 | 4.00 | 4.60 | 1.40 | 1 1/8 | 3 11/32 | 6 | 3 1/4 | 1 13/16 | 7.5 |
| 42 | B442-3 | 10.50 | 10.59 | 1.42 | 1 1/8 | 2 11/16 | 4 | 3 3/4 | 1 1/2 | 20.5 |
| 14 | B414-3 | 3.50 | 4.17 | 1.42 | 1 1/8 | 3 27/64 | 7 1/4 | 3 1/4 | 1 15/16 | 6.8 |
| 56 | B456-4 | 14.00 | 14.07 | 1.69 | 1 1/4 | 2 7/8 | 4 1/4 | 4 1/4 | 1 5/8 | 37.8 |
| 14 | B414-4 | 3.50 | 4.20 | 1.69 | 1 1/8 | 3 45/64 | 9 | 3 1/4 | 1 15/16 | 7.6 |
| **5 Pitch** | | | | | | | | | | |
| 30 | B530-2 | 6.00 | 6.12 | 1.04 | 1 1/8 | 2 1/4 | 3 1/2 | 3 1/4 | 1 3/8 | 8.6 |
| 15 | B515-2 | 3.00 | 3.48 | 1.04 | 1 | 2 25/64 | 4 3/8 | 2 5/8 | 1 9/32 | 3.1 |
| 45 | B545-3 | 9.00 | 9.07 | 1.31 | 1 1/4 | 2 1/2 | 3 3/4 | 3 3/4 | 1 11/16 | 14.6 |
| 15 | B515-3 | 3.00 | 3.54 | 1.31 | 1 | 2 11/16 | 5 7/8 | 2 5/8 | 1 5/16 | 3.6 |
| 60 | B560-4 | 12.00 | 12.05 | 1.70 | 1 1/4 | 2 5/8 | 3 3/4 | 4 | 1 9/16 | 23.2 |
| 15 | B515-4 | 3.00 | 3.56 | 1.70 | 1 | 3 13/64 | 7 1/2 | 3 | 1 1/2 | 5.0 |
| **6 Pitch** | | | | | | | | | | |
| 36 | BS636-2 | 6.00 | 6.10 | 1.06 | 11/8 | 2 1/4 | 3 1/2 | 3 1/4 | 1 1/2 | 7.5 |
| 18 | B618-2 | 3.00 | 3.42 | 1.06 | 1 | 2 49/64 | 4 3/4 | 2 1/2 | 1 5/8 | 3.3 |
| 42 | B642-2 | 7.00 | 7.10 | 1.05 | 11/8 | 2 19/64 | 3 3/4 | 3 1/2 | 1 1/2 | 9.5 |
| 21 | B621-2 | 3.50 | 3.90 | 1.05 | 1 | 2 33/64 | 5 | 2 1/2 | 1 1/4 | 3.8 |
| 45 | B645-3 | 7.50 | 7.56 | 1.07 | 1 1/8 | 2 1/8 | 3 | 3 1/4 | 1 1/4 | 8.9 |
| 15 | B615-3 | 2.50 | 2.94 | 1.07 | 7/8 | 2 9/16 | 5 1/4 | 2 1/8 | 1 7/16 | 2.2 |
| 48 | B648-2 | 8.00 | 8.10 | 1.17 | 1 1/8 | 1 57/64 | 3 7/16 | 3 1/4 | 1 | 11.6 |
| 24 | B624-2 | 4.00 | 4.40 | 1.17 | 1 | 2 35/64 | 5 7/16 | 2 5/8 | 1 1/4 | 4.9 |
| 60 | B660-4 | 10.00 | 10.04 | 1.21 | 1 1/8 | 2 1/4 | 3 1/4 | 3 1/4 | 1 3/8 | 14.3 |
| 15 | B615-4 | 2.50 | 2.97 | 1.21 | 1 | 2 31/32 | 6 3/4 | 21/2 | 1 3/4 | 3.2 |

Steel Bevel Gears may be furnished with hardened teeth at slight additional cost.

# Bevel Gears
# 20° Pressure Angle

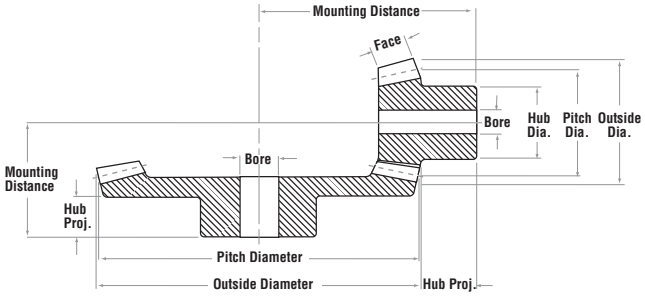



## Cast Iron Gears With Steel Pinions

| Number of Teeth | Part Number | Diameter | | Face (Inches) | Bore (inches) | | Mounting (Inches) | Hub (Inches) | | Wt. Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Diameter | Length | | Diameter | Projection | |
| **8 Pitch** | | | | | | | | | | |
| 40 | BS840-2 | 5.00 | 5.07 | 0.82 | 1 | 1 27/32 | 2 7/8 | 3 | 1 1/4 | 4.9 |
| 20 | B820-2 | 2.50 | 2.80 | 0.82 | 7/8 | 2 9/32 | 4 | 2 1/8 | 1 13/32 | 1.9 |
| 48 | B848-3 | 6.05 | 6.20 | 0.84 | 7/8 | 1 5/8 | 2 3/8 | 2 3/4 | 1 | 4.5 |
| 16 | B816-3 | 2.00 | 2.33 | 0.84 | 3/4 | 2 5/64 | 4 1/4 | 1 3/4 | 1 3/16 | 1.2 |
| 64 | B864-4 | 8.00 | 8.03 | 0.84 | 1 | 1 7/8 | 2 3/4 | 2 3/4 | 1 1/4 | 9.0 |
| 16 | B816-4 | 2.00 | 2.35 | 0.84 | 7/8 | 2 3/32 | 5 1/4 | 1 7/8 | 1 7/32 | 1.3 |
| 72 | B872-4 | 9.00 | 9.03 | 1.22 | 1 1/8 | 2 5/16 | 3 1/4 | 3 | 1 11/16 | 12.2 |
| 18 | B818-4 | 2.25 | 2.60 | 1.22 | 7/8 | 2 15/32 | 5 3/4 | 2 1/8 | 1 7/32 | 1.9 |
| **10 Pitch** | | | | | | | | | | |
| 60 | B1060-3 | 6.00 | 6.04 | 0.78 | 7/8 | 1 29/32 | 2 3/4 | 3 | 1 3/8 | 5.1 |
| 20 | B1020-3 | 2.00 | 2.27 | 0.78 | 3/4 | 2 5/32 | 4 3/8 | 1 3/4 | 1 5/16 | 1.3 |
| 60 | B1060-4 | 6.00 | 6.03 | 0.72 | 7/8 | 1 5/8 | 2 1/4 | 2 1/2 | 1 1/8 | 4.5 |
| 15 | B1015-4 | 1.50 | 1.78 | 0.72 | 5/8 | 1 39/64 | 3 7/8 | 1 7/16 | 27/32 | 0.6 |
| 90 | B1090-6 | 9.00 | 9.03 | 0.86 | 1 | 1 13/16 | 2 1/2 | 2 3/4 | 1 5/16 | 9.7 |
| 15 | B1015-6 | 1.50 | 1.79 | 0.86 | 5/8 | 1 55/64 | 5 1/2 | 1 7/16 | 31/32 | 0.7 |
| **12 Pitch** | | | | | | | | | | |
| 36 | B1236-2 | 3.00 | 3.05 | 0.46 | 5/8 | 7/8 | 1 1/2 | 1 7/16 | 1/2 | 0.8 |
| 18 | B1218-2 | 1.50 | 1.70 | 0.46 | 1/2 | 1 13/64 | 2 1/4 | 1 1/4 | 11/16 | 0.5 |
| 72 | B1272-4 | 6.00 | 6.02 | 0.60 | 3/4 | 1 5/16 | 2 | 2 | 61/64 | 2.6 |
| 18 | B1218-4 | 1.50 | 1.73 | 0.60 | 1/2 | 1 23/64 | 3 3/4 | 1 1/4 | 23/32 | 0.4 |
| 72 | B1272-6 | 6.00 | 6.02 | 0.74 | 3/4 | 1 5/16 | 1 3/4 | 2 | 61/64 | 2.6 |
| 12 | B1212-6 | 1.00 | 1.24 | 0.74 | 1/2 | 1 31/64 | 3 3/4 | 15/16 | 23/32 | 0.4 |

Steel Bevel Gears may be furnished with hardened teeth at slight additional cost.

# Bevel Gears
# 20° Pressure Angle




## Steel Gears With Steel Pinions

| Number of Teeth | Part Number | Diameter | | Face (Inches) | Bore (inches) | | Mounting (Inches) | Hub (Inches) | | Wt. Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Diameter | Length | | Diameter | Projection | |
| **6 Pitch** | | | | | | | | | | |
| 36 | BS636-2 | 6.00 | 6.10 | 1.06 | 1 1/8 | 2 1/4 | 3 1/2 | 3 1/4 | 1 1/2 | 8.70 |
| 18 | BS618-2 | 3.00 | 3.42 | 1.06 | 1 1/8 | 2 49/64 | 4 3/4 | 2 1/2 | 1 19/32 | 3.20 |
| **8 Pitch** | | | | | | | | | | |
| 40 | BS840-2 | 5.00 | 5.07 | 0.82 | 1 | 1 27/32 | 2 7/8 | 3 | 1 1/4 | 4.90 |
| 20 | BS820-2 | 2.50 | 2.80 | 0.82 | 1 | 2 9/32 | 4 | 2 1/8 | 1 13/32 | 1.80 |
| **10 Pitch** | | | | | | | | | | |
| 30 | BS1030-15 | 3.00 | 3.08 | 0.57 | 3/4 | 1 7/16 | 2 1/4 | 2 1/2 | 1 | 2.00 |
| 20 | BS1020-15 | 2.00 | 2.21 | 0.57 | 3/4 | 1 33/64 | 2 1/2 | 1 3/4 | 29/32 | 0.80 |
| 40 | BS1040-2 | 4.00 | 4.06 | 0.71 | 7/8 | 1 11/16 | 2 1/2 | 3 | 1 3/16 | 3.70 |
| 20 | BS1020-2 | 2.00 | 2.24 | 0.71 | 3/4 | 1 51/64 | 3 1/8 | 1 3/4 | 1 1/16 | 1.00 |
| 50 | BS1050-2 | 5.00 | 5.06 | 0.70 | 3/4 | 1 19/32 | 2 5/8 | 2 | 1 | 4.00 |
| 25 | B1025-2 | 2.50 | 2.74 | 0.70 | 3/4 | 1 35/64 | 3 3/8 | 2 | 3/4 | 1.50 |
| 60 | BS1060-3 | 6.00 | 6.04 | 0.78 | 1 | 1 55/64 | 2 3/4 | 3 | 1 3/8 | 6.00 |
| 20 | BS1020-3 | 2.00 | 2.27 | 0.78 | 7/8 | 2 5/32 | 4 3/8 | 1 3/4 | 1 5/16 | 0.90 |
| **12 Pitch** | | | | | | | | | | |
| 27 | BS1227-15 | 2.25 | 2.32 | 0.41 | 1/2 | 1 1/8 | 1 3/4 | 1 1/2 | 25/32 | 0.60 |
| 18 | BS1218-15 | 1.50 | 1.67 | 0.41 | 1/2 | 1 1/8 | 1 7/8 | 1 1/4 | 21/32 | 0.30 |
| 36 | BS1236-2 | 3.00 | 3.05 | 0.53 | 1 | 1 17/64 | 1 7/8 | 2 1/8 | 7/8 | 1.30 |
| 18 | BS1218-2 | 1.50 | 1.70 | 0.53 | 3/4 | 1 3/8 | 2 3/8 | 15/16 | 13/16 | 0.30 |
| 36 | BS1236-2A | 3.00 | 3.05 | 0.53 | 5/8 | 1 17/64 | 1 7/8 | 2 1/8 | 7/8 | 1.40 |
| 18 | BS1218-2A | 1.50 | 1.70 | 0.53 | 1/2 | 1 3/8 | 2 3/8 | 15/16 | 13/16 | 0.40 |
| 48 | BS1248-2 | 4.00 | 4.05 | 0.59 | 5/8 | 1 11/64 | 2 | 1 5/8 | 3/4 | 1.60 |
| 24 | B1224-2 | 2.00 | 2.20 | 0.59 | 1/2 | 1 7/16 | 2 7/8 | 1 1/2 | 3/4 | 0.80 |
| 54 | BS1254-3 | 4.50 | 4.53 | 0.60 | 5/8 | 1 1/16 | 1 3/4 | 1 3/4 | 3/4 | 1.90 |
| 18 | B1218-3 | 1.50 | 1.72 | 0.60 | 1/2 | 1 11/32 | 3 | 1 1/4 | 11/16 | 0.40 |
| **14 Pitch** | | | | | | | | | | |
| 28 | BS1428-2 | 2.00 | 2.04 | 0.35 | 1/2 | 15/16 | 1 3/8 | 1 5/8 | 21/32 | 0.50 |
| 14 | BS1414-2 | 1.00 | 1.17 | 0.35 | 1/2 | 31/32 | 1 5/8 | 13/16 | 9/16 | 0.10 |
| **16 Pitch** | | | | | | | | | | |
| 24 | BS1624-2 | 1.50 | 1.54 | 0.19 | 1/2 | 5/8 | 1 | 1 | 7/16 | 0.15 |
| 12 | BS1612-2 | 0.75 | 0.91 | 0.19 | 3/8 | 37/64 | 1 1/8 | 21/32 | 11/32 | 0.08 |
| 24 | BS1624-15 | 1.50 | 1.55 | 0.25 | 1/2 | 3/4 | 13/16 | 1 1/8 | 9/16 | 0.40 |
| 16 | BS1616-15 | 1.00 | 1.13 | 0.25 | 3/8 | 47/64 | 1 1/4 | 13/16 | 7/16 | 0.09 |
| 32 | BS1632-2 | 2.00 | 2.04 | 0.35 | 1/2 | 49/64 | 13/16 | 1 1/8 | 1/2 | 0.30 |
| 16 | BS1616-2 | 1.00 | 1.15 | 0.35 | 3/8 | 27/32 | 1 1/2 | 13/16 | 7/16 | 0.04 |
| 48 | BS1648-3 | 3.00 | 3.02 | 0.42 | 5/8 | 7/8 | 15/16 | 1 1/2 | 9/16 | 0.74 |
| 16 | B1616-3 | 1.00 | 1.17 | 0.42 | 7/16 | 59/64 | 2 | 7/8 | 15/32 | 0.13 |
| 64 | BS1664-4 | 4.00 | 4.02 | 0.48 | 5/8 | 57/64 | 1 3/8 | 2 1/4 | 9/16 | 1.70 |
| 16 | B1616-4 | 1.00 | 1.17 | 0.48 | 1/2 | 63/64 | 2 1/2 | 13/16 | 15/32 | 0.12 |

Steel Bevel Gears may be furnished with hardened teeth at slight additional cost.

# Bevel Gears
# Horsepower Ratings

## Cast Iron

| Part Number | Revolutions per Minute | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 50 | 100 | 200 | 300 | 600 | 900 | 1200 | 1800 |
| B330-2 | 2.50 | 4.50 | 7.7 | 10.0 | 15.3 | | | |
| B315-2 | 2.50 | 4.50 | 7.7 | 10.0 | 15.3 | | | |
| B432-2 | 1.33 | 2.30 | 4.0 | 5.3 | 8.0 | 9.5 | | |
| B416-2 | 1.33 | 2.30 | 4.0 | 5.3 | 8.0 | 9.5 | | |
| B442-3 | 1.10 | 2.00 | 3.7 | 5.0 | 7.5 | 9.0 | | |
| B414-3 | 1.10 | 2.00 | 3.7 | 5.0 | 7.5 | 9.0 | | |
| B456-4 | 1.40 | 2.50 | 4.4 | 6.0 | 9.0 | 10.9 | | |
| B414-4 | 1.40 | 2.50 | 4.4 | 6.0 | 9.0 | 10.9 | | |
| B530-2 | 0.50 | 1.00 | 1.9 | 2.5 | 3.9 | 4.8 | 5.5 | |
| B515-2 | 0.50 | 1.00 | 1.9 | 2.5 | 3.9 | 4.8 | 5.5 | |
| B545-3 | 0.70 | 1.40 | 2.4 | 3.3 | 5.2 | 6.4 | 7.2 | |
| B515-3 | 0.70 | 1.40 | 2.4 | 3.3 | 5.2 | 6.4 | 7.2 | |
| B560-4 | 1.00 | 1.80 | 3.3 | 4.4 | 6.9 | 8.4 | 9.5 | |
| B515-4 | 1.00 | 1.80 | 3.3 | 4.4 | 6.9 | 8.4 | 9.5 | |
| B636-2 | 0.50 | 1.00 | 1.7 | 2.3 | 3.7 | 4.4 | 5.0 | |
| B618-2 | 0.50 | 1.00 | 1.7 | 2.3 | 3.7 | 4.4 | 5.0 | |
| B642-2 | 0.60 | 1.10 | 2.0 | 2.7 | 4.0 | 5.0 | | |
| B621-2 | 0.60 | 1.10 | 2.0 | 2.7 | 4.0 | 5.0 | | |
| B645-3 | 0.40 | 0.80 | 1.4 | 2.0 | 3.2 | 3.9 | 4.6 | |
| B615-3 | 0.40 | 0.80 | 1.4 | 2.0 | 3.2 | 3.9 | 4.6 | |
| B648-2 | 0.80 | 1.50 | 2.5 | 3.4 | 5.1 | 6.1 | | |
| B624-2 | 0.80 | 1.50 | 2.5 | 3.4 | 5.1 | 6.1 | | |
| B660-4 | 0.50 | 0.90 | 1.7 | 2.3 | 3.7 | 4.6 | 5.2 | |
| B615-4 | 0.50 | 0.90 | 1.7 | 2.3 | 3.7 | 4.6 | 5.2 | |
| B840-2 | 0.40 | 0.70 | 1.3 | 1.8 | 2.9 | 3.7 | 4.2 | |
| B820-2 | 0.40 | 0.70 | 1.3 | 1.8 | 2.9 | 3.7 | 4.2 | |
| B848-3 | 0.20 | 0.40 | 0.7 | 1.0 | 1.7 | 2.2 | 2.5 | 2.9 |
| B816-3 | 0.20 | 0.40 | 0.7 | 1.0 | 1.7 | 2.2 | 2.5 | 2.9 |
| B864-4 | 0.20 | 0.40 | 0.7 | 1.0 | 1.7 | 2.2 | 2.5 | |
| B816-4 | 0.20 | 0.40 | 0.7 | 1.0 | 1.7 | 2.2 | 2.5 | |
| B872-4 | 0.40 | 0.70 | 1.2 | 1.8 | 2.8 | 3.6 | 4.2 | |
| B818-4 | 0.40 | 0.70 | 1.2 | 1.8 | 2.8 | 3.6 | 4.2 | |
| B1060-3 | 0.17 | 0.30 | 0.6 | 0.8 | 1.3 | 1.7 | 1.9 | 2.3 |
| B1020-3 | 0.17 | 0.30 | 0.6 | 0.8 | 1.3 | 1.7 | 1.9 | 2.3 |
| B1060-4 | 0.10 | 0.20 | 0.4 | 0.5 | 0.9 | 1.2 | 1.4 | 1.8 |
| B1015-4 | 0.10 | 0.20 | 0.4 | 0.5 | 0.9 | 1.2 | 1.4 | 1.8 |
| B1090-6 | 0.14 | 0.25 | 0.5 | 0.7 | 1.2 | 1.7 | 1.9 | 2.3 |
| B1015-6 | 0.14 | 0.25 | 0.5 | 0.7 | 1.2 | 1.7 | 1.9 | 2.3 |
| B1236-2 | 0.05 | 0.11 | 0.2 | 0.3 | 0.5 | 0.6 | 0.8 | 1.0 |
| B1218-2 | 0.05 | 0.11 | 0.2 | 0.3 | 0.5 | 0.6 | 0.8 | 1.0 |
| B1254-3 | 0.07 | 0.15 | 0.3 | 0.4 | 0.7 | 0.9 | 1.0 | 1.3 |
| B1218-3 | 0.07 | 0.15 | 0.3 | 0.4 | 0.7 | 0.9 | 1.0 | 1.3 |
| B1272-4 | 0.07 | 0.15 | 0.3 | 0.4 | 0.7 | 0.9 | 1.1 | 1.4 |
| B1218-4 | 0.07 | 0.15 | 0.3 | 0.4 | 0.7 | 0.9 | 1.1 | 1.4 |
| B1272-6 | 0.06 | 0.11 | 0.2 | 0.3 | 0.6 | 0.8 | 1.0 | 1.2 |
| B1212-6 | 0.06 | 0.11 | 0.2 | 0.3 | 0.6 | 0.8 | 1.0 | 1.2 |

## Steel

| Part Number | Revolutions per Minute | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 50 | 100 | 200 | 300 | 600 | 900 | 1200 | 1800 |
| BS636-2 | 0.9 | 1.70 | 3.00 | 4.10 | 6.40 | 8.00 | 9.00 | |
| BS618-2 | 0.9 | 1.70 | 3.00 | 4.10 | 6.40 | 8.00 | 9.00 | |
| BS840-2 | 0.5 | 0.90 | 1.50 | 2.10 | 3.50 | 4.40 | 5.00 | |
| BS820-2 | 0.5 | 0.90 | 1.50 | 2.10 | 3.50 | 4.40 | 5.00 | |
| BS1030-15 | 0.2 | 0.40 | 0.70 | 1.00 | 1.70 | 2.10 | 2.30 | 2.9 |
| BS1020-15 | 0.2 | 0.40 | 0.70 | 1.00 | 1.70 | 2.10 | 2.30 | 2.9 |
| BS1040-2 | 0.25 | 0.50 | 0.90 | 1.30 | 2.10 | 2.70 | 3.00 | 3.7 |
| BS1020-2 | 0.25 | 0.50 | 0.90 | 1.30 | 2.10 | 2.70 | 3.00 | 3.7 |
| BS1050-2 | 0.33 | 0.64 | 1.20 | 1.60 | 2.50 | 3.20 | 3.70 | |
| BS1025-2 | 0.33 | 0.64 | 1.20 | 1.60 | 2.50 | 3.20 | 3.70 | |
| BS1060-3 | 0.3 | 0.50 | 1.00 | 1.40 | 2.40 | 3.00 | 3.50 | 4.3 |
| BS1020-3 | 0.3 | 0.50 | 1.00 | 1.40 | 2.40 | 3.00 | 3.50 | 4.3 |
| BS1227-15 | 0.09 | 0.17 | 0.33 | 0.50 | 0.80 | 1.00 | 1.20 | 1.6 |
| BS1218-15 | 0.09 | 0.17 | 0.33 | 0.50 | 0.80 | 1.00 | 1.20 | 1.6 |
| BS1236-2 | 0.12 | 0.25 | 0.40 | 0.60 | 1.00 | 1.40 | 1.70 | 2.0 |
| BS1218-2 | 0.12 | 0.25 | 0.40 | 0.60 | 1.00 | 1.40 | 1.70 | 2.0 |
| BS1236-2A | 0.12 | 0.25 | 0.40 | 0.60 | 1.00 | 1.40 | 1.70 | 2.0 |
| BS1218-2A | 0.12 | 0.25 | 0.40 | 0.60 | 1.00 | 1.40 | 1.70 | 2.0 |
| BS1248-2 | 0.18 | 0.37 | 0.70 | 0.90 | 1.60 | 2.00 | 2.30 | 2.8 |
| B1224-2 | 0.18 | 0.37 | 0.70 | 0.90 | 1.60 | 2.00 | 2.30 | 2.8 |
| BS1254-3 | 0.14 | 0.28 | 0.50 | 0.70 | 1.20 | 1.60 | 1.90 | 2.3 |
| B1218-3 | 0.14 | 0.28 | 0.50 | 0.70 | 1.20 | 1.60 | 1.90 | 2.3 |
| BS1428-2 | 0.05 | 0.08 | 0.16 | 0.20 | 0.40 | 0.54 | 0.70 | 0.8 |
| BS1414-2 | 0.05 | 0.08 | 0.16 | 0.20 | 0.40 | 0.54 | 0.70 | 0.8 |
| BS1624-2 | 0.02 | 0.03 | 0.05 | 0.08 | 0.14 | 0.20 | 0.25 | 0.3 |
| BS1612-2 | 0.02 | 0.03 | 0.05 | 0.08 | 0.14 | 0.20 | 0.25 | 0.3 |
| BS1624-15 | 0.03 | 0.05 | 0.09 | 0.14 | 0.25 | 0.33 | 0.40 | 0.5 |
| BS1612-15 | 0.03 | 0.05 | 0.09 | 0.14 | 0.25 | 0.33 | 0.40 | 0.5 |
| BS1632-2 | 0.03 | 0.08 | 0.14 | 0.20 | 0.37 | 0.50 | 0.60 | 0.8 |
| BS1616-2 | 0.03 | 0.08 | 0.14 | 0.20 | 0.37 | 0.50 | 0.60 | 0.8 |
| BS1648-3 | 0.05 | 0.09 | 0.17 | 0.25 | 0.50 | 0.60 | 0.80 | 1.0 |
| BS1616-3 | 0.05 | 0.09 | 0.17 | 0.25 | 0.50 | 0.60 | 0.80 | 1.0 |
| BS1664-4 | 0.05 | 0.10 | 0.20 | 0.33 | 0.50 | 0.70 | 0.90 | 1.1 |
| BS1616-4 | 0.05 | 0.10 | 0.20 | 0.33 | 0.50 | 0.70 | 0.90 | 1.1 |

# Miter Gears
# 20° Pressure Angle

Miter gears are ordinarily used as right angle drives, transmitting horsepower between intersecting shafts at a 1:1 ratio. They are used where high efficiency is required. Only miters of the same number of teeth, pitch, and pressure angle can be operated together. More than two miters may be used in sets, as in a differential.

The thrust of miter gears causes the gears to separate; therefore, ball bearings or roller bearings should be used rather than sleeve bearings. Provisions should be made using thrust bearings to absorb backward thrust.

All standard stock miter gears must be mounted at right angles (90 degrees) for proper tooth bearing.

All Martin miter and bevel gears are generated with the "coniflex" tooth form. A slight misalignment of gears is permissible because of the localized tooth bearing running lengthwise along the gear tooth.

The mounting distance must be held in order to maintain proper backlash between gears. This will also insure that the ends of the gear teeth will be flush with each other. The use of a straight mineral oil as a lubricant is recommended for most miter gear applications.

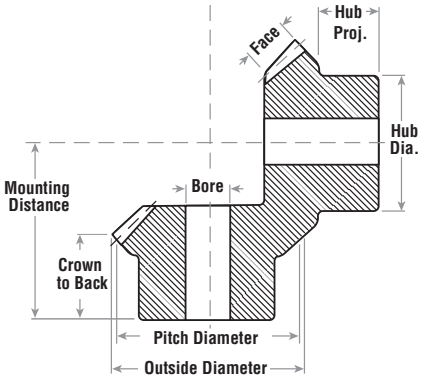
Martin stock miter gears are manufactured from 1144 Carbon steel.

The “M” series is furnished unhardened with plain bore. The “HM” series is furnished hardened teeth with plain bore. The “HMK” series is furnished hardened teeth with keyway and setscrew for installation on the shaft.

Hardened miter gears have approximately 50% more horsepower capacity and provide greater gear wear than untreated gears.

All Martin miter gears are cut with the 20° pressure angle system. They will not operate with any other pressure angle system.

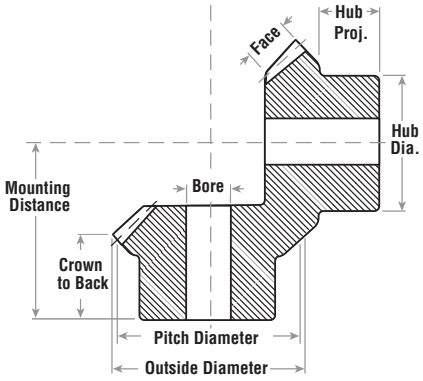
# Miter Gears
# 20° Pressure Angle




## Steel - Plain Bore — Unhardened Teeth

| Number of Teeth | Part Number | Diameter | | Face (Inches) | Bore (inches) | | Mounting (Inches) | Hub (Inches) | | Wt. Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Diameter | Length | | Diameter | Projection | |
| **4 Pitch** | | | | | | | | | | |
| 24 | M424 | 6.00 | 6.36 | 1.33 | 1 1/2 | 3 9/16 | 5 1/2 | 4 | 1 15/16 | 14.4 |
| 24 | M424A | 6.00 | 6.36 | 1.33 | 1 3/4 | 3 9/16 | 5 1/2 | 4 | 1 15/16 | 13.7 |
| 28 | M428 | 7.00 | 7.36 | 1.43 | 2 | 3 5/8 | 6 | 5 | 1 15/16 | 21.1 |
| **5 Pitch** | | | | | | | | | | |
| 25 | M525 | 5.00 | 5.29 | 1.10 | 1 3/8 | 3 | 4 5/8 | 3 1/2 | 1 3/4 | 8.5 |
| 25 | M525A | 5.00 | 5.29 | 1.10 | 1 1/2 | 3 | 4 5/8 | 3 1/2 | 1 3/4 | 8.3 |
| 25 | M525B | 5.00 | 5.29 | 1.10 | 1 3/4 | 3 | 4 5/8 | 3 1/2 | 1 3/4 | 7.8 |
| **6 Pitch** | | | | | | | | | | |
| 24 | M624 | 4.00 | 4.24 | 0.86 | 1 1/4 | 2 5/16 | 3 5/8 | 3 | 1 5/16 | 4.4 |
| 24 | M624A | 4.00 | 4.24 | 0.86 | 1 1/2 | 2 5/16 | 3 5/8 | 3 | 1 5/16 | 4.3 |
| 27 | M627 | 4.50 | 4.74 | 0.96 | 1 1/4 | 2 5/8 | 4 1/8 | 3 1/4 | 1 1/2 | 6.3 |
| 27 | M627A | 4.50 | 4.74 | 0.96 | 1 1/2 | 2 5/8 | 4 1/8 | 3 1/4 | 1 1/2 | 5.9 |
| **8 Pitch** | | | | | | | | | | |
| 24 | M824 | 3.00 | 3.18 | 0.64 | 3/4 | 1 37/64 | 2 9/16 | 1 3/4 | 13/16 | 1.5 |
| 24 | M824A | 3.00 | 3.18 | 0.64 | 1 | 1 49/64 | 2 3/4 | 2 1/2 | 1 | 2.1 |
| 24 | M824B | 3.00 | 3.18 | 0.64 | 1 1/4 | 1 49/64 | 2 3/4 | 2 1/2 | 1 | 1.9 |
| 28 | M828 | 3.50 | 3.68 | 0.75 | 1 | 2 3/32 | 3 1/4 | 2 1/2 | 1 1/4 | 2.9 |
| 28 | M828A | 3.50 | 3.68 | 0.75 | 1 3/16 | 2 3/32 | 3 1/4 | 2 1/2 | 1 1/4 | 2.8 |
| 28 | M828B | 3.50 | 3.68 | 0.75 | 1 1/4 | 2 3/32 | 3 1/4 | 2 1/2 | 1 1/4 | 2.6 |
| 32 | M832 | 4.00 | 4.18 | 0.84 | 1 | 2 9/32 | 3 5/8 | 3 | 1 1/8 | 4.8 |
| **10 Pitch** | | | | | | | | | | |
| 20 | M1020A | 2.00 | 2.14 | 0.44 | 1/2 | 1 23/64 | 2 | 1 5/8 | 13/16 | 0.75 |
| 20 | M1020B | 2.00 | 2.14 | 0.44 | 5/8 | 1 23/64 | 2 | 1 5/8 | 13/16 | 0.72 |
| 20 | M1020 | 2.00 | 2.14 | 0.44 | 3/4 | 1 23/64 | 2 | 1 5/8 | 13/16 | 0.67 |
| 20 | M1020C | 2.00 | 2.14 | 0.44 | 7/8 | 1 23/64 | 2 | 1 5/8 | 13/16 | 0.58 |
| 25 | M1025 | 2.50 | 2.64 | 0.55 | 3/4 | 1 5/8 | 2 7/16 | 2 | 15/16 | 1.20 |
| 25 | M1025A | 2.50 | 2.64 | 0.55 | 7/8 | 1 5/8 | 2 7/16 | 2 | 15/16 | 1.20 |
| 25 | M1025B | 2.50 | 2.64 | 0.55 | 1 | 1 5/8 | 2 7/16 | 2 | 15/16 | 1.20 |
| 30 | M1030 | 3.00 | 3.14 | 0.64 | 3/4 | 1 3/4 | 2 3/4 | 2 | 1 | 1.80 |

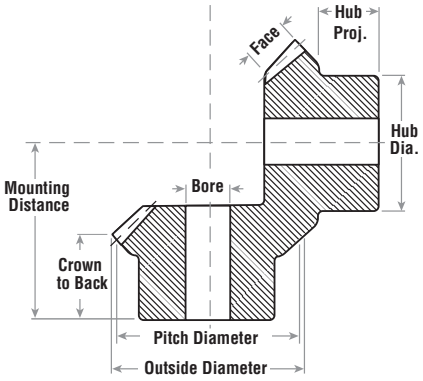
# Miter Gears
# 20° Pressure Angle




## Steel - Plain Bore — Unhardened Teeth

| Number of Teeth | Part Number | Diameter | | Face (Inches) | Bore (inches) | | Mounting (Inches) | Hub (Inches) | | Wt. Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Diameter | Length | | Diameter | Projection | |
| **12 Pitch** | | | | | | | | | | |
| 15 | M1215 | 1.25 | 1.37 | 0.27 | 3/8 | 55/64 | 1 1/4 | 1 | 1/2 | 0.17 |
| 15 | M1215A | 1.25 | 1.37 | 0.27 | 7/16 | 55/64 | 1 1/4 | 1 | 1/2 | 0.16 |
| 15 | M1215B | 1.25 | 1.37 | 0.27 | 1/2 | 55/64 | 1 1/4 | 1 | 1/2 | 0.15 |
| 18 | M1218 | 1.50 | 1.62 | 0.32 | 1/2 | 1 1/64 | 1 1/2 | 1 1/4 | 5/8 | 0.30 |
| 18 | M1218A | 1.50 | 1.62 | 0.32 | 5/8 | 1 1/64 | 1 1/2 | 1 1/4 | 5/8 | 0.25 |
| 18 | M1218B | 1.50 | 1.62 | 0.32 | 3/4 | 1 1/64 | 1 1/2 | 1 1/4 | 5/8 | 0.22 |
| 21 | M1221 | 1.75 | 1.87 | 0.39 | 1/2 | 1 3/16 | 1 3/4 | 1 3/8 | 11/16 | 0.45 |
| 21 | M1221A | 1.75 | 1.87 | 0.39 | 9/16 | 1 3/16 | 1 3/4 | 1 3/8 | 11/16 | 0.45 |
| 21 | M1221B | 1.75 | 1.87 | 0.39 | 5/8 | 1 3/16 | 1 3/4 | 1 3/8 | 11/16 | 0.43 |
| 21 | M1221C | 1.75 | 1.87 | 0.39 | 3/4 | 1 3/16 | 1 3/4 | 1 3/8 | 11/16 | 0.38 |
| 24 | M1224 | 2.00 | 2.12 | 0.43 | 1/2 | 1 7/32 | 1 7/8 | 1 1/2 | 11/16 | 0.62 |
| 30 | M1230 | 2.50 | 2.62 | 0.54 | 5/8 | 1 31/64 | 2 5/16 | 1 3/4 | 27/32 | 1.10 |
| **14 Pitch** | | | | | | | | | | |
| 14 | M1414 | 1.00 | 1.11 | 0.19 | 3/8 | 47/64 | 1 1/16 | 7/8 | 1/2 | 0.10 |
| 14 | M1414A | 1.00 | 1.11 | 0.19 | 7/16 | 47/64 | 1 1/16 | 7/8 | 1/2 | 0.09 |
| **16 Pitch** | | | | | | | | | | |
| 12 | M1612 | 0.75 | 0.84 | 0.16 | 5/16 | 37/64 | 13/16 | 5/8 | 3/8 | 0.05 |
| 16 | M1616 | 1.00 | 1.09 | 0.22 | 3/8 | 3/4 | 1 1/16 | 3/4 | 7/16 | 0.07 |
| 20 | M1620 | 1.25 | 1.34 | 0.27 | 7/16 | 27/32 | 1 1/4 | 1 | 1/2 | 0.16 |
| 24 | M1624 | 1.50 | 1.59 | 0.31 | 1/2 | 7/8 | 1 3/8 | 1 | 1/2 | 0.20 |
| **20 Pitch** | | | | | | | | | | |
| 20 | M2020 | 1.00 | 1.07 | 0.23 | 3/8 | 13/16 | 1 1/8 | 3/4 | 1/2 | 0.06 |
| 25 | M2025 | 1.25 | 1.32 | 0.25 | 3/8 | 3/4 | 1 3/16 | 1 | 3/8 | 0.14 |
| **24 Pitch** | | | | | | | | | | |
| 24 | M2424 | 1.00 | 1.06 | 0.20 | 1/4 | 9/16 | 29/32 | 5/8 | 9/32 | 0.12 |

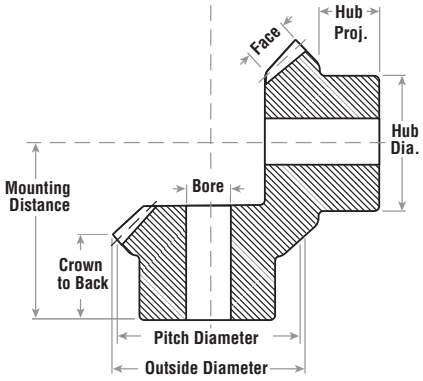
# Miter Gears
# 20° Pressure Angle




## Steel - Plain Bore — Hardened Teeth

| Number of Teeth | Part Number | Diameter | | Face (Inches) | Bore (inches) | | Mounting (Inches) | Hub (Inches) | | Wt. Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Diameter | Length | | Diameter | Projection | |
| **4 Pitch** | | | | | | | | | | |
| 24 | HM424 | 6.00 | 6.36 | 1.33 | 1 1/2 | 3 9/16 | 5 1/2 | 4 | 1 15/16 | 14.4 |
| 24 | HM424A | 6.00 | 6.36 | 1.33 | 1 3/4 | 3 9/16 | 5 1/2 | 4 | 1 15/16 | 13.7 |
| 28 | HM428 | 7.00 | 7.36 | 1.43 | 2 | 3 5/8 | 6 | 5 | 1 15/16 | 21.1 |
| **5 Pitch** | | | | | | | | | | |
| 25 | HM525 | 5.00 | 5.29 | 1.10 | 1 3/8 | 3 | 4 5/8 | 3 1/2 | 1 3/4 | 8.5 |
| 25 | HM525A | 5.00 | 5.29 | 1.10 | 1 1/2 | 3 | 4 5/8 | 3 1/2 | 1 3/4 | 8.3 |
| 25 | HM525B | 5.00 | 5.29 | 1.10 | 1 3/4 | 3 | 4 5/8 | 3 1/2 | 1 3/4 | 7.5 |
| **6 Pitch** | | | | | | | | | | |
| 24 | HM624 | 4.00 | 4.24 | 0.86 | 1 1/4 | 2 5/16 | 3 5/8 | 3 | 1 5/16 | 4.4 |
| 24 | HM624A | 4.00 | 4.24 | 0.86 | 1 1/2 | 2 5/16 | 3 5/8 | 3 | 1 5/16 | 4.0 |
| 27 | HM627 | 4.50 | 4.74 | 0.96 | 1 1/4 | 2 5/8 | 4 1/8 | 3 1/4 | 1 1/2 | 6.3 |
| 27 | HM627A | 4.50 | 4.74 | 0.96 | 1 1/2 | 2 5/8 | 4 1/8 | 3 1/4 | 1 1/2 | 5.9 |
| **8 Pitch** | | | | | | | | | | |
| 24 | HM824 | 3.00 | 3.18 | 0.64 | 3/4 | 1 37/64 | 2 9/16 | 1 3/4 | 13/16 | 1.5 |
| 24 | HM824A | 3.00 | 3.18 | 0.64 | 1 | 1 49/64 | 2 3/4 | 2 1/2 | 1 | 2.1 |
| 24 | HM824B | 3.00 | 3.18 | 0.64 | 1 1/4 | 1 49/64 | 2 3/4 | 2 1/2 | 1 | 2.6 |
| 28 | HM828 | 3.50 | 3.68 | 0.75 | 1 | 2 3/32 | 3 1/4 | 2 1/2 | 1 1/4 | 3.0 |
| 28 | HM828A | 3.50 | 3.68 | 0.75 | 1 3/16 | 2 3/32 | 3 1/4 | 2 1/2 | 1 1/4 | 2.8 |
| 28 | HM828B | 3.50 | 3.68 | 0.75 | 1 1/4 | 2 3/32 | 3 1/4 | 2 1/2 | 1 1/4 | 2.6 |
| 32 | HM832 | 4.00 | 4.18 | 0.85 | 1 | 2 9/32 | 3 5/8 | 3 | 1 1/8 | 4.7 |
| **10 Pitch** | | | | | | | | | | |
| 20 | HM1020A | 2.00 | 2.14 | 0.44 | 1/2 | 1 23/64 | 2 | 1 5/8 | 13/16 | 0.76 |
| 20 | HM1020B | 2.00 | 2.14 | 0.44 | 5/8 | 1 23/64 | 2 | 1 5/8 | 13/16 | 0.70 |
| 20 | HM1020 | 2.00 | 2.14 | 0.44 | 3/4 | 1 23/64 | 2 | 1 5/8 | 13/16 | 0.64 |
| 20 | HM1020C | 2.00 | 2.14 | 0.44 | 7/8 | 1 23/64 | 2 | 1 5/8 | 13/16 | 0.58 |
| 25 | HM1025 | 2.50 | 2.64 | 0.55 | 3/4 | 1 5/8 | 2 7/16 | 2 | 15/16 | 1.30 |
| 25 | HM1025A | 2.50 | 2.64 | 0.55 | 7/8 | 1 5/8 | 2 7/16 | 2 | 15/16 | 1.20 |
| 25 | HM1025B | 2.50 | 2.64 | 0.55 | 1 | 1 5/8 | 2 7/16 | 2 | 15/16 | 1.20 |
| 30 | HM1030 | 3.00 | 3.14 | 0.64 | 3/4 | 1 3/4 | 2 3/4 | 2 | 1 | 1.80 |

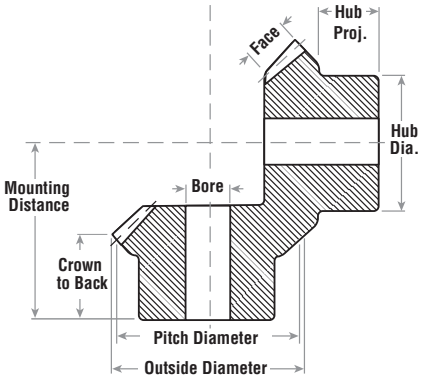
# Miter Gears
# 20° Pressure Angle




## Steel - Plain Bore — Hardened Teeth

| Number of Teeth | Part Number | Diameter | | Face (Inches) | Bore (inches) | | Mounting (Inches) | Hub (Inches) | | Wt. Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Diameter | Length | | Diameter | Projection | |
| **12 Pitch** | | | | | | | | | | |
| 15 | HM1215 | 1.25 | 1.37 | 0.27 | 3/8 | 55/64 | 1 1/4 | 1 | 1/2 | 0.15 |
| 15 | HM1215B | 1.25 | 1.37 | 0.27 | 1/2 | 55/64 | 1 1/4 | 1 | 1/2 | 0.15 |
| 18 | HM1218 | 1.50 | 1.62 | 0.32 | 1/2 | 1 1/64 | 1 1/2 | 1 1/4 | 5/8 | 0.30 |
| 18 | HM1218A | 1.50 | 1.62 | 0.32 | 5/8 | 1 1/64 | 1 1/2 | 1 1/4 | 5/8 | 0.25 |
| 18 | HM1218B | 1.50 | 1.62 | 0.32 | 3/4 | 1 1/64 | 1 1/2 | 1 1/4 | 5/8 | 0.22 |
| 21 | HM1221 | 1.75 | 1.87 | 0.39 | 1/2 | 1 3/16 | 1 3/4 | 1 3/8 | 11/16 | 0.22 |
| 21 | HM1221B | 1.75 | 1.87 | 0.39 | 5/8 | 1 3/16 | 1 3/4 | 1 3/8 | 11/16 | 0.42 |
| 24 | HM1224 | 2.00 | 2.12 | 0.43 | 1/2 | 1 7/32 | 1 7/8 | 1 1/2 | 11/16 | 0.62 |
| 30 | HM1230 | 2.50 | 2.62 | 0.54 | 5/8 | 1 31/64 | 2 5/16 | 1 3/4 | 27/32 | 1.10 |
| **14 Pitch** | | | | | | | | | | |
| 14 | HM1414 | 1.00 | 1.11 | 0.19 | 3/8 | 47/64 | 1 1/16 | 7/8 | 1/2 | 0.10 |
| 14 | HM1414A | 1.00 | 1.11 | 0.19 | 7/16 | 47/64 | 1 1/16 | 7/8 | 1/2 | 0.10 |
| **16 Pitch** | | | | | | | | | | |
| 16 | HM1616 | 1.00 | 1.09 | 0.22 | 3/8 | 3/4 | 1 1/16 | 3/4 | 7/16 | 0.07 |
| 24 | HM1624 | 1.50 | 1.59 | 0.31 | 1/2 | 7/8 | 13/8 | 1 | 1/2 | 0.20 |
| **24 Pitch** | | | | | | | | | | |
| 24 | HM2424 | 1.00 | 1.06 | 0.20 | 1/4 | 9/16 | 29/32 | 5/8 | 9/32 | 0.06 |

# Miter Gears
# 20° Pressure Angle




## Steel - Furnished with Keyway and Set Screw — Hardened Teeth

| Number of Teeth | Part Number | Diameter | | Face (Inches) | Bore (inches) | | Mounting (Inches) | Hub (Inches) | | Wt. Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Diameter | Length | | Diameter | Projection | |
| **4 Pitch** | | | | | | | | | | |
| 24 | HMK424A | 6.00 | 6.36 | 1.33 | 1 3/4 | 3 9/16 | 5 1/2 | 4 | 1 15/16 | 13.7 |
| **5 Pitch** | | | | | | | | | | |
| 25 | HMK525 | 5.00 | 5.29 | 1.10 | 1 3/8 | 3 | 4 5/8 | 3 1/2 | 1 3/4 | 8.5 |
| 25 | HMK525B | 5.00 | 5.29 | 1.10 | 1 3/4 | 3 | 4 5/8 | 3 1/2 | 1 3/4 | 7.5 |
| **6 Pitch** | | | | | | | | | | |
| 24 | HMK624 | 4.00 | 4.24 | 0.86 | 1 1/4 | 2 5/16 | 3 5/8 | 3 | 1 5/16 | 4.4 |
| 24 | HMK624A | 4.00 | 4.24 | 0.86 | 1 1/2 | 2 5/16 | 3 5/8 | 3 | 1 5/16 | 4.0 |
| 27 | HMK627 | 4.50 | 4.74 | 0.96 | 1 1/4 | 2 5/8 | 4 1/8 | 3 1/4 | 1 1/2 | 6.3 |
| 27 | HMK627A | 4.50 | 4.74 | 0.96 | 1 1/2 | 2 5/8 | 4 1/8 | 3 1/4 | 1 1/2 | 5.9 |
| **8 Pitch** | | | | | | | | | | |
| 24 | HMK824 | 3.00 | 3.18 | 0.64 | 3/4 | 1 37/64 | 2 9/16 | 1 3/4 | 13/16 | 1.5 |
| 24 | HMK824A | 3.00 | 3.18 | 0.64 | 1 | 1 49/64 | 2 3/4 | 2 1/2 | 1 | 2.1 |
| 24 | HMK824B | 3.00 | 3.18 | 0.64 | 1 1/4 | 1 49/64 | 2 3/4 | 2 1/2 | 1 | 1.8 |
| 28 | HMK828 | 3.50 | 3.68 | 0.75 | 1 | 2 3/32 | 3 1/4 | 2 1/2 | 1 1/4 | 2.9 |
| 28 | HMK828A | 3.50 | 3.68 | 0.75 | 1 3/16 | 2 3/32 | 3 1/4 | 2 1/2 | 1 1/4 | 2.7 |
| 28 | HMK828B | 3.50 | 3.68 | 0.75 | 1 1/4 | 2 3/32 | 3 1/4 | 2 1/2 | 1 1/4 | 2.6 |
| **10 Pitch** | | | | | | | | | | |
| 20 | HMK1020A | 2.00 | 2.14 | 0.44 | 1/2 | 1 23/64 | 2 | 1 5/8 | 13/16 | 0.74 |
| 20 | HMK1020B | 2.00 | 2.14 | 0.44 | 5/8 | 1 23/64 | 2 | 1 5/8 | 13/16 | 0.70 |
| 20 | HMK1020 | 2.00 | 2.14 | 0.44 | 3/4 | 1 23/64 | 2 | 1 5/8 | 13/16 | 0.63 |
| 20 | HMK1020C | 2.00 | 2.14 | 0.44 | 7/8 | 1 23/64 | 2 | 1 5/8 | 13/16 | 0.58 |
| 25 | HMK1025 | 2.50 | 2.64 | 0.55 | 3/4 | 1 5/8 | 2 7/16 | 2 | 15/16 | 1.30 |
| 25 | HMK1025A | 2.50 | 2.64 | 0.55 | 7/8 | 1 5/8 | 2 7/16 | 2 | 15/16 | 1.20 |
| 25 | HMK1025B | 2.50 | 2.64 | 0.55 | 1 | 1 5/8 | 2 7/16 | 2 | 15/16 | 1.10 |
| **12 Pitch** | | | | | | | | | | |
| 15 | HMK1215B | 1.25 | 1.37 | 0.27 | 1/2 | 55/64 | 1 1/4 | 1 | 1/2 | 0.14 |
| 18 | HMK1218A | 1.50 | 1.62 | 0.32 | 5/8 | 1 1/64 | 1 1/2 | 11/4 | 5/8 | 0.25 |
| 21 | HMK1221B | 1.75 | 1.87 | 0.39 | 5/8 | 1 3/16 | 1 3/4 | 1 3/8 | 11/16 | 0.41 |
| 30 | HMK1230 | 2.50 | 2.62 | 0.54 | 5/8 | 1 31/64 | 2 5/16 | 1 3/4 | 27/32 | 1.10 |
| **16 Pitch** | | | | | | | | | | |
| 16 | HMK1616 | 1.00 | 1.09 | 0.22 | 3/8 | 3/4 | 1 1/16 | 3/4 | 7/16 | 0.07 |
| 24 | HMK1624 | 1.50 | 1.59 | 0.31 | 1/2 | 7/8 | 1 3/8 | 1 | 1/2 | 0.20 |

# Miter Gear Horsepower Ratings

## Steel

| Part Number | Revolutions Per Minute | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 10 | 25 | 50 | 100 | 200 | 300 | 600 | 900 | 1200 | 1800 |
| M424 | 0.80 | 1.90 | 3.60 | 6.40 | 10.60 | 13.5 | 18.8 | 21.5 | 23.0 | |
| HM424 | 1.40 | 3.33 | 6.30 | 11.20 | 18.60 | 23.6 | 33.0 | 38.0 | 40.0 | |
| M428 | 1.07 | 2.50 | 4.80 | 8.40 | 13.60 | 17.2 | 23.3 | 26.5 | 28.5 | |
| HM428 | 1.90 | 4.50 | 8.40 | 14.70 | 23.80 | 30.0 | 40.0 | 46.0 | 50.0 | |
| M525 | 0.45 | 1.05 | 2.00 | 3.70 | 6.30 | 8.1 | 11.6 | 13.6 | 15.0 | |
| HM525 | 0.75 | 1.90 | 3.60 | 6.50 | 11.00 | 14.2 | 20.0 | 24.0 | 26.0 | |
| M624 | 0.25 | 0.55 | 1.10 | 2.00 | 3.50 | 4.6 | 6.9 | 8.2 | 19.0 | 10.2 |
| HM624 | 0.40 | 1.00 | 1.90 | 3.50 | 6.10 | 8.0 | 12.0 | 14.5 | 16.0 | 18.0 |
| M627 | 0.30 | 0.75 | 1.40 | 2.50 | 4.30 | 5.7 | 8.5 | 9.9 | 11.0 | 12.0 |
| HM627 | 0.50 | 1.33 | 2.50 | 4.40 | 7.50 | 10.0 | 1.5 | 17.5 | 19.0 | 21.0 |
| M824 | 0.10 | 0.25 | 0.50 | 0.90 | 1.50 | 2.1 | 3.3 | 4.0 | 4.5 | 5.3 |
| HM824 | 0.20 | 0.40 | 0.80 | 1.50 | 2.60 | 3.7 | 5.8 | 7.0 | 8.0 | 9.3 |
| M828 | 0.15 | 0.33 | 0.70 | 1.20 | 2.20 | 2.9 | 4.4 | 5.3 | 6.0 | 6.8 |
| HM828 | 0.25 | 0.60 | 1.20 | 2.10 | 3.90 | 5.0 | 7.7 | 9.3 | 10.5 | 12.0 |
| M832 | 0.20 | 0.45 | 0.90 | 1.60 | 2.80 | 3.7 | 5.5 | 6.5 | 7.2 | 8.0 |
| HM832 | 0.33 | 0.80 | 1.50 | 2.80 | 4.90 | 6.5 | 9.6 | 11.4 | 12.5 | 14.2 |
| M1020 | 0.03 | 0.08 | 0.20 | 0.30 | 0.60 | 0.8 | 1.3 | 1.7 | 2.0 | 2.4 |
| HM1020 | 0.05 | 0.15 | 0.30 | 0.50 | 1.00 | 1.4 | 2.3 | 3.0 | 3.5 | 4.2 |
| M1025 | 0.06 | 0.15 | 0.30 | 0.50 | 0.90 | 1.3 | 2.0 | 2.5 | 2.9 | 3.5 |
| HM1025 | 0.10 | 0.25 | 0.50 | 0.90 | 1.60 | 2.3 | 3.5 | 4.4 | 5.0 | 6.0 |
| M1030 | 0.08 | 0.20 | 0.40 | 0.70 | 1.30 | 1.8 | 2.8 | 3.5 | 3.9 | 4.5 |
| HM1030 | 0.15 | 0.33 | 0.70 | 1.30 | 2.30 | 3.2 | 4.9 | 6.1 | 6.8 | 8.0 |
| M1215 | 0.01 | 0.02 | 0.05 | 0.10 | 0.20 | 0.3 | 0.5 | 0.6 | 0.8 | 0.9 |
| HM1215 | 0.02 | 0.04 | 0.10 | 0.17 | 0.33 | 0.4 | 0.8 | 1.0 | 1.3 | 1.6 |
| M1218 | 0.01 | 0.03 | 0.08 | 0.14 | 0.25 | 0.4 | 0.7 | 0.9 | 1.0 | 1.3 |
| HM1218 | 0.02 | 0.05 | 0.15 | 0.25 | 0.47 | 0.7 | 1.1 | 1.5 | 1.8 | 2.2 |
| M1221 | 0.02 | 0.05 | 0.11 | 0.20 | 0.40 | 0.5 | 0.9 | 1.2 | 1.4 | 1.7 |
| HM1221 | 0.04 | 0.10 | 0.20 | 0.33 | 0.70 | 1.0 | 1.6 | 2.1 | 2.5 | 3.0 |
| M1224 | 0.03 | 0.07 | 0.15 | 0.25 | 0.50 | 0.7 | 1.2 | 1.5 | 1.7 | 2.0 |
| HM1224 | 0.05 | 0.12 | 0.25 | 0.47 | 0.90 | 1.2 | 2.1 | 2.6 | 3.0 | 3.5 |
| M1230 | 0.05 | 0.12 | 0.25 | 0.44 | 0.80 | 1.1 | 1.8 | 2.2 | 2.5 | 3.0 |
| HM1230 | 0.09 | 0.21 | 0.40 | 0.75 | 1.40 | 1.9 | 3.2 | 4.0 | 4.4 | 5.3 |
| M1414 | | 0.01 | 0.02 | 0.05 | 0.09 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 |
| HM1414 | | 0.02 | 0.04 | 0.09 | 0.16 | 0.2 | 0.4 | 0.6 | 0.7 | 0.9 |
| M1616 | | 0.01 | 0.02 | 0.05 | 0.09 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 |
| HM1616 | | 0.02 | 0.04 | 0.09 | 0.16 | 0.2 | 0.4 | 0.6 | 0.7 | 0.9 |
| M1620 | | 0.02 | 0.04 | 0.08 | 0.14 | 0.2 | 0.4 | 0.5 | 0.6 | 0.8 |
| HM1620 | | 0.04 | 0.07 | 0.15 | 0.25 | 0.4 | 0.7 | 0.9 | 1.0 | 1.3 |
| M1624 | | 0.03 | 0.06 | 0.12 | 0.20 | 0.3 | 0.5 | 0.7 | 0.8 | 1.0 |
| HM1624 | | 0.05 | 0.10 | 0.21 | 0.40 | 0.5 | 0.9 | 1.2 | 1.4 | 1.8 |
| M2020 | | 0.01 | 0.02 | 0.04 | 0.08 | 0.1 | 0.2 | 0.2 | 0.4 | 0.5 |
| HM2020 | | 0.02 | 0.04 | 0.07 | 0.14 | 0.2 | 0.4 | 0.5 | 0.6 | 0.8 |
| M2025 | | 0.02 | 0.03 | 0.06 | 0.12 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 |
| HM2025 | | 0.04 | 0.05 | 0.10 | 0.21 | 0.3 | 0.5 | 0.7 | 0.9 | 1.0 |

Ratings listed to right of dark line exceed recommended pitch line velocity.

# Worm Gears

Originally, worm gearing was used to secure, by compact means, a large reduction of speed between driving and driven shafts with a proportionate increase (except for frictional loss) in the torque of the driven shaft. Worm gearing is still used for this purpose, and frequently the wheel is driven by a single-thread worm of such low helix angle that the drive cannot be reversed; that is the wheel cannot drive the worm as the gearing automatically locks itself against backward rotation. (*See note below.)

Although a multiple-threaded worm when applied under like conditions is much more efficient than a single-threaded worm, it does not follow that the multiple-threaded worm should always be used.

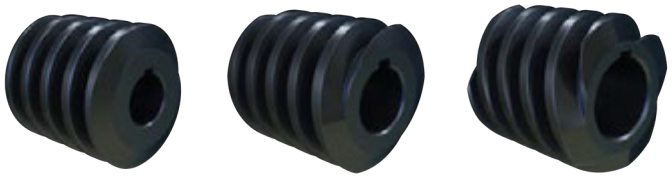
A single-threaded worm might be preferable when the most important requirement is to obtain a high ratio and especially if the worm must be self-locking.

When power is the primary factor, the multiple-threaded worms should be used.

**LUBRICATION** is an important factor when using worm gearing. An increase in heat generated means a decrease in efficiency. The amount of power which can be transmitted at a given temperature increases as the efficiency of the gearing increases.

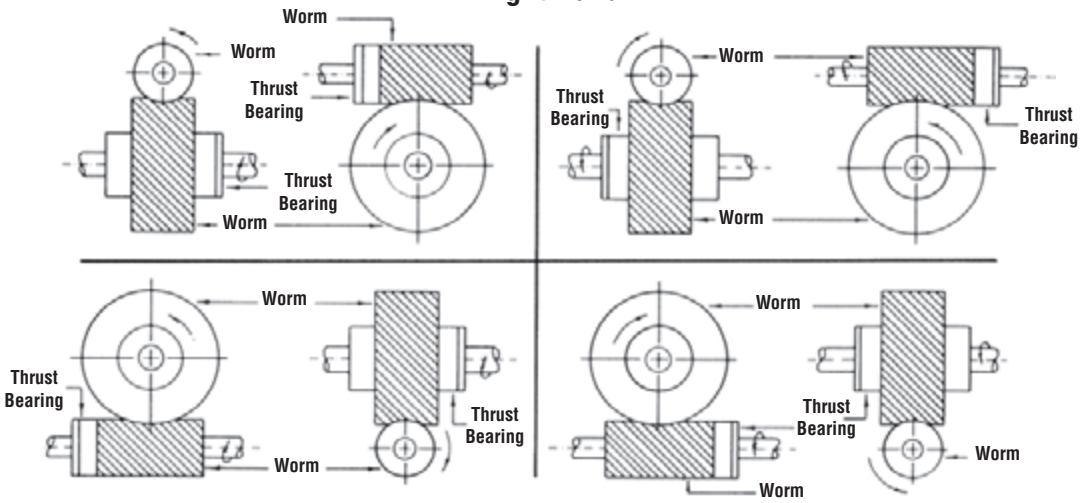
**MATERIALS** for worm and worm gears are generally confined to steel for worms and bronze or cast iron for gears. When steel worms are run with bronze gears at high speeds, the worm is usually hardened with ground threads.

**Right Hand Worm and Gear**



**Single, Double, Quadruple Thread Worms**

## Direction of Rotation and Thrust
## Right Hand

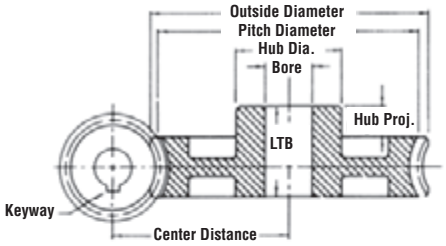


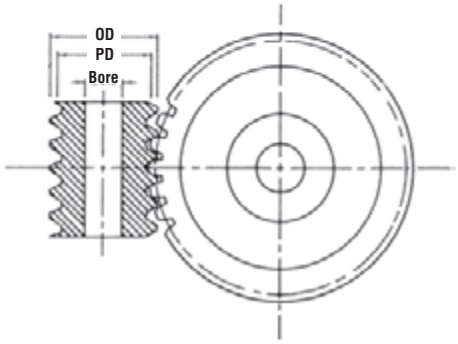

***NOTE: SELF-LOCKING ABILITY.** There is often some confusion as to the self-locking ability of a worm and gear set. Martin worm gear sets, under no condition should be considered to hold a load when at rest. The statement is made to cover the broad spectrum of variables affecting self-locking characteristics of a particular gear set in a specific application. Theoretically, a worm gear will not back drive if the friction angle is greater than the worm lead angle. However, the actual surface finish and lubrication may reduce this significantly. More important, vibration may cause motion at the point of mesh with further reduction in the friction angle.

Generally speaking, if the worm lead angle is less than 5°, there is reasonable expectation of self-locking. Again, no guarantee should be made and customer should be advised. **If safety is involved, a positive brake should be used.**

# Worm and Worm Gears
## 3 Pitch • 2" Face • 14½° Pressure Angle

### Right Hand Single Thread (Stocked Right Hand Only)

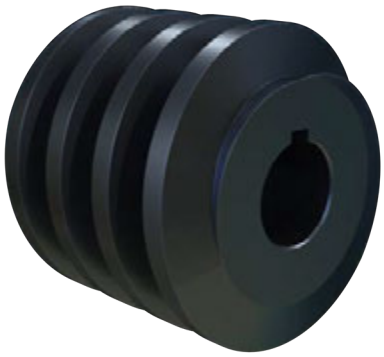



### Cast Iron

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (inches) | Hub (Inches) | | Style |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| 18 | W318 | 16.2 | 6.000 | 1 | 3 | 1 1/2 | W |
| 24 | W324 | 22.8 | 8.000 | 1 1/2 | 3 1/2 | 1 1/2 | W |
| 30 | W330 | 30.2 | 10.000 | 1 1/2 | 3 7/8 | 1 1/2 | S |
| 36 | W336 | 36.4 | 12.000 | 1 1/2 | 3 1/2 | 1 1/2 | S |
| 54 | W354 | 60.2 | 18.000 | 1 1/2 | 4 | 1 1/2 | S |

W = WEB S = SPOKE



### Steel — 4° 46' Helix Angle Worms

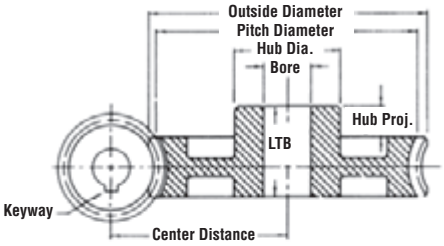
| Part Number Soft | Wt. Lb. (Approx.) | Part Number Hardened | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Keyway (inches) |
|---|---|---|---|---|---|---|---|
| W3 | 12.2 | WG3 | 12.0 | 4 | 4.000 | 1 1/2 | 3/8 × 3/16 |

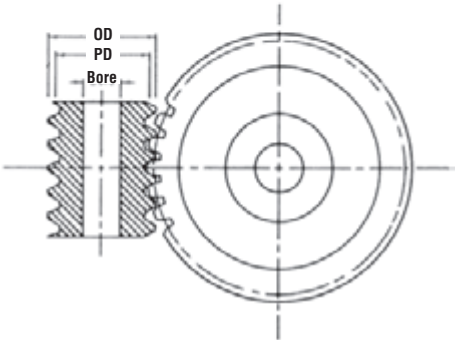
Case hardened worms have ground and polished threads (Indicated by letter “G” in Part Number).
Please note: Stock bore sizes on ground worms may be difficult to modify.

# Worm and Worm Gears

## 4 Pitch • 1½" Face • 14½° Pressure Angle

### Right Hand Single Thread (Stocked Right Hand Only)




### Cast Iron

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (inches) | Hub (Inches) | | Style |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| 20 | W420 | 8.4 | 5.000 | 1 | 2 1/2 | 1 1/4 | W |
| 24 | W424 | 12.9 | 6.000 | 1 | 2 1/2 | 1 1/4 | W |
| 32 | W432 | 15.6 | 8.000 | 1 1/4 | 3 | 1 1/4 | W |
| 40 | W440 | 27.5 | 10.000 | 1 1/4 | 3 | 1 1/4 | W |
| 48 | W448 | 34.1 | 12.000 | 1 1/2 | 4 | 1 1/4 | W |
| 64 | W464 | 43.9 | 16.000 | 1 1/2 | 4 | 1 1/4 | S |

W = WEB S = SPOKE

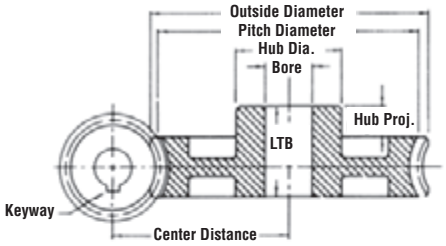
### Steel — 4° 46' Helix Angle Worms

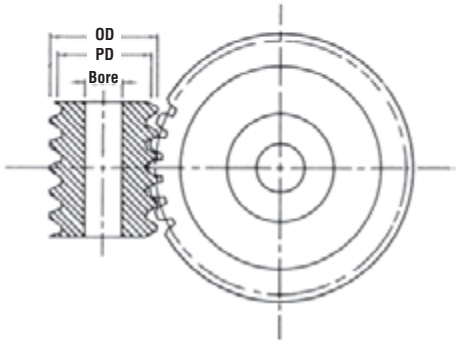
| Part Number Soft | Wt. Lb. (Approx.) | Part Number Hardened | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Keyway (inches) |
|---|---|---|---|---|---|---|---|
| W4 | 5.6 | WG4 | 5.5 | 3 1/2 | 3.000 | 1 1/4 | 5/16 × 5/32 |

Case hardened worms have ground and polished threads (Indicated by letter “G” in Part Number).
Please note: Stock bore sizes on ground worms may be difficult to modify.

# Worm and Worm Gears
## 6 Pitch • 1" Face • 14½° Pressure Angle

### Right Hand Single Thread (Stocked Right Hand Only)




### Cast Iron

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (inches) | Hub (Inches) | | Style |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| 20 | W620 | 2.5 | 3.333 | 3/4 | 1 7/8 | 7/8 | W |
| 24 | W624 | 3.6 | 4.000 | 3/4 | 1 7/8 | 7/8 | W |
| 30 | W630 | 5.0 | 5.000 | 7/8 | 2 1/4 | 7/8 | W |
| 36 | W636 | 6.0 | 6.000 | 1 | 2 1/2 | 7/8 | W |
| 40 | W640 | 7.6 | 6.667 | 1 | 2 1/2 | 7/8 | W |
| 48 | W648 | 9.2 | 8.000 | 1 1/4 | 2 3/4 | 1 | W |
| 60 | W660 | 13.7 | 10.000 | 1 1/4 | 3 | 1 1/4 | W |
| 72 | W672 | 14.9 | 12.000 | 1 1/4 | 3 | 1 1/4 | W |

W = WEB

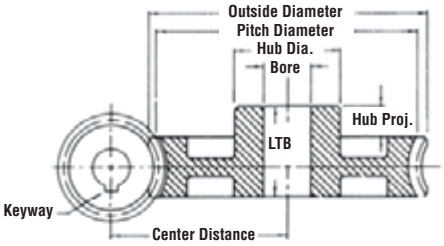
### Steel — 4° 46' Helix Angle Worms

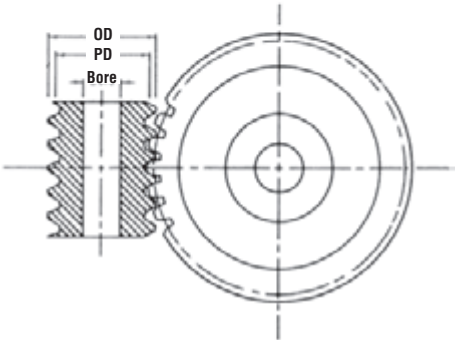
| Part Number Soft | Wt. Lb. (Approx.) | Part Number Hardened | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Keyway (inches) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Diameter | Projection | |
| W6 | 1.8 | WG6 | 1.7 | 2 1/2 | 2.000 | 7/8 | | | 3/16 × 3/32 |
| WH6 | 2.7 | | | 2 1/2 | 2.000 | 7/8 | 1 9/16 | 3/4 | 3/16 × 3/32 |

Case hardened worms have ground and polished threads (Indicated by letter “G” in Part Number).
Please note: Stock bore sizes on ground worms may be difficult to modify.

# Worm and Worm Gears
## 6 Pitch • 1" Face • 14½° Pressure Angle

### Right Hand Double Thread (Stocked Right Hand Only)




### Cast Iron

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (inches) | Hub (Inches) | | Style |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| 20 | W620D | 3.3 | 3.333 | 1 | 2 3/4 | 1 | PLAIN |
| 24 | W624D | 4.1 | 4.000 | 1 1/4 | 2 3/4 | 1 | PLAIN |
| 30 | W630D | 5.2 | 5.000 | 1 1/4 | 2 3/4 | 1 | W |
| 40 | W640D | 7.6 | 6.667 | 1 1/4 | 2 3/4 | 1 | W |

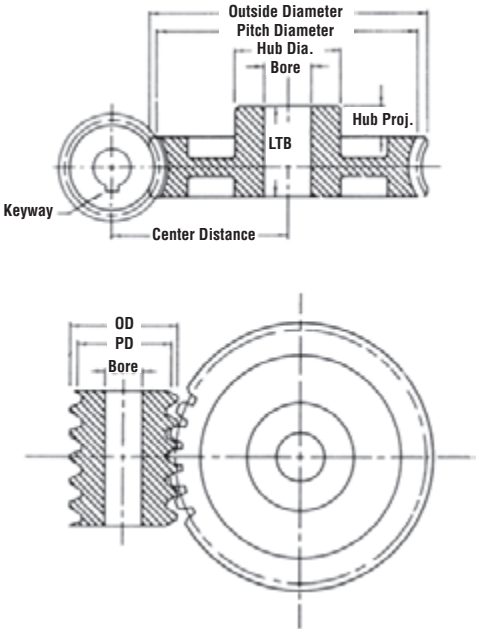
W = WEB

### Steel — 9° 28' Helix Angle Worms

| Part Number Soft | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Keyway (inches) |
|---|---|---|---|---|---|
| W6D | 1.6 | 2 1/2 | 2.000 | 1 | 1/4 × 1/8 |

# Worm and Worm Gears
## 6 Pitch • 1" Face • 14½° Pressure Angle

### Right Hand Quadruple Thread (Stocked Right Hand Only)




### Cast Iron

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (inches) | Hub (Inches) | | Style |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| 20 | W620Q | 3.4 | 3.333 | 1 | 2 3/4 | 1 | PLAIN |
| 24 | W624Q | 4.1 | 4.000 | 1 1/4 | 2 3/4 | 1 | PLAIN |

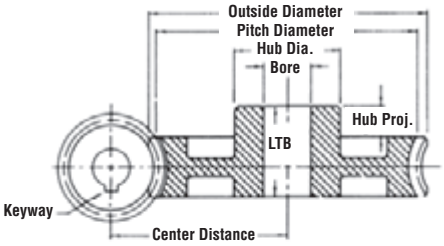
### Steel — 18° 26' Helix Angle Worms

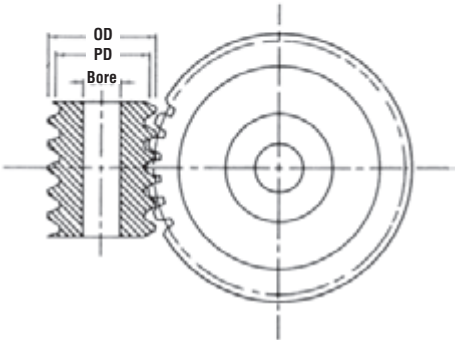
| Part Number Soft | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Keyway (inches) |
|---|---|---|---|---|---|
| W6D | 1.6 | 2 1/2 | 2.000 | 1 | 1/4 × 1/8 |

# Worm and Worm Gears

## 8 Pitch • ¾" Face • 14½° Pressure Angle

### Right Hand Single Thread (Stocked Right Hand Only)




### Cast Iron

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (inches) | Hub (Inches) | | Style |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| 20 | W820 | 1.3 | 2.500 | 3/4 | 1 3/4 | 3/4 | PLAIN |
| 30 | W830 | 2.4 | 3.750 | 3/4 | 1 3/4 | 3/4 | W |
| 40 | W840 | 3.7 | 5.000 | 1 | 2 3/8 | 7/8 | W |
| 48 | W848 | 4.5 | 6.000 | 1 | 2 3/8 | 7/8 | W |
| 50 | W850 | 5.1 | 6.250 | 1 | 2 1/2 | 7/8 | W |
| 60 | W860 | 6.1 | 7.500 | 1 | 2 1/2 | 7/8 | W |
| 80 | W880 | 8.9 | 10.000 | 1 1/4 | 3 | 7/8 | W |

W = WEB

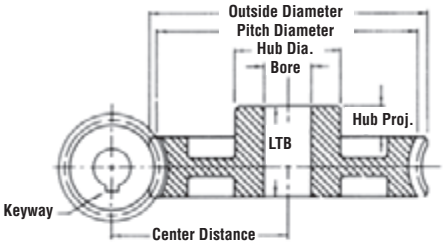
### Steel — 4° 46' Helix Angle Worms

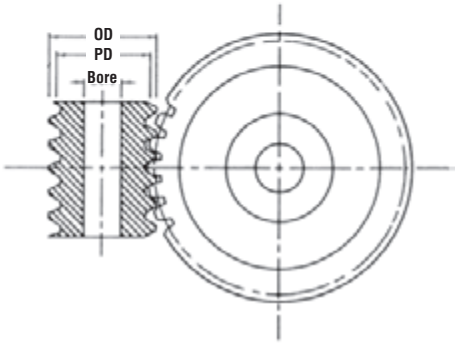
| Part Number Soft | Wt. Lb. (Approx.) | Part Number Hardened | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Keyway (inches) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Diameter | Projection | |
| W8 | 0.64 | WG8 | 0.62 | 1 3/4 | 1.500 | 3/4 | | | 3/16 × 3/32 |
| WH8 | 0.74 | | | 1 3/4 | 1.500 | 3/4 | 1 3/16 | 5/8 | |

Case hardened worms have ground and polished threads (Indicated by letter "G" in Part Number).
Please note: Stock bore sizes on ground worms may be difficult to modify.

# Worm and Worm Gears
## 8 Pitch • ¾" Face • 14½° Pressure Angle

### Right Hand Double Thread (Stocked Right Hand Only)




### Cast Iron

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (inches) | Hub (Inches) | | Style |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| 20 | W820D | 1.2 | 2.500 | 1 | 2 | 3/4 | PLAIN |
| 30 | W830D | 2.5 | 3.750 | 1 | 2 1/4 | 3/4 | W |
| 40 | W840D | 3.4 | 5.000 | 1 | 2 1/4 | 3/4 | W |

W = WEB

### Steel — 9° 28' Helix Angle Worms

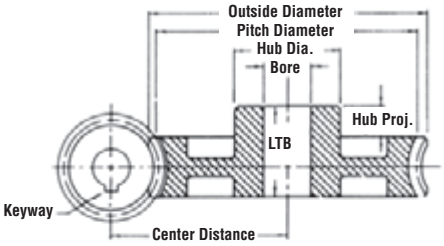
| Part Number Soft | Wt. Lb. (Approx.) | Part Number Hardened | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Keyway (inches) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Diameter | Projection | |
| W8D | 0.56 | WG8D | 0.54 | 1 3/4 | 1.500 | 7/8 | | | 3/16 × 3/32 |
| WH8D | 0.74 | | | 1 3/4 | 1.500 | 3/4 | 1 3/16 | 5/8 | |

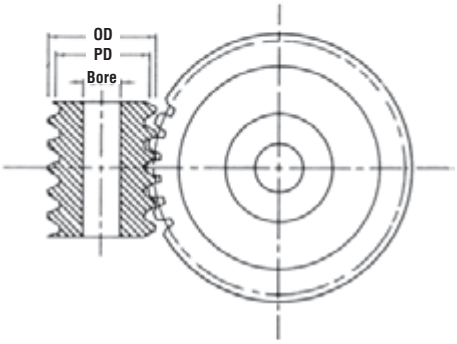
Case hardened worms have ground and polished threads (Indicated by letter “G” in Part Number).
Please note: Stock bore sizes on ground worms may be difficult to modify.

# Worm and Worm Gears

## 8 Pitch • ¾" Face • 14½° Pressure Angle

### Right Hand Quadruple Thread (Stocked Right Hand Only)




### Cast Iron

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (inches) | Hub (Inches) | | Style |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| 20 | W820Q | 1.2 | 2.500 | 1 | 2 | 3/4 | PLAIN |
| 30 | W830Q | 2.5 | 3.750 | 1 | 2 1/4 | 3/4 | W |

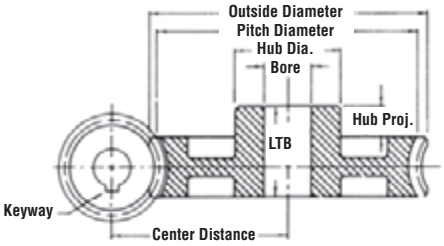
W = WEB

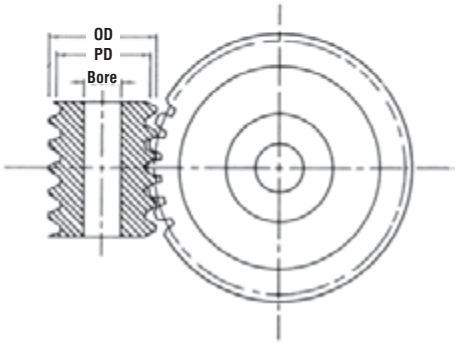
### Steel — 18° 26' Helix Angle Worms

| Part Number Soft | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Keyway (inches) |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| W8Q | 0.58 | 1 3/4 | 1.500 | 7/8 | | | 3/16 × 3/32 |
| WH8Q | 0.76 | 1 3/4 | 1.500 | 3/4 | 13/16 | 5/8 | |

# Worm and Worm Gears
## 10 Pitch • 5/8" Face • 14½° Pressure Angle

### Right Hand Single Thread (Stocked Right Hand Only)

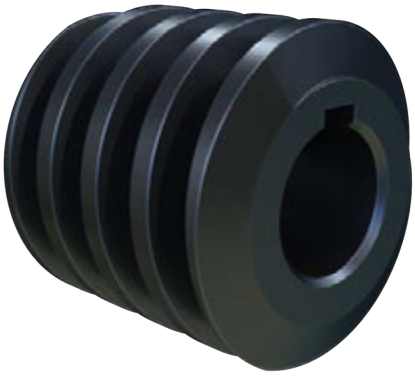



### Cast Iron and Bronze

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Style | Part Number Bronze | Wt. Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | | | |
| 20 | W1020 | 0.7 | 2.000 | 1/2 | 1 1/4 | 3/4 | PLAIN | WB1020 | .8 |
| 30 | W1030 | 1.5 | 3.000 | 5/8 | 1 3/4 | 3/4 | PLAIN | WB1030 | 1.7 |
| 40 | W1040 | 1.8 | 4.000 | 5/8 | 1 3/4 | 3/4 | W | WB1040 | 2.4 |
| 50 | W1050 | 2.8 | 5.000 | 3/4 | 2 | 3/4 | W | | |
| 60 | W1060 | 3.6 | 6.000 | 3/4 | 2 | 3/4 | W | | |
| 80 | W1080 | 4.8 | 8.000 | 3/4 | 2 | 3/4 | W | | |
| 100 | W10100 | 6.0 | 10.000 | 3/4 | 2 1/2 | 3/4 | W | | |

W = WEB



### Steel — 4° 34'Helix Angle Worms

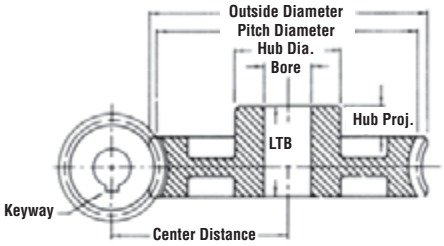
| Part Number Soft | Wt. Lb. (Approx.) | Part Number Hardened | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Keyway (inches) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Diameter | Projection | |
| W10 | 0.36 | WG10 | 0.32 | 1 3/8 | 1.250 | 5/8 | | | 3/16 × 3/32 |
| WH10 | 0.42 | | 0.38 | 1 3/8 | 1.250 | 5/8 | 1 | 1/2 | |

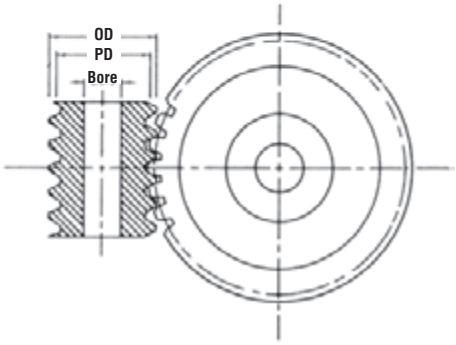
Case hardened worms have ground and polished threads (Indicated by letter “G” in Part Number).
Please note: Stock bore sizes on ground worms may be difficult to modify.

# Worm and Worm Gears

## 10 Pitch • 5/8" Face • 14½° Pressure Angle

### Right Hand Double Thread (Stocked Right Hand Only)




### Cast Iron and Bronze

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Style | Part Number Bronze | Wt. Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | | | |
| 20 | W1020D | 0.65 | 2.000 | 7/8 | 1 5/8 | 5/8 | PLAIN | WB1020D | 0.75 |
| 30 | W1030D | 1.30 | 3.000 | 7/8 | 1 3/4 | 5/8 | PLAIN | WB1030D | 1.30 |
| 40 | W1040D | 1.60 | 4.000 | 7/8 | 1 3/4 | 5/8 | W | | |
| 50 | W1050D | 2.90 | 5.000 | 7/8 | 2 | 1 | W | | |
| 60 | W1060D | 3.00 | 6.000 | 7/8 | 2 | 1 | W | | |

W = WEB

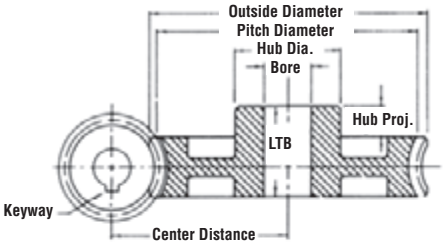
### Steel — 9° 5'Helix Angle Worms

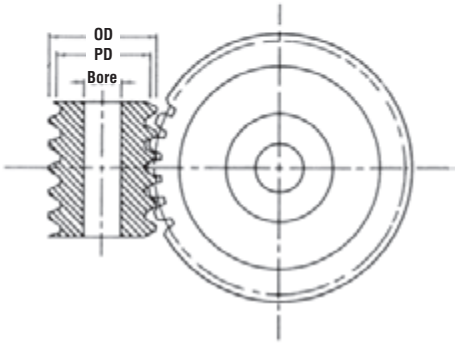
| Part Number Soft | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Keyway (inches) |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| W10D | 0.28 | 1 3/8 | 1.2500 | 3/4 | | | 3/16 × 3/32 |
| WH10D | 0.42 | 1 3/8 | 1.2500 | 5/8 | 1 | 1/2 | |

# Worm and Worm Gears

## 10 Pitch • 5/8" Face • 14½° Pressure Angle

### Right Hand Quadruple Thread (Stocked Right Hand Only)




### Cast Iron

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Style |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| 20 | W1020Q | 0.64 | 2.000 | 7/8 | 1 5/8 | 5/8 | PLAIN |
| 30 | W1030Q | 1.30 | 3.000 | 7/8 | 1 3/4 | 5/8 | W |
| 40 | W1040Q | 1.60 | 4.000 | 7/8 | 1 3/4 | 5/8 | W |

W = WEB

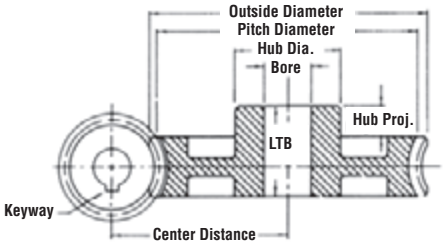
### Steel — 17° 45'Helix Angle Worms

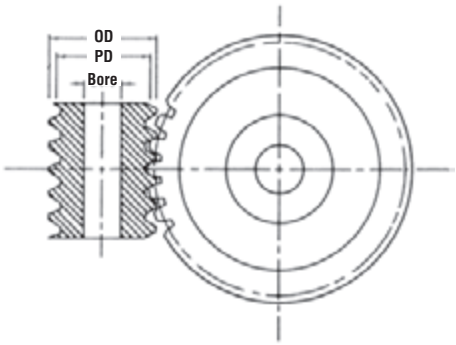
| Part Number Soft | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Keyway (inches) |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| W10Q | 0.28 | 1 3/8 | 1.250 | 3/4 | | | 3/16 × 3/32 |
| WH10Q | 0.40 | 1 3/8 | 1.250 | 5/8 | 1 | 1/2 | |

# Worm and Worm Gears

## 12 Pitch • ½" Face • 14½° Pressure Angle

### Right Hand Single Thread (Stocked Right Hand Only)




### Cast Iron and Bronze

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Style | Part Number Bronze | Wt. Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | | | |
| 18 | W1218 | 0.28 | 1.500 | 1/2 | 1 1/4 | 5/8 | PLAIN | | |
| 20 | W1220 | 0.35 | 1.667 | 1/2 | 1 1/4 | 5/8 | PLAIN | WB1220 | 0.45 |
| 30 | W1230 | 0.71 | 2.500 | 1/2 | 1 1/4 | 5/8 | W | | |
| 40 | W1240 | 1.20 | 3.333 | 5/8 | 1 1/2 | 3/4 | W | | |
| 50 | W1250 | 1.50 | 4.166 | 5/8 | 1 1/2 | 3/4 | W | | |
| 60 | W1260 | 2.00 | 5.000 | 5/8 | 1 3/4 | 3/4 | W | | |
| 80 | W1280 | 3.90 | 6.666 | 5/8 | 2 1/2 | 3/4 | W | | |
| 100 | W12100 | 4.40 | 8.333 | 3/4 | 2 | 3/4 | W | | |

W = WEB

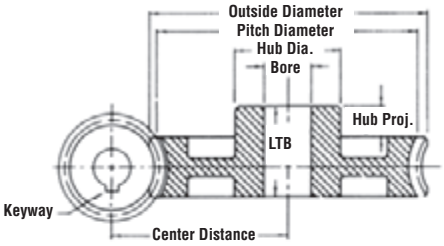
### Steel — 4° 46'Helix Angle Worms

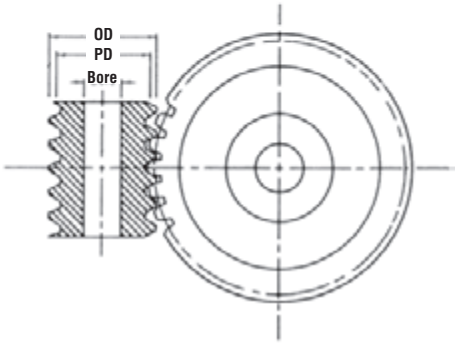
| Part Number Soft | Wt. Lb. (Approx.) | Part Number Hardened | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Keyway (inches) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Diameter | Projection | |
| W12 | 0.17 | WG12 | 0.14 | 1 1/8 | 1.000 | 1/2 | | | 1/8 × 1/16 |
| WH12 | 0.20 | | | 1 1/8 | 1.000 | 1/2 | 3/4 | 3/8 | |

Case hardened worms have ground and polished threads (Indicated by letter "G" in Part Number).
Please note: Stock bore sizes on ground worms may be difficult to modify.

# Worm and Worm Gears
## 12 Pitch • ½" Face • 14½° Pressure Angle

### Right Hand Double Thread (Stocked Right Hand Only)




### Cast Iron and Bronze

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Style | Part Number Bronze | Wt. Lb. (Approx.) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | | | |
| 20 | W1220D | 0.32 | 1.666 | 1/2 | 1 1/4 | 1/2 | PLAIN | WB1220D | 0.40 |
| 30 | W1230D | 0.78 | 2.500 | 3/4 | 1 1/2 | 5./8 | PLAIN | | |
| 40 | W1240D | 1.30 | 3.333 | 3/4 | 1 3/4 | 5/8 | W | | |

W = WEB

### Steel — 9° 28' Helix Angle Worms

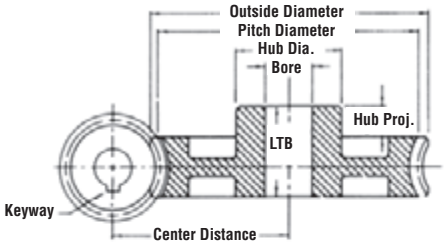
| Part Number Soft | Wt. Lb. (Approx.) | Part Number Hardened | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Keyway (inches) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Diameter | Projection | |
| W12D | 0.14 | WG12D | 0.14 | 1 1/8 | 1.000 | 5/8 | | | 1/8 × 1/16 |
| WH12D | | | 0.20 | 1 1/8 | 1.000 | 1/2 | 3/4 | 3/8 | |

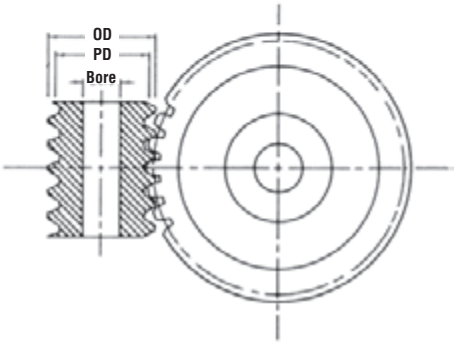
Case hardened worms have ground and polished threads (Indicated by letter “G” in Part Number).
Please note: Stock bore sizes on ground worms may be difficult to modify.

# Worm and Worm Gears

## 12 Pitch • ½" Face • 14½° Pressure Angle

### Right Hand Quadruple Thread (Stocked Right Hand Only)

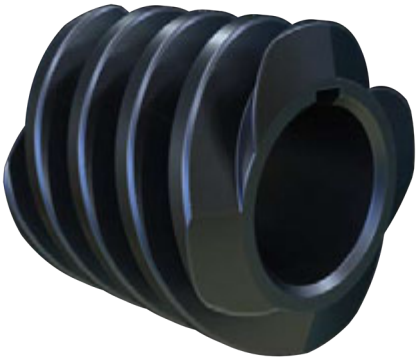



### Cast Iron

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Style |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| 20 | W1220Q | 0.32 | 1.666 | 1/2 | 1 1/4 | 1/2 | PLAIN |
| 30 | W1230Q | 0.38 | 2.500 | 3/4 | 1 1/2 | 5/8 | PLAIN |
| 40 | W1240Q | 0.80 | 3.333 | 3/4 | 1 3/4 | 5/8 | W |

W = WEB



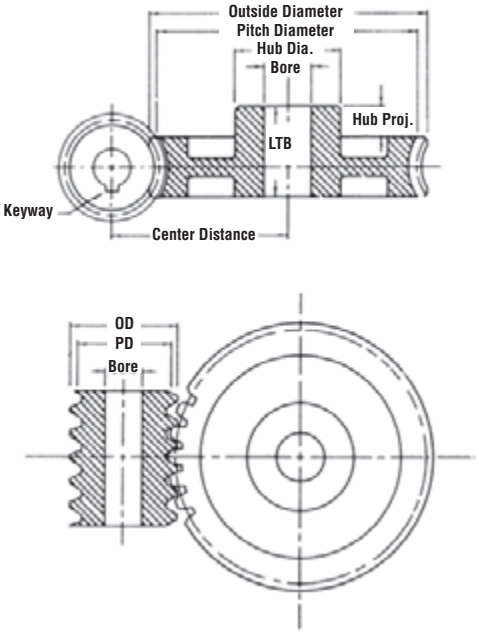
### Steel — 18° 26' Helix Angle Worms

| Part Number Soft | Wt. Lb. (Approx.) | Part Number Hardened | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Keyway (inches) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Diameter | Projection | |
| W12Q | 0.14 | WG12Q | 0.14 | 1 1/8 | 1.000 | 5/8 | | | 1/8 × 1/16 |
| WH12Q | 0.20 | | | 1 1/8 | 1.000 | 1/2 | 3/4 | 3/8 | |

# Worm and Worm Gears

## 16 Pitch • 5/16" Face • 14½° Pressure Angle

### Right Hand Single Thread (Stocked Right Hand Only)




### Bronze

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Style |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| 20 | WB1620 | 0.13 | 1.250 | 1/4 | 5/8 | 5/16 | PLAIN |
| 30 | WB1630 | 0.28 | 1.875 | 5/16 | 3/4 | 3/8 | W |
| 40 | WB1640 | 0.42 | 2.500 | 5/16 | 3/4 | 3/8 | W |
| 50 | WB1650 | 0.50 | 3.125 | 3/8 | 7/8 | 7/16 | W |

W = WEB

### Steel — 5° 43'Helix Angle Worms

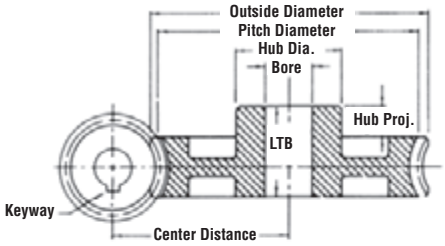
| Part Number Soft | Wt. Lb. (Approx.) | Part Number Hardened | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Hub (Inches) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Diameter | Projection |
| WH16 | 0.08 | | | 1 | 0.625 | 1/4 | 0.46 | 1/4 |
| | | WHG16 | 0.07 | 1 | 0.625 | 5/16 | 0.46 | 1/4 |

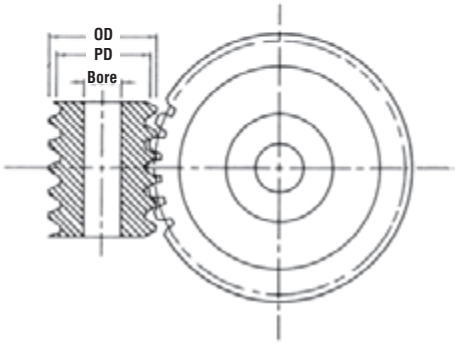
Case hardened worms have ground and polished threads (Indicated by letter “G” in Part Number).
Please note: Stock bore sizes on ground worms may be difficult to modify.

# Worm and Worm Gears

## 16 Pitch • 5/16" Face • 14½° Pressure Angle

### Right Hand Double Thread (Stocked Right Hand Only)




### Bronze

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Style |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| 20 | WB1620D | 0.14 | 1.250 | 1/4 | 5/8 | 5/16 | PLAIN |

W = WEB

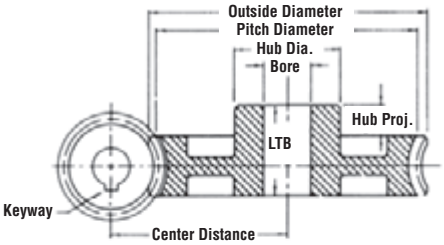
### Steel — 11° 19'Helix Angle Worms

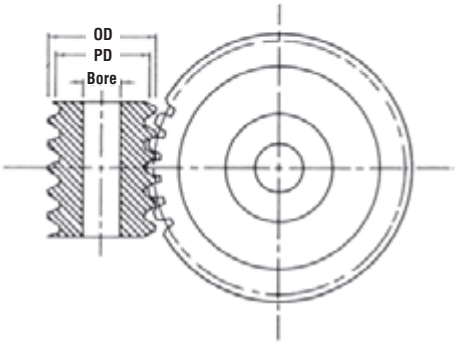
| Part Number Soft | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Hub (Inches) | |
|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection |
| WH16D | 0.09 | 1 | 0.625 | 1/4 | 0.46 | 1/4 |

# Worm and Worm Gears

## 16 Pitch • 5/16" Face • 20° Pressure Angle

### Right Hand Quadruple Thread (Stocked Right Hand Only)




### Bronze

| Number of Teeth | Part Number Cast Iron | Wt. Lb. (Approx.) | Pitch Diameter | Bore (Inches) | Hub (Inches) | | Style |
|---|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection | |
| 20 | WB1620Q | 0.14 | 1.250 | 1/4 | 5/8 | 5/16 | PLAIN |

W = WEB

### Steel — 21° 48'Helix Angle Worms

| Part Number Soft | Wt. Lb. (Approx.) | Face (Inches) | Pitch Diameter | Bore (Inches) | Hub (Inches) | |
|---|---|---|---|---|---|---|
| | | | | | Diameter | Projection |
| WH16Q | 0.08 | 1 | 0.625 | 1/4 | 0.46 | 1/4 |

## Ratio-Center Distance Listings With Approximate Horsepower and Torque** Ratings for Hardened and Ground Worms With Bronze Worm Gears

| RPM of Worm | | | 1800 | | 900 | | 300 | | 100 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Center | | *Gear | Input-Output | | Input-Output | | Input-Output | | Input-Output | |
| Ratio | Distance | | HP | Torque | HP | Torque | HP | Torque | HP | Torque |
| 5.00 | 0.938 | WB1620Q | 0.37 | 60 | 0.25 | 70 | 0.09 | 80 | 0.03 | 80 |
| 5.00 | 1.333 | WB1220Q | 0.80 | 130 | 0.55 | 170 | 0.25 | 200 | 0.08 | 215 |
| 5.00 | 1.625 | WB1020Q | 1.25 | 200 | 0.90 | 275 | 0.40 | 350 | 0.15 | 370 |
| 5.00 | 2.000 | WB820Q | 2.00 | 315 | 1.50 | 460 | 0.80 | 890 | 0.33 | 965 |
| 5.00 | 2.667 | WB620Q | 3.70 | 600 | 2.75 | 880 | 1.40 | 1280 | 0.55 | 1430 |
| 6.00 | 3.000 | WB624Q | 4.50 | 880 | 3.40 | 1300 | 1.75 | 1900 | 0.70 | 2180 |
| 7.50 | 1.250 | WB1630Q | 0.50 | 130 | 0.33 | 160 | 0.14 | 180 | 0.05 | 185 |
| 7.50 | 1.750 | WB1230Q | 1.25 | 300 | 0.85 | 390 | 0.33 | 460 | 0.13 | 490 |
| 7.50 | 2.125 | WB1030Q | 1.90 | 450 | 1.33 | 560 | 0.60 | 790 | 0.25 | 850 |
| 7.50 | 2.625 | WB830Q | 3.00 | 725 | 2.25 | 1060 | 1.00 | 1400 | 0.40 | 1520 |
| 7.50 | 3.500 | WB630Q | 5.75 | 1400 | 4.33 | 2060 | 2.20 | 2960 | 0.87 | 3330 |
| 9.67 | 4.050 | WB529T | 8.40 | 2615 | 6.25 | 3785 | 3.33 | 5730 | 1.33 | 6540 |
| 10.00 | 0.938 | WB1620D | 0.25 | 70 | 0.15 | 85 | 0.06 | 90 | 0.02 | 95 |
| 10.00 | 1.333 | WB1220D | 0.50 | 155 | 0.33 | 205 | 0.16 | 240 | 0.60 | 250 |
| 10.00 | 1.562 | WB1640Q | 0.75 | 240 | 0.50 | 285 | 0.18 | 320 | 0.06 | 330 |
| 10.00 | 1.625 | WB1020D | 0.80 | 230 | 0.60 | 325 | 0.25 | 400 | 0.10 | 430 |
| 10.00 | 2.000 | WB820D | 1.25 | 365 | 0.90 | 525 | 0.45 | 690 | 0.15 | 750 |
| 10.00 | 2.167 | WB1240Q | 1.67 | 530 | 1.10 | 700 | 0.50 | 830 | 0.17 | 880 |
| 10.00 | 2.625 | WB1040Q | 2.50 | 805 | 1.75 | 1120 | 0.80 | 1400 | 0.30 | 1500 |
| 10.00 | 2.667 | WB620D | 2.40 | 735 | 1.80 | 1075 | 0.95 | 1540 | 0.37 | 1700 |
| 10.00 | 3.250 | WB840Q | 4.00 | 1300 | 3.00 | 1880 | 1.40 | 2500 | 0.50 | 2700 |
| 10.00 | 4.333 | WB640Q | 7.75 | 2500 | 5.75 | 3675 | 3.00 | 5333 | 1.15 | 5980 |
| 12.00 | 3.000 | WB624D | 2.85 | 1050 | 2.20 | 1550 | 1.15 | 2200 | 0.45 | 2450 |
| 12.5 | 1.875 | WB1650Q | 0.95 | 375 | 0.60 | 445 | 0.25 | 500 | 0.08 | 515 |
| 12.5 | 2.583 | WB1250Q | 2.00 | 820 | 1.40 | 1080 | 0.60 | 1300 | 0.20 | 1370 |
| 12.5 | 3.125 | WB1050Q | 3.00 | 1250 | 2.25 | 1740 | 1.00 | 2200 | 0.33 | 2340 |
| 12.5 | 3.875 | WB850Q | 4.90 | 2000 | 3.70 | 2900 | 1.70 | 3840 | 0.65 | 4170 |
| 12.5 | 5.167 | WB650Q | 9.50 | 3800 | 7.00 | 5600 | 3.60 | 8200 | 1.40 | 9200 |
| 13.33 | 5.150 | WB540T | 11.00 | 4720 | 8.20 | 6830 | 4.40 | 10360 | 1.75 | 11800 |
| 15.00 | 1.250 | WB1630D | 0.33 | 155 | 0.25 | 180 | 0.08 | 200 | 0.03 | 210 |
| 15.00 | 1.750 | WB1230D | 0.75 | 350 | 0.50 | 450 | 0.25 | 535 | 0.07 | 560 |
| 15.00 | 2.125 | WB1030D | 1.20 | 520 | 0.87 | 725 | 0.37 | 900 | 0.15 | 965 |
| 15.00 | 2.188 | WB1660Q | 1.10 | 570 | 0.70 | 680 | 0.25 | 760 | 0.10 | 790 |
| 15.00 | 2.625 | WB830D | 1.67 | 750 | 1.25 | 1080 | 0.60 | 1415 | 0.25 | 1530 |
| 15.00 | 3.000 | WB1260Q | 2.50 | 1170 | 1.67 | 1540 | 0.70 | 1800 | 0.25 | 1930 |
| 15.00 | 3.500 | WB630D | 3.50 | 1620 | 2.70 | 2375 | 1.40 | 3370 | 0.55 | 3770 |
| 15.00 | 3.625 | WB1060Q | 3.75 | 1700 | 2.67 | 2500 | 1.17 | 3100 | 0.50 | 3300 |
| 15.00 | 4.500 | WB860Q | 5.75 | 2820 | 4.33 | 4100 | 2.00 | 5470 | 0.75 | 6000 |
| 15.00 | 6.000 | WB660Q | 11.33 | 5550 | 8.50 | 8000 | 4.33 | 11700 | 1.70 | 13100 |
| 16.67 | 6.150 | WB550T | 13.50 | 7250 | 10.00 | 10500 | 5.40 | 16000 | 2.20 | 18000 |
| 18.00 | 5.000 | WB318 | 6.00 | 3100 | 4.67 | 4570 | 3.00 | 8000 | 1.50 | 10000 |
| 18.00 | 7.000 | WB672Q | 13.50 | 7800 | 10.00 | 11400 | 5.00 | 16500 | 2.00 | 18500 |
| 20.00 | 0.938 | WB1620 | 0.15 | 75 | 0.10 | 90 | 0.04 | 100 | 0.02 | 105 |
| 20.00 | 1.333 | WB1220 | 0.33 | 170 | 0.25 | 220 | 0.10 | 260 | 0.04 | 275 |
| 20.00 | 1.562 | WB1640D | 0.50 | 270 | 0.30 | 310 | 0.10 | 350 | 0.04 | 350 |
| 20.00 | 1.625 | WB1020 | 0.50 | 250 | 0.33 | 350 | 0.20 | 440 | 0.07 | 470 |

* Ratings listed are for bronze worm gears operating with hardened and ground steel worms. For ratings of cast iron worm gears with hardened steel worm, multiply listed ratings by 30%. For cast iron with hardened and ground steel worm, multiply by 50%.*

Torque ratings in inch pounds.

## Ratio-Center Distance Listings With Approximate Horsepower and Torque Ratings for Hardened and Ground Worms With Bronze Worm Gears

| RPM of Worm | | | 1800 | | 900 | | 300 | | 100 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Center | | *Gear | Input-Output | | Input-Output | | Input-Output | | Input-Output | |
| Ratio | Distance | | HP | Torque | HP | Torque | HP | Torque | HP | Torque |
| 20 | 2.000 | WB820 | 0.75 | 400 | 0.60 | 600 | 0.33 | 775 | 0.12 | 850 |
| 20 | 2.167 | WB1240D | 1.00 | 600 | 0.67 | 775 | 0.33 | 920 | 0.10 | 970 |
| 20 | 2.625 | WB1040D | 1.50 | 900 | 0.85 | 1230 | 0.50 | 1500 | 0.20 | 1650 |
| 20 | 2.667 | WB620 | 1.50 | 800 | 1.15 | 1170 | 0.75 | 1660 | 0.25 | 1850 |
| 20 | 2.812 | WB1680Q | 1.40 | 900 | 0.90 | 1075 | 0.33 | 1200 | 0.12 | 1240 |
| 20 | 3.250 | WB840D | 2.30 | 1400 | 1.75 | 2000 | 0.80 | 2580 | 0.33 | 2800 |
| 20 | 3.833 | WB1280Q | 3.12 | 2000 | 2.12 | 2600 | 0.90 | 3120 | 0.33 | 3300 |
| 20 | 4.000 | WB420 | 3.50 | 2000 | 2.75 | 2880 | 1.75 | 4700 | 0.75 | 5600 |
| 20 | 4.333 | WB640D | 4.50 | 2780 | 3.40 | 4050 | 1.75 | 5800 | 0.70 | 6500 |
| 20 | 4.625 | WB1080Q | 4.75 | 3000 | 3.40 | 4250 | 1.50 | 5340 | 0.50 | 5700 |
| 20 | 5.750 | WB880Q | 7.50 | 4800 | 5.60 | 7000 | 2.60 | 9400 | 1.00 | 10200 |
| 20 | 7.667 | WB680Q | 15.00 | 9500 | 10.75 | 13800 | 5.50 | 20000 | 2.20 | 22500 |
| 24 | 3.000 | WB624 | 1.75 | 1120 | 1.33 | 1630 | 0.75 | 2300 | 0.33 | 2600 |
| 24 | 4.500 | WB424 | 4.00 | 2800 | 3.00 | 4000 | 2.00 | 6600 | 0.90 | 7800 |
| 24 | 6.000 | WB324 | 7.50 | 5300 | 5.90 | 7750 | 3.90 | 13500 | 1.90 | 17000 |
| 25 | 1.875 | WB1650D | 0.50 | 370 | 0.33 | 470 | 0.12 | 520 | 0.05 | 540 |
| 25 | 2.583 | WB1250D | 1.20 | 890 | 0.80 | 1150 | 0.33 | 1380 | 0.12 | 1450 |
| 25 | 3.125 | WB1050D | 1.80 | 1340 | 1.33 | 1850 | 0.60 | 2300 | 0.25 | 2500 |
| 25 | 3.438 | WB16100Q | 1.75 | 1300 | 1.00 | 1575 | 0.40 | 1750 | 0.12 | 1800 |
| 25 | 3.875 | WB850D | 3.00 | 2200 | 2.25 | 3250 | 1.00 | 4200 | 0.40 | 4500 |
| 25 | 4.667 | WB12100Q | 3.67 | 2800 | 2.50 | 3660 | 1.00 | 4400 | 0.40 | 4630 |
| 25 | 5.167 | WB650D | 5.50 | 4000 | 4.00 | 6000 | 2.15 | 8700 | 0.87 | 9700 |
| 25 | 5.625 | WB10100Q | 5.70 | 4500 | 4.10 | 6380 | 1.75 | 8000 | 0.67 | 8500 |
| 25 | 7.000 | WB8100Q | 10.00 | 9700 | 7.00 | 11500 | 4.00 | 17500 | 1.25 | 19000 |
| 25 | 9.333 | WB6100Q | 17.50 | 14250 | 13.00 | 20750 | 6.66 | 30000 | 2.60 | 33000 |
| 29 | 4.050 | WB529 | 3.50 | 2800 | 2.75 | 4200 | 1.50 | 6300 | 0.67 | 7000 |
| 30 | 1.250 | WB1630 | 0.20 | 160 | 0.12 | 190 | 0.06 | 210 | 0.02 | 215 |
| 30 | 1.750 | WB1230 | 0.50 | 350 | 0.33 | 450 | 0.15 | 540 | 0.06 | 570 |
| 30 | 2.125 | WB1030 | 0.70 | 530 | 0.50 | 750 | 0.25 | 925 | 0.10 | 1000 |
| 30 | 2.188 | WB1660 | 0.60 | 590 | 0.40 | 700 | 0.15 | 760 | 0.05 | 800 |
| 30 | 2.625 | WB830 | 1.00 | 870 | 0.85 | 1260 | 0.40 | 1600 | 0.17 | 1750 |
| 30 | 3.000 | WB1260D | 1.33 | 1230 | 1.00 | 1600 | 0.40 | 1900 | 0.15 | 2000 |
| 30 | 3.500 | WB630 | 2.00 | 1700 | 1.60 | 2430 | 0.87 | 3500 | 0.33 | 3800 |
| 30 | 3.625 | WB1060D | 2.00 | 1850 | 1.50 | 2500 | 0.70 | 3200 | 0.25 | 3430 |
| 30 | 4.500 | WB860D | 3.25 | 2900 | 2.50 | 4300 | 1.12 | 5650 | 0.50 | 6000 |
| 30 | 6.000 | WB660D | 6.30 | 5800 | 4.80 | 6075 | 2.50 | 12110 | 1.00 | 13510 |
| 30 | 7.000 | WB330 | 9.05 | 7880 | 7.00 | 11570 | 4.60 | 20280 | 2.25 | 25560 |
| 32 | 5.500 | WB432 | 5.15 | 4680 | 4.00 | 6750 | 2.50 | 11140 | 1.10 | 13200 |
| 36 | 4.000 | WB636 | 2.33 | 2310 | 1.80 | 3380 | 1.00 | 4800 | 0.42 | 5360 |
| 36 | 7.000 | WB672D | 7.25 | 8010 | 5.50 | 11670 | 2.87 | 16700 | 1.15 | 18650 |
| 36 | 8.000 | WB336 | 10.40 | 10900 | 8.10 | 15960 | 5.35 | 27950 | 2.60 | 35280 |
| 40 | 1.562 | WB1640 | 0.25 | 266 | 0.12 | 330 | 0.07 | 350 | 0.02 | 360 |
| 40 | 2.167 | WB1240 | 0.55 | 580 | 0.30 | 825 | 0.18 | 900 | 0.07 | 940 |
| 40 | 2.625 | WB1040 | 0.87 | 890 | 0.65 | 1220 | 0.30 | 1520 | 0.12 | 1630 |
| 40 | 2.812 | WB1680D | 0.75 | 910 | 0.33 | 1140 | 0.20 | 1200 | 0.07 | 1230 |

* Ratings listed are for bronze worm gears operating with hardened and ground steel worms. For ratings of cast iron worm gears with hardened steel worm, multiply listed ratings by 30%. For cast iron with hardened and ground steel worm, multiply by 50%.*

Torque ratings in inch pounds.

## Ratio-Center Distance Listings With Approximate Horsepower and Torque Ratings for Hardened and Ground Worms With Bronze Worm Gears

| RPM of Worm | | | 1800 | | 900 | | 300 | | 100 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Center | | *Gear | Input-Output | | Input-Output | | Input-Output | | Input-Output | |
| Ratio | Distance | | HP | Torque | HP | Torque | HP | Torque | HP | Torque |
| 40 | 3.250 | WB840 | 1.35 | 1440 | 0.85 | 2350 | 0.50 | 2700 | 0.20 | 2900 |
| 40 | 3.833 | WB1280D | 1.70 | 2040 | 1.15 | 2675 | 0.50 | 3160 | 0.20 | 3330 |
| 40 | 4.333 | WB640 | 2.50 | 2770 | 2.00 | 4033 | 1.00 | 5760 | 0.45 | 6420 |
| 40 | 4.625 | WB1080D | 2.60 | 3070 | 1.90 | 4270 | 0.85 | 5315 | 0.33 | 5680 |
| 40 | 5.150 | WB540 | 4.33 | 4930 | 3.40 | 7145 | 2.00 | 10725 | 0.83 | 12170 |
| 40 | 5.750 | WB880D | 4.00 | 4740 | 3.00 | 6850 | 1.40 | 8940 | 0.55 | 9680 |
| 40 | 6.500 | WB440 | 6.00 | 5520 | 4.65 | 7950 | 3.00 | 13200 | 1.33 | 15480 |
| 40 | 7.667 | WB680D | 7.83 | 9600 | 6.00 | 14000 | 3.00 | 20025 | 1.25 | 22340 |
| 48 | 3.750 | WB848 | 1.50 | 1950 | 1.20 | 2820 | 0.60 | 3650 | 0.25 | 3960 |
| 48 | 5.000 | WB648 | 2.80 | 3730 | 2.25 | 5460 | 1.25 | 7750 | 0.50 | 8640 |
| 48 | 7.500 | WB448 | 6.80 | 9320 | 5.25 | 13400 | 3.33 | 22200 | 1.50 | 26160 |
| 48 | 10.000 | WB348 | 12.70 | 17640 | 9.87 | 25920 | 6.50 | 45360 | 3.16 | 57120 |
| 50 | 1.875 | WB1650 | 0.30 | 380 | 0.20 | 450 | 0.08 | 490 | 0.03 | 515 |
| 50 | 2.583 | WB1250 | 0.66 | 840 | 0.50 | 1090 | 0.20 | 1300 | 0.08 | 1360 |
| 50 | 3.125 | WB1050 | 1.00 | 1280 | 0.75 | 1770 | 0.33 | 2200 | 0.14 | 2340 |
| 50 | 3.438 | WB16100D | 0.90 | 1290 | 0.50 | 1525 | 0.25 | 1690 | 0.08 | 1730 |
| 50 | 3.875 | WB850 | 1.60 | 2140 | 1.25 | 3130 | 0.66 | 4090 | 0.25 | 4430 |
| 50 | 4.667 | WB12100D | 2.00 | 2875 | 1.33 | 3600 | 0.50 | 4460 | 0.22 | 4700 |
| 50 | 5.167 | WB650 | 2.90 | 4000 | 2.25 | 5825 | 1.25 | 8310 | 0.50 | 9260 |
| 50 | 5.625 | WB10100D | 3.00 | 4440 | 2.16 | 6110 | 1.00 | 7675 | 0.33 | 8000 |
| 50 | 6.150 | WB550 | 5.12 | 7120 | 4.00 | 10320 | 2.25 | 15480 | 1.00 | 17570 |
| 50 | 7.000 | WB8100D | 4.10 | 5000 | 2.75 | 7500 | 1.50 | 8000 | 0.60 | 10000 |
| 50 | 9.333 | WB6100D | 9.00 | 13800 | 6.75 | 20200 | 3.50 | 28930 | 1.40 | 32280 |
| 54 | 11.000 | WB354 | 13.50 | 21230 | 10.50 | 31200 | 7.00 | 54480 | 3.33 | 68760 |
| 59 | 7.050 | WB559 | 5.50 | 9230 | 4.50 | 13900 | 2.50 | 20075 | 1.00 | 23160 |
| 60 | 2.188 | WB1660 | 0.33 | 550 | 0.20 | 650 | 0.08 | 720 | 0.03 | 740 |
| 60 | 3.000 | WB1260 | 0.75 | 1100 | 0.50 | 1440 | 0.25 | 1700 | 0.09 | 1790 |
| 60 | 3.625 | WB1060 | 1.00 | 1690 | 0.80 | 2330 | 0.33 | 2890 | 0.16 | 3080 |
| 60 | 4.500 | WB860 | 1.66 | 2660 | 1.33 | 3900 | 0.66 | 5090 | 0.25 | 5500 |
| 60 | 6.000 | WB660 | 3.20 | 5240 | 2.50 | 7670 | 1.40 | 1080 | 0.60 | 1225 |
| 64 | 9.500 | WB464 | 7.87 | 14280 | 6.00 | 20640 | 3.80 | 34080 | 1.70 | 40320 |
| 72 | 7.000 | WB672 | 3.33 | 6610 | 2.50 | 9660 | 1.50 | 13700 | 0.60 | 15360 |
| 80 | 2.812 | WB1680 | 0.33 | 705 | 0.22 | 830 | 0.09 | 920 | 0.04 | 950 |
| 80 | 3.833 | WB1280 | 0.75 | 1550 | 0.50 | 2030 | 0.25 | 2375 | 0.10 | 2520 |
| 80 | 4.625 | WB1080 | 1.15 | 2375 | 0.87 | 3275 | 0.40 | 4050 | 0.16 | 4330 |
| 80 | 5.750 | WB880 | 1.80 | 3800 | 1.40 | 5500 | 0.70 | 7140 | 0.30 | 7750 |
| 80 | 7.667 | WB680 | 3.33 | 7380 | 2.66 | 10750 | 1.50 | 15350 | 0.60 | 17110 |
| 96 | 6.750 | WB896 | 1.50 | 4200 | 1.00 | 6000 | 0.50 | 7000 | 0.20 | 8500 |
| 96 | 9.000 | WB696 | 3.25 | 8490 | 2.50 | 12370 | 1.33 | 17660 | 0.50 | 19680 |
| 100 | 3.438 | WB16100 | 0.33 | 810 | 0.20 | 960 | 0.09 | 1060 | 0.33 | 1100 |
| 100 | 4.667 | WB12100 | 0.75 | 1790 | 0.50 | 2330 | 0.25 | 2730 | 0.90 | 2800 |
| 100 | 5.625 | WB10100 | 1.00 | 2780 | 0.80 | 3850 | 0.33 | 4775 | 0.16 | 5100 |
| 100 | 7.000 | WB8100 | 1.67 | 4450 | 1.25 | 6300 | 0.67 | 8000 | 0.24 | 9000 |
| 100 | 9.333 | WB6100 | 3.20 | 8700 | 2.50 | 12675 | 1.33 | 18090 | 0.55 | 20160 |

* Ratings listed are for bronze worm gears operating with hardened and ground steel worms. For ratings of cast iron worm gears with hardened steel worm, multiply listed ratings by 30%. For cast iron with hardened and ground steel worm, multiply by 50%.*

Torque ratings in inch pounds.

# Gear Standards

Quality is the most important factor in buying a gear. We have established standards and tolerances to insure our customers of accurate, dependable and long-lasting gears. All gears are checked with precision pins to assure correct backlash and center distances.

**BACKLASH:** The recommended backlash for mating gears when assembled is:

| | | | |
|---|---|---|---|
| 3 DP | .009 — .014 | 10 DP | .003 — .005 |
| 4 DP | .007 — .011 | 12 DP | .003 — .005 |
| 5 DP | .006 — .009 | 16 DP | .002 — .004 |
| 6 DP | .005 — .008 | 20 DP | .002 — .004 |
| 8 DP | .004 — .006 | 24 DP | .002 — .004 |

**CONCENTRICITY** of pitch line with bore (Total Indicator Reading) is held within:

| | | | |
|---|---|---|---|
| 3 DP | .006 | 10 DP | .0040 |
| 4 DP | .006 | 12 DP | .0040 |
| 5 DP | .005 | 16 DP | .0025 |
| 6 DP | .005 | 20 DP | .0025 |
| 8 DP | .005 | 24 DP | .0025 |

Stock bores are reamed, honed or ground to a smooth finish and standard commercial tolerances or closer. For rust prevention on distributor's shelf and for better appearance when received by the user, all stock gears go through a special finishing process. They present a pleasing appearance when on display or on the shelf. They are not boxed. All gears are identified by part numbers.

# GEAR ENGINEERING DATA

PAGE

GEAR DRIVE SELECTION . . . . . G-80 – G-82
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## Stock Spur Gear Drive Selection

When designing a stock gear drive using the horsepower tables in this catalog, the following steps must be taken:

I. Find out these five necessary things:

a. Exact center distance in inches
b. Ratio and speeds
c. Service factor (from page G-84)
d. Actual horsepower
e. Bore sizes of both gears

II. Determine design horsepower using formula:

$$DHP = HP \times SF$$

Where: DHP = Design horsepower
HP = Actual horsepower
SF = Service factor (from page G-84)

III. Determine pitch diameters using the formulas:

$$PD_1 = \frac{CD \times 2}{Ratio + 1}$$

$$PD_2 = PD_1 \times Ratio$$

Where: $PD_1$ = Pitch diameter of pinion (small gear)
$PD_2$ = Pitch diameter of gear (large gear)
CD = Center distance

IV. Check the center distance:

$$CD = \frac{PD_1 + PD_2}{2}$$

V. Select pitch from horsepower tables on pages G-25 — G-27.

VI. Check selected pitch for necessary pitch diameters.

VII. Check horsepower capacity of large gear.

VIII. Check maximum bore capacity of selected gears.

## Spur Gear Drive Selection II (Other Than Stock)

When designing a gear drive when horsepower and speeds exceed the stock gear tables on pages G-25 – G-27, the following steps must be taken:

I. We must obtain all of the following data:

a. Exact center distance in inches
b. Ratio and speeds
c. Service factor (from page G-84)
d. Actual horsepower
e. Bore sizes of both gears

II. We must obtain all of the following data:

$$DHP = HP \times SF$$

Where: DHP = Design horsepower
HP = Actual horsepower
SF = Service factor (from page G-84)

III. Determine pitch diameters using the formulas:

$$PD_1 = \frac{CD \times 2}{Ratio + 1}$$

$$PD_2 = PD_1 \times Ratio$$

Where: $PD_1$ = Pitch diameter of pinion (small gear)
$PD_2$ = Pitch diameter of gear (large gear)
CD = Center distance

IV. Determine velocity using the formula:

$$V = .262 \times PD \times RPM$$

Where: V = Velocity in feet per minute @ pitch line
PD = Pitch diameter
RPM = Revolutions per minute of either gear*

V. Determine approximate pitch using the formula:

$$DP = \sqrt{\frac{3.1416 \times S \times 3 \times V \times .25}{DHP \times 27.5\ (1200 + V)}}$$

Where: DP = Diametral Pitch
S = Safe Static Stress per Square Inch of material (see table one, page G-84)
V = Velocity in FPM
DHP = Design Horsepower

Note: To round off answers, go to the nearest DP (standard DP's larger than 3 DP are: 1 DP, 1 1/4 DP, 1 1/2 DP, 1 3/4 DP, 2 DP, 2 1/2 DP)

VI. Determine number of teeth on both gears:

$$N = PD \times DP$$

Where: N = Number of teeth
PD = Pitch diameter of gear
DP = Diametral pitch of gear

VII. Determine face width:

$$F = \frac{DP\left(\frac{DHP \times 33{,}000}{V}\right)}{SY\left(\frac{600}{600 + V}\right)}$$

Where: F = Face Width
DP = Diametral Pitch
V = Velocity in FPM
S = Safe Static Stress per Square Inch of material (Table 1, page G-84)
Y = Outline formula from Table 2, page G-84

Note: To round off each answer, go to the next one inch.

VIII. Check HP rating of selected pinion using the formula::

$$HP = \frac{LV}{33{,}000}$$

Where: $L = \frac{SYF}{DP} \times \frac{600}{600 + V}$

From horsepower formulas on page G-83.

Note: If the horsepower capacity is below the design horsepower, the following options can be taken:

a. Harden pinion (check gear HP capacity first)
b. Increase face
c. Increase pitch

* NOTE: Velocities of both gears will always be the same. When using the above formula make sure to use the proper speed (RPM) with the proper pitch diameter.

## Center Distance, Pitch Diameters and Ratios of Spur Gears

I. To determine the pitch diameters of a gear set, we must find two basic things:

a. Required ratio

b. Required center distance

II. Knowing this, first figure out the pitch diameter of the pinion (smaller gear) using the formula:

$$PD_1 = \frac{CD \times 2}{Ratio + 1}$$

Where: $PD_1$ = Pitch diameter of pinion (small gear)

CD = Center distance

III. Then, find the pitch diameter of the larger gear, PD2, by using the formula:

$$PD_2 = PD_1 \times Ratio$$

Where: $PD_1$ = Pitch diameter of pinion (small gear)

$PD_2$ = Pitch diameter of gear (large gear)

CD = Center distance

IV. Then check the center distance by using the formula:

$$CD = \frac{PD_1 + PD_2}{2}$$

Where: $PD_1$ = Pitch diameter of pinion (small gear)

$PD_2$ = Pitch diameter of gear (large gear)

CD = Center distance

## Horsepower Formulas

See page G-84 for tables one, two and three.

**Engineering Data**
Lewis formula (with Barth revision)

L = Load in pounds at pitch line

S = Safe static stress per square inch of material (see table one)

DP = Diametral Pitch

F = Face width of gear

Y = Strength factor based on Pressure Angle and Number of Teeth (See table two)

V = Velocity in feet per minute

V = .262 × PD × RPM

PD = Pitch Diameter

RPM = Revolutions Per Minute

HP = Horsepower

$$L = \frac{SYF}{DP} \times \frac{600}{600 + V}$$

Maximum allowable torque (T) that should be imposed on a gear will be the safe tooth load (L) multiplied by:

$$\frac{DP}{2} \text{ or } T = \frac{L \times PD}{2}$$

The safe Horsepower capacity of the gear (at a given RPM) can be calculated from:

$$HP = \frac{T \times RPM}{63{,}025}$$

Or directly from (L) and (V):

$$^{*}HP = \frac{LV}{33{,}000}$$

For a known HP:

$$T = \frac{63025 \times HP}{RPM}$$

For NON-METALLIC GEARS, the modified Lewis formula shown below may be used with (S) values of 6000 PSI for phenolic laminated material.

$$L = \frac{SYF}{DP}\left(\frac{150}{200 + V} + .25\right)$$

* Apply SERVICE FACTOR (table three) for required horsepower.

# Gear Standards

## Table One
### (S) Average values in pounds per square inch

| Material | | S |
|---|---|---|
| Steel | — .40 Carbon | 25000 |
| | — .20 Carbon | 20000 |
| Steel | — .40 Carbon Heat Treated | 35000 |
| Cast Iron | | 12000 |
| Bronze | | 10000 |
| Non-Metallic | | 6000 |

## Table Two
### Outline factor Y for use with Diametral Pitch

| Number of Teeth | 14 1/2 P.A. Involute | 20 P.A. Involute | Number of Teeth | 14 1/2 P.A. Involute | 20 P.A. Involute |
|---|---|---|---|---|---|
| 10 | .176 | .201 | 26 | .308 | .344 |
| 11 | .192 | .226 | 28 | .314 | .352 |
| 12 | .210 | .245 | 30 | .318 | .358 |
| 13 | .223 | .264 | 35 | .327 | .373 |
| 14 | .235 | .276 | 40 | .336 | .389 |
| 15 | .245 | .289 | 45 | .340 | .399 |
| 16 | .255 | .295 | 50 | .346 | .408 |
| 17 | .264 | .302 | 60 | .355 | .421 |
| 18 | .270 | .308 | 70 | .360 | .429 |
| 19 | .277 | .314 | 80 | .363 | .436 |
| 20 | .283 | .320 | 90 | .366 | .442 |
| 21 | .289 | .326 | 100 | .368 | .446 |
| 22 | .292 | .330 | 150 | .375 | .458 |
| 23 | .296 | .333 | 200 | .378 | .463 |
| 24 | .302 | .337 | RACK | .390 | .484 |
| 25 | .305 | .340 | | | |

## Table Three
### Service factors
### Multiply required horsepower by service factor recommended for type of service

| Type of Load | Intermittent Of 3 Hours Per Day | 8-10 Hours Per Day | Continuous 24 Hours Per Day |
|---|---|---|---|
| UNIFORM | 0.80 | 1.00 | 1.25 |
| LIGHT SHOCK | 1.00 | 1.25 | 1.50 |
| MEDIUM SHOCK | 1.25 | 1.50 | 1.80 |
| HEAVY SHOCK | 1.50 | 1.80 | 2.00 |

# Spur Gear Dimensional Formulas Diametral Pitch

## Rules and Formulas For Spur Gear Calculations

**Diametral Pitch is the number of teeth to each inch of the pitch diameter.**

| To Find | Having | Rule | Formula |
|---|---|---|---|
| Diametrical Pitch (DP) | Circular Pitch (CP) | Divide 3.1416 by Circular Pitch (CP) | $DP = \frac{3.1416}{CP}$ |
| | Pitch Diameter (PD) and Number of Teeth (N) | Divide Number of Teeth (N) by Pitch Diameter (PD) | $DP = \frac{N}{PD}$ |
| | Outside Diameter (OD) and Number of Teeth (N) | Divide Number of Teeth (N) plus 2 by Outside Diameter (OD) | $DP = \frac{N + 2}{OD}$ |
| Pitch Diameter (PD) | Number of Teeth (N) and Diametral Pitch (DP) | Divide Number of Teeth (N) by Diametral Pitch (DP) | $PD = \frac{N}{DP}$ |
| | Number of Teeth (N) and Outside Diameter (OD) | Divide product of Outside Diameter (OD) and Number of Teeth (N) by Number of Teeth (N) plus 2 | $PD = \frac{OD \times N}{N + 2}$ |
| | Outside Diameter (OD) and Diametral Pitch (DP) | Subtract from Outside Diameter (OD) quotient of 2 divided by Diametral Pitch (DP) | $PD = OD - (2 \div DP)$ |
| | Addendum (a) and Number of Teeth (N) | Multiply Addendum (a) by Number of Teeth (N) | $PD = a \times N$ |
| Outside Diameter (OD) | Number of Teeth (N) and Diametral Pitch (DP) | Divide Number of Teeth (N) plus 2 by Diametral Pitch (DP) | $OD = \frac{N + 2}{DP}$ |
| | Pitch Diameter (PD) and Diametral Pitch (DP) | Add to Pitch Diameter (PD) quotient of 2 divided by Diametral Pitch (DP) | $OD = PD + \frac{2}{DP}$ |
| | Pitch Diameter (PD) and Number of Teeth (N) | Divide Number of Teeth (N) plus 2 by quotient of Number of Teeth (N) divided by Pitch Diameter (PD) | $OD = \frac{N + 2}{N \div PD}$ |
| | Number of Teeth (N) and Addendum (a) | Multiply Number of Teeth (N) plus 2 by Addendum (a) | $OD = (N + 2) \times a$ |
| Number Of Teeth (N) | Pitch Diameter (PD) and Diametral Pitch (DP) | Multiply Pitch Diameter (PD) by Diametral Pitch (DP) | $N = PD \times DP$ |
| | Outside Diameter (OD) and Diametral Pitch (DP) | Multiply Outside Diameter (OD) by Diametral Pitch (DP) and subtract 2 | $N = (OD \times DP) - 2$ |
| Thickness Of Tooth (t) | Diametral Pitch (DP) | Divide 1.5708 By Diametral Pitch (DP) | $t = \frac{1.5708}{DP}$ |
| Addendum (a) | Diametral Pitch (DP) | Divide 1 by Diametral Pitch (DP) | $a = \frac{1}{DP}$ |
| Dedendum (b) | Diametral Pitch (DP) | Divide 1.157 By Diametral Pitch (DP) | $b = \frac{1.157}{DP}$ |
| Working Depth (hk) | Diametral Pitch (DP) | Divide 2 by Diametral Pitch (DP) | $hk = \frac{2}{DP}$ |
| Whole Depth (ht) | Diametral Pitch (DP) | Divide 2.157 By Diametral Pitch (DP) | $ht = \frac{2.157}{DP}$ |
| Clearance (c) | Diametral Pitch (DP) | Divide .157 By Diametral Pitch (DP) | $c = \frac{.157}{DP}$ |
| | Thickness of Tooth (t) | Divide Thickness of Tooth (t) at Pitch Line by 10 | $c = \frac{t}{10}$ |

Note: Rules and formulas relating to tooth depth and outside diameter apply to full-depth, equal addendum gears.

# Diametral Pitch
# Tooth Dimensions

## Dimensions of Standard Full-depth Teeth

### Diametral Pitches and Equivalent Circular Pitches

| Diametral Pitch | Circular Pitch | Module | Arc thickness of Tooth on Pitch Line | Addendum | Working Depth of tooth | Dedendum of Depth of Space Below Pitch Line | Whole Depth of Tooth* |
|---|---|---|---|---|---|---|---|
| 1/2 | 6.2832 | 50.8 | 3.1416 | 2.0000 | 4.0000 | 2.3142 | 4.3142 |
| 3/4 | 4.1888 | 33.8667 | 2.0944 | 1.3333 | 2.6666 | 1.5428 | 2.8761 |
| 1 | 3.1416 | 25.4 | 1.5708 | 1.0000 | 2.0000 | 1.1571 | 2.1571 |
| 1 1/4 | 2.5133 | 20.32 | 1.2566 | 0.8000 | 1.6000 | 0.9257 | 1.7257 |
| 1 1/2 | 2.0944 | 16.9333 | 1.0472 | 0.6666 | 1.3333 | 0.7714 | 1.4381 |
| 1 3/4 | 1.7952 | 14.5143 | 0.8976 | 0.5714 | 1.1429 | 0.6612 | 1.2326 |
| 2 | 1.5708 | 12.7 | 0.7854 | 0.5000 | 1.0000 | 0.5785 | 1.0785 |
| 2 1/4 | 1.3963 | 11.2889 | 0.6981 | 0.4444 | 0.8888 | 0.5143 | 0.9587 |
| 2 1/2 | 1.2566 | 10.16 | 0.6283 | 0.4000 | 0.8000 | 0.4628 | 0.8628 |
| 2 3/4 | 1.1424 | 9.2364 | 0.5712 | 0.3636 | 0.7273 | 0.4208 | 0.7844 |
| 3 | 1.0472 | 8.4667 | 0.5236 | 0.3333 | 0.6666 | 0.3857 | 0.7190 |
| 3 1/2 | 0.8976 | 7.2571 | 0.4488 | 0.2857 | 0.5714 | 0.3306 | 0.6163 |
| 4 | 0.7854 | 6.35 | 0.3927 | 0.2500 | 0.5000 | 0.2893 | 0.5393 |
| 5 | 0.6283 | 5.08 | 0.3142 | 0.2000 | 0.4000 | 0.2314 | 0.4314 |
| 6 | 0.5236 | 4.2333 | 0.2618 | 0.1666 | 0.3333 | 0.1928 | 0.3595 |
| 7 | 0.4488 | 3.6286 | 0.2244 | 0.1429 | 0.2857 | 0.1653 | 0.3081 |
| 8 | 0.3927 | 3.175 | 0.1963 | 0.1250 | 0.2500 | 0.1446 | 0.2696 |
| 9 | 0.3491 | 2.8222 | 0.1745 | 0.1111 | 0.2222 | 0.1286 | 0.2397 |
| 10 | 0.3142 | 2.54 | 0.1571 | 0.1000 | 0.2000 | 0.1157 | 0.2157 |
| 11 | 0.2856 | 2.3091 | 0.1428 | 0.0909 | 0.1818 | 0.1052 | 0.1961 |
| 12 | 0.2618 | 2.1167 | 0.1309 | 0.0833 | 0.1666 | 0.0964 | 0.1798 |
| 13 | 0.2417 | 1.9538 | 0.1208 | 0.0769 | 0.1538 | 0.0890 | 0.1659 |
| 14 | 0.2244 | 1.8143 | 0.1122 | 0.0714 | 0.1429 | 0.0826 | 0.1541 |
| 15 | 0.2094 | 1.6933 | 0.1047 | 0.0666 | 0.1333 | 0.0771 | 0.1438 |
| 16 | 0.1963 | 1.5875 | 0.0982 | 0.0625 | 0.1250 | 0.0723 | 0.1348 |
| 17 | 0.1848 | 1.4941 | 0.0924 | 0.0588 | 0.1176 | 0.0681 | 0.1269 |
| 18 | 0.1745 | 1.4111 | 0.0873 | 0.0555 | 0.1111 | 0.0643 | 0.1198 |
| 19 | 0.1653 | 1.3368 | 0.0827 | 0.0526 | 0.1053 | 0.0609 | 0.1135 |
| 20 | 0.1571 | 1.27 | 0.0785 | 0.0500 | 0.1000 | 0.0579 | 0.1079 |
| 22 | 0.1428 | 1.1545 | 0.0714 | 0.0455 | 0.0909 | 0.0526 | 0.0980 |
| 24 | 0.1309 | 1.0583 | 0.0654 | 0.0417 | 0.0833 | 0.0482 | 0.0898 |
| 26 | 0.1208 | 0.9769 | 0.0604 | 0.0385 | 0.0769 | 0.0445 | 0.0829 |
| 28 | 0.1122 | 0.9071 | 0.0561 | 0.0357 | 0.0714 | 0.0413 | 0.0770 |
| 30 | 0.1047 | 0.8467 | 0.0524 | 0.0333 | 0.0666 | 0.0386 | 0.0719 |
| 32 | 0.0982 | 0.7938 | 0.0491 | 0.0312 | 0.0625 | 0.0362 | 0.0674 |
| 34 | 0.0924 | 0.7471 | 0.0462 | 0.0294 | 0.0588 | 0.0340 | 0.0634 |
| 36 | 0.0873 | 0.7056 | 0.0436 | 0.0278 | 0.0555 | 0.0321 | 0.0599 |
| 38 | 0.0827 | 0.6684 | 0.0413 | 0.0263 | 0.0526 | 0.0304 | 0.0568 |
| 40 | 0.0785 | 0.635 | 0.0393 | 0.0250 | 0.0500 | 0.0289 | 0.0539 |

*NOTE: Dimensions listed are for HOB CUT TEETH ONLY. Shaper cut teeth may be slightly larger. Consult factory for exact measurement.

**All Gears In Stock Are Diametral Pitch**

# Spur Gear Dimensional Formulas Circular Pitch

## Rules and Formulas For Spur Gear Calculations

**Circular Pitch is the distance from the center of one tooth to the center of the next tooth, measured along the pitch circle.**

| To Find | Having | Rule | Formula |
|---|---|---|---|
| Circular Pitch (CP) | Diametral Pitch (DP) | Divide 3.1416 by Diametral Pitch (DP) | $CP = \frac{3.1416}{DP}$ |
| | Pitch Diameter (PD) and Number of Teeth (N) | Divide Pitch Diameter (PD) by product of .3183 and Number of Teeth (N) | $CP = \frac{PD}{.3183 \times N}$ |
| | Outside Diameter (OD) and Number of Teeth (N) | Divide Outside Diameter (OD) by product of .3183 and Number of Teeth (N) plus 2 | $CP = \frac{OD}{.3183\ (N + 2)}$ |
| Pitch Diameter (PD) | Number of Teeth (N) and Circular Pitch (CP) | The continued product of Number of Teeth (N), Circular Pitch (CP) and .3183 | $PD = N \times CP \times .3183$ |
| | Number of Teeth (N) and Outside Diameter (OD) | Divide product of Number of Teeth (N) and Outside Diameter (OD) by Number of Teeth (N) plus 2 | $PD = \frac{N \times OD}{N + 2}$ |
| | Outside Diameter (OD) and Circular Pitch (CP) | Subtract from Outside Diameter (OD) product of Circular Pitch (CP) and .6366 | $PD = OD - (CP \times .6366)$ |
| | Addendum (a) and Number of Teeth (N) | Multiply Number of Teeth (N) by Addendum (a) | $PD = N \times a$ |
| Outside Diameter (OD) | Number of Teeth (N) and Circular Pitch (CP) | The continued product of Number of Teeth (N) plus 2, Circular Pitch (CP) and .3183 | $OD = (N + 2)\ CP \times .3183$ |
| | Pitch Diameter (PD) and Circular Pitch (CP) | Add to Pitch Diameter (PD) product of Circular Pitch (CP) and .6366 | $OD = PD + (CP \times .3183)$ |
| | Number of Teeth (N) and Addendum (a) | Multiply Addendum (a) by Number of Teeth (N) plus 2 | $D = a \times (N + 2)$ |
| Number of Teeth (N) | Pitch Diameter (PD) and Circular Pitch (CP) | Divide product of Pitch Diameter (PD) and 3.1416 by Circular Pitch (CP) | $N = \frac{PD \times 3.1416}{CP}$ |
| Thickness of Tooth (t) | Circular Pitch (CP) | One-half Circular Pitch (CP) | $t = \frac{CP}{2}$ |
| Addendum (a) | Circular Pitch (CP) | Multiply Circular Pitch (CP) by .3183 | $a = CP \times .3183$ |
| Dedendum (b) | Circular Pitch (CP) | Multiply Circular Pitch (CP) by .3683 | $b = CP \times .3683$ |
| Working Depth (hk) | Circular Pitch (CP) | Multiply Circular Pitch (CP) by .6366 | $hk = CP \times .6366$ |
| Whole Depth (ht) | Circular Pitch (CP) | Multiply Circular Pitch (CP) by .6866 | $ht = CP \times .6366$ |
| Clearance (c) | Circular Pitch (CP) | Multiply Circular Pitch (CP) by .05 | $c = CP \times .05$ |
| | Thickness of Tooth (t) | One-Tenth the Thickness of Tooth (t) at Pitch Line | $c = \frac{t}{10}$ |

Note: Rules and formulas relating to tooth depth and outside diameter apply to full-depth, equal addendum gears.

**Circular Pitch Gears Made-To-Order Only**

# Circular Pitch
# Tooth Dimensions

## Dimensions of Standard Full-depth Teeth

### Circular Pitches and Equivalent Diametral Pitches

| Diametral Pitch | Diametral Pitch | Module | Arc thickness of Tooth on Pitch Line | Addendum | Working Depth of tooth | Dedendum of Depth of Space Below Pitch Line | Whole Depth of Tooth* |
|---|---|---|---|---|---|---|---|
| 4 | 0.7854 | 32.3402 | 2.0000 | 1.2732 | 2.5464 | 1.4732 | 2.7464 |
| 3 1/2 | 0.8976 | 28.2581 | 1.7500 | 1.1140 | 2.2281 | 1.2890 | 2.4031 |
| 3 | 1.0472 | 24.2552 | 1.5000 | 0.9549 | 1.9098 | 1.1049 | 2.0598 |
| 23/4 | 1.1424 | 22.2339 | 1.3750 | 0.8753 | 1.7506 | 1.0128 | 1.8881 |
| 2 1/2 | 1.2566 | 20.2117 | 1.2500 | 0.7957 | 1.5915 | 0.9207 | 1.7165 |
| 2 1/4 | 1.3963 | 18.1913 | 1.1250 | 0.7162 | 1.4323 | 0.8287 | 1.5448 |
| 2 | 1.5708 | 16.1701 | 1.0000 | 0.6366 | 1.2732 | 0.7366 | 1.3732 |
| 1 7/8 | 1.6755 | 15.1595 | 0.9375 | 0.5968 | 1.1937 | 0.6906 | 1.2874 |
| 1 3/4 | 1.7952 | 14.1488 | 0.8750 | 0.5570 | 1.1141 | 0.6445 | 1.2016 |
| 1 5/8 | 1.9333 | 13.1382 | 0.8125 | 0.5173 | 1.0345 | 0.5985 | 1.1158 |
| 1 1/2 | 2.0944 | 12.1276 | 0.7500 | 0.4775 | 0.9549 | 0.5525 | 1.0299 |
| 1 7/16 | 2.1855 | 11.6223 | 0.7187 | 0.4576 | 0.9151 | 0.5294 | 0.9870 |
| 1 3/8 | 2.2848 | 11.1169 | 0.6875 | 0.4377 | 0.8754 | 0.5064 | 0.9441 |
| 1 5/16 | 2.3936 | 10.6116 | 0.6562 | 0.4178 | 0.8356 | 0.4834 | 0.9012 |
| 1 1/4 | 2.5133 | 10.1062 | 0.6250 | 0.3979 | 0.7958 | 0.4604 | 0.8583 |
| 1 3/16 | 2.6456 | 9.6010 | 0.5937 | 0.3780 | 0.7560 | 0.4374 | 0.8154 |
| 1 1/8 | 2.7925 | 9.0958 | 0.5625 | 0.3581 | 0.7162 | 0.4143 | 0.7724 |
| 1 1/16 | 2.9568 | 8.5904 | 0.5312 | 0.3382 | 0.6764 | 0.3913 | 0.7295 |
| 1 | 3.1416 | 8.0851 | 0.5000 | 0.3183 | 0.6366 | 0.3683 | 0.6866 |
| 15/16 | 3.3510 | 7.5798 | 0.4687 | 0.2984 | 0.5968 | 0.3453 | 0.6437 |
| 7/8 | 3.5904 | 7.0744 | 0.4375 | 0.2785 | 0.5570 | 0.3223 | 0.6007 |
| 13/16 | 3.8666 | 6.5692 | 0.4062 | 0.2586 | 0.5173 | 0.2993 | 0.5579 |
| 3/4 | 4.1888 | 6.0639 | 0.3750 | 0.2387 | 0.4775 | 0.2762 | 0.5150 |
| 11/16 | 4.5696 | 5.5586 | 0.3437 | 0.2189 | 0.4377 | 0.2532 | 0.4720 |
| 2/3 | 4.7124 | 5.3903 | 0.3333 | 0.2122 | 0.4244 | 0.2455 | 0.4577 |
| 5/8 | 5.0265 | 5.0532 | 0.3125 | 0.1989 | 0.3979 | 0.2301 | 0.4291 |
| 9/16 | 5.5851 | 4.5479 | 0.2812 | 0.1790 | 0.3581 | 0.2071 | 0.3862 |
| 1/2 | 6.2832 | 4.0426 | 0.2500 | 0.1592 | 0.3183 | 0.1842 | 0.3433 |
| 7/16 | 7.1808 | 3.5373 | 0.2187 | 0.1393 | 0.2785 | 0.1611 | 0.3003 |
| 2/5 | 7.8540 | 3.2340 | 0.2000 | 0.1273 | 0.2546 | 0.1473 | 0.2746 |
| 3/8 | 8.3776 | 3.0319 | 0.1875 | 0.1194 | 0.2387 | 0.1381 | 0.2575 |
| 1/3 | 9.4248 | 2.6947 | 0.1666 | 0.1061 | 0.2122 | 0.1228 | 0.2289 |
| 5/16 | 10.0531 | 2.5266 | 0.1562 | 0.0995 | 0.1989 | 0.1151 | 0.2146 |
| 2/7 | 10.9956 | 2.3100 | 0.1429 | 0.0909 | 0.1819 | 0.1052 | 0.1962 |
| 1/4 | 12.5664 | 2.0213 | 0.1250 | 0.0796 | 0.1591 | 0.0921 | 0.1716 |
| 2/9 | 14.1372 | 1.7967 | 0.1111 | 0.0707 | 0.1415 | 0.0818 | 0.1526 |
| 1/5 | 15.7080 | 1.6170 | 0.1000 | 0.0637 | 0.1273 | 0.0737 | 0.1373 |
| 3/16 | 16.7552 | 1.5160 | 0.0937 | 0.0597 | 0.1194 | 0.0690 | 0.1287 |
| 1/6 | 18.8496 | 0.5053 | 0.0833 | 0.0531 | 0.1061 | 0.0614 | 0.1144 |

*NOTE: Dimensions listed are for HOB CUT TEETH ONLY. Shaper cut teeth may be slightly larger. Consult factory for exact measurement.

**All Circular Pitch Gears Are Made-To-Order**

# Spur Gear Dimensional Formulas Module

## Rules and Formulas
## For Module (Metric) Spur Gear Calculations

### (Module Represents the Amount of Pitch Diameter per Tooth)

| To Find | Having | Rule | Formula |
|---|---|---|---|
| Metric Module (m) | Pitch Diameter (PD) and Number of Teeth (N) | Divide Pitch Diameter (PD) in millimeters (*mm*) by Number of Teeth (N) | $m = \frac{PD\ mm}{N}$ |
| | Circular Pitch (DP) in millimeter | Divide Circular Pitch (DP) in millimeters (*mm*) by Pi (3.1416) | $m = \frac{CP\ mm}{3.1416}$ |
| | Diametral Pitch (DP) | Divide 25.4 by Diametral Pitch (DP) | $m = \frac{25.4}{DP}$ |
| | Outside Diameter (OD) and Number of Teeth (N) | Divide Outside Diameter (OD) in millimeters (*mm*) by Number of Teeth (N) plus 2 | $m = \frac{OD}{N + 2}$ |
| Pitch Diameter (PD) | Module (m) and Number of Teeth (N) | Multiply Module (m) by Number of Teeth (N) | $PD\ mm = m \times N$ |
| | Number of Teeth (N) and Outside Diameter (OD) | Divide the product of Outside Diameter (OD) and Number of Teeth (N) by Number of Teeth (N) plus 2 | $PD = \frac{OD \times N}{N + 2}$ |
| | Outside Diameter (OD) and Module (m) | Multiply Module (m) by 2 and subtract from Outside Diameter (OD) | $PD = OD - (m \times 2)$ |
| Outside Diameter (OD) | Module (m) and Number of Teeth (N) | Number of Teeth (N) plus 2 multiplied by Module (m) | $OD\ mm = (N + 2) \times m$ |
| Diametral Pitch (DP) | Module (m) | Divide 25.4 by Module (m) | $DP = \frac{25.4}{m}$ |
| Circular Pitch (DP) | Module (m) | Multiply Module (m) by Pi (3.1416) | $CP\ mm = m \times 3.1416$ |
| Addendum (a) | Module (m) | Addendum (a) equals Module (m) | $a = m$ |
| Whole Depth (ht) | Module (m) | Multiply 2.157 by Module (m) | $ht\ mm = 2.157 \times m$ |
| Thickness of Tooth (t) | Module (m) and Outside Diameter (OD) | Multiply Pitch Diameter (PD) in millimeters (*mm*) by sine of angle of 90 divided by Number of Teeth (N) | $t\ mm = PD\ mm \times \text{Sine}\ \frac{90}{N}$ |
| ANSI Module (m) | Pitch Diameter (PD) in inches and Number of Teeth (N) | Divide Pitch Diameter (PD) in inches by Number of Teeth (N) | $m'' = \frac{PD''}{N}$ (Answer in fraction) |

Note: Rules and formulas relating to tooth depth and outside diameter apply to full-depth, equal addendum gears.

# Module Pitch
# Tooth Dimensions

## Tooth Dimensions Based Upon Module System
### (One millimeter equals 0.03937 inch)

| Module (DIN Standard Series) | Equivalent Diametrical Pitch | Circular Pitch | | Addendum (mm) | Dedendum * (mm) | Whole Depth * (mm) | Whole Depth ** (mm) |
|---|---|---|---|---|---|---|---|
| | | Millimeters | Inches | | | | |
| 0.30 | 84.667 | 0.943 | 0.0371 | 0.30 | 0.350 | 0.650 | 0.647 |
| 0.40 | 63.500 | 1.257 | 0.0495 | 0.40 | 0.467 | 0.867 | 0.863 |
| 0.50 | 50.800 | 1.571 | 0.0618 | 0.50 | 0.583 | 1.083 | 1.079 |
| 0.60 | 42.333 | 1.885 | 0.0742 | 0.60 | 0.700 | 1.300 | 1.294 |
| 0.70 | 36.286 | 2.199 | 0.0865 | 0.70 | 0.817 | 1.517 | 1.510 |
| 0.80 | 31.750 | 2.513 | 0.0989 | 0.80 | 0.933 | 1.733 | 1.726 |
| 0.90 | 28.222 | 2.827 | 0.1113 | 0.90 | 1.050 | 1.950 | 1.941 |
| 1.00 | 25.400 | 3.142 | 0.1237 | 1.00 | 1.167 | 2.167 | 2.157 |
| 1.25 | 20.320 | 3.927 | 0.1546 | 1.25 | 1.458 | 2.708 | 2.697 |
| 1.50 | 16.933 | 4.712 | 0.1855 | 1.50 | 1.750 | 3.250 | 3.236 |
| 1.75 | 14.514 | 5.498 | 0.2164 | 1.75 | 2.042 | 3.792 | 3.774 |
| 2.00 | 12.700 | 6.283 | 0.2474 | 2.00 | 2.333 | 4.333 | 4.314 |
| 2.25 | 11.289 | 7.069 | 0.2783 | 2.25 | 2.625 | 4.875 | 4.853 |
| 2.50 | 10.160 | 7.854 | 0.3092 | 2.50 | 2.917 | 5.417 | 5.392 |
| 2.75 | 9.236 | 8.639 | 0.3401 | 2.75 | 3.208 | 5.958 | 5.932 |
| 3.00 | 8.466 | 9.425 | 0.3711 | 3.00 | 3.500 | 6.500 | 6.471 |
| 3.25 | 7.815 | 10.210 | 0.4020 | 3.25 | 3.791 | 7.041 | 7.010 |
| 3.50 | 7.257 | 10.996 | 0.4329 | 3.50 | 4.083 | 7.583 | 7.550 |
| 3.75 | 6.773 | 11.781 | 0.4638 | 3.75 | 4.375 | 8.125 | 8.089 |
| 4.00 | 6.350 | 12.566 | 0.4947 | 4.00 | 4.666 | 8.666 | 8.628 |
| 4.50 | 5.644 | 14.137 | 0.5566 | 4.50 | 5.250 | 9.750 | 9.707 |
| 5.00 | 5.080 | 15.708 | 0.6184 | 5.00 | 5.833 | 10.833 | 10.785 |
| 5.50 | 4.618 | 17.279 | 0.6803 | 5.50 | 6.416 | 11.916 | 11.864 |
| 6.00 | 4.233 | 18.850 | 0.7421 | 6.00 | 7.000 | 13.000 | 12.942 |
| 6.50 | 3.908 | 20.420 | 0.8035 | 6.50 | 7.583 | 14.083 | 14.021 |
| 7.00 | 3.628 | 21.991 | 0.8658 | 7.00 | 8.166 | 15.166 | 15.099 |
| 8.00 | 3.175 | 25.132 | 0.9895 | 8.00 | 9.333 | 17.333 | 17.256 |
| 9.00 | 2.822 | 28.274 | 1.1132 | 9.00 | 10.499 | 19.499 | 19.413 |
| 10.00 | 2.540 | 31.416 | 1.2368 | 10.00 | 11.666 | 21.666 | 21.571 |
| 11.00 | 2.309 | 34.558 | 1.3606 | 11.00 | 12.833 | 23.833 | 23.728 |
| 12.00 | 2.117 | 37.699 | 1.4843 | 12.00 | 14.000 | 26.000 | 25.884 |
| 13.00 | 1.954 | 40.841 | 1.6079 | 13.00 | 15.166 | 28.166 | 28.041 |
| 14.00 | 1.814 | 43.982 | 1.7317 | 14.00 | 16.332 | 30.332 | 30.198 |
| 15.00 | 1.693 | 47.124 | 1.8541 | 15.00 | 17.499 | 32.499 | 32.355 |
| 16.00 | 1.587 | 50.266 | 1.9790 | 16.00 | 18.666 | 34.666 | 34.512 |
| 18.00 | 1.411 | 56.549 | 2.2263 | 18.00 | 21.000 | 39.000 | 38.826 |
| 20.00 | 1.270 | 62.832 | 2.4737 | 20.00 | 23.332 | 43.332 | 43.142 |
| 22.00 | 1.155 | 69.115 | 2.7210 | 22.00 | 25.665 | 47.665 | 47.454 |
| 24.00 | 1.058 | 75.398 | 2.9685 | 24.00 | 28.000 | 52.000 | 51.768 |
| 27.00 | 0.941 | 84.823 | 3.339 | 27.00 | 31.498 | 58.498 | 58.239 |
| 30.00 | 0.847 | 94.248 | 3.711 | 30.00 | 35.000 | 65.000 | 64.713 |
| 33.00 | 0.770 | 103.673 | 4.082 | 33.00 | 38.498 | 71.498 | 71.181 |
| 36.00 | 0.706 | 113.097 | 4.453 | 36.00 | 41.998 | 77.998 | 77.652 |
| 39.00 | 0.651 | 122.522 | 4.824 | 39.00 | 45.497 | 84.497 | 84.123 |
| 42.00 | 0.605 | 131.947 | 5.195 | 42.00 | 48.997 | 90.997 | 90.594 |
| 45.00 | 0.564 | 141.372 | 5.566 | 45.00 | 52.497 | 97.497 | 97.065 |
| 50.00 | 0.508 | 157.080 | 6.184 | 50.00 | 58.330 | 108.330 | 107.855 |
| 55.00 | 0.462 | 172.788 | 6.803 | 55.00 | 64.163 | 119.163 | 118.635 |
| 60.00 | 0.423 | 188.496 | 7.421 | 60.00 | 69.996 | 129.996 | 129.426 |
| 65.00 | 0.391 | 204.204 | 8.040 | 65.00 | 75.829 | 140.829 | 140.205 |
| 70.00 | 0.363 | 219.911 | 8.658 | 70.00 | 81.662 | 151.662 | 150.997 |
| 75.00 | 0.339 | 235.619 | 9.276 | 75.00 | 87.495 | 162.495 | 161.775 |

* Dedendum and total depth when clearance = 0.1666 x module, or one-sixth module.

** Total Depth equivalent to American standard full-depth teeth. (Clearance = 0.157 x Module.).

# Bevel & Miter Gear Formulas

| To Find | Rule | Formula |
|---|---|---|
| Pitch Diameter (PD) | Divide Number of Teeth (N) by Diametral Pitch (DP) | $PD = \frac{N}{DP}$ |
| Tangent of Pitch Angle (Pα) of Driven | Divide Number of Teeth (N) in Driven by Number of Teeth (N) in Driver | $\tan(P\alpha\ \mathit{Driven}) = \frac{N\ \mathit{Driven}}{N\ \mathit{Driver}} = \text{Ratio}$ |
| Pitch Angle (Pα) of Driver | Subtract Pitch Angle (Pα) of Driven from 90° | $P\alpha\ \Gamma\ \mathit{Driver} = 90° - \alpha\ \mathit{Driven}$ |
| Pitch Cone Radius (Pr) | Divide Pitch Diameter (PD) by Twice the Sine of Pitch Angle (Pα) | $Pr = \frac{PD}{2\sin(P\alpha)}$ |
| Tangent of Addendum Angle (α) | Divide Addendum (a) by Pitch Cone Radius (Cr) | $\tan(\alpha) = \frac{a}{Cr}$ |
| Face Angle (Fα) | Add Addendum Angle (α) to Pitch Angle (Pα) | $F\alpha = \alpha + P\alpha$ |
| Tangent of Dedendum Angle (dα) | Divide Dedendum (d) by Pitch Cone Radius (Cr) | $\tan(d\alpha) = \frac{d}{Cr}$ |
| Root Angle (Rα) | Subtract Dedendum Angle (dα) from Pitch Angle (Pα) | $R\alpha = P\alpha - d\alpha$ |
| Angular Addendum (aΦ) | Multiply Addendum (a) by cosine of Pitch Angle (Pα) | $a\Phi = a \times \cos(P\alpha)$ |
| Outside Diameter (OD) | Add 2 Angular Addendum (aΦ) to Pitch Diameter (PD) | $OD = 2\ a\Phi \times PD$ |
| Mounting Distance (MD) | Add one-half the Pitch Diameter of Mating (PDg) plus Backing to Pitch Line (BL) | $MD = \frac{PDg}{2} + BL$ |
| Distance From Cone Center to Crown (Cc) | Multiply one-half Outside Diameter (OD) by cotangent of Face Angle (Fα) | $Cc = \frac{OD}{2} \times \cot(F\alpha)$ |
| Backing to Crown (Bc) | Subtract Cone Center to Crown (Cc) from Mounting Distance (MD) | $Bc = MD - Cc$ |
| Ratio | Divide Number of Teeth (N) in Driven by Number of Teeth (N) in Driver | $\text{Ratio} = \frac{N\ \mathit{Driven}}{N\ \mathit{Driver}}$ |

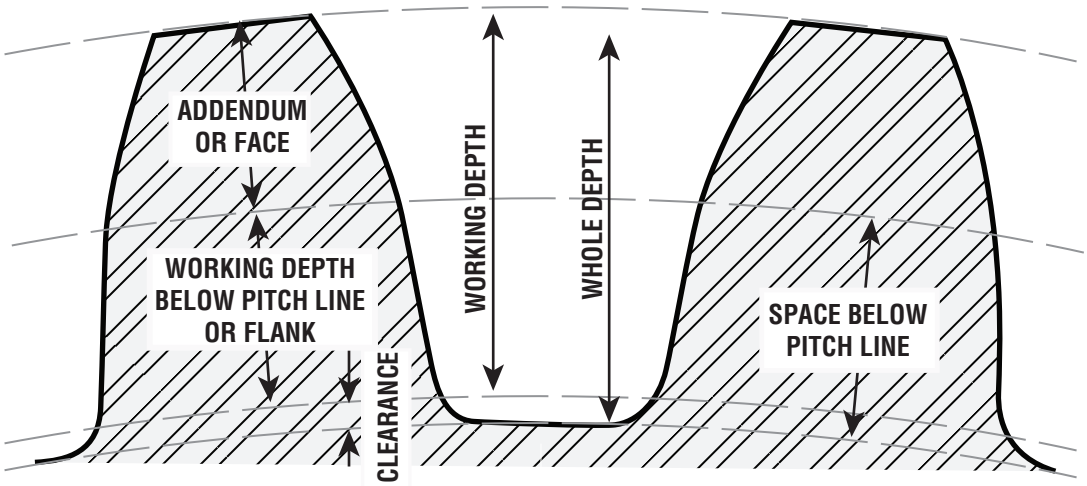
# Formula For Worm Gears

## (Based on Diametral Pitch)

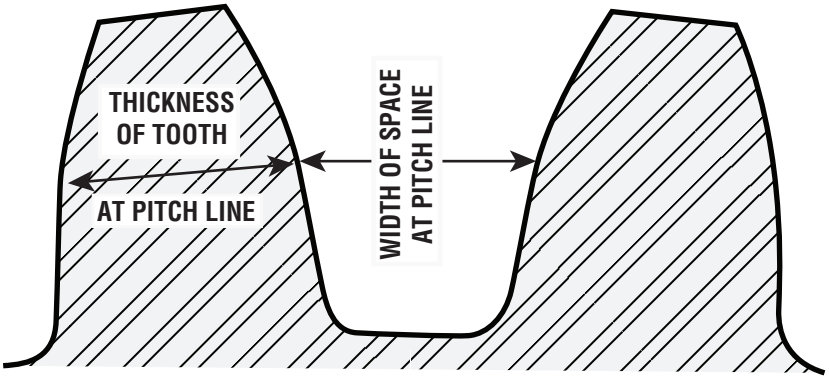
| To Find | Rule | Formula |
|---|---|---|
| Worm Gear Pitch Diameter (PDg) | Divide Number of Teeth(N) by Diametral Pitch (DP) | $PDg = \frac{N}{DP}$ |
| Worm Gear Throat Diameter (TDg) | Add 2 Addendum (a) to Pitch Diameter (PD) | TDg = 2 a + PD |
| Worm Gear Outside Diameter (ODg) | Add 3 Addendum (a) to Pitch Diameter (PD) | ODg = 3 a + PD |
| Worm Pitch Diameter (PDw) | Subtract the Worm Gear Pitch Diameter (PDg) from twice the Center Distance (CD) | PDw = 2 CD - PDg |
| Worm Outside Diameter (ODw) | Add 2 Addendum (a) to Worm Pitch Diameter (PDw) | ODw = PDw + 2 a |
| Worm Lead (Lw) | Divide 3.1416 by Diametral Pitch (DP) and multiply by Number of Threads (NT) in Worm | $Lw = \frac{3.1416}{DP} \times NT$ |
| Cotangent of Worm Helix Angle (Hα) | Multiply Worm Pitch Diameter (PDw) by Diametral Pitch (DP) and divide by Number of Worm Threads (T) | $\cot(H\alpha) = \frac{PDw \times DP}{T}$ |
| Center Distance (CD) | Add Worm Pitch Diameter to Worm Gear Pitch Diameter and divide sum by 2 | $CD = \frac{PDw + PDg}{2}$ |
| Ratio | Divide Number of Teeth in Worm Gear (N) by Number of Worm Threads (T) | $Ratio = \frac{N}{T}$ |

NOTE: Tooth data (Addendum, Full Depth, Etc.) is same as for spur gears.

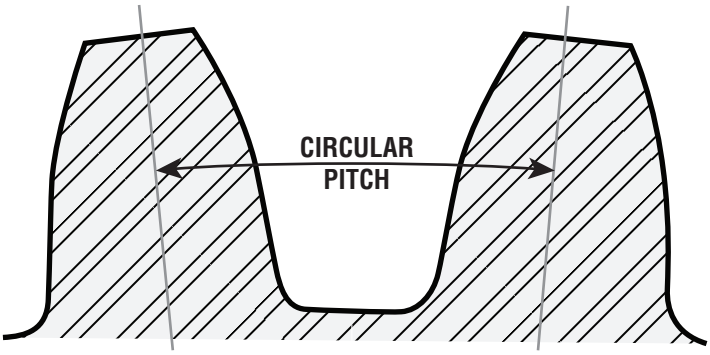
## Comparative Sizes of Involute Gear Teeth




1 Diametral Pitch
3.1416" Circular Pitch



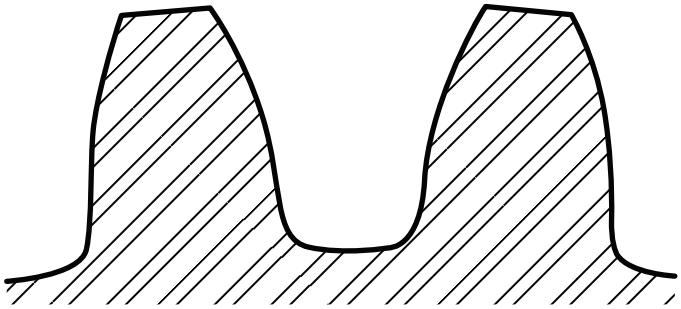

1 1/4 Diametral Pitch
2.5133" Circular Pitch



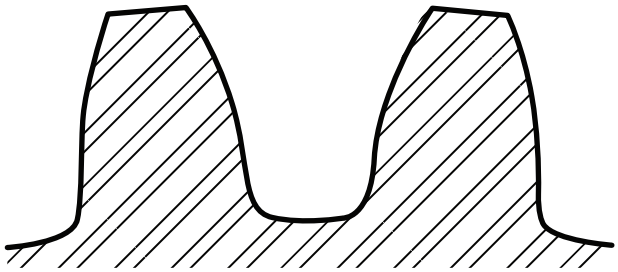

1 1/2 Diametral Pitch
2.0944" Circular Pitch

# Formula For Worm Gears

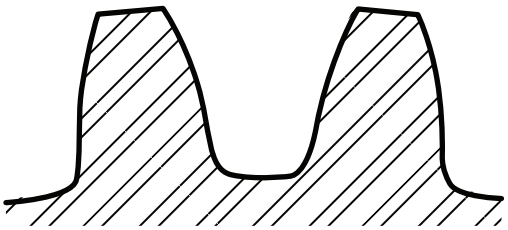
## Comparative Sizes of Involute Gear Teeth



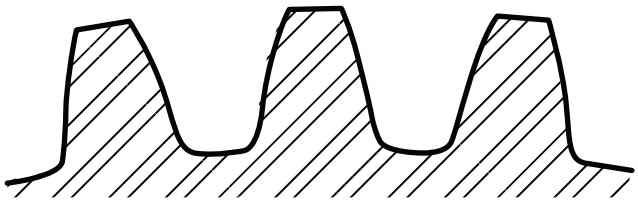
1 3/4 Diametral Pitch
1.7952" Circular Pitch



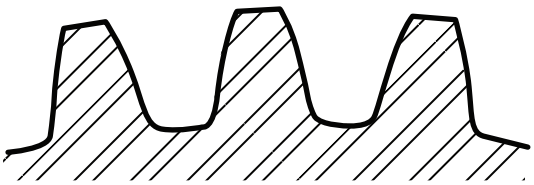
2 Diametral Pitch
1.5708" Circular Pitch



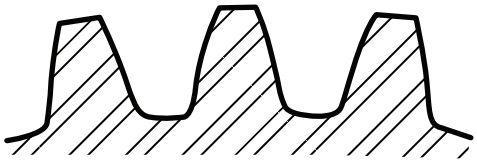
2 1/2 Diametral Pitch
1.2566" Circular Pitch



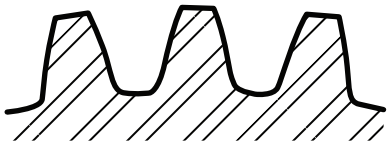
3 Diametral Pitch
1.0472" Circular Pitch



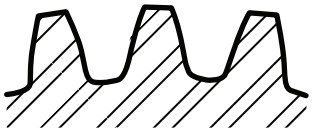
3 1/2 Diametral Pitch
.8976" Circular Pitch



4 Diametral Pitch
.7854" Circular Pitch



5 Diametral Pitch
.6283" Circular Pitch



6 Diametral Pitch
.5236" Circular Pitch

# Cut Spur Gears
# 14½° P.A.

## Comparative Sizes of Involute Gear Teeth

7 Diametral Pitch
.4488" Circular Pitch

8 Diametral Pitch
.3927" Circular Pitch

10 Diametral Pitch
.3142" Circular Pitch

12 Diametral Pitch
.2618" Circular Pitch

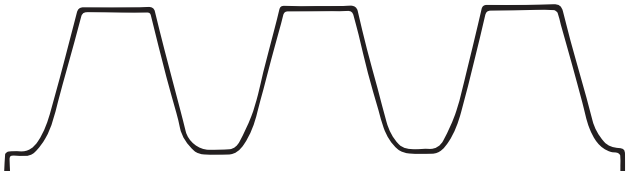
14 Diametral Pitch
.2244" Circular Pitch

16 Diametral Pitch
.1963" Circular Pitch

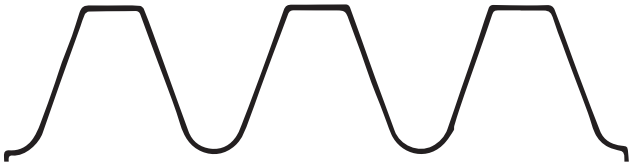
18 Diametral Pitch
.1745" Circular Pitch

20 Diametral Pitch
.1571" Circular Pitch

## Gear Rack Comparison — 14½° and 20°

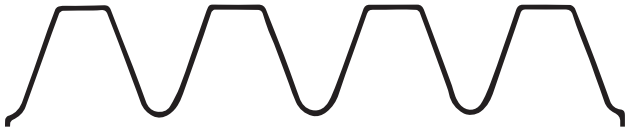


3 DP — 14½°



3 DP — 20°

4 DP — 14½°



4 DP — 20°

5 DP — 14½°

5 DP — 20°

6 DP — 14½°

6 DP — 20°

# Formula For Worm Gears

## Stock Steel Gears

Martin steel gears are manufactured from high quality carbon steel material. This material is used for strength and good hardening characteristics. These gears may be hardened by any method acceptable to good practice such as flame or induction hardening. Flame hardening is preferred so that only the teeth are hardened. Distortion is virtually eliminated and the bore is left soft for subsequent work.

## Cast Gears

Martin cast iron gears are manufactured from high quality close grained controlled specification irons.

## Reboring of Stock Gears

Most of Martin's Stock Gears may be rebored. The maximum recommended bore size is given for each gear. In reboring gears, care must be taken to hold the bore concentric with the pitch diameter. In most cases this would require a great amount of time. To cut costly set-up time when reboring, Martin holds the outside diameter of its gears concentric with the bore which in turn is concentric with the pitch diameter. The outside diameter is held to a closer total indicator reading than the pitch diameter. In the finer pitches, care should be taken not to distort the outside diameter when chucking.

Martin's steel gears are machined all over.

Rebore or rework may be accomplished by chucking on the hub. Concentricity must be controlled in order for gears to run at maximum efficiency.

# SYNCHRONOUS DRIVES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| L | K-6 – K-10 |
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| 8MM PITCH 21MM WIDE BELT | K-53 |
| 8MM PITCH 36MM WIDE BELT | K-54 |
| 8MM PITCH 62MM WIDE BELT | K-55 |
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| 14MM PITCH 37MM WIDE BELT | K-58 |
| 14MM PITCH 68MM WIDE BELT | K-59 |
| 14MM PITCH 90MM WIDE BELT | K-60 |
| 14MM PITCH 125MM WIDE BELT | K-61 |
| 14MM PITCH 20MM WIDE AIR COOL HEAT EXCHANGE BELT | K-62 |
| 14MM PITCH 37MM WIDE AIR COOL HEAT EXCHANGE BELT | K-63 |
| **MPC® SPROCKETS SPECIFICATIONS** | **K-6** |

# STOCK TIMING PULLEYS
## 1/5" - 7/8" PITCH
## QD, TAPER BUSHED AND STOCK BORE

Stock Bore

Taper Bushed

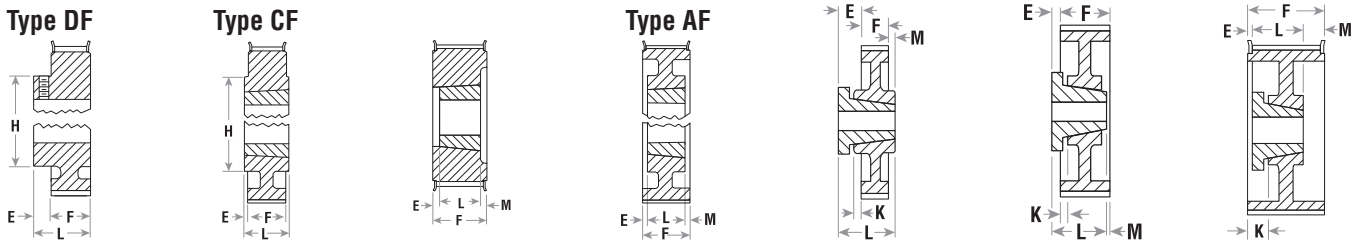
QD

| Pitch (Inches) | Pulley Designation |
|---|---|
| 1/5" | XL (Extra Light) |
| 3/8" | L (Light) |
| 1/2" | H (Heavy) |
| 7/8" | XH (Extra Heavy) |

Martin timing pulleys are manufactured to extremely close specifications and are stocked in minimum plain bore, taper bushed and QD bushed styles depending on size and pitch.

See tables for stock pulley types. Bushings are priced separately and must be added to pulley price.

Illustrations below indicate stock pulley construction type listed in tables.




"F" designation in pulley type means pulley is flanged. When drive center distance is eight times the diameter of the smaller pulley or when drive is operating on vertical shafts, both pulleys should be flanged.

### DEFINITION OF CATALOG NUMBERS

EX: TB 20L100
- TB — Requires taper bushing
- 20 — Number of teeth
- L — 3/8" pitch (light)
- 100 — Belt width 1"

EX: 72L100SD
- 72 — Number of Teeth
- L — 3/8" pitch (light)
- 100 — Belt width 1"
- SD — requires QD bushing

EX: 16L100
Min. plain bore

### Pulley Style Designation As Shown in Tables

Dash 1 = Block body style
Dash 2 = web style
Dash 3 = arm/spoke style

Size XXH (1-1/4" Pitch).
Available as made-to-order.
Call your nearest Martin facility.

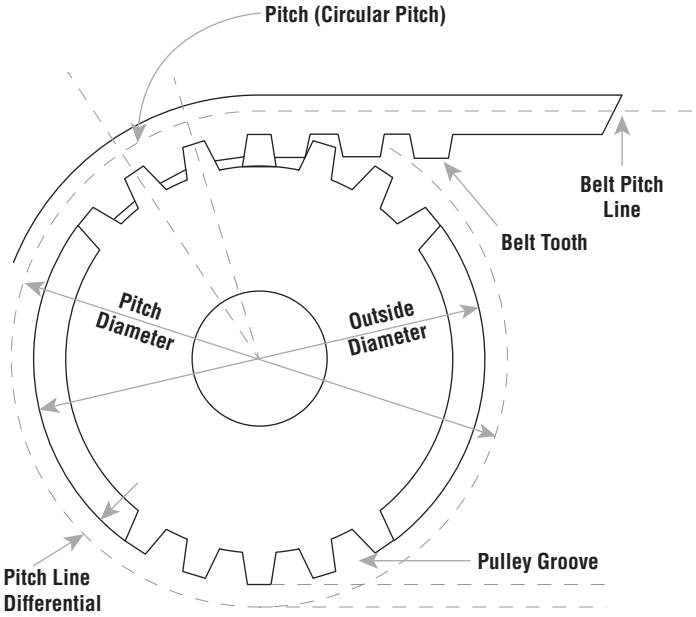
Pulley sizes shown stocked as stock bore only: max. bore listed is without keyway. If keyway is used reduce max. bore by twice keyway depth.

Let us quote your made-to-order and large quantity requirements.

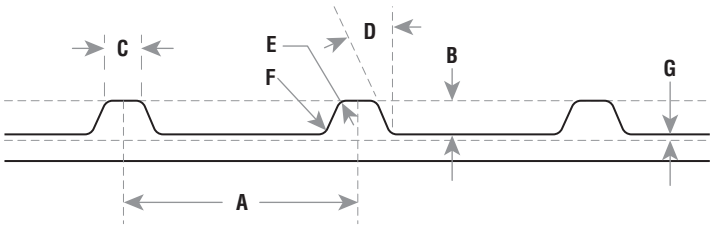
# Timing Pulley Terminology

Timing belts and pulleys — in order to handle a wide range of loads, speeds and applications at highest possible efficiencies — are made in five stock pitches. Circular pitch (usually referred to as pitch) is a basic consideration in the selection of timing pulleys as with gear and chain drives. Pitch is the distance between groove centers and is measured on the pulley pitch circle. On the belt, pitch is the distance between tooth centers and is measured on the pitch line of the belt.

The pitch line of the belt is located within the tension member and coincides with the pitch circle of the pulley mating with it. Any timing belt must be run with pulleys of the same pitch. A belt of one pitch cannot be used successfully with pulleys of a different pitch.



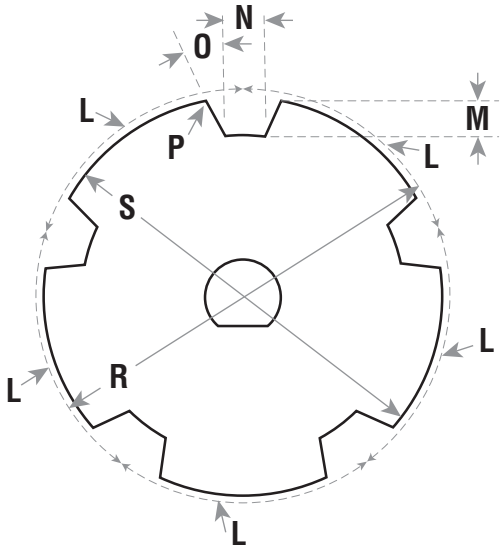

## TIMING BELT TERMINOLOGY




- **A** Pitch of teeth
- **B** Depth of teeth
- **C** Width at bottom of teeth
- **D** Pressure angle
- **E** Radius at bottom of teeth
- **F** Radius at top of teeth
- **G** Pitch line differential

Belt P.L. = “A” X total no. of teeth in belt

## TIMING PULLEY TERMINOLOGY




- **L** Circular pitch of groove
- **M** Minimum depth of groove, including clearance
- **N** Width of groove at minimum depth, including clearance
- **O** Pressure angle
- **P** Top radius of groove
- **R** Pitch diameter (always > S)
- **S** Outside diameter

# Timing Pulley Terminology

## Timing Pulleys

Timing pulleys have evenly spaced axial grooves cut in their periphery to make correct, positive engagement with the mating teeth of the belt. These pulleys are designed so that the teeth of the belt enter and leave the grooves with negligible friction. All pulleys, stock and made-to-order, have minimum tooth-to-groove clearance (backlash). The pulley's pitch diameter will always be greater than its outside diameter. Pulleys are available in a wide range of stock widths and diameters.

## Minimum Pulley Diameters

| Pitch | Speed RPM | Recommended minimum* Pitch (diam. in) | No. of grooves |
|---|---|---|---|
| 1/5 in (XL) | 3500 | .764 | 12 XL |
| | 1750 | .637 | 10 XL |
| | 1160 | .637 | 10 XL |
| 3/8 in (L) | 3500 | 1.910 | 16 L |
| | 1750 | 1.671 | 14 L |
| | 1160 | 1.432 | 12 L |
| 1/2 in (H) | 3500 | 3.183 | 20 H |
| | 1750 | 2.865 | 18 H |
| | 1160 | 2.546 | 16 H |
| 7/8 in (XH) | 1750 | 7.242 | 26 XH |
| | 1160 | 6.685 | 24 XH |
| | 870 | 6.127 | 22 XH |
| 1-1/4 in (XXH) | 1750 | 10.345 | 26 XXH |
| | 1160 | 9.549 | 24 XXH |
| | 870 | 8.754 | 22 XXH |

*Smaller diameter pulleys can be used if a corresponding reduction in belt service life is satisfactory.

## Flanged Pulleys

Because timing belts have an inherent, gentle side thrust, it is necessary to use at least one flanged pulley to prevent the belt from riding off. Generally, for economy, the smaller pulley in each drive is flanged. However, when the center distance is greater than eight times the diameter of the smaller pulley on drive ratios less than 3 to 1, or when the drive is operated on other than horizontal shafts — both pulleys should be flanged. When a drive has three pulleys, at least two should be flanged. If the drive has more than three pulleys, every other pulley should be flanged.

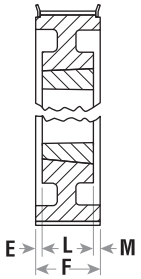
## Pulley Diameters

Stock timing belts should not be used over pulley diameters less than those recommended above without expecting some reduction in belt life. This reduced belt life is the result of flex fatigue of the steel tension members in the belt. If pulleys smaller than recommended must be used, the use of special timing belts should be considered.

# Stock Timing Pulleys

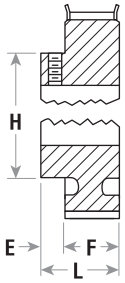
# XL
## 1/5" Pitch

Type AF



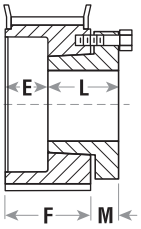

Type A

Type DF



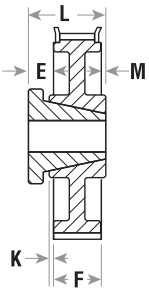

Type D

Type EF




Type E

Type GF




Type G

**Dash 1 = Solid Style** **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

**"F" type description indicates flanged.**

## XL - 1/5" Pitch

### XL 037 For Belts 1/4" and 3/8" Wide

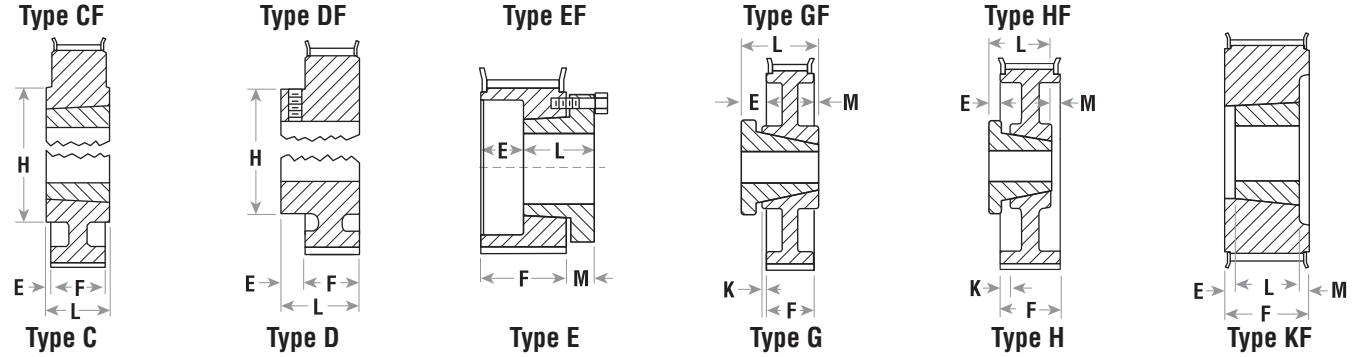
**Minimum Plain Bore** **F = 9/16**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bore | | E | H | L | Wt. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Stock | Max. | | | | |
| 10 | 10XL037 | 0.637 | 0.929 | DF-1 | 0.1875 | 0.25 | 0.2188 | 0.4375 | 0.7813 | 0.03 |
| 11 | 11XL037 | 0.700 | 0.929 | DF-1 | 0.1875 | 0.25 | 0.2188 | 0.4375 | 0.7813 | 0.04 |
| 12 | 12XL037 | 0.764 | 0.993 | DF-1 | 0.1875 | 0.3125 | 0.2188 | 0.5 | 0.7813 | 0.06 |
| 14 | 14XL037 | 0.891 | 1.120 | DF-1 | 0.25 | 0.375 | 0.2188 | 0.5625 | 0.7813 | 0.08 |
| 15 | 15XL037 | 0.955 | 1.184 | DF-1 | 0.25 | 0.4375 | 0.2188 | 0.6250 | 0.7813 | 0.09 |
| 16 | 16XL037 | 1.019 | 1.248 | DF-1 | 0.25 | 0.5 | 0.2188 | 0.6875 | 0.7813 | 0.10 |
| 18 | 18XL037 | 1.146 | 1.375 | DF-1 | 0.25 | 0.5625 | 0.2188 | 0.8125 | 0.7813 | 0.13 |
| 20 | 20XL037 | 1.273 | 1.502 | DF-1 | 0.25 | 0.6875 | 0.3125 | 0.9375 | 0.875 | 0.18 |
| 21 | 21XL037 | 1.337 | 1.566 | DF-1 | 0.25 | 0.6875 | 0.3125 | 0.9375 | 0.875 | 0.19 |
| 22 | 22XL037 | 1.401 | 1.630 | DF-1 | 0.25 | 0.75 | 0.3125 | 1 | 0.875 | 0.22 |
| 24 | 24XL037 | 1.528 | 1.756 | DF-1 | 0.25 | 0.8125 | 0.3125 | 1.0625 | 0.875 | 0.25 |
| 28 | 28XL037 | 1.783 | 2.011 | DF-1 | 0.25 | 0.9375 | 0.3125 | 1.1875 | 0.875 | 0.34 |
| 30 | 30XL037 | 1.910 | 2.138 | DF-1 | 0.3125 | 1.0625 | 0.3125 | 1.375 | 0.875 | 0.41 |
| 32 | 32XL037 | 2.037 | — | D-1 | 0.3125 | 1.1875 | 0.4375 | 1.5 | 1 | 0.25 |
| 36 | 36XL037 | 2.292 | — | D-1 | 0.3125 | 1.1875 | 0.4375 | 1.5 | 1 | 0.29 |
| 40 | 40XL037 | 2.546 | — | D-1 | 0.3125 | 1.1875 | 0.4375 | 1.5 | 1 | 0.35 |
| 42 | 42XL037 | 2.674 | — | D-1 | 0.3125 | 1.1875 | 0.4375 | 1.5 | 1 | 0.31 |
| 44 | 44XL037 | 2.801 | — | D-1 | 0.3125 | 1.1875 | 0.4375 | 1.5 | 1 | 0.34 |
| 48 | 48XL037 | 3.056 | — | D-1 | 0.3125 | 1.1875 | 0.4375 | 1.5 | 1 | 0.63 |
| 60 | 60XL037 | 3.820 | — | D-1 | 0.375 | 1.1875 | 0.4375 | 1.5 | 1 | 0.90 |
| 72 | 72XL037 | 4.584 | — | D-1 | 0.375 | 1.1875 | 0.4375 | 1.5 | 1 | 0.50 |

Note: XL Pulleys stocked min. plain bore with 2 setscrews @ 90˚. If keyway is used, reduce max. bore by twice keyway depth.
Pulley O.D. = P.D. – .02".

# L
## 3/8" Pitch

# Stock Timing Pulleys




## L - 3/8" Pitch

**L050 For Belts 1/2" Wide** **Minimum Plain Bore** **F = 3/4**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bore | | Dimensions | | | Wt. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Stock | Max. | E | H | L | |
| 10 | 10L050 | 1.194 | 1.4375 | DF-1 | 0.375 | 0.5625 | 0.375 | 0.8125 | 1.125 | 0.28 |
| 12 | 12L050 | 1.432 | 1.6719 | DF-1 | 0.375 | 0.8125 | 0.5 | 1.0625 | 1.25 | 0.30 |
| 13 | 13L050 | 1.552 | 1.75 | DF-1 | 0.375 | 0.8125 | 0.5 | 1.125 | 1.25 | 0.35 |
| 14 | 14L050 | 1.671 | 1.9219 | DF-1 | 0.375 | 0.875 | 0.5 | 1.125 | 1.25 | 0.40 |
| 15 | 15L050 | 1.790 | 2 | DF-1 | 0.5 | 0.9375 | 0.5 | 1.125 | 1.25 | 0.50 |
| 16 | 16L050 | 1.910 | 2.1563 | DF-1 | 0.5 | 1.125 | 0.625 | 1.4375 | 1.375 | 0.60 |
| 17 | 17L050 | 2.029 | 2.2813 | DF-1 | 0.5 | 1.125 | 0.625 | 1.5 | 1.375 | 0.65 |
| 18 | 18L050 | 2.149 | 2.3906 | DF-1 | 0.5 | 1.1875 | 0.625 | 1.625 | 1.375 | 0.75 |
| 19 | 19L050 | 2.268 | 2.375 | DF-1 | 0.5 | 1.1875 | 0.625 | 1.625 | 1.375 | 0.80 |
| 20 | 20L050 | 2.387 | 2.625 | DF-1 | 0.5 | 1.25 | 0.625 | 1.6875 | 1.375 | 0.94 |
| 21 | 21L050 | 2.507 | 2.75 | DF-1 | 0.5 | 1.3125 | 0.6875 | 1.875 | 1.4375 | 1.00 |
| 22 | 22L050 | 2.626 | 2.875 | DF-1 | 0.5 | 1.5 | 0.75 | 2 | 1.5 | 1.10 |
| 24 | 24L050 | 2.865 | 3.1094 | DF-1 | 0.5 | 1.625 | 0.75 | 2.25 | 1.5 | 1.60 |
| 26 | 26L050 | 3.104 | 3.3438 | DF-1 | 0.5 | 1.625 | 0.75 | 2.50 | 1.5 | 2.30 |
| 28 | 28L050 | 3.342 | 3.5781 | DF-1 | 0.5 | 1.625 | 0.75 | 2.75 | 1.5 | 2.50 |
| 30 | 30L050 | 3.581 | 3.8281 | DF-1 | 0.5 | 1.625 | 0.75 | 2.375 | 1.5 | 2.70 |
| 32 | 32L050 | 3.820 | 4.0625 | DF-1 | 0.5 | 1.875 | 0.875 | 3.0625 | 1.625 | 3.00 |

L Pulleys 10 - 16 teeth min. plain bore stocked with 1 set screw. If keyway is used, reduced max. bore by twice keyway depth.

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"

## L - 3/8" Pitch

**L050 For Belts 1/2" Wide (3/8" Pitch)** **QD Type** **F = 3/4**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | | Dimensions | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Min. | Max. | E | K | L | M | |
| 18 | 18L050JA | 2.149 | 2.3906 | EF-1* | JA | 0.5 | 1.25 | 0.1875 | — | 1.0625 | 0.5 | 0.40 |
| 20 | 20L050JA | 2.387 | 2.625 | EF-1* | JA | 0.5 | 1.25 | 0.1875 | — | 1.0625 | 0.5 | 0.50 |
| 22 | 22L050JA | 2.626 | 2.875 | EF-1* | JA | 0.5 | 1.25 | 0.1875 | — | 1.0625 | 0.5 | 0.70 |
| 24 | 24L050SH | 2.865 | 3.1094 | GF-1+ | SH | 0.5 | 1.6875 | 0.5625 | — | 1.3125 | — | 0.70 |
| 26 | 26L050SH | 3.104 | 3.3438 | GF-1+ | SH | 0.5 | 1.6875 | 0.5625 | — | 1.3125 | — | 1.00 |
| 28 | 28L050SH | 3.342 | 3.5781 | GF-1+ | SH | 0.5 | 1.6875 | 0.5625 | — | 1.3125 | — | 1.10 |
| 30 | 30L050SDS | 3.581 | 3.8281 | GF-1 | SDS | 0.5 | 2 | 0.625 | — | 1.375 | — | 1.10 |
| 32 | 32L050SDS | 3.820 | 4.0625 | GF-1 | SDS | 0.5 | 2 | 0.625 | — | 1.375 | — | 1.40 |
| 36 | 36L050SDS | 4.297 | 4.5313 | GF-1 | SDS | 0.5 | 2 | 0.625 | — | 1.375 | — | 2.00 |
| 40 | 40L050SDS | 4.775 | 5.0156 | GF-1 | SDS | 0.5 | 2 | 0.625 | — | 1.375 | — | 2.80 |
| 44 | 44L050SDS | 5.252 | 5.4844 | GF-1 | SDS | 0.5 | 2 | 0.625 | — | 1.375 | — | 3.60 |
| 48 | 48L050SDS | 5.730 | 6.0156 | GF-1 | SDS | 0.5 | 2 | 0.625 | — | 1.375 | — | 4.40 |
| 60 | 60L050SD | 7.162 | — | G-3 | SD | 0.5 | 2 | 0.875 | 0.25 | 1.8125 | 0.25 | 4.20 |
| 72 | 72L050SD | 8.594 | — | G-3 | SD | 0.5 | 2 | 0.875 | 0.25 | 1.8125 | 0.25 | 6.60 |
| 84 | 84L050SD | 10.027 | — | G-3 | SD | 0.5 | 2 | 0.875 | 0.25 | 1.8125 | 0.25 | 5.80 |

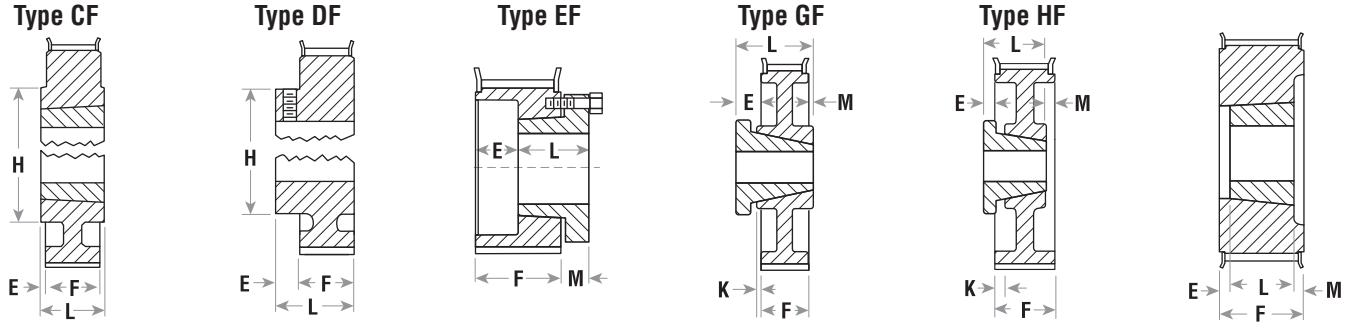
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"
*Reverse mount drilled only
+Bushing Projects 1/16 on Small End.

**L050 Taper Bushed on Page K7**

# Stock Timing Pulleys

# L

## 3/8" Pitch




Dash 1 = Solid Style

Dash 2 = Web Style

Dash 3 = Arm/Spoke Style

## L - 3/8" Pitch

**L050 For Belts 1/2" Wide (3/8" Pitch)** **Taper Bushed Type** **F = 3/4**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | | Dimensions | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Min. | Max. | E | K | L | M | |
| 18 | TB18L050 | 2.149 | 2.3906 | CF-1 | 1008 | 0.5 | 1 | 0.125 | 1.875 | 0.875 | — | 0.45 |
| 20 | TB20L050 | 2.387 | 2.625 | CF-1 | 1008 | 0.5 | 1 | 0.125 | 1.6875 | 0.875 | — | 0.68 |
| 22 | TB22L050 | 2.626 | 2.875 | CF-1 | 1008 | 0.5 | 1 | 0.125 | 2 | 0.875 | — | 0.90 |
| 24 | TB24L050 | 2.865 | 3.1094 | CF-1 | 1210 | 0.5 | 1.25 | 0.25 | 2.25 | 1 | — | 1.00 |
| 26 | TB26L050 | 3.104 | 3.3438 | CF-1 | 1210 | 0.5 | 1.25 | 0.25 | 2.5 | 1 | — | 1.20 |
| 28 | TB28L050 | 3.342 | 3.5781 | CF-1 | 1610 | 0.5 | 1.25 | 0.25 | 2.75 | 1 | — | 1.40 |
| 30 | TB30L050 | 3.581 | 3.8281 | CF-1 | 1610 | 0.5 | 1.625 | 0.25 | 2.875 | 1 | — | 1.50 |
| 32 | TB32L050 | 3.820 | 4.0625 | CF-1 | 1610 | 0.5 | 1.625 | 0.25 | 3.0625 | 1 | — | 1.90 |
| 40 | TB40L050 | 4.775 | 5.0156 | CF-1 | 2012 | 0.5 | 2 | 0.50 | 3.6875 | 1.25 | — | 2.40 |
| 48 | TB48L050 | 5.730 | 6.0156 | CF-1 | 2012 | 0.5 | 2 | 0.50 | 3.6875 | 1.25 | — | 3.20 |
| 60 | TB60L050 | 7.162 | — | C-2 | 2012 | 0.5 | 2 | 0.25 | 4.375 | 1.25 | 0.25 | 4.90 |

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"

## L - 3/8" Pitch

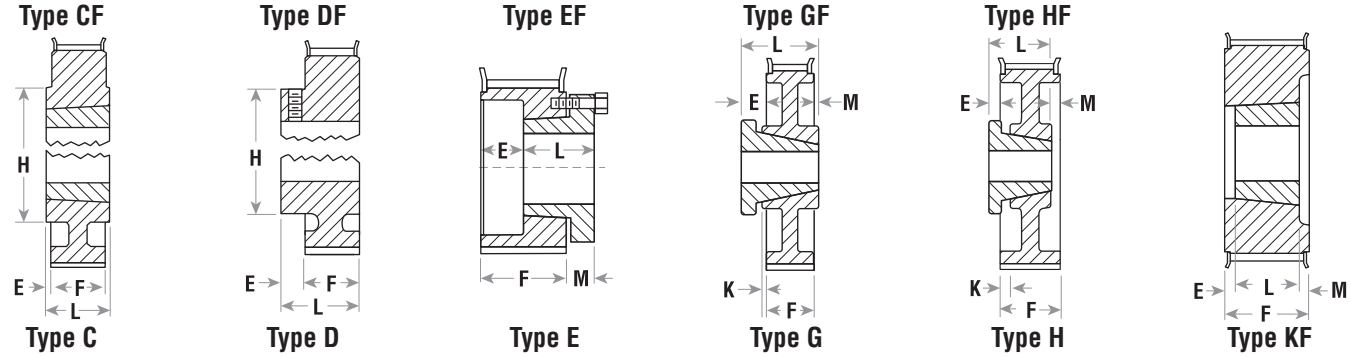
**L075 For Belts 3/4" Wide (3/8" Pitch)** **Minimum Plain Bore** **F = 1**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bore | | Dimensions | | | Wt. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Stock | Max. | E | H | L | |
| 12 | 12L075 | 1.432 | 1.6719 | DF-1 | 0.375 | 0.8125 | 0.5 | 1.0625 | 1.5 | 0.40 |
| 14 | 14L075 | 1.671 | 1.9219 | DF-1 | 0.375 | 0.875 | 0.5 | 1.125 | 1.5 | 0.50 |
| 16 | 16L075 | 1.910 | 2.1563 | DF-1 | 0.5 | 1.125 | 0.625 | 1.4375 | 1.625 | 0.70 |
| 18 | 18L075 | 2.149 | 2.3906 | DF-1 | 0.5 | 1.1875 | 0.625 | 1.625 | 1.625 | 0.90 |
| 20 | 20L075 | 2.387 | 2.625 | DF-1 | 0.5 | 1.25 | 0.625 | 1.6875 | 1.625 | 1.50 |
| 22 | 22L075 | 2.626 | 2.875 | DF-1 | 0.625 | 1.5 | 0.75 | 2 | 1.75 | 1.80 |
| 24 | 24L075 | 2.865 | 3.1094 | DF-1 | 0.625 | 1.625 | 0.75 | 2.25 | 1.75 | 2.10 |
| 26 | 26L075 | 3.104 | 3.3438 | DF-1 | 0.625 | 1.625 | 0.875 | 2.5 | 1.875 | 2.80 |
| 28 | 28L075 | 3.342 | 3.5781 | DF-1 | 0.625 | 1.875 | 1 | 2.75 | 2 | 3.10 |
| 30 | 30L075 | 3.581 | 3.8281 | DF-1 | 0.625 | 1.875 | 1 | 2.875 | 2 | 3.40 |
| 32 | 32L075 | 3.820 | 4.0625 | DF-1 | 0.625 | 1.875 | 1 | 3.0625 | 2 | 3.70 |

Dimensions in inches. Weight in pounds.
Pulley O.D. = P.D. – .03"
L Pulleys 12 - 16 teeth min. plain bore stocked with 1-SS. If keyway is used, reduce max. bore by twice keyway depth.

# L
## 3/8" Pitch

# Stock Timing Pulleys




**Dash 1 = Solid Style** **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

## L - 3/8" Pitch

**L075 For Belts 3/4" Wide (3/8" Pitch)** **QD Type** **F = 1**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | | Dimensions | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Min. | Max. | E | K | L | M | |
| 18 | 18L075JA | 2.149 | 2.3906 | EF-1* | JA | 0.5 | 1.25 | 0.4375 | — | 1.0625 | 0.5 | 0.50 |
| 20 | 20L075JA | 2.387 | 2.625 | EF-1* | JA | 0.5 | 1.25 | 0.4375 | — | 1.0625 | 0.5 | 0.70 |
| 22 | 22L075JA | 2.626 | 2.875 | EF-1* | JA | 0.5 | 1.25 | 0.4375 | — | 1.0625 | 0.5 | 0.80 |
| 24 | 24L075SH | 2.865 | 3.1094 | EF-1* | SH | 0.5 | 1.6875 | 0.1875 | — | 1.3125 | 0.5625 | 0.80 |
| 26 | 26L075SH | 3.104 | 3.3438 | EF-1* | SH | 0.5 | 1.6875 | 0.1875 | — | 1.3125 | 0.5625 | 1.10 |
| 28 | 28L075SH | 3.342 | 3.5781 | EF-1* | SH | 0.5 | 1.6875 | 0.1875 | — | 1.3125 | 0.5625 | 1.30 |
| 30 | 30L075SDS | 3.581 | 3.8281 | EF-1* | SDS | 0.5 | 2 | 0.25 | — | 1.375 | 0.625 | 1.50 |
| 32 | 32L075SDS | 3.82 | 4.0625 | EF-1* | SDS | 0.5 | 2 | 0.25 | — | 1.375 | 0.625 | 1.70 |
| 36 | 36L075SDS | 4.297 | 4.5313 | HF-1 | SDS | 0.5 | 2 | 0.375 | 0.25 | 1.375 | 0 | 2.30 |
| 40 | 40L075SDS | 4.775 | 5.0156 | HF-1 | SDS | 0.5 | 2 | 0.375 | 0.25 | 1.375 | 0 | 3.10 |
| 44 | 44L075SDS | 5.252 | 5.4844 | HF-1 | SDS | 0.5 | 2 | 0.375 | 0.25 | 1.375 | 0 | 4.00 |
| 48 | 48L075SDS | 5.730 | 6.0156 | HF-1 | SDS | 0.5 | 2 | 0.375 | 0.25 | 1.375 | 0 | 4.60 |
| 60 | 60L075SD | 7.162 | — | G-3 | SD | 0.5 | 2 | 0.6875 | 0.125 | 1.8125 | 0.125 | 4.70 |
| 72 | 72L075SD | 8.594 | — | G-3 | SD | 0.5 | 2 | 0.6875 | 0.125 | 1.8125 | 0.125 | 6.50 |
| 84 | 84L075SD | 10.027 | — | G-3 | SD | 0.5 | 2 | 0.6875 | 0.125 | 1.8125 | 0.125 | 6.30 |

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"
*Reverse mount only

## L - 3/8" Pitch

**L075 For Belts 3/4" Wide (3/8" Pitch)** **Taper Bushed Type** **F = 1**

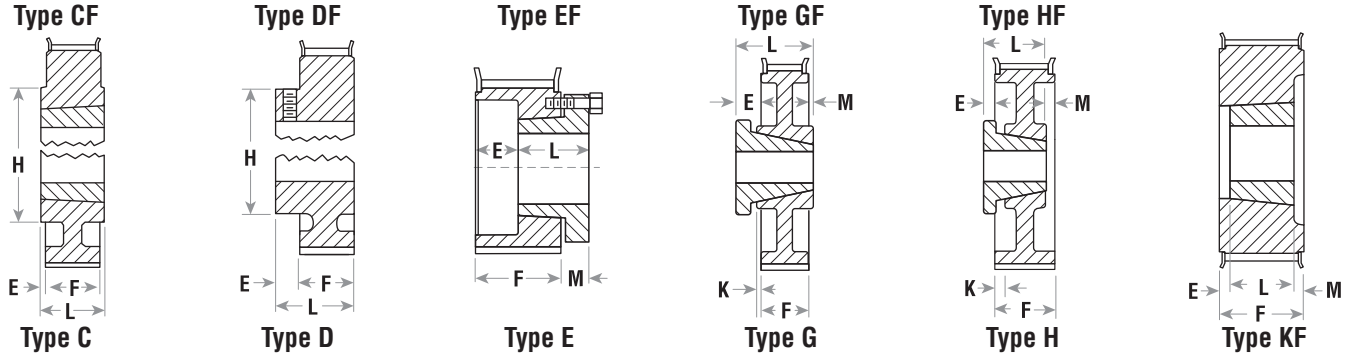
| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | | Dimensions | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Min. | Max. | E | H | L | M | |
| 18 | TB18L075 | 2.149 | 2.3906 | KF-1 | 1008 | 0.5 | 1 | 0.125 | — | 0.875 | — | 0.50 |
| 20 | TB20L075 | 2.387 | 2.625 | KF-1 | 1008 | 0.5 | 1 | 0.125 | — | 0.875 | — | 0.70 |
| 22 | TB22L075 | 2.626 | 2.875 | KF-1 | 1008 | 0.5 | 1 | 0.125 | — | 0.875 | — | 1.10 |
| 24 | TB24L075 | 2.865 | 3.1094 | KF-1 | 1210 | 0.5 | 1.25 | — | — | 1 | — | 0.90 |
| 26 | TB26L075 | 3.104 | 3.3438 | KF-1 | 1210 | 0.5 | 1.25 | — | — | 1 | — | 1.30 |
| 28 | TB28L075 | 3.342 | 3.5781 | KF-1 | 1610 | 0.5 | 1.625 | — | — | 1 | — | 1.30 |
| 30 | TB30L075 | 3.581 | 3.8281 | KF-1 | 1610 | 0.5 | 1.625 | — | — | 1 | — | 1.60 |
| 32 | TB32L075 | 3.820 | 4.0625 | KF-1 | 1610 | 0.5 | 1.625 | — | — | 1 | — | 1.80 |
| 40 | TB40L075 | 4.775 | 5.0156 | CF-1 | 2012 | 0.5 | 2 | 0.25 | 3.9375 | 1.25 | — | 3.60 |
| 48 | TB48L075 | 5.730 | 6.0156 | CF-1 | 2012 | 0.5 | 2 | 0.25 | 3.9375 | 1.25 | — | 5.40 |
| 60 | TB60L075 | 7.162 | — | C-2 | 2012 | 0.5 | 2 | 0.125 | 4.375 | 1.25 | 0.125 | 7.90 |

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"

# Stock Timing Pulleys

# L

## 3/8" Pitch




**Dash 1 = Solid Style** **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

## L - 3/8" Pitch

**L100 For Belts 1" Wide (3/8" Pitch)** **Minimum Plain Bore** **F = 1-1/4**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bore Range | | Dimensions | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Min. | Max. | E | H | L | |
| 14 | 14L100 | 1.671 | 1.9219 | DF-1 | 0.375 | 0.875 | 0.500 | 1.1250 | 1.75 | 0.60 |
| 16 | 16L100 | 1.910 | 2.1563 | DF-1 | 0.5 | 1.125 | 0.625 | 1.4375 | 1.875 | 0.80 |
| 17 | 17L100 | 2.029 | 2.2813 | DF-1 | 0.5 | 1.125 | 0.625 | 1.5 | 1.875 | 1.00 |
| 18 | 18L100 | 2.149 | 2.3906 | DF-1 | 0.5 | 1.1875 | 0.625 | 1.625 | 1.875 | 1.10 |
| 19 | 19L100 | 2.268 | 2.375 | DF-1 | 0.5 | 1.1875 | 0.625 | 1.625 | 1.875 | 1.40 |
| 20 | 20L100 | 2.387 | 2.625 | DF-1 | 0.5 | 1.1875 | 0.625 | 1.6875 | 1.875 | 1.75 |
| 21 | 21L100 | 2.507 | 2.75 | DF-1 | 0.625 | 1.3125 | 0.6875 | 1.875 | 1.875 | 1.80 |
| 22 | 22L100 | 2.626 | 2.875 | DF-1 | 0.625 | 1.5 | 0.75 | 2 | 2 | 2.00 |
| 24 | 24L100 | 2.865 | 3.1094 | DF-1 | 0.625 | 1.625 | 0.75 | 2.25 | 2 | 2.50 |
| 26 | 26L100 | 3.104 | 3.3438 | DF-1 | 0.625 | 1.625 | 0.875 | 2.5 | 2.125 | 3.30 |
| 28 | 28L100 | 3.342 | 3.5781 | DF-1 | 0.625 | 1.875 | 1 | 2.75 | 2.25 | 3.60 |
| 30 | 30L100 | 3.581 | 3.8281 | DF-1 | 0.625 | 1.875 | 1 | 2.875 | 2.25 | 4.00 |
| 32 | 32L100 | 3.820 | 4.0625 | DF-1 | 0.625 | 1.875 | 1 | 3.0625 | 2.25 | 4.40 |

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"
L Pulleys 14 - 16 teeth min. plain bore stocked with 1-S.S. If keyway is used, reduce max. bore by twice keyway depth.

## L - 3/8" Pitch

**L100 For Belts 1" Wide (3/8" Pitch)** **QD Type** **F = 1-1/4**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | | Dimensions | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Min. | Max. | E | K | L | M | |
| 18 | 18L100JA | 2.149 | 2.3906 | EF-1* | JA | 0.5 | 1.25 | 0.6875 | — | 1.0625 | 0.5 | 0.70 |
| 20 | 20L100JA | 2.387 | 2.625 | EF-1* | JA | 0.5 | 1.25 | 0.6875 | — | 1.0625 | 0.5 | 0.90 |
| 22 | 22L100JA | 2.626 | 2.875 | EF-1* | JA | 0.5 | 1.25 | 0.6875 | — | 1.0625 | 0.5 | 1.00 |
| 24 | 24L100SH | 2.865 | 3.1094 | EF-1* | SH | 0.5 | 1.6875 | 0.4375 | — | 1.3125 | 0.5625 | 1.00 |
| 26 | 26L100SH | 3.104 | 3.3438 | EF-1* | SH | 0.5 | 1.6875 | 0.4375 | — | 1.3125 | 0.5625 | 1.30 |
| 28 | 28L100SH | 3.342 | 3.5781 | EF-1* | SH | 0.5 | 1.6875 | 0.4375 | — | 1.3125 | 0.5625 | 1.70 |
| 30 | 30L100SDS | 3.581 | 3.8281 | EF-1* | SDS | 0.5 | 2 | 0.5 | — | 1.375 | 0.625 | 2.00 |
| 32 | 32L100SDS | 3.820 | 4.0625 | EF-1* | SDS | 0.5 | 2 | 0.5 | — | 1.375 | 0.625 | 2.10 |
| 36 | 36L100SDS | 4.297 | 4.5313 | HF-1 | SDS | 0.5 | 2 | 0.125 | 0.5 | 1.375 | 0 | 2.60 |
| 40 | 40L100SDS | 4.775 | 5.0156 | HF-1 | SDS | 0.5 | 2 | 0.125 | 0.5 | 1.375 | 0 | 3.40 |
| 44 | 44L100SDS | 5.252 | 5.4844 | HF-1 | SDS | 0.5 | 2 | 0.125 | 0.5 | 1.375 | 0 | 4.20 |
| 48 | 48L100SDS | 5.730 | 6.0156 | HF-1 | SDS | 0.5 | 2 | 0.125 | 0.5 | 1.375 | 0 | 5.10 |
| 60 | 60L100SD | 7.162 | — | G-3 | SD | 0.5 | 2 | 0.625 | 0 | 1.8125 | 0 | 6.00 |
| 72 | 72L100SD | 8.594 | — | G-3 | SD | 0.5 | 2 | 0.625 | 0 | 1.8125 | 0 | 8.00 |
| 84 | 84L100SD | 10.027 | — | G-3 | SD | 0.5 | 2 | 0.625 | 0 | 1.8125 | 0 | 9.20 |

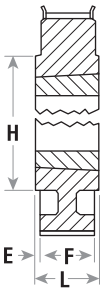
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"
*Reverse mount only

# L
## 3/8" Pitch

# Stock Timing Pulleys

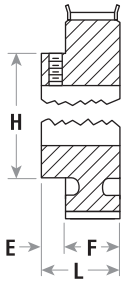
Martin

Type CF



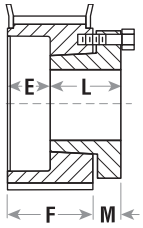

Type C

Type DF



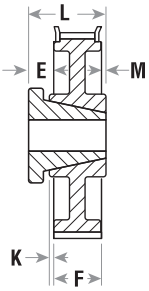

Type D

Type EF



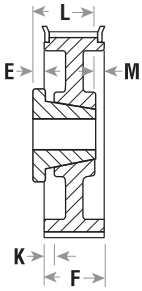

Type E

Type GF

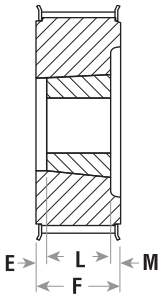



Type G

Type HF




Type H




Type KF

**Dash 1 = Solid Style**

**Dash 2 = Web Style**
**"F" type description indicates flanged.**

**Dash 3 = Arm/Spoke Style**

## L - 3/8" Pitch

**L100 For Belts 1" Wide (3/8" Pitch)** **Taper Bushed Type** **F = 1-1/4**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | | Dimensions | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Min. | Max. | E | K | L | M | |
| 18 | TB18L100 | 2.149 | 2.3906 | KF-1 | 1008 | 0.5 | 1 | 3/8 | — | 0.875 | — | 0.70 |
| 20 | TB20L100 | 2.387 | 2.625 | KF-1 | 1008 | 0.5 | 1 | 3/8 | — | 0.875 | — | 1.00 |
| 22 | TB22L100 | 2.626 | 2.875 | KF-1 | 1008 | 0.5 | 1 | 3/8 | — | 0.875 | — | 1.30 |
| 24 | TB24L100 | 2.865 | 3.1094 | KF-1 | 1210 | 0.5 | 1.25 | 1/4 | — | 1 | — | 1.30 |
| 26 | TB26L100 | 3.104 | 3.3438 | KF-1 | 1210 | 0.5 | 1.25 | 1/4 | — | 1 | — | 1.70 |
| 28 | TB28L100 | 3.342 | 3.5781 | KF-1 | 1610 | 0.5 | 1.625 | 1/4 | — | 1 | — | 1.70 |
| 30 | TB30L100 | 3.581 | 3.8281 | KF-1 | 1610 | 0.5 | 1.625 | 1/4 | — | 1 | — | 2.20 |
| 32 | TB32L100 | 3.820 | 4.0625 | KF-1 | 1610 | 0.5 | 1.625 | 1/4 | — | 1 | — | 2.70 |
| 40 | TB40L100 | 4.775 | 5.0156 | KF-1 | 2012 | 0.5 | 2 | 1/16 | — | 1.25 | — | 3.60 |
| 48 | TB48L100 | 5.730 | 6.0156 | KF-1 | 2012 | 0.5 | 2 | 1/16 | — | 1.25 | — | 5.10 |
| 60 | TB60L100 | 7.162 | — | C-2 | 2012 | 0.5 | 2 | — | — | 1.25 | — | 6.00 |

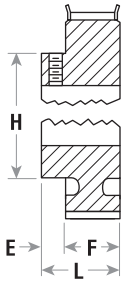
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .03"

# Stock Timing Pulleys

# H

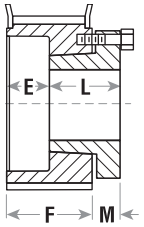
## 1/2" Pitch

Type DF



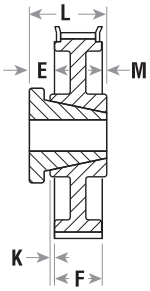

Type D

Type EF



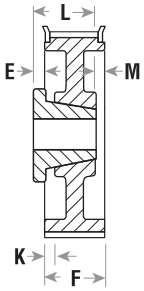

Type E

Type GF




Type G

Type HF




Type H

## H - 1/2" Pitch

**H100 For Belts 3/4" and 1" Wide (1/2" Pitch)** **Minimum Plain Bore** **F = 1-5/16**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bore Range | | Dimensions | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Min. | Max. | E | H | L | |
| 14 | 14H100 | 2.228 | 2.4844 | DF-1 | 0.625 | 1 | 0.625 | 1.5 | 1.9375 | 1.4 |
| 16 | 16H100 | 2.546 | 2.7969 | DF-1 | 0.625 | 1.25 | 0.6875 | 2 | 2 | 2.0 |
| 18 | 18H100 | 2.865 | 3.1094 | DF-1 | 0.625 | 1.5 | 0.6875 | 2.25 | 2 | 2.8 |
| 20 | 20H100 | 3.183 | 3.4375 | DF-1 | 0.625 | 1.625 | 0.875 | 2.5 | 2.1875 | 3.4 |
| 21 | 21H100 | 3.342 | 3.5625 | DF-1 | 0.75 | 1.6875 | 1 | 2.625 | 2.25 | 3.8 |
| 22 | 22H100 | 3.501 | 3.75 | DF-1 | 0.75 | 1.875 | 1 | 2.875 | 2.3125 | 4.3 |
| 24 | 24H100 | 3.820 | 4.0156 | DF-1 | 0.75 | 2.125 | 1 | 3.125 | 2.3125 | 5.3 |
| 26 | 26H100 | 4.138 | 4.3906 | DF-1 | 0.75 | 2.5 | 1.125 | 3.5 | 2.4375 | 6.7 |
| 28 | 28H100 | 4.456 | 4.7031 | DF-1 | 0.75 | 2.625 | 1.125 | 3.625 | 2.4375 | 8.0 |

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054"

## H - 1/2" Pitch

**H100 For Belts 3/4" and 1" Wide (1/2" Pitch)** **QD Type** **F = 1-5/16**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | Dimensions | | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | E | H | K | L | M | |
| 14 | 14H100JA | 2.228 | 2.4844 | EF-1* | JA | 1/2 - 1.25 | 0.75 | — | — | 1.0625 | 0.5 | 1.0 |
| 16 | 16H100JA | 2.546 | 2.7969 | EF-1* | JA | 1/2 - 1.25 | 0.75 | — | — | 1.0625 | 0.5 | 1.5 |
| 18 | 18H100SH | 2.865 | 3.1094 | EF-1* | SH | 1/2 - 1.6875 | 0.5625 | — | — | 1.3125 | 0.5625 | 1.2 |
| 20 | 20H100SH | 3.183 | 3.4375 | EF-1* | SH | 1/2 - 1.6875 | 0.5625 | — | — | 1.3125 | 0.5625 | 1.2 |
| 22 | 22H100SDS | 3.501 | 3.75 | EF-1* | SDS | 1/2 - 2 | 0.5625 | — | — | 1.375 | 0.625 | 1.4 |
| 24 | 24H100SDS | 3.820 | 4.0156 | EF-1* | SDS | 1/2 - 2 | 0.5625 | — | — | 1.375 | 0.625 | 1.7 |
| 26 | 26H100SDS | 4.138 | 4.3906 | HF-1 | SDS | 1/2 - 2 | 0.0625 | — | 0.5625 | 1.375 | — | 2.0 |
| 28 | 28H100SDS | 4.456 | 4.7031 | HF-1 | SDS | 1/2 - 2 | 0.0625 | — | 0.5625 | 1.375 | — | 2.6 |
| 30 | 30H100SD | 4.775 | 5.0156 | GF-1 | SD | 1/2 - 2 | 0.6250 | — | — | 1.8125 | — | 3.0 |
| 32 | 32H100SK | 5.093 | 5.3281 | GF-1 | SK | 1/2 - 2.625 | 0.6875 | — | — | 1.9375 | — | 4.9 |
| 36 | 36H100SK | 5.730 | 5.9531 | GF-1 | SK | 1/2 - 2.625 | 0.6875 | — | — | 1.9375 | — | 5.6 |
| 40 | 40H100SK | 6.366 | 6.5781 | GF-1 | SK | 1/2 - 2.625 | 0.6875 | — | — | 1.9375 | — | 8.2 |
| 44 | 44H100SK | 7.003 | 7.25 | GF-1 | SK | 1/2 - 2.625 | 0.6875 | — | — | 1.9375 | — | 10.0 |
| 48 | 48H100SK | 7.639 | 8.0156 | GF-2 | SK | 1/2 - 2.625 | 0.6875 | — | — | 1.9375 | — | 12.5 |
| 60 | 60H100SF | 9.549 | — | H-2 | SF | 1/2 - 2.9375 | 0.6875 | — | — | 2.0625 | — | 10.9 |
| 72 | 72H100SF | 11.459 | — | H-3 | SF | 1/2 - 2.9375 | 0.6875 | — | — | 2.0625 | — | 14.0 |
| 84 | 84H100SF | 13.369 | — | H-2 | SF | 1/2 - 2.9375 | 0.6875 | 5.125 | — | 2.0625 | — | 20.0 |
| 96 | 96H100SF | 15.279 | — | H-3 | SF | 1/2 - 2.9375 | 0.6875 | 5.125 | — | 2.0625 | — | 27.0 |
| 120 | 120H100SF | 19.099 | — | H-3 | SF | 1/2 - 2.9375 | 0.6875 | 5.125 | — | 2.0625 | — | 38.0 |

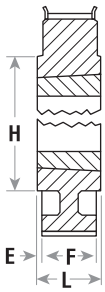
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .0.54"
*Reverse mount only

# H
## 1/2" Pitch

# Stock Timing Pulleys

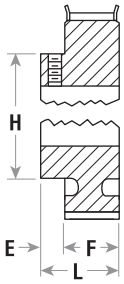
Martin

Type CF



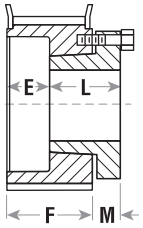

Type C

Type DF



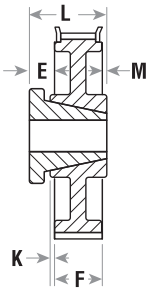

Type D

Type EF



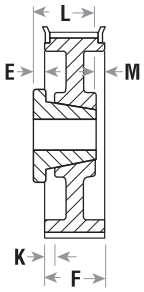

Type E

Type GF




Type G

Type HF




Type H

**Dash 1 = Solid Style** **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

**"F" type description indicates flanged.**

## H - 1/2" Pitch

**H100 For Belts 3/4" and 1" Wide (1/2" Pitch)** **Taper Bushed Type** **F = 1-5/16**

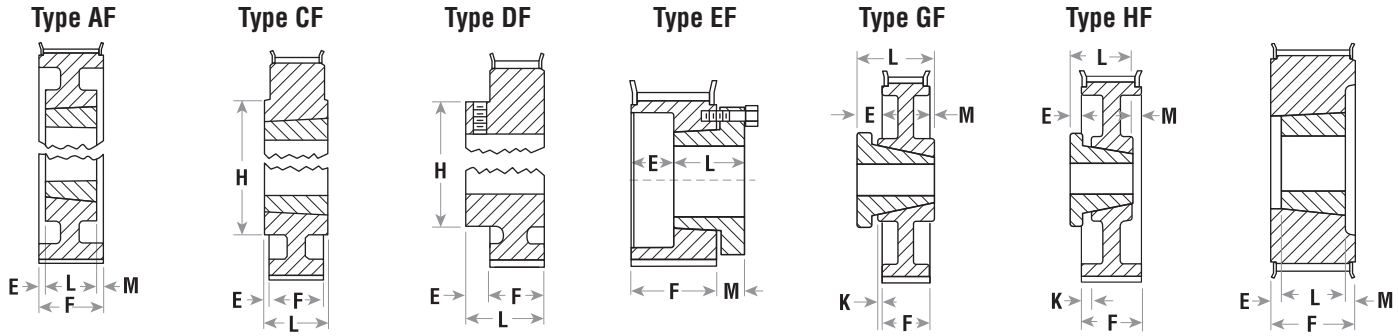
| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | Dimensions | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | E | H | L | M | |
| 14 | TB14H100 | 2.228 | 2.4844 | KF-1 | 1008 | 0.5 - 1 | 0.4375 | — | 0.875 | — | 0.80 |
| 16 | TB16H100 | 2.546 | 2.7969 | KF-1 | 1008 | 0.5 - 1 | 0.4375 | — | 0.875 | — | 1.30 |
| 18 | TB18H100 | 2.865 | 3.1094 | KF-1 | 1210 | 0.5 - 1.25 | 0.3125 | — | 1 | — | 1.20 |
| 20 | TB20H100 | 3.183 | 3.4375 | KF-1 | 1210 | 0.5 - 1.25 | 0.3125 | — | 1 | — | 1.70 |
| 22 | TB22H100 | 3.501 | 3.7500 | KF-1 | 1610 | 0.5 - 1.625 | 0.3125 | — | 1 | — | 1.80 |
| 24 | TB24H100 | 3.820 | 4.0156 | KF-1 | 1610 | 0.5 - 1.625 | 0.3125 | — | 1 | — | 2.30 |
| 26 | TB26H100 | 4.138 | 4.3906 | KF-1 | 2012 | 0.5 - 2 | 0.0625 | — | 1.25 | — | 2.60 |
| 28 | TB28H100 | 4.456 | 4.7031 | KF-1 | 2012 | 0.5 - 2 | 0.0625 | — | 1.25 | — | 2.80 |
| 30 | TB30H100 | 4.775 | 5.0156 | KF-1 | 2012 | 0.5 - 2 | 0.0625 | — | 1.25 | — | 4.20 |
| 32 | TB32H100 | 5.093 | 5.3281 | CF-1 | 2517 | 0.5 - 2.5 | 0.4375 | 4.4375 | 1.75 | — | 4.30 |
| 40 | TB40H100 | 6.366 | 6.5781 | CF-1 | 2517 | 0.5 - 2.5 | 0.4375 | 4.4375 | 1.75 | — | 7.80 |
| 48 | TB48H100 | 7.639 | 8.0156 | CF-1 | 2517 | 0.5 - 2.5 | 0.4375 | 4.4375 | 1.75 | — | 12.10 |
| 60 | TB60H100 | 9.549 | — | C-2 | 3020 | 0.875 - 3 | 0.3438 | 6.25 | 2 | 0.3438 | 10.30 |

Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054"

# Stock Timing Pulleys

# H

## 1/2" Pitch




**Dash 1 = Solid Style**

**Dash 2 = Web Style**
**"F" type description indicates flanged.**

**Dash 3 = Arm/Spoke Style**

## H - 1/2" Pitch

**H150 For Belts 1-1/2" Wide (1/2" Pitch)** **Minimum Plain Bore** **F = 1-13/16**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bore | | Dimensions | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Min. | Max. | E | H | L | |
| 14 | 14H150 | 2.228 | 2.4844 | DF-1 | 0.75 | 1 | 0.625 | 1.5 | 2.4375 | 1.8 |
| 16 | 16H150 | 2.546 | 2.7969 | DF-1 | 0.75 | 1.25 | 0.75 | 2 | 2.5625 | 2.5 |
| 18 | 18H150 | 2.865 | 3.1094 | DF-1 | 0.75 | 1.5 | 0.75 | 2.25 | 2.5625 | 3.3 |
| 19 | 19H150 | 3.024 | 3.25 | DF-1 | 0.75 | 1.5625 | 0.875 | 2.25 | 2.625 | 3.9 |
| 20 | 20H150 | 3.183 | 3.4375 | DF-1 | 0.75 | 1.625 | 0.875 | 2.5 | 2.6875 | 4.3 |
| 21 | 21H150 | 3.342 | 3.5625 | DF-1 | 0.75 | 1.6875 | 0.9375 | 2.5 | 2.75 | 5.3 |
| 22 | 22H150 | 3.501 | 3.75 | DF-1 | 0.75 | 1.875 | 1 | 2.875 | 2.8125 | 5.4 |
| 24 | 24H150 | 3.820 | 4.0625 | DF-1 | 0.75 | 2.125 | 1 | 3.125 | 2.8125 | 6.5 |
| 26 | 26H150 | 4.138 | 4.7813 | DF-1 | 0.75 | 2.5 | 1 | 3.5 | 2.8125 | 8.4 |

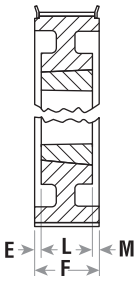
Dimensions in inches. Weight in pounds
Pulley O.D. = P.D. – .054"

# H
## 1/2" Pitch

# Stock Timing Pulleys

Martin

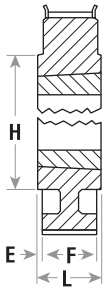
Type AF




Type A

Dash 1 = Solid Style

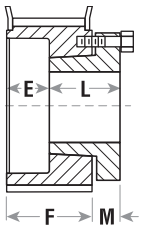
Type CF




Type C

Dash 2 = Web Style

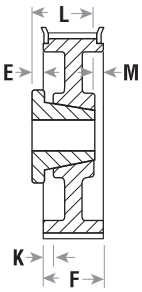
Type EF



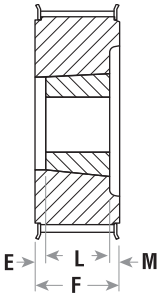

Type E

Dash 3 = Arm/Spoke Style

Type HF




Type H




Type KF

"F" type description indicates flanged.

## H - 1/2" Pitch

**H150 For Belts 1-1/2" Wide (1/2" Pitch)** **QD Type** **F = 1-13/16**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | Dimensions | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | E | K | L | M | |
| 14 | 14H150JA | 2.228 | 2.4844 | EF-1* | JA | 0.5 - 1.25 | 1.25 | — | 1.0625 | 0.5 | 1.5 |
| 16 | 16H150JA | 2.546 | 2.7969 | EF-1* | JA | 0.5 - 1.25 | 1.25 | — | 1.0625 | 0.5 | 2.0 |
| 18 | 18H150SH | 2.865 | 3.1094 | EF-1* | SH | 0.5 - 1.6875 | 1 | — | 1.3125 | 0.5625 | 1.3 |
| 20 | 20H150SH | 3.183 | 3.4375 | EF-1* | SH | 0.5 - 1.6875 | 1 | — | 1.3125 | 0.5625 | 1.8 |
| 22 | 22H150SD | 3.501 | 3.75 | EF-1* | SD | 0.5 - 2 | 0.5625 | — | 1.8125 | 0.625 | 2.0 |
| 24 | 24H150SD | 3.820 | 4.0625 | EF-1* | SD | 0.5 - 2 | 0.5625 | — | 1.8125 | 0.625 | 2.6 |
| 26 | 26H150SD | 4.138 | 4.7813 | HF-1 | SD | 0.5 - 2 | 0.0625 | 0.5625 | 1.8125 | 0.0625 | 3.0 |
| 28 | 28H150SD | 4.456 | 4.7031 | HF-1 | SD | 0.5 - 2 | 0.0625 | 0.5625 | 1.8125 | 0.0625 | 4.0 |
| 30 | 30H150SD | 4.775 | 5.0156 | HF-1 | SD | 0.5 - 2 | 0.0625 | 0.5625 | 1.8125 | 0.0625 | 4.9 |
| 32 | 32H150SK | 5.093 | 5.3281 | HF-1 | SK | 0.5 - 2.625 | 0.125 | 0.5625 | 1.9375 | — | 5.8 |
| 36 | 36H150SK | 5.730 | 5.9531 | HF-1 | SK | 0.5 - 2.625 | 0.125 | 0.5625 | 1.9375 | — | 7.0 |
| 40 | 40H150SK | 6.366 | 6.5781 | HF-1 | SK | 0.5 - 2.625 | 0.125 | 0.5625 | 1.9375 | — | 9.2 |
| 44 | 44H150SK | 7.003 | 7.25 | HF-1 | SK | 0.5 - 2.625 | 0.125 | 0.5625 | 1.9375 | — | 11.0 |
| 48 | 48H150SK | 7.639 | 8.0156 | HF-2 | SK | 0.5 - 2.625 | 0.125 | 0.5625 | 1.9375 | — | 13.7 |
| 60 | 60H150SF | 9.549 | — | H-2 | SF | 0.5 - 2.9375 | 0.4063 | 0.2813 | 2.0625 | 0.2813 | 12.5 |
| 72 | 72H150SF | 11.459 | — | H-3 | SF | 0.5 - 2.9375 | 0.4063 | 0.2813 | 2.0625 | 0.2813 | 17.0 |
| 84 | 84H150SF | 13.369 | — | H-3 | SF | 0.5 - 2.9375 | 0.4063 | 0.2813 | 2.0625 | 0.2813 | 21.5 |
| 96 | 96H150SF | 15.279 | — | H-3 | SF | 0.5 - 2.9375 | 0.4063 | 0.2813 | 2.0625 | 0.2813 | 31.0 |
| 120 | 120H150SF | 19.099 | — | H-3 | SF | 0.5 - 2.9375 | 0.4063 | 0.2813 | 2.0625 | 0.2813 | 40.0 |

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. – .054"

*Reverse mount only

## H - 1/2" Pitch

**H150 For Belts 1-1/2" Wide (1/2" Pitch)** **Taper Bushed Type** **F = 1-13/16**

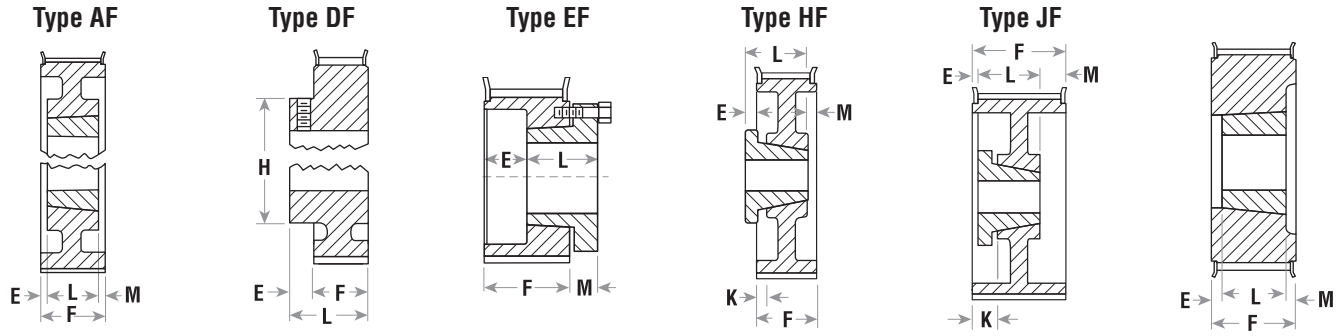
| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | Dimensions | | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | E | H | K | L | M | |
| 14 | TB14H150 | 2.228 | 2.4844 | KF-1 | 1008 | 0.5 - 1 | 0.4688 | — | — | 0.875 | 0.4688 | 1.0 |
| 16 | TB16H150 | 2.546 | 2.7969 | KF-1 | 1008 | 0.5 - 1 | 0.4688 | — | — | 0.875 | 0.4688 | 1.5 |
| 18 | TB18H150 | 2.865 | 3.1094 | KF-1 | 1215 | 0.5 - 1.25 | 0.3125 | — | — | 1.5 | — | 1.6 |
| 20 | TB20H150 | 3.183 | 3.4375 | KF-1 | 1215 | 0.5 - 1.25 | 0.3125 | — | — | 1.5 | — | 2.2 |
| 22 | TB22H150 | 3.501 | 3.75 | KF-1 | 1615 | 0.5 - 1.625 | 0.3125 | — | — | 1.5 | — | 2.5 |
| 24 | TB24H150 | 3.820 | 4.0625 | KF-1 | 2012 | 0.5 - 2 | 0.5625 | — | — | 1.25 | — | 2.7 |
| 26 | TB26H150 | 4.138 | 4.7813 | KF-1 | 2012 | 0.5 - 2 | 0.5625 | — | — | 1.25 | — | 3.2 |
| 28 | TB28H150 | 4.456 | 4.7031 | KF-1 | 2012 | 0.5 - 2 | 0.5625 | — | — | 1.25 | — | 4.1 |
| 30 | TB30H150 | 4.775 | 5.0156 | KF-1 | 2012 | 0.5 - 2 | 0.5625 | — | — | 1.25 | — | 5.1 |
| 32 | TB32H150 | 5.093 | 5.3281 | KF-1 | 2517 | 0.5 - 2.5 | 0.0625 | — | — | 1.75 | — | 5.6 |
| 40 | TB40H150 | 6.366 | 6.5781 | KF-1 | 2517 | 0.5 - 2.5 | 0.0625 | — | — | 1.75 | — | 8.6 |
| 48 | TB48H150 | 7.639 | 8.0156 | AF-2 | 2517 | 0.5 - 2.5 | — | — | — | 1.75 | 0.0625 | 13.6 |
| 60 | TB60H150 | 9.549 | — | C-2 | 3020 | 0.88 - 3 | 0.0938 | 6.25 | — | 2 | 0.0938 | 12.3 |

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. – .054"

# Stock Timing Pulleys

# H

## 1/2" Pitch




**Dash 1 = Solid Style** **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style**

**"F" type description indicates flanged.**

## H - 1/2" Pitch

**H200 For Belts 2" Wide (1/2" Pitch)** **Minimum Plain Bore** **F = 2-11/32**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | | Dimensions | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Stk. | Max. | E | H | L | |
| 14 | 14H200 | 2.228 | 2.375 | DF-1 | 0.75 | 1 | 0.625 | 1.5 | 2.9688 | 2.2 |
| 16 | 16H200 | 2.546 | 2.7969 | DF-1 | 0.75 | 1.25 | 0.75 | 2 | 3.0938 | 3.1 |
| 18 | 18H200 | 2.865 | 3.1094 | DF-1 | 0.75 | 1.5 | 0.75 | 2 | 3.0938 | 3.7 |
| 19 | 19H200 | 3.024 | 3.2500 | DF-1 | 0.75 | 1.5625 | 0.875 | 2.25 | 3.2188 | 3.9 |
| 20 | 20H200 | 3.183 | 3.4375 | DF-1 | 0.75 | 1.625 | 0.875 | 2.5 | 3.2188 | 4.9 |
| 22 | 22H200 | 3.501 | 3.75 | DF-1 | 1 | 1.875 | 1 | 2.875 | 3.3438 | 6.3 |
| 24 | 24H200 | 3.820 | 4.0625 | DF-1 | 1 | 2.125 | 1 | 3.125 | 3.3438 | 7.5 |
| 26 | 26H200 | 4.138 | 4.7813 | DF-1 | 1 | 2.5 | 1.125 | 3.5 | 3.4688 | 9.5 |

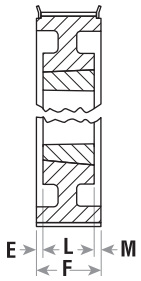
Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. – .054"

# H
## 1/2" Pitch

# Stock Timing Pulleys

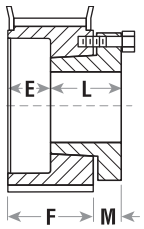
Martin

Type AF



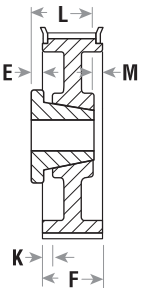

Type A

Type EF

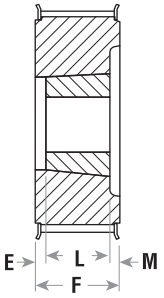



Type E

Type HF




Type H




Type KF

**Dash 1 = Solid Style** **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style** **"F" type description indicates flanged.**

## H - 1/2" Pitch

**H200 For Belts 2" Wide (1/2" Pitch)** **QD Type** **F = 2-11/16**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | Dimensions | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | E | K | L | M | |
| 16 | 16H200JA | 2.546 | 2.7969 | EF-1* | JA | 0.5 - 1.25 | 1.7813 | — | 1.0625 | 0.5 | 2.6 |
| 18 | 18H200SH | 2.865 | 3.1094 | EF-1* | SH | 0.5 - 1.6875 | 1.5313 | — | 1.3125 | 0.5625 | 1.6 |
| 20 | 20H200SH | 3.183 | 3.4375 | EF-1* | SH | 0.5 - 1.6875 | 1.5313 | — | 1.3125 | 0.5625 | 2.2 |
| 22 | 22H200SD | 3.501 | 3.75 | EF-1* | SD | 0.5 - 2 | 1.0938 | — | 1.8125 | 0.6250 | 2.5 |
| 24 | 24H200SD | 3.820 | 4.0625 | EF-1* | SD | 0.5 - 2 | 1.0938 | — | 1.8125 | 0.6250 | 3.0 |
| 26 | 26H200SD | 4.138 | 4.7813 | HF-1 | SD | 0.5 - 2 | 0.0781 | 0.5469 | 1.8125 | 0.5469 | 3.9 |
| 28 | 28H200SD | 4.456 | 4.7031 | HF-1 | SD | 0.5 - 2 | 0.0781 | 0.5469 | 1.8125 | 0.5469 | 4.7 |
| 30 | 30H200SD | 4.775 | 5.0156 | HF-1 | SD | 0.5 - 2 | 0.0781 | 0.5469 | 1.8125 | 0.5469 | 5.7 |
| 32 | 32H200SK | 5.093 | 5.3281 | HF-1 | SK | 0.5 - 2.625 | 0.1406 | 0.5469 | 1.9375 | 0.5469 | 6.7 |
| 36 | 36H200SK | 5.730 | 5.9531 | HF-1 | SK | 0.5 - 2.625 | 0.1406 | 0.5469 | 1.9375 | 0.5469 | 8.0 |
| 40 | 40H200SK | 6.366 | 6.5781 | HF-1 | SK | 0.5 - 2.625 | 0.1406 | 0.5469 | 1.9375 | 0.5469 | 10.2 |
| 44 | 44H200SK | 7.003 | 7.25 | HF-1 | SK | 0.5 - 2.625 | 0.1406 | 0.5469 | 1.9375 | 0.5469 | 12.5 |
| 48 | 48H200SF | 7.639 | 8.0156 | HF-2 | SF | 0.5 - 2.9375 | 0.1406 | 0.5469 | 2.0625 | 0.5469 | 14.1 |
| 60 | 60H200SF | 9.549 | — | H-2 | SF | 0.5 - 2.9375 | 0.1406 | 0.5469 | 2.0625 | 0.5469 | 14.6 |
| 72 | 72H200SF | 11.459 | — | H-2 | SF | 0.5 - 2.9375 | 0.1406 | 0.5469 | 2.0625 | 0.5469 | 21.0 |
| 84 | 84H200SF | 13.369 | — | H-3 | SF | 0.5 - 2.9375 | 0.1406 | 0.5469 | 2.3125 | 0.5469 | 23.0 |
| 96 | 96H200E | 15.279 | — | H-3 | E | 0.875 - 3.5 | 0.5156 | 0.3594 | 2.625 | 0.3594 | 34.0 |
| 120 | 120H200E | 19.099 | — | H-3 | E | 0.875 - 3.5 | 0.5156 | 0.3594 | 2.625 | 0.3594 | 42.0 |

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. – .054"

*Reverse mount only

## H - 1/2" Pitch

**H200 For Belts 1-1/2" Wide (1/2" Pitch)** **Taper Bushed Type** **F = 2-11/16**

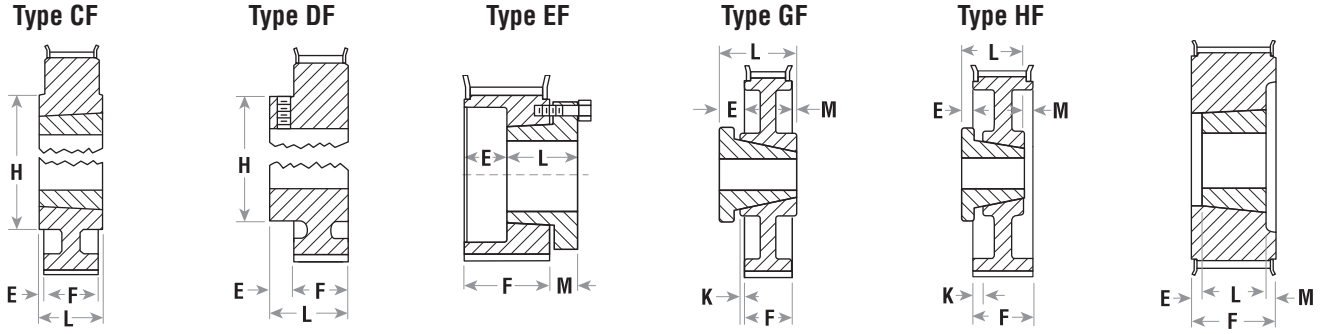
| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | Dimensions | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | E | L | M | |
| 16 | TB16H200 | 2.546 | 2.7969 | KF-1 | 1008 | 1/2 - 1 | 0.75 | 0.875 | 0.7188 | 1.9 |
| 18 | TB18H200 | 2.865 | 3.1094 | KF-1 | 1215 | 1/2 - 1.25 | 0.4375 | 1.5 | 0.4063 | 1.8 |
| 20 | TB20H200 | 3.183 | 3.4375 | KF-1 | 1215 | 1/2 - 1.25 | 0.4219 | 1.5 | 0.4219 | 2.6 |
| 22 | TB22H200 | 3.501 | 3.75 | KF-1 | 1615 | 1/2 - 1.625 | 0.4219 | 1.5 | 0.4219 | 2.8 |
| 24 | TB24H200 | 3.820 | 4.0625 | KF-1 | 2012 | 1/2 - 2 | 0.5469 | 1.25 | 0.5469 | 2.8 |
| 26 | TB26H200 | 4.138 | 4.7813 | KF-1 | 2012 | 1/2 - 2 | 0.5469 | 1.25 | 0.5469 | 3.6 |
| 28 | TB28H200 | 4.456 | 4.7031 | KF-1 | 2012 | 1/2 - 2 | 0.5469 | 1.25 | 0.5469 | 5.1 |
| 30 | TB30H200 | 4.775 | 5.0156 | KF-1 | 2012 | 1/2 - 2 | 0.4063 | 1.25 | — | 7.0 |
| 32 | TB32H200 | 5.093 | 5.3281 | KF-1 | 2517 | 1/2 - 2.5 | 0.5938 | 1.75 | — | 8.5 |
| 40 | TB40H200 | 6.366 | 6.5781 | KF-1 | 2517 | 1/2 - 2.5 | 0.5938 | 1.75 | — | 9.9 |
| 48 | TB48H200 | 7.639 | 8.0156 | KF-1 | 3020 | 7/8 - 3 | 0.3438 | 2 | — | 14.3 |
| 60 | TB60H200 | 9.549 | — | A-2 | 3020 | 7/8 - 3 | 0.1719 | 2 | 0.1719 | 15.3 |

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. – .054"

# Stock Timing Pulleys

# H

## 1/2" Pitch




Dash 1 = Solid Style  Dash 2 = Web Style  Dash 3 = Arm/Spoke Style

## H - 1/2" Pitch

**H300 For Belts 3" Wide (1/2" Pitch)** **Minimum Plain bore** **F = 3-3/8**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bore | | Dimensions | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Stk. | Max. | E | H | L | |
| 16 | 16H300 | 2.546 | 2.80 | DF-1 | 0.75 | 1.25 | 0.75 | 2 | 4.125 | 4.2 |

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. – .054"

## H - 1/2" Pitch

**H300 For Belts 3" Wide (1/2" Pitch)** **QD Type** **F = 3-3/8**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | Dimensions | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | E | K | L | M | |
| 22 | 22H300SD | 3.501 | 3.75 | EF-1* | SD | 0.5 - 2 | 2.125 | — | 1.8125 | 0.625 | 4.1 |
| 24 | 24H300SD | 3.820 | 4.0625 | EF-1* | SD | 0.5 - 2 | 2.125 | — | 1.8125 | 0.625 | 4.1 |
| 26 | 26H300SD | 4.138 | 4.3906 | JF-1 | SD | 0.5 - 2 | 0.4375 | 1.0625 | 1.8125 | 1.0625 | 5.0 |
| 28 | 28H300SD | 4.456 | 4.7031 | JF-1 | SD | 0.5 - 2 | 0.4375 | 1.0625 | 1.8125 | 1.0625 | 6.0 |
| 30 | 30H300SD | 4.775 | 5.0156 | JF-1 | SD | 0.5 - 2 | 0.4375 | 1.0625 | 1.8125 | 1.0625 | 7.2 |
| 32 | 32H300SK | 5.093 | 5.3281 | JF-1 | SK | 0.5 - 2.625 | 0.375 | 1.0625 | 1.9375 | 1.0625 | 8.4 |
| 36 | 36H300SK | 5.730 | 5.9531 | JF-1 | SK | 0.5 - 2.625 | 0.375 | 1.0625 | 1.9375 | 1.0625 | 10.0 |
| 40 | 40H300SK | 6.366 | 6.5781 | JF-1 | SK | 0.5 - 2.625 | 0.375 | 1.0625 | 1.9375 | 1.0625 | 12.2 |
| 44 | 44H300SK | 7.003 | 7.25 | JF-1 | SK | 0.5 - 2.625 | 0.375 | 1.0625 | 1.9375 | 1.0625 | 15.5 |
| 48 | 48H300SF | 7.639 | 8.0156 | JF-2 | SF | 0.5 - 2.9375 | 0.375 | 1.0625 | 2.0625 | 1.0625 | 16.6 |
| 60 | 60H300SF | 9.549 | — | J-2 | SF | 0.5 - 2.9375 | 0.375 | 1.0625 | 2.0625 | 1.0625 | 17.9 |
| 72 | 72H300SF | 11.459 | — | J-2 | SF | 0.5 - 2.9375 | 0.1875 | 1.0625 | 2.0625 | 1.0625 | 23.0 |
| 84 | 84H300SF | 13.369 | — | J-2 | SF | 0.5 - 2.9375 | 0.1875 | 1.0625 | 2.0625 | 1.0625 | 30.0 |
| 96 | 96H300E | 15.2790 | — | H-3 | E | 0.875 - 3.5 | - | 0.875 | 2.625 | 0.875 | 38.0 |
| 120 | 120H300E | 19.099 | — | H-3 | E | 0.875 - 3.5 | - | 0.875 | 2.625 | 0.875 | 51.0 |

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. – .054"  *Reverse mount only

## H - 1/2" Pitch

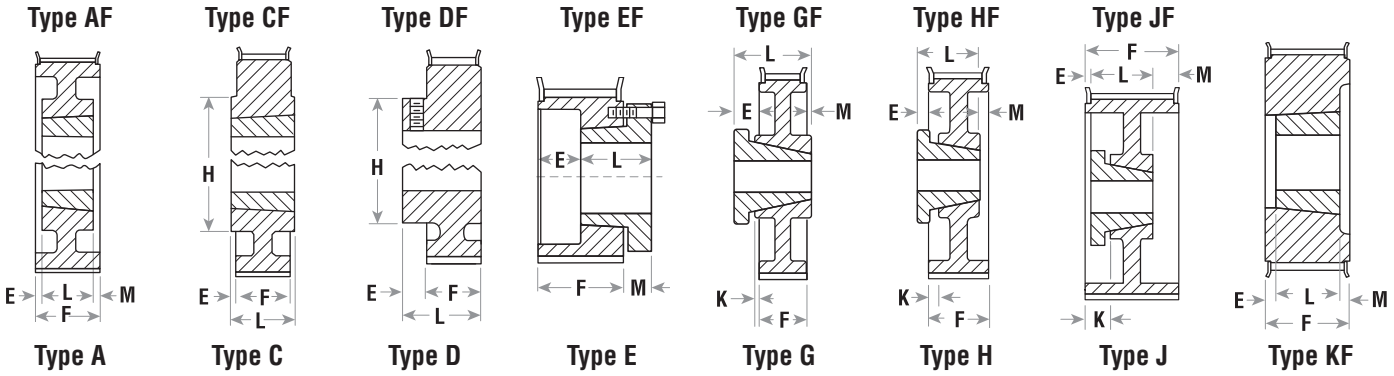
**H300 For Belts 3" Wide (1/2" Pitch)** **Taper Bushed Type** **F = 3-3/8**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | Dimensions | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | E | L | M | |
| 18 | TB18H300 | 2.865 | 3.1094 | KF-1 | 1215 | 0.5 - 1.25 | 0.9375 | 1.5 | 0.9375 | 2.6 |
| 20 | TB20H300 | 3.183 | 3.4375 | KF-1 | 1215 | 0.5 - 1.25 | 0.9375 | 1.5 | 0.9375 | 3.9 |
| 22 | TB22H300 | 3.501 | 3.75 | KF-1 | 1615 | 0.5 - 1.625 | 0.9375 | 1.5 | 0.9375 | 4.0 |
| 24 | TB24H300 | 3.820 | 4.0625 | KF-1 | 2012 | 0.5 - 2 | 1.0625 | 1.25 | 1.0625 | 4.3 |
| 26 | TB26H300 | 4.138 | 4.3906 | KF-1 | 2012 | 0.5 - 2 | 1.0625 | 1.25 | 1.0625 | 5.4 |
| 28 | TB28H300 | 4.456 | 4.7031 | KF-1 | 2012 | 0.5 - 2 | 1.0625 | 1.25 | 1.0625 | 6.8 |
| 30 | TB30H300 | 4.775 | 5.0156 | KF-1 | 2012 | 0.5 - 2 | 1.0625 | 1.25 | 1.0625 | 7.5 |
| 32 | TB32H300 | 5.093 | 5.3281 | KF-1 | 2517 | 0.5 - 2.5 | 0.8125 | 1.75 | 0.8125 | 7.4 |
| 40 | TB40H300 | 6.366 | 6.5781 | KF-1 | 2517 | 0.5 - 2.5 | 0.8125 | 1.75 | 0.8125 | 12.1 |
| 48 | TB48H300 | 7.639 | 8.0156 | KF-1 | 3020 | 0.875 - 3 | 0.6875 | 2 | 0.6875 | 16.3 |
| 60 | TB60H300 | 9.549 | — | A-2 | 3020 | 0.875 - 3 | 0.5625 | 2 | 0.5625 | 17.3 |

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. – .054"  *Reverse mount only

# XH
## 7/8" Pitch

## Stock Timing Pulleys




**Dash 1 = Solid Style** **Dash 2 = Web Style** **Dash 3 = Arm/Spoke Style** **"F" type description indicates flanged.**

## XH - 7/8" Pitch

**XH200 For Belts 2" Wide (7/8" Pitch)** **Minimum Plain Bore** **F = 2-9/16**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bore | | Dimensions | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Stk. | Max. | E | H | L | |
| 18 | 18XH200 | 5.013 | 5.5781 | DF-1 | 1 | 2.625 | 0.875 | 3.6875 | 3.4375 | 12.0 |
| 20 | 20XH200 | 5.570 | 6.1094 | DF-1 | 1 | 3.25 | 1 | 4.125 | 3.5625 | 16.0 |

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. – .11"

## XH - 7/8" Pitch

**XH200 For Belts 2" Wide (7/8" Pitch)** **Taper Bushed Type** **F = 2-9/16**

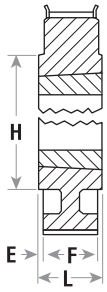
| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | Dimensions | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | E | H | L | M | |
| 22 | TB22XH200 | 6.127 | 6.5938 | KF-1 | 2517 | 0.5 - 2.5 | 0.8125 | — | 1.75 | — | 10.6 |
| 24 | TB24XH200 | 6.685 | 7.2813 | KF-1 | 3020 | 0.875 - 3 | 0.5625 | — | 2 | — | 11.3 |
| 26 | TB26XH200 | 7.241 | 7.7813 | KF-1 | 3020 | 0.875 - 3 | 0.5625 | — | 2 | — | 13.3 |
| 28 | TB28XH200 | 7.799 | 8.2656 | CF-1 | 3535 | 1.1875 - 3.5 | 0.9375 | 6.5 | 3.5 | — | 13.5 |
| 30 | TB30XH200 | 8.356 | 9.0313 | CF-1 | 3535 | 1.1875 - 3.5 | 0.9375 | 6.5 | 3.5 | — | 18.5 |
| 32 | TB32XH200 | 8.913 | 9.5156 | CF-1 | 3535 | 1.1875 - 3.5 | 0.9375 | 6.5 | 3.5 | — | 21.5 |
| 40 | TB40XH200 | 11.141 | 11.7969 | CF-1 | 4040 | 1.4375 - 4 | 1.4375 | 8.5 | 4 | — | 37.5 |
| 48 | TB48XH200 | 13.369 | — | C-2 | 4040 | 1.4375 - 4 | 0.4063 | 8.5 | 4 | 0.7188 | 44.5 |
| 60 | TB60XH200 | 16.711 | — | C-3 | 4040 | 1.4375 - 4 | 0.7188 | 8.5 | 4 | 0.7188 | 47.0 |

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. – .11"

# Stock Timing Pulleys

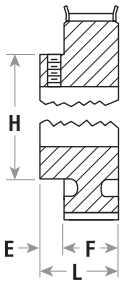
# XH
## 7/8" Pitch

Type CF



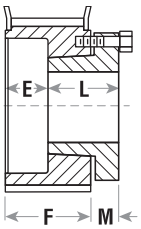

Type C

Type DF



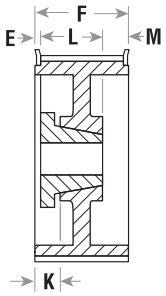

Type D

Type EF

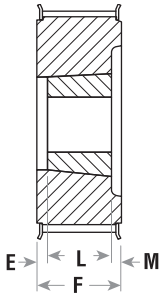



Type E

Type JF




Type J




Type KF

## XH - 7/8" Pitch

**XH300 For Belts 3" Wide (7/8" Pitch)** **Minimum Plain Bore** **F = 3-5/8**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bore | | Dimensions | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Stk. | Max. | E | H | L | M | |
| 18 | 18XH300 | 5.013 | 5.5781 | DF-1 | 1 | 2.625 | 0.875 | 3.6875 | 4.5 | 1* | 15.0 |
| 20 | 20XH300 | 5.570 | 6.1094 | DF-1 | 1 | 3.25 | 1 | 4.125 | 4.625 | 0.75* | 19.0 |

*Counterbore "M" depth on flush side.

## XH - 7/8" Pitch

**XH300 For Belts 3" Wide (7/8" Pitch)** **Taper Bushed Type** **F = 3-5/8**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | Dimensions | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | E | H | L | M | |
| 22 | TB22XH300 | 6.127 | 6.6563 | KF-1 | 2517 | 0.5 - 2.5 | 0.9375 | — | 1.75 | 0.9375 | 13.6 |
| 24 | TB24XH300 | 6.685 | 7.2813 | KF-1 | 3020 | 0.875 - 3 | 0.8125 | — | 2 | 0.8125 | 15.3 |
| 26 | TB26XH300 | 7.241 | 7.7813 | KF-1 | 3020 | 0.875 - 3 | 0.8125 | — | 2 | 0.8125 | 17.3 |
| 28 | TB28XH300 | 7.799 | 8.2656 | KF-1 | 3535 | 1.1875 - 3.5 | 0.125 | — | 3.5 | — | 17.5 |
| 30 | TB30XH300 | 8.356 | 9.0313 | KF-1 | 3535 | 1.1875 - 3.5 | 0.125 | — | 3.5 | — | 22.5 |
| 32 | TB32XH300 | 8.913 | 9.5156 | KF-1 | 3535 | 1.1875 - 3.5 | 0.125 | — | 3.5 | — | 26.5 |
| 40 | TB40XH300 | 11.141 | 11.7969 | CF-1 | 4040 | 1.4375 - 4 | 0.375 | 7.75 | 4 | — | 43.5 |
| 48 | TB48XH300 | 13.369 | — | C-2 | 4040 | 1.4375 - 4 | 0.1875 | 8.5 | 4 | 0.1875 | 51.5 |
| 60 | TB60XH300 | 16.711 | — | C-3 | 4040 | 1.4375 - 4 | 0.1875 | 8.5 | 4 | 0.1875 | 55.5 |

## XH - 1/2" Pitch

**XH400 For Belts 4" Wide (7/8" Pitch)** **QD Type** **F = 4-11/16**

| No. Teeth | Part Number | Pitch Diameter | Max FL O.D. | Type | Bush | Bore Range | Dimensions | | | | Wt. Less Bush |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | E | K | L | M | |
| 20 | 20XH400SK | 5.570 | 6.0938 | JF-1 | SK | 0.5 - 2.5 | 0.5 | 1.1875 | 1.9375 | 2.25 | 12.4 |
| 22 | 22XH400SK | 6.127 | 6.6563 | JF-1 | SK | 0.5 - 2.5 | 0.5 | 1.1875 | 1.9375 | 2.25 | 16.7 |
| 24 | 24XH400SF | 6.685 | 7.2188 | JF-1 | SF | 0.5 - 2.875 | 0.5 | 1.1875 | 2.0625 | 2.1875 | 19.2 |
| 26 | 26XH400SF | 7.242 | 7.7813 | JF-1 | SF | 0.5 - 2.875 | 0.5 | 1.1875 | 2.0625 | 2.1875 | 23.0 |
| 28 | 28XH400E | 7.799 | 8.3438 | JF-1 | E | 0.875 - 3.5 | 0.6563 | 1.5313 | 2.625 | 1.4063 | 24.0 |
| 30 | 30XH400E | 8.356 | 8.9063 | JF-1 | E | 0.875 - 3.5 | 0.6563 | 1.5313 | 2.625 | 1.4063 | 30.7 |
| 32 | 32XH400E | 8.913 | 9.4375 | JF-1 | E | 0.875 - 3.5 | 0.6563 | 1.5313 | 2.625 | 1.4063 | 34.0 |
| 40 | 40XH400F | 11.141 | 11.6875 | HF-2 | F | 1 - 3.9375 | 0.0938 | 1.0938 | 3.625 | 1.0313 | 49.0 |
| 48 | 48XH400J | 13.369 | — | H-3 | J | 1.4375 - 4.5 | 0.1875 | 1 | 4.5 | 0.875 | 67.3 |
| 60 | 60XH400J | 16.711 | — | H-3 | J | 1.4375 - 4.5 | 0.4375 | 0.75 | 4.5 | 0.625 | 85.0 |
| 72 | 72XH400J | 20.054 | — | H-3 | J | 1.4375 - 4.5 | 0.4375 | 0.75 | 4.5 | 0.625 | 108.0 |
| 84 | 84XH400J | 23.396 | — | H-3 | J | 1.4375 - 4.5 | 0.4375 | 0.75 | 4.5 | 0.625 | 119.0 |
| 96 | 96XH400J | 26.738 | — | H-3 | J | 1.4375 - 4.5 | 0.4375 | 0.75 | 4.5 | 0.625 | 187.5 |
| 120 | 120XH400J | 33.423 | — | H-3 | J | 1.4375 - 4.5 | 0.4375 | 0.75 | 4.5 | 0.625 | 187.5 |

Dimensions in inches. Weight in pounds. Pulley O.D. = P.D. – .11"

# Timing Pulley Diameters

## XL - 1/5" Pitch

| No. Teeth | Diameter | | No. Teeth | Diameter | | No. Teeth | Diameter | | No. Teeth | Diameter | | No. Teeth | Diameter | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | P.D. | O.D. | | P.D. | O.D. | | P.D. | O.D. | | P.D. | O.D. | | P.D. | O.D. |
| 10XL | 0.637 | 0.617 | 33XL | 2.101 | 2.081 | 55XL | 3.501 | 3.481 | 77XL | 4.902 | 4.882 | 99XL | 6.303 | 6.283 |
| 11XL | 0.700 | 0.680 | 34XL | 2.165 | 2.145 | 56XL | 3.565 | 3.545 | 78XL | 4.966 | 4.946 | 100XL | 6.346 | 6.326 |
| 12XL | 0.764 | 0.744 | 35XL | 2.228 | 2.208 | 57XL | 3.629 | 3.609 | 79XL | 5.029 | 5.009 | 101XL | 6.430 | 6.410 |
| 13XL | 0.828 | 0.808 | 36XL | 2.292 | 2.272 | 58XL | 3.692 | 3.672 | 80XL | 5.093 | 5.073 | 102XL | 6.494 | 6.474 |
| 14XL | 0.891 | 0.871 | 37XL | 2.355 | 2.335 | 59XL | 3.756 | 3.736 | 81XL | 5.157 | 5.137 | 103XL | 6.557 | 6.537 |
| 15XL | 0.955 | 0.935 | 38XL | 2.419 | 2.399 | 60XL | 3.820 | 3.800 | 82XL | 5.220 | 5.200 | 104XL | 6.621 | 6.601 |
| 16XL | 1.019 | 0.999 | 39XL | 2.483 | 2.463 | 61XL | 3.883 | 3.863 | 83XL | 5.284 | 5.264 | 105XL | 6.685 | 6.665 |
| 17XL | 1.082 | 1.062 | 40XL | 2.546 | 2.526 | 62XL | 3.947 | 3.927 | 84XL | 5.348 | 5.328 | 106XL | 6.748 | 6.728 |
| 18XL | 1.146 | 1.126 | 41XL | 2.610 | 2.590 | 63XL | 4.011 | 3.991 | 85XL | 5.411 | 5.391 | 107XL | 6.812 | 6.792 |
| 19XL | 1.210 | 1.190 | 42XL | 2.674 | 2.654 | 64XL | 4.074 | 4.054 | 86XL | 5.475 | 5.455 | 108XL | 6.875 | 6.855 |
| 20XL | 1.273 | 1.253 | 43XL | 2.737 | 2.717 | 65XL | 4.138 | 4.118 | 87XL | 5.539 | 5.519 | 109XL | 6.939 | 6.919 |
| 21XL | 1.337 | 1.317 | 44XL | 2.801 | 2.781 | 66XL | 4.202 | 4.182 | 88XL | 5.602 | 5.582 | 110XL | 7.003 | 6.983 |
| 22XL | 1.401 | 1.381 | 45XL | 2.865 | 2.845 | 67XL | 4.265 | 4.245 | 89XL | 5.666 | 5.646 | 111XL | 7.066 | 7.046 |
| 23XL | 1.464 | 1.444 | 46XL | 2.928 | 2.908 | 68XL | 4.329 | 4.309 | 90XL | 5.730 | 5.710 | 112XL | 7.130 | 7.110 |
| 24XL | 1.528 | 1.508 | 47XL | 2.992 | 2.972 | 69XL | 4.393 | 4.373 | 91XL | 5.793 | 5.773 | 113XL | 7.194 | 7.174 |
| 25XL | 1.592 | 1.572 | 48XL | 3.056 | 3.036 | 70XL | 4.456 | 4.436 | 92XL | 5.857 | 5.837 | 114XL | 7.257 | 7.237 |
| 26XL | 1.655 | 1.635 | 49XL | 3.119 | 3.099 | 71XL | 4.520 | 4.500 | 93XL | 5.921 | 5.901 | 115XL | 7.321 | 7.301 |
| 27XL | 1.719 | 1.699 | 50XL | 3.183 | 3.163 | 72XL | 4.584 | 4.564 | 94XL | 5.984 | 5.964 | 116XL | 7.385 | 7.365 |
| 28XL | 1.783 | 1.763 | 51XL | 3.247 | 3.227 | 73XL | 4.647 | 4.627 | 95XL | 6.048 | 6.028 | 117XL | 7.448 | 7.428 |
| 29XL | 1.846 | 1.826 | 52XL | 3.310 | 3.290 | 74XL | 4.711 | 4.691 | 96XL | 6.112 | 6.092 | 118XL | 7.512 | 7.492 |
| 30XL | 1.910 | 1.890 | 53XL | 3.374 | 3.354 | 75XL | 4.775 | 4.755 | 97XL | 6.175 | 6.155 | 119XL | 7.576 | 7.556 |
| 31XL | 1.974 | 1.954 | 54XL | 3.438 | 3.418 | 76XL | 4.838 | 4.818 | 98XL | 6.239 | 6.219 | 120XL | 7.639 | 7.619 |
| 32XL | 2.037 | 2.017 | | | | | | | | | | | | |

## L - 3/8" Pitch

| No. Teeth | Diameter | | No. Teeth | Diameter | | No. Teeth | Diameter | | No. Teeth | Diameter | | No. Teeth | Diameter | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | P.D. | O.D. | | P.D. | O.D. | | P.D. | O.D. | | P.D. | O.D. | | P.D. | O.D. |
| 10L | 1.194 | 1.164 | 33L | 3.939 | 3.909 | 56L | 6.685 | 6.655 | 79L | 9.430 | 9.400 | 102L | 12.175 | 12.145 |
| 11L | 1.313 | 1.283 | 34L | 4.058 | 4.028 | 57L | 6.804 | 6.774 | 80L | 9.549 | 9.519 | 103L | 12.295 | 12.265 |
| 12L | 1.432 | 1.402 | 35L | 4.178 | 4.148 | 58L | 6.923 | 6.893 | 81L | 9.669 | 9.639 | 104L | 12.414 | 12.384 |
| 13L | 1.552 | 1.522 | 36L | 4.297 | 4.267 | 59L | 7.043 | 7.013 | 82L | 9.788 | 9.758 | 105L | 12.533 | 12.503 |
| 14L | 1.671 | 1.641 | 37L | 4.417 | 4.387 | 60L | 7.162 | 7.132 | 83L | 9.907 | 9.877 | 106L | 12.653 | 12.623 |
| 15L | 1.790 | 1.760 | 38L | 4.536 | 4.506 | 61L | 7.281 | 7.251 | 84L | 10.027 | 9.997 | 107L | 12.772 | 12.742 |
| 16L | 1.910 | 1.880 | 39L | 4.655 | 4.625 | 62L | 7.401 | 7.371 | 85L | 10.147 | 10.117 | 108L | 12.892 | 12.862 |
| 17L | 2.029 | 1.999 | 40L | 4.775 | 4.745 | 63L | 7.520 | 7.490 | 86L | 10.265 | 10.235 | 109L | 13.011 | 12.981 |
| 18L | 2.149 | 2.119 | 41L | 4.894 | 4.864 | 64L | 7.639 | 7.609 | 87L | 10.385 | 10.355 | 110L | 13.130 | 13.100 |
| 19L | 2.268 | 2.238 | 42L | 5.013 | 4.983 | 65L | 7.759 | 7.729 | 88L | 10.504 | 10.474 | 111L | 13.250 | 13.220 |
| 20L | 2.387 | 2.357 | 43L | 5.133 | 5.103 | 66L | 7.878 | 7.848 | 89L | 10.624 | 10.594 | 112L | 13.369 | 13.339 |
| 21L | 2.507 | 2.477 | 44L | 5.252 | 5.222 | 67L | 7.998 | 7.968 | 90L | 10.743 | 10.713 | 113L | 13.488 | 13.458 |
| 22L | 2.626 | 2.596 | 45L | 5.371 | 5.341 | 68L | 8.117 | 8.087 | 91L | 10.862 | 10.832 | 114L | 13.608 | 13.578 |
| 23L | 2.745 | 2.715 | 46L | 5.491 | 5.461 | 69L | 8.236 | 8.206 | 92L | 10.982 | 10.952 | 115L | 13.727 | 13.697 |
| 24L | 2.865 | 2.835 | 47L | 5.610 | 5.580 | 70L | 8.356 | 8.326 | 93L | 11.101 | 11.071 | 116L | 13.846 | 13.816 |
| 25L | 2.984 | 2.954 | 48L | 5.730 | 5.700 | 71L | 8.475 | 8.445 | 94L | 11.220 | 11.190 | 117L | 13.966 | 13.936 |
| 26L | 3.104 | 3.074 | 49L | 5.849 | 5.819 | 72L | 8.594 | 8.564 | 95L | 11.340 | 11.310 | 118L | 14.085 | 14.055 |
| 27L | 3.223 | 3.193 | 50L | 5.968 | 5.938 | 73L | 8.714 | 8.684 | 96L | 11.459 | 11.429 | 119L | 14.205 | 14.175 |
| 28L | 3.342 | 3.312 | 51L | 6.088 | 6.058 | 74L | 8.833 | 8.803 | 97L | 11.579 | 11.549 | 120L | 14.324 | 14.294 |
| 29L | 3.462 | 3.432 | 52L | 6.207 | 6.177 | 75L | 8.952 | 8.922 | 98L | 11.698 | 11.668 | 130L | 15.518 | 15.488 |
| 30L | 3.581 | 3.551 | 53L | 6.326 | 6.296 | 76L | 9.072 | 9.042 | 99L | 11.817 | 11.787 | 140L | 16.711 | 16.681 |
| 31L | 3.700 | 3.670 | 54L | 6.446 | 6.416 | 77L | 9.191 | 9.161 | 100L | 11.937 | 11.907 | 150L | 17.905 | 17.875 |
| 32L | 3.820 | 3.790 | 55L | 6.565 | 6.535 | 78L | 9.311 | 9.261 | 101L | 12.056 | 12.026 | | | |

# Timing Pulley Diameters

## H - 1/2" Pitch

| No. Teeth | Diameter | | No. Teeth | Diameter | | No. Teeth | Diameter | | No. Teeth | Diameter | | No. Teeth | Diameter | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | P.D. | O.D. | | P.D. | O.D. | | P.D. | O.D. | | P.D. | O.D. | | P.D. | O.D. |
| 15H | 2.387 | 2.333 | 35H | 5.570 | 5.516 | 55H | 8.754 | 8.700 | 75H | 11.937 | 11.883 | 95H | 15.120 | 15.066 |
| 16H | 2.546 | 2.492 | 36H | 5.730 | 5.676 | 56H | 8.913 | 8.859 | 76H | 12.096 | 12.042 | 96H | 15.225 | 15.171 |
| 17H | 2.706 | 2.652 | 37H | 5.889 | 5.835 | 57H | 9.072 | 9.018 | 77H | 12.255 | 12.201 | 97H | 15.438 | 15.384 |
| 18H | 2.865 | 2.811 | 38H | 6.048 | 5.994 | 58H | 9.231 | 9.177 | 78H | 12.414 | 12.360 | 98H | 15.597 | 15.543 |
| 19H | 3.024 | 2.970 | 39H | 6.207 | 6.153 | 59H | 9.390 | 9.336 | 79H | 12.573 | 12.519 | 99H | 15.756 | 15.702 |
| 20H | 3.183 | 3.129 | 40H | 6.366 | 6.312 | 60H | 9.549 | 9.495 | 80H | 12.732 | 12.678 | 100H | 15.915 | 15.861 |
| 21H | 3.342 | 3.288 | 41H | 6.525 | 6.471 | 61H | 9.708 | 9.654 | 81H | 12.892 | 12.848 | 102H | 16.234 | 16.180 |
| 22H | 3.501 | 3.447 | 42H | 6.685 | 6.631 | 62H | 9.868 | 9.814 | 82H | 13.051 | 12.997 | 104H | 16.552 | 16.498 |
| 23H | 3.661 | 3.607 | 43H | 6.844 | 6.790 | 63H | 10.027 | 9.973 | 83H | 13.210 | 13.156 | 106H | 16.870 | 16.816 |
| 24H | 3.820 | 3.766 | 44H | 7.003 | 6.949 | 64H | 10.186 | 10.132 | 84H | 13.369 | 13.315 | 108H | 17.189 | 17.135 |
| 25H | 3.979 | 3.925 | 45H | 7.162 | 7.108 | 65H | 10.345 | 10.291 | 85H | 13.528 | 13.474 | 110H | 17.507 | 17.453 |
| 26H | 4.138 | 4.084 | 46H | 7.321 | 7.267 | 66H | 10.504 | 10.450 | 86H | 13.687 | 13.633 | 115H | 18.303 | 18.249 |
| 27H | 4.297 | 4.243 | 47H | 7.480 | 7.426 | 67H | 10.663 | 10.609 | 87H | 13.846 | 13.792 | 120H | 19.099 | 19.045 |
| 28H | 4.456 | 4.402 | 48H | 7.639 | 7.585 | 68H | 10.823 | 10.769 | 88H | 14.005 | 13.952 | 125H | 19.894 | 19.840 |
| 29H | 4.615 | 4.561 | 49H | 7.799 | 7.745 | 69H | 10.982 | 10.928 | 89H | 14.165 | 14.111 | 130H | 20.690 | 20.636 |
| 30H | 4.775 | 4.721 | 50H | 7.958 | 7.904 | 70H | 11.141 | 11.087 | 90H | 14.324 | 14.270 | 135H | 21.486 | 21.432 |
| 31H | 4.934 | 4.880 | 51H | 8.117 | 8.063 | 71H | 11.300 | 11.246 | 91H | 14.483 | 14.429 | 140H | 22.282 | 22.228 |
| 32H | 5.093 | 5.039 | 52H | 8.276 | 8.222 | 72H | 11.459 | 11.405 | 92H | 14.642 | 14.588 | 145H | 23.077 | 23.023 |
| 33H | 5.252 | 5.198 | 53H | 8.435 | 8.381 | 73H | 11.618 | 11.564 | 93H | 14.801 | 14.747 | 150H | 23.873 | 23.819 |
| 34H | 5.411 | 5.357 | 54H | 8.594 | 8.540 | 74H | 11.777 | 11.723 | 94H | 14.961 | 14.907 | 156H | 24.828 | 24.774 |

## XH - 7/8" Pitch

| No. Teeth | Diameter | | No. Teeth | Diameter | | No. Teeth | Diameter | | No. Teeth | Diameter | | No. Teeth | Diameter | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | P.D. | O.D. | | P.D. | O.D. | | P.D. | O.D. | | P.D. | O.D. | | P.D. | O.D. |
| 18XH | 5.013 | 4.903 | 45XH | 12.533 | 12.423 | 70XH | 19.496 | 19.386 | 95XH | 26.460 | 26.350 | 120XH | 33.423 | 33.313 |
| 20XH | 5.570 | 5.460 | 46XH | 12.812 | 12.702 | 71XH | 19.776 | 19.666 | 96XH | 26.738 | 26.628 | 122XH | 33.980 | 33.870 |
| 22XH | 6.127 | 6.017 | 47XH | 13.091 | 12.981 | 72XH | 20.054 | 19.944 | 97XH | 27.017 | 26.907 | 124XH | 34.537 | 34.427 |
| 23XH | 6.406 | 6.296 | 48XH | 13.369 | 13.259 | 73XH | 20.332 | 20.222 | 98XH | 27.295 | 27.185 | 126XH | 35.094 | 34.984 |
| 24XH | 6.685 | 6.575 | 49XH | 13.648 | 13.538 | 74XH | 20.611 | 20.501 | 99XH | 27.574 | 27.464 | 128XH | 35.651 | 35.541 |
| 25XH | 6.963 | 6.853 | 50XH | 13.926 | 13.816 | 75XH | 20.889 | 20.779 | 100XH | 27.852 | 27.742 | 130XH | 36.208 | 36.098 |
| 26XH | 7.242 | 7.132 | 51XH | 14.205 | 14.095 | 76XH | 21.168 | 21.058 | 101XH | 28.131 | 28.021 | 132XH | 36.765 | 36.655 |
| 27XH | 7.520 | 7.410 | 52XH | 14.483 | 14.373 | 77XH | 21.446 | 21.336 | 102XH | 28.409 | 28.299 | 134XH | 37.322 | 37.212 |
| 28XH | 7.799 | 7.689 | 53XH | 14.762 | 14.652 | 78XH | 21.725 | 21.615 | 103XH | 28.688 | 28.578 | 136XH | 37.879 | 37.769 |
| 29XH | 8.077 | 7.967 | 54XH | 15.140 | 14.930 | 79XH | 21.003 | 21.893 | 104XH | 28.966 | 28.856 | 138XH | 38.436 | 38.326 |
| 30XH | 8.356 | 8.246 | 55XH | 15.319 | 15.209 | 80XH | 22.282 | 22.172 | 105XH | 29.245 | 29.135 | 140XH | 38.993 | 38.883 |
| 31XH | 8.634 | 8.524 | 56XH | 15.597 | 15.487 | 81XH | 22.560 | 22.450 | 106XH | 29.523 | 29.413 | 142XH | 39.550 | 39.440 |
| 32XH | 8.913 | 8.803 | 57XH | 15.876 | 15.766 | 82XH | 22.839 | 22.729 | 107XH | 29.802 | 29.682 | 144XH | 40.107 | 39.997 |
| 33XH | 9.191 | 9.081 | 58XH | 16.154 | 16.044 | 83XH | 23.118 | 23.008 | 108XH | 30.080 | 29.970 | 146XH | 40.664 | 40.554 |
| 34XH | 9.470 | 9.360 | 59XH | 16.433 | 16.323 | 84XH | 23.396 | 23.286 | 109XH | 30.359 | 30.249 | 150XH | 41.778 | 41.668 |
| 35XH | 9.748 | 9.638 | 60XH | 16.711 | 16.601 | 85XH | 23.674 | 23.564 | 110XH | 30.637 | 30.527 | | | |
| 36XH | 10.027 | 9.917 | 61XH | 16.990 | 16.880 | 86XH | 23.953 | 23.843 | 111XH | 30.916 | 30.806 | | | |
| 37XH | 10.305 | 10.195 | 62XH | 17.268 | 17.158 | 87XH | 24.231 | 24.121 | 112XH | 31.194 | 31.084 | | | |
| 38XH | 10.584 | 10.474 | 63XH | 17.547 | 17.437 | 88XH | 24.510 | 24.400 | 113XH | 31.473 | 31.363 | | | |
| 39XH | 10.862 | 10.752 | 64XH | 17.825 | 17.715 | 89XH | 24.788 | 24.678 | 114XH | 31.751 | 31.641 | | | |
| 40XH | 11.141 | 11.031 | 65XH | 18.104 | 17.994 | 90XH | 25.067 | 24.957 | 115XH | 32.030 | 31.920 | | | |
| 41XH | 11.419 | 11.309 | 66XH | 18.382 | 18.272 | 91XH | 25.345 | 25.235 | 116XH | 32.308 | 32.198 | | | |
| 42XH | 11.698 | 11.588 | 67XH | 18.661 | 18.551 | 92XH | 25.624 | 25.514 | 117XH | 32.587 | 32.477 | | | |
| 43XH | 11.976 | 11.866 | 68XH | 18.939 | 18.829 | 93XH | 25.902 | 25.792 | 118XH | 32.665 | 32.755 | | | |
| 44XH | 12.255 | 12.145 | 69XH | 19.218 | 19.108 | 94XH | 26.181 | 26.071 | 119XH | 33.145 | 33.035 | | | |

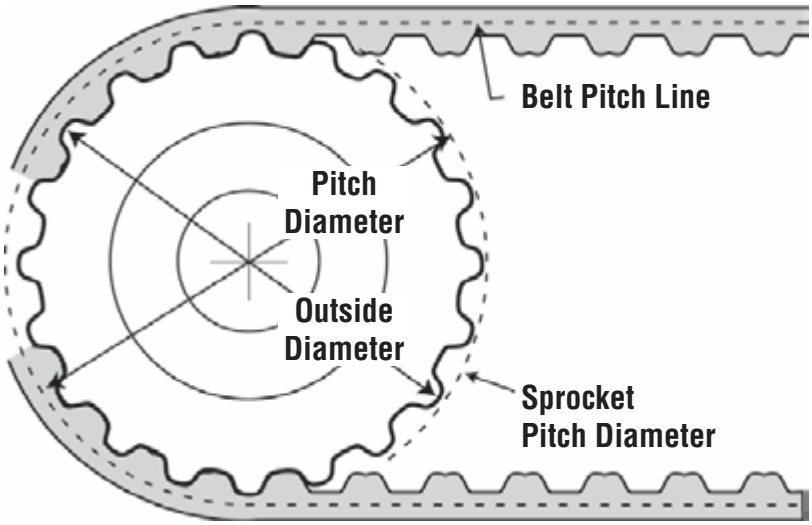
## Outside Diameter Tolerances

| Pulley Dia. | O.D. Tolerance | Pulley Dia. | O.D. Tolerance | Pulley Dia. | O.D. Tolerance | Pulley Dia. | O.D. Tolerance |
|---|---|---|---|---|---|---|---|
| 0 - 1" | +.002<br>- | 2.001" - 4" | +.004<br>- | 7.001" - 12" | +.006<br>- | 20.001 UP | +.008<br>- |
| 1" - 2" | +.003<br>- | 4.001" - 7" | +.005<br>- | 12.001" - 20" | +.007<br>- | | |

# Stock HTS® Sprockets

## Features of HTS® Drives

- Positive slip proof engagement
- Wide speed range
- Constant driven speeds
- Wide range of load capabilities
- No lubrication
- High tension eliminated
- High mechanical efficiency
- Economical operation




## HTS® High Torque Sprockets

- RPP® tooth profile
- Available in 5mm, 8mm, 14mm & 20mm pitch
- Stocked in QD, MST® and taper bush interchangeable bushing styles, as well as stock bore.

RPP® is a registered trademark of Carlisle Power Transmission.

# HTS®
# Drive Specification

Martin HTS sprockets are manufactured in various sizes, dimensions and capacities to meet industry requirements. This includes a wide range of loads, speeds, and demanding applications.

The following is an explanation of dimensional nomenclature for Martin HTS sprockets as well as belts currently available that will operate efficiently with the Martin tooth form.

The HTS sprocket has three primary dimensions:

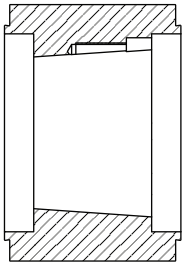
- Number of teeth
- Pitch
- Width

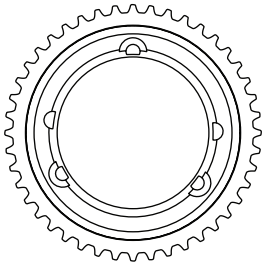
The pitch is the distance in millimeters from the center of one tooth groove to the other and is measured on the sprocket's pitch circle. The pitch circle of the sprocket matches with the pitch line of the belt when in mesh. The sprocket pitch diameter is always greater than its outer diameter.

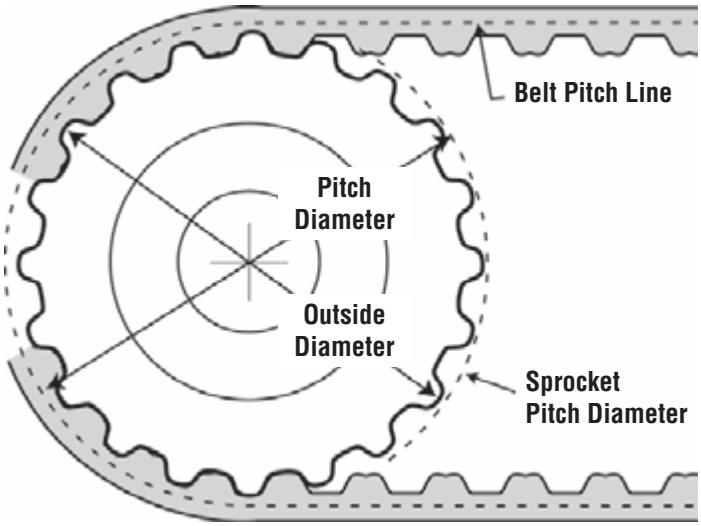
**Note**: Belts must be run with sprockets of the same pitch.

As with the sprocket specifications, belt pitch is the measure between two adjacent tooth centers which is measured on the pitch line of the belt.

**Note:** The theoretical pitch line is within the tensile member. Belt length is the total length (circumference) in millimeters as could be measured along the pitch line.








**P 30 14M 55 - SK**

- **HTS®**
- **Number of Teeth**
- **Belt Pitch**
- **Belt Width (mm)**
- **Bushing or MPB**

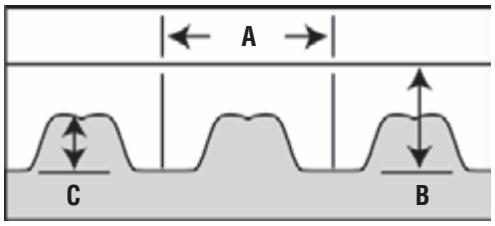
| Belt Pitch | Belt Width (mm) |
|---|---|
| 5mm | 15, 25 |
| 8mm | 20, 30, 50, 85 |
| 14mm | 40, 55, 85, 115, 170 |
| 20mm | 115, 170, 230, 290, 340 |

"P" HTS sprockets (RPP® tooth profile) - run with RPP®, RPP® Plus®, Hawk Pd®, & HTD® belts.

"P" HTS sprockets are designed to run with fiberglass corded belts.

- Available in 5mm, 8mm, 14mm, 20mm pitches
- Belt widths:

15mm, 25mm (5mm pitch)
20mm, 30mm, 50mm, 85mm (8mm pitch)
40mm, 55mm, 85mm, 115mm, 170mm (14mm pitch)
115mm, 170mm, 230mm, 290mm, 340mm (20mm pitch)

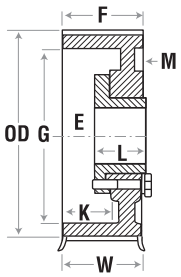



| Belt Pitch | A | B | C |
|---|---|---|---|
| 5 mm | 5 mm<br>**.197 in** | 3.81 mm<br>**.150 in** | 2.08 mm<br>**.082 in** |
| 8 mm | 8 mm<br>**.315 in** | 6 mm<br>**.236 in** | 3.4 mm<br>**.133 in** |
| 14 mm | 14 mm<br>**.552 in** | 10 mm<br>**.394 in** | 6.0 mm<br>**.237 in** |
| 20 mm | 20 mm<br>**.784 in** | 13.2 mm<br>**.520 in** | 8.4 mm<br>**.330 in** |

Hawk Pd® is a registered trademarks of Goodyear.
RPP® and RPP® Plus® are registered trademarks of Carlisle Power Transmission. HTS® is a registered trademark of Gates Corporation.

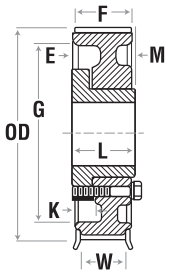
# High Torque Sprockets
# 5mm

Type B



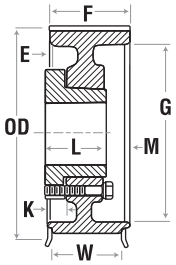

Type BF

Type C



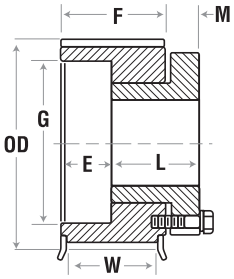

Type CF

Type D



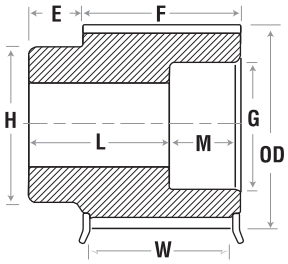

Type DF

Type E •




Type EF •

Type D
(MPB Only)




Type DF
(MPB Only)

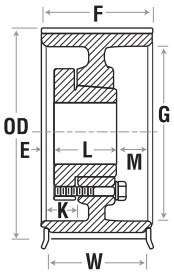
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter O.D. | Diameter Flange | Type + | Max Bore | Dimensions E | L | M | K | H | F | G | W | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPB 15mm (.591 in.) Wide Belts (5M-15)** | | | | | | | | | | | | | | | | |
| 32 | P325M15-MPB | 0.5 | 2.005 | 1.960 | 2.16 | DF-1 | 0.88 | 0.50 | 1.73 | — | — | 1.55 | 0.84 | — | 0.65 | 1.12 |
| 34 | P345M15-MPB | 0.5 | 2.130 | 2.085 | 2.29 | DF-1 | 1.00 | 0.50 | 1.73 | — | — | 1.68 | 0.84 | — | 0.65 | 1.25 |
| 36 | P365M15-MPB | 0.5 | 2.256 | 2.211 | 2.41 | DF-1 | 1.12 | 0.50 | 1.73 | — | — | 1.80 | 0.84 | — | 0.65 | 1.39 |
| **QD 15mm (.591in.) Wide Belts (5M-15)** | | | | | | | | | | | | | | | | |
| 38 | P385M15-JA | JA | 2.381 | 2.336 | 2.54 | • EF-1 | 1.25 | 0.67 | 1.00 | 0.44 | — | — | 0.84 | 1.34 | 0.65 | 0.80 |
| 40 | P405M15-JA | JA | 2.506 | 2.461 | 2.66 | • EF-1 | 1.25 | 0.67 | 1.00 | 0.44 | — | — | 0.84 | 1.34 | 0.65 | 1.06 |
| 44 | P445M15-JA | JA | 2.757 | 2.712 | 2.91 | • EF-1 | 1.25 | 0.67 | 1.00 | 0.44 | — | — | 0.84 | 1.34 | 0.65 | 1.40 |
| 48 | P485M15-JA | JA | 3.008 | 2.963 | 3.16 | BF-1 | 1.25 | 0.23 | 1.00 | 0.00 | 0.67 | — | 0.84 | 2.36 | 0.65 | 1.20 |
| 52 | P525M15-JA | JA | 3.258 | 3.213 | 3.41 | BF-1 | 1.25 | 0.23 | 1.00 | 0.00 | 0.67 | — | 0.84 | 2.62 | 0.65 | 1.43 |
| 56 | P565M15-SH | SH | 3.509 | 3.464 | 3.66 | DF-1 | 1.68 | 0.08 | 1.25 | 0.06 | 0.42 | — | 0.84 | 2.86 | 0.65 | 1.64 |
| 60 | P605M15-SH | SH | 3.760 | 3.715 | 3.92 | DF-1 | 1.68 | 0.08 | 1.25 | 0.06 | 0.42 | — | 0.84 | 3.12 | 0.65 | 1.83 |
| 64 | P645M15-SH | SH | 4.010 | 3.965 | 4.16 | DF-1 | 1.68 | 0.08 | 1.25 | 0.06 | 0.42 | — | 0.84 | 3.37 | 0.65 | 2.16 |
| 68 | P685M15-SDS | SDS | 4.261 | 4.216 | 4.41 | CF-1 | 2.00 | 0.08 | 1.31 | 0.00 | 0.48 | — | 0.84 | 3.50 | 0.65 | 2.48 |
| 72 | P725M15-SDS | SDS | 4.511 | 4.466 | 4.66 | CF-1 | 2.00 | 0.08 | 1.31 | 0.00 | 0.48 | — | 0.84 | 3.75 | 0.65 | 2.84 |
| 80 | P805M15-SDS | SDS | 5.013 | 4.968 | — | C-1 | 2.00 | 0.08 | 1.31 | 0.00 | 0.48 | — | 0.84 | 4.25 | 0.65 | 3.61 |
| 90 | P905M15-SDS | SDS | 5.639 | 5.594 | — | C-1 | 2.00 | 0.08 | 1.31 | 0.00 | 0.48 | — | 0.84 | 4.88 | 0.65 | 4.69 |
| 112 | P1125M15-SDS | SDS | 7.018 | 6.973 | — | C-2 | 2.00 | 0.08 | 1.31 | 0.00 | 0.48 | — | 0.84 | 6.05 | 0.65 | 6.02 |
| **MPB 25mm (.984in.) Wide Belts (5M-25)** | | | | | | | | | | | | | | | | |
| 32 | P325M25-MPB | 0.5 | 2.005 | 1.960 | 2.16 | DF-1 | 0.88 | 0.50 | 1.34 | — | — | 1.55 | 1.23 | — | 1.04 | 0.84 |
| 34 | P345M25-MPB | 0.5 | 2.130 | 2.085 | 2.29 | DF-1 | 1.00 | 0.50 | 1.34 | — | — | 1.68 | 1.23 | — | 1.04 | 0.93 |
| 36 | P365M25-MPB | 0.5 | 2.256 | 2.211 | 2.41 | DF-1 | 1.12 | 0.50 | 1.34 | — | — | 1.80 | 1.23 | — | 1.04 | 1.03 |
| **QD 25mm (.984in.) Wide Belts (5M-25)** | | | | | | | | | | | | | | | | |
| 38 | P385M25-JA | JA | 2.381 | 2.336 | 2.54 | • EF-1 | 1.25 | 0.28 | 1.00 | 0.44 | — | — | 1.23 | 1.34 | 1.04 | 0.61 |
| 40 | P405M25-JA | JA | 2.506 | 2.461 | 2.66 | • EF-1 | 1.25 | 0.28 | 1.00 | 0.44 | — | — | 1.23 | 1.34 | 1.04 | 0.72 |
| 44 | P445M25-JA | JA | 2.757 | 2.712 | 2.91 | • EF-1 | 1.25 | 0.28 | 1.00 | 0.44 | — | — | 1.23 | 1.34 | 1.04 | 0.95 |
| 48 | P485M25-JA | JA | 3.008 | 2.963 | 3.16 | CF-1 | 1.25 | 0.16 | 1.00 | 0.00 | 0.28 | — | 1.23 | 2.36 | 1.04 | 0.97 |
| 52 | P525M25-JA | JA | 3.258 | 3.213 | 3.41 | CF-1 | 1.25 | 0.16 | 1.00 | 0.00 | 0.28 | — | 1.23 | 2.62 | 1.04 | 1.17 |
| 56 | P565M25-SH | SH | 3.509 | 3.464 | 3.66 | DF-1 | 1.68 | 0.50 | 1.25 | 0.09 | 0.00 | — | 1.23 | — | 1.04 | 1.37 |
| 60 | P605M25-SH | SH | 3.760 | 3.715 | 3.92 | DF-1 | 1.68 | 0.50 | 1.25 | 0.09 | 0.00 | — | 1.23 | — | 1.04 | 1.68 |
| 64 | P645M25-SH | SH | 4.010 | 3.965 | 4.16 | DF-1 | 1.68 | 0.50 | 1.25 | 0.09 | 0.00 | — | 1.23 | — | 1.04 | 1.80 |
| 68 | P685M25-SDS | SDS | 4.261 | 4.216 | 4.41 | CF-1 | 2.00 | 0.47 | 1.31 | 0.00 | 0.09 | — | 1.23 | 3.50 | 1.04 | 2.10 |
| 72 | P725M25-SDS | SDS | 4.511 | 4.466 | 4.66 | CF-1 | 2.00 | 0.47 | 1.31 | 0.00 | 0.09 | — | 1.23 | 3.75 | 1.04 | 2.43 |
| 80 | P805M25-SDS | SDS | 5.013 | 4.968 | — | C-1 | 2.00 | 0.47 | 1.31 | 0.00 | 0.09 | — | 1.23 | 4.25 | 1.04 | 3.15 |
| 90 | P905M25-SDS | SDS | 5.639 | 5.594 | — | C-1 | 2.00 | 0.47 | 1.31 | 0.00 | 0.09 | — | 1.23 | 4.88 | 1.04 | 4.17 |
| 112 | P1125M25-SDS | SDS | 7.018 | 6.973 | — | C-1 | 2.00 | 0.47 | 1.31 | 0.00 | 0.09 | — | 1.23 | 6.05 | 1.04 | 5.16 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

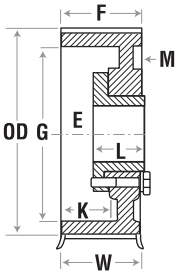
# High Torque Sprockets 8mm

Type A



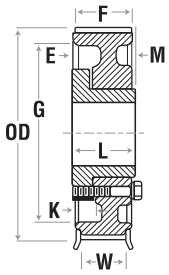

Type AF

Type B



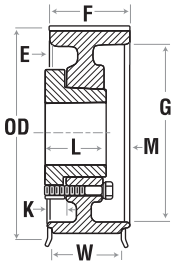

Type BF

Type C



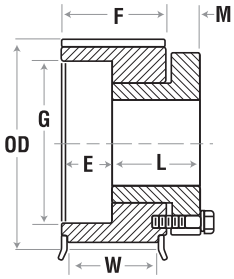

Type CF

Type D



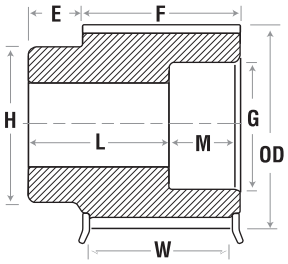

Type DF

Type E •




Type EF •

Type D (MPB Only)




Type DF (MPB Only)

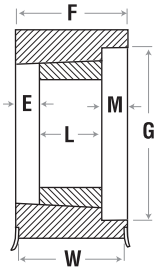
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter O.D. | Diameter Flange | Type + | Max Bore | Dimensions E | Dimensions L | Dimensions M | Dimensions K | Dimensions H | Dimensions F | Dimensions G | Dimensions W | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPB 20mm (.787 in.) Wide Belts (8M-20)** | | | | | | | | | | | | | | | | |
| 20 | P208M20-MPB | 1/2 | 2.005 | 1.951 | 2.375 | DF-1 | 0.875 | 0.625 | 1.75 | — | — | 1.375 | 1.125 | — | 0.875 | .90 |
| 21 | P218M20-MPB | 1/2 | 2.105 | 2.051 | 2.468 | DF-1 | 1 | 0.625 | 1.75 | — | — | 1.5 | 1.125 | — | 0.875 | 1.00 |
| 22 | P228M20-MPB | 1/2 | 2.206 | 2.152 | 2.562 | DF-1 | 1.1875 | 0.625 | 1.75 | — | — | 1.625 | 1.125 | — | 0.875 | 1.60 |
| **QD 20mm (.787 in.) Wide Belts (8M-20)** | | | | | | | | | | | | | | | | |
| 24 | P248M20-JA | JA | 2.406 | 2.352 | 2.750 | • EF-1 | 1.25 | 0.5625 | 1.0625 | 0.44 | — | — | 1.125 | 1.34 | 0.875 | 1.50 |
| 26 | P268M20-JA | JA | 2.607 | 2.553 | 2.937 | • EF-1 | 1.250 | 0.5625 | 1.0625 | 0.4375 | — | — | 1.125 | 1.34 | 0.875 | 1.80 |
| 34 | P348M20-SH | SH | 3.409 | 3.355 | 3.750 | DF-1 | 1.6875 | 0.1875 | 1.25 | 0.0625 | 0.3125 | — | 1.125 | 2.75 | 0.875 | 2.20 |
| 36 | P368M20-SH | SH | 3.609 | 3.555 | 3.937 | DF-1 | 1.6875 | 0.1875 | 1.25 | 0.0625 | 0.3125 | — | 1.125 | 2.82 | 0.875 | 2.50 |
| 38 | P388M20-SH | SH | 3.810 | 3.756 | 4.156 | DF-1 | 1.6875 | 0.1875 | 1.25 | 0.0625 | 0.3125 | — | 1.125 | 3 | 0.875 | 2.80 |
| 40 | P408M20-SH | SH | 4.010 | 3.956 | 4.344 | DF-1 | 1.6875 | 0.1875 | 1.25 | 0.0625 | 0.3125 | — | 1.125 | 3 | 0.875 | 3.00 |
| 44 | P448M20-SDS | SDS | 4.411 | 4.357 | 4.750 | CF-1 | 2 | 0.1875 | 1.25 | — | 0.375 | — | 1.125 | 3.5 | 0.875 | 3.20 |
| 48 | P488M20-SDS | SDS | 4.812 | 4.758 | 5.157 | CF-1 | 2 | 0.1875 | 1.3125 | — | 0.375 | — | 1.125 | 3.8 | 0.875 | 3.40 |
| 56 | P568M20-SDS | SDS | 5.614 | 5.560 | 5.937 | CF-1 | 2 | 0.1875 | 1.3125 | — | 0.375 | — | 1.125 | 4.6 | 0.875 | 4.50 |
| 64 | P648M20-SDS | SDS | 6.416 | 6.362 | 6.750 | CF-1 | 2 | 0.1875 | 1.3125 | — | 0.375 | — | 1.125 | 5.4 | 0.875 | 5.50 |
| 72 | P728M20-SDS | SDS | 7.218 | 7.164 | 7.562 | CF-1 | 2 | 0.1875 | 1.3125 | — | 0.375 | — | 1.125 | 6.2 | 0.875 | 6.00 |
| 80 | P808M20-SDS | SDS | 8.020 | 7.966 | 8.375 | CF-2 | 2 | 0.1875 | 1.3125 | — | 0.375 | — | 1.125 | 6.9 | 0.875 | 6.50 |
| 90 | P908M20-SDS | SDS | 9.023 | 8.969 | — | C-2 | 2 | 0.1875 | 1.3125 | — | 0.375 | — | 1.125 | 7.62 | — | 7.00 |
| 112 | P1128M20-SK | SK | 11.229 | 11.175 | — | C-3 | 2.625 | 0.75 | 1.9375 | 0.0625 | 0.0625 | — | 1.125 | 9.87 | — | 10.50 |
| 144 | P1448M20-SF | SF | 14.447 | 14.388 | — | C-3 | 2.9375 | 0.75 | 2.0625 | 0.0625 | 0.0625 | — | 1.125 | 12.88 | — | 14.50 |
| **MST® 20mm (.787 in.) Wide Belts (8M-20)** | | | | | | | | | | | | | | | | |
| 28 | P288M20-H | H | 2.807 | 2.753 | 3.156 | • EF-1 | 1.375 | 0.25 | 1.25 | 0.375 | — | — | 1.125 | 1.57 | 0.875 | 1.40 |
| 30 | P308M20-H | H | 3.008 | 2.954 | 3.344 | • EF-1 | 1.375 | 0.25 | 1.25 | 0.375 | — | — | 1.125 | 1.57 | 0.875 | 1.90 |
| 32 | P328M20-H | H | 3.208 | 3.154 | 3.562 | CF-1 | 1.375 | 0.125 | 1.25 | — | 0.25 | — | 1.125 | 2.56 | 0.875 | 2.00 |
| **Taper Bushed 20mm (.787 in.) Wide Belts (8M-20)** | | | | | | | | | | | | | | | | |
| 24 | P248M20-1108 | 1108 | 2.406 | 2.352 | 2.75 | KF-1 | 1 | 0.0625 | 0.875 | 0.1875 | — | — | 1.125 | 1.783 | 0.875 | .7 |
| 26 | P268M20-1108 | 1108 | 2.607 | 2.553 | 2.94 | KF-1 | 1 | 0.0625 | 0.875 | 0.1875 | — | — | 1.125 | 1.971 | 0.875 | .9 |
| 28 | P288M20-1108 | 1108 | 2.807 | 2.753 | 3.16 | KF-1 | 1 | 0.0625 | 0.875 | 0.1875 | — | — | 1.125 | 2 | 0.875 | 1.2 |
| 30 | P308M20-1210 | 1210 | 3.008 | 2.954 | 3.34 | KF-1 | 1.25 | 0.125 | 1 | — | — | — | 1.125 | — | 0.875 | 1.2 |
| 32 | P328M20-1210 | 1210 | 3.208 | 3.154 | 3.56 | KF-1 | 1.25 | 0.125 | 1 | — | — | — | 1.125 | — | 0.875 | 1.4 |
| 34 | P348M20-1610 | 1610 | 3.409 | 3.355 | 3.75 | KF-1 | 1.6875 | 0.125 | 1 | — | — | — | 1.125 | — | 0.875 | 1.4 |
| 36 | P368M20-1610 | 1610 | 3.609 | 3.555 | 3.94 | KF-1 | 1.6875 | 0.125 | 1 | — | — | — | 1.125 | — | 0.875 | 1.7 |
| 38 | P388M20-1610 | 1610 | 3.810 | 3.756 | 4.16 | KF-1 | 1.6875 | 0.125 | 1 | — | — | — | 1.125 | — | 0.875 | 2.0 |
| 40 | P408M20-1610 | 1610 | 4.010 | 3.956 | 4.34 | KF-1 | 1.6875 | 0.125 | 1 | — | — | — | 1.125 | — | 0.875 | 2.4 |
| 44 | P448M20-2012 | 2012 | 4.411 | 4.357 | 4.75 | CF-1 | 2.125 | — | 1.25 | 0.125 | — | 3.8438 | 1.125 | — | 0.875 | 2.6 |
| 48 | P488M20-2012 | 2012 | 4.812 | 4.758 | 5.16 | CF-1 | 2.125 | — | 1.25 | 0.125 | — | 3.875 | 1.125 | — | 0.875 | 3.4 |
| 56 | P568M20-2012 | 2012 | 5.614 | 5.560 | 5.94 | CF-1 | 2.125 | — | 1.25 | 0.125 | — | 3.875 | 1.125 | — | 0.875 | 5.3 |
| 64 | P648M20-2012 | 2012 | 6.416 | 6.362 | 6.75 | CF-1 | 2.125 | — | 1.25 | 0.125 | — | 4.375 | 1.125 | — | 0.875 | 7.5 |
| 72 | P728M20-2012 | 2012 | 7.218 | 7.164 | 7.56 | CF-1 | 2.125 | — | 1.25 | 0.125 | — | 4.375 | 1.125 | — | 0.875 | 9.9 |
| 80 | P808M20-2517 | 2517 | 8.020 | 7.966 | 8.38 | CF-2 | 2.6875 | — | 1.75 | 0.625 | — | 4.875 | 1.125 | 6.9 | 0.875 | 11.9 |
| 90 | P908M20-2517 | 2517 | 9.023 | 8.969 | — | C-2 | 2.6875 | — | 1.75 | 0.625 | — | — | 1.125 | 7.63 | — | 12.9 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

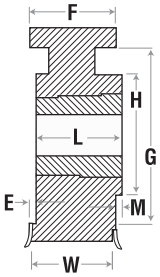
# High Torque Sprockets
# 8mm

Type K



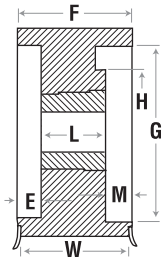

Type KF

Type B



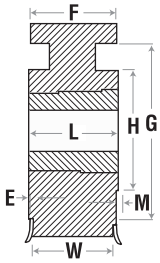

Type BF

Type W




Type WF

Type C




Type CF

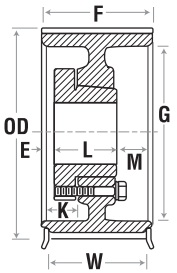
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter | | Type + | Max Bore | Dimensions | | | | | | | | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | O.D. | Flange | | | E | L | M | K | H | F | G | W | |
| **MPB 30mm (1.18in.) Wide Belts (8M-30)** | | | | | | | | | | | | | | | | |
| 20 | P208M30-MPB | 0.5 | 2.005 | 1.951 | 2.375 | DF-1 | 0.875 | 0.625 | 2.125 | — | — | 1.375 | 1.5 | — | 1.125 | 1.10 |
| 21 | P218M30-MPB | 0.5 | 2.105 | 2.051 | 2.468 | DF-1 | 1 | 0.625 | 2.125 | — | — | 1.5 | 1.5 | — | 1.125 | 1.30 |
| 22 | P228M30-MPB | 0.5 | 2.206 | 2.152 | 2.562 | DF-1 | 1.1875 | 0.625 | 2.125 | — | — | 1.625 | 1.5 | — | 1.25 | 1.40 |
| 24 | P248M30-MPB | 0.5 | 2.406 | 2.352 | 2.750 | DF-1 | 1.25 | 0.625 | 2.125 | — | — | 1.8125 | 1.5 | — | 1.25 | 1.80 |
| 26 | P268M30-MPB | 0.5 | 2.607 | 2.553 | 2.937 | DF-1 | 1.25 | 0.75 | 2.25 | — | — | 2 | 1.5 | — | 1.25 | 2.20 |
| **QD 30mm (1.18in.) Wide Belts (8M-30)** | | | | | | | | | | | | | | | | |
| 34 | P348M30-SH | SH | 3.409 | 3.355 | 3.750 | AF-1 | 1.375 | 0.19 | 1.25 | .625 | .688 | — | 1.5 | 2.75 | 1.25 | 2.40 |
| 36 | P368M30-SH | SH | 3.609 | 3.555 | 3.937 | AF-1 | 1.688 | 0.1875 | 1.25 | .625 | .6875 | — | 1.5 | 2.82 | 1.25 | 2.80 |
| 38 | P388M30-SH | SH | 3.810 | 3.756 | 4.156 | AF-1 | 1.6875 | 0.1875 | 1.25 | .625 | .6875 | — | 1.5 | 3 | 1.25 | 3.20 |
| 40 | P408M30-SH | SH | 4.010 | 3.956 | 4.344 | AF-1 | 1.6875 | 0.1875 | 1.25 | .625 | .6875 | — | 1.5 | 3 | 1.25 | 3.60 |
| 44 | P448M30-SDS | SDS | 4.411 | 4.357 | 4.750 | BF-1 | 1.6875 | 0.1875 | 1.31 | — | .75 | — | 1.5 | 3.5 | 1.25 | 3.80 |
| 48 | P488M30-SDS | SDS | 4.812 | 4.758 | 5.157 | BF-1 | 2 | 0.1875 | 1.3125 | — | .75 | — | 1.5 | 3.8 | 1.25 | 4.20 |
| 56 | P568M30-SDS | SDS | 5.614 | 5.560 | 5.937 | BF-1 | 2 | 0.1875 | 1.3125 | — | .75 | — | 1.5 | 4.6 | 1.25 | 4.80 |
| 64 | P648M30-SK | SK | 6.416 | 6.362 | 6.750 | CF-1 | 2 | 0.375 | 1.875 | — | .25 | — | 1.5 | 5.4 | 1.25 | 6.10 |
| 72 | P728M30-SK | SK | 7.218 | 7.164 | 7.562 | CF-1 | 3 | 0.375 | 1.875 | — | .25 | — | 1.5 | 6.2 | 1.25 | 6.80 |
| 80 | P808M30-SK | SK | 8.020 | 7.966 | 8.375 | CF-2 | 2.625 | 0.375 | 1.875 | — | .25 | — | 1.5 | 6.9 | 1.25 | 7.50 |
| 90 | P908M30-SK | SK | 9.023 | 8.969 | — | C-2 | 2.625 | 0.375 | 1.875 | — | .25 | — | 1.5 | 7.6 | — | 11.00 |
| 112 | P1128M30-SK | SK | 11.229 | 11.175 | — | C-3 | 2.625 | 0.375 | 1.875 | — | .25 | — | 1.5 | 9.87 | — | 13.00 |
| 144 | P1448M30-SF | SF | 14.447 | 14.383 | — | C-3 | 2.938 | 0.563 | 2.063 | — | .25 | — | 1.5 | 12.88 | — | 25.50 |
| 192 | P1928M30-E | E | 19.249 | 19.195 | — | C-3 | — | 1.3125 | 2.625 | .625 | .6 | — | 1.5 | 17.63 | — | 30.00 |
| **MST® 30mm (1.18in.) Wide Belts (8M-30)** | | | | | | | | | | | | | | | | |
| 28 | P288M30-H | H | 2.807 | 2.753 | 3.156 | • EF-1 | 1.25 | 0.625 | 1.2500 | 0.3750 | — | — | 1.5 | 1.57 | 1.250 | 1.70 |
| 30 | P308M30-H | H | 3.008 | 2.954 | 3.344 | • EF-1 | 1.38 | 0.625 | 1.25 | .375 | — | — | 1.5 | 1.57 | 1.25 | 1.90 |
| 32 | P328M30-H | H | 3.208 | 3.154 | 3.562 | BF-1 | 1.375 | 0.25 | 1.25 | — | .625 | — | 1.5 | 2.56 | 1.25 | 2.10 |
| **Taper Bushed 30mm (1.18in.) Wide Belts (8M-30)** | | | | | | | | | | | | | | | | |
| 24 | P248M30-1108 | 1108 | 2.406 | 2.352 | 2.75 | KF-1 | 1 | 0.125 | 0.875 | .5 | — | — | 1.5 | 1.783 | 1.250 | .9 |
| 26 | P268M30-1108 | 1108 | 2.607 | 2.553 | 2.94 | KF-1 | 1 | 0.125 | 0.875 | .5 | — | — | 1.5 | 1.971 | 1.250 | 1.2 |
| 28 | P288M30-1108 | 1108 | 2.807 | 2.753 | 3.16 | KF-1 | 1 | 0.125 | 0.875 | .5 | — | — | 1.5 | 2 | 1.250 | 1.6 |
| 30 | P308M30-1210 | 1210 | 3.008 | 2.954 | 3.34 | KF-1 | 1.25 | 0.125 | 1 | 0.4 | — | — | 1.5 | 2.345 | 1.25 | 1.5 |
| 32 | P328M30-1210 | 1210 | 3.208 | 3.154 | 3.56 | KF-1 | 1.25 | 0.125 | 1 | 0.4 | — | — | 1.5 | 2.56 | 1.25 | 1.9 |
| 34 | P348M30-1610 | 1610 | 3.409 | 3.355 | 3.75 | KF-1 | 1.6875 | 0.125 | 1 | 0.4 | — | — | 1.5 | 3 | 1.25 | 2.3 |
| 36 | P368M30-1610 | 1610 | 3.609 | 3.555 | 3.94 | KF-1 | 1.69 | 0.125 | 1 | 0.375 | — | — | 1.5 | 2.82 | 1.25 | 2.2 |
| 38 | P388M30-1610 | 1610 | 3.810 | 3.756 | 4.16 | KF-1 | 1.69 | 0.125 | 1 | 0.375 | — | — | 1.5 | 3 | 1.25 | 2.7 |
| 40 | P408M30-2012 | 2012 | 4.010 | 3.956 | 4.34 | KF-1 | 2.125 | — | 1 | 0.25 | — | — | 1.5 | 3.25 | 1.25 | 2.4 |
| 44 | P448M30-2012 | 2012 | 4.411 | 4.357 | 4.75 | KF-1 | 2.125 | — | 1 | — | 0.25 | — | 1.5 | 3.5 | 1.25 | 3.4 |
| 48 | P488M30-2012 | 2012 | 4.812 | 4.758 | 5.16 | KF-1 | 2.125 | — | 1 | — | 0.25 | — | 1.5 | 4 | 1.25 | 4.5 |
| 56 | P568M30-2012 | 2012 | 5.614 | 5.560 | 5.94 | KF-1 | 2.125 | — | 1.25 | — | 0.25 | — | 1.5 | 4.6 | 1.25 | 7.0 |
| 64 | P648M30-2517 | 2517 | 6.416 | 6.362 | 6.75 | CF-1 | 2.6875 | — | 1.75 | — | 0.25 | 4.875 | 1.5 | — | 1.25 | 8.9 |
| 72 | P728M30-2517 | 2517 | 7.218 | 7.164 | 7.56 | CF-1 | 2.6875 | — | 1.75 | — | 0.25 | 4.875 | 1.5 | — | 1.25 | 12.1 |
| 80 | P808M30-2517 | 2517 | 8.020 | 7.966 | 8.38 | CF-2 | 2.6875 | — | 1.75 | — | 0.25 | 4.875 | 1.5 | — | 1.25 | 15.8 |
| 90 | P908M30-2517 | 2517 | 9.023 | 8.969 | — | C-2 | 2.6875 | 0.125 | 1.75 | — | 0.125 | 4.875 | 1.5 | 7.63 | — | 13.8 |
| 112 | P1128M30-2517 | 2517 | 11.229 | 11.175 | — | C-3 | 2.6875 | 0.125 | 1.75 | — | 0.125 | 4.875 | 1.5 | 9.88 | — | 23.5 |
| 144 | P1448M30-2517 | 2517 | 14.437 | 14.383 | — | C-3 | 2.6875 | 0.25 | 1.75 | — | — | 4.875 | 1.5 | 12.88 | — | 21.3 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

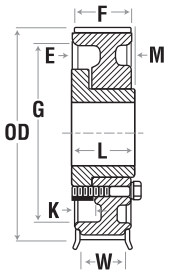
# High Torque Sprockets 8mm

Type A



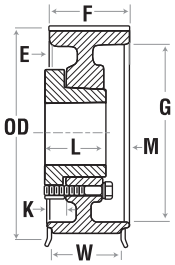

Type AF

Type C



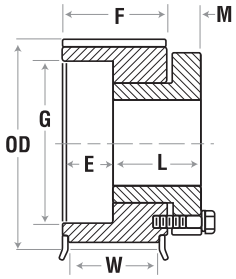

Type CF

Type D



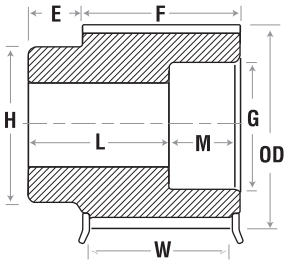

Type DF

Type E •




Type EF •

Type D (MPB Only)




Type DF (MPB Only)

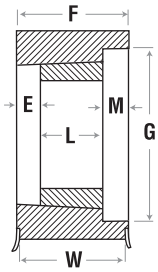
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter O.D. | Diameter Flange | Type + | Max Bore | Dimensions E | L | M | K | H | F | G | W | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPB 50mm (1.97 in.) Wide Belts (8M-50)** | | | | | | | | | | | | | | | | |
| 28 | P288M50-MPB | 0.5 | 2.807 | 2.753 | 3.156 | DF-1 | 1.25 | 0.75 | 3.125 | — | — | 0.9062 | 2.375 | — | 2.125 | 4.2 |
| 30 | P308M50-MPB | 0.5 | 3.008 | 2.954 | 3.344 | DF-1 | 1.25 | 0.75 | 3.125 | — | — | 2.4687 | 2.375 | — | 2.125 | 4.9 |
| 32 | P328M50-MPB | 0.5 | 3.208 | 3.154 | 3.562 | DF-1 | 1.625 | 0.75 | 3.125 | — | — | 2.5937 | 2.375 | — | 2.125 | 5.4 |
| **QD 50mm (1.97 in.) Wide Belts (8M-50)** | | | | | | | | | | | | | | | | |
| 34 | P348M50-SH | SH | 3.409 | 3.355 | 3.750 | AF-1 | 1.6875 | — | 1.25 | 1.125 | 0.5 | — | 2.375 | 2.75 | 2.125 | 3.2 |
| 36 | P368M50-SH | SH | 3.609 | 3.555 | 3.937 | AF-1 | 1.6875 | — | 1.25 | 1.125 | 0.5 | — | 2.375 | 2.82 | 2.125 | 3.8 |
| 38 | P388M50-SH | SH | 3.810 | 3.756 | 4.156 | AF-1 | 1.6875 | — | 1.25 | 1.125 | 0.5 | — | 2.375 | 3.00 | 2.125 | 4.2 |
| 40 | P408M50-SH | SH | 4.010 | 3.956 | 4.344 | AF-1 | 1.6875 | — | 1.25 | 1.125 | 0.5 | — | 2.375 | 3.00 | 2.125 | 4.6 |
| 44 | P448M50-SD | SD | 4.411 | 4.357 | 4.750 | AF-1 | 2 | — | 1.8125 | 0.5625 | 0.5625 | — | 2.375 | 3.50 | 2.125 | 5.2 |
| 48 | P488M50-SD | SD | 4.812 | 4.758 | 5.157 | AF-1 | 2 | — | 1.8125 | 0.5625 | 0.5625 | — | 2.375 | 3.80 | 2.125 | 6.0 |
| 56 | P568M50-SK | SK | 5.614 | 5.560 | 5.937 | DF-1 | 2.625 | 0.0625 | 1.875 | 0.5625 | 0.5625 | — | 2.375 | 4.60 | 2.125 | 7.6 |
| 64 | P648M50-SK | SK | 6.416 | 6.362 | 6.750 | DF-1 | 2.625 | 0.0625 | 1.875 | 0.5625 | 0.5625 | — | 2.375 | 5.40 | 2.125 | 10.3 |
| 72 | P728M50-SK | SK | 7.218 | 7.164 | 7.562 | DF-1 | 2.625 | 0.0625 | 1.875 | 0.5625 | 0.5625 | — | 2.375 | 6.20 | 2.125 | 13.3 |
| 80 | P808M50-SF | SF | 8.020 | 7.966 | 8.326 | DF-1 | 2.875 | 0.0625 | 2 | 0.4375 | 0.5625 | — | 2.375 | 6.90 | 2.125 | 12.7 |
| 90 | P908M50-SF | SF | 9.023 | 8.969 | — | D-2 | 2.875 | 0.0625 | 2 | 0.4375 | 0.5625 | — | 2.375 | 7.62 | 2.125 | 16.0 |
| 112 | P1128M50-SF | SF | 11.229 | 11.175 | — | D-3 | 2.875 | 0.0625 | 2 | 0.4375 | 0.5625 | — | 2.375 | 9.88 | 2.125 | 21.0 |
| 144 | P1448M50-E | E | 14.437 | 14.383 | — | D-3 | 3.5 | 0.5 | 2.625 | 2 | 0.375 | — | 2.375 | 12.88 | 2.125 | 35.0 |
| 192 | P1928M50-E | E | 19.249 | 19.195 | — | D-3 | 3.5 | 0.5 | 2.625 | 2 | 0.375 | — | 2.375 | 17.63 | 2.125 | 45.0 |
| 144 | P1448M30-SF | SF | 14.447 | 14.383 | — | C-3 | 2.938 | 0.563 | 2.063 | — | .25 | — | 1.5 | 12.88 | — | 25.50 |
| 192 | P1928M30-E | E | 19.249 | 19.195 | — | C-3 | — | 1.3125 | 2.625 | .625 | .6 | — | 1.5 | 17.63 | — | 30.00 |
| **MST® 50mm (1.97 in.) Wide Belts (8M-50)** | | | | | | | | | | | | | | | | |
| 32 | P328M50-H | H | 3.208 | 3.154 | 3.562 | AF-1 | 1.375 | 0.5 | 1.25 | 0.625 | 0.75 | — | 2.375 | 2.56 | 2.125 | 2.9 |
| **Taper Bushed 50mm (1.97 in.) Wide Belts (8M-50)** | | | | | | | | | | | | | | | | |
| 28 | P288M50-1108 | 1108 | 2.807 | 2.753 | 3.16 | KF-1 | 1 | — | 0.875 | 1.5 | — | — | 2.375 | 2.000 | 2.125 | 2.1 |
| 30 | P308M50-1210 | 1210 | 3.008 | 2.954 | 3.34 | KF-1 | 1.25 | — | 1 | 1.375 | — | — | 2.375 | 2.345 | 2.125 | 2.2 |
| 32 | P328M50-1210 | 1210 | 3.208 | 3.154 | 3.56 | KF-1 | 1.25 | — | 1 | 1.375 | — | — | 2.375 | 2.560 | 2.125 | 2.1 |
| 34 | P348M50-1610 | 1610 | 3.409 | 3.355 | 3.75 | KF-1 | 1.6875 | — | 1 | 1.375 | — | — | 2.375 | 2.750 | 2.125 | 2.1 |
| 36 | P368M50-1610 | 1610 | 3.609 | 3.555 | 3.94 | KF-1 | 1.6875 | — | 1 | 1.375 | — | — | 2.375 | 2.820 | 2.125 | 2.7 |
| 38 | P388M50-1610 | 1610 | 3.810 | 3.756 | 4.16 | KF-1 | 1.6875 | — | 1 | 1.375 | — | — | 2.375 | 3.000 | 2.125 | 3.1 |
| 40 | P408M50-2012 | 2012 | 4.010 | 3.956 | 4.34 | KF-1 | 2.125 | — | 1.25 | 1.125 | — | — | 2.375 | 3.250 | 2.125 | 3.4 |
| 44 | P448M50-2012 | 2012 | 4.411 | 4.357 | 4.75 | KF-1 | 2.125 | — | 1.25 | 1.125 | — | — | 2.375 | 3.500 | 2.125 | 4.3 |
| 48 | P488M50-2012 | 2012 | 4.812 | 4.758 | 5.16 | KF-1 | 2.125 | — | 1.25 | 1.125 | — | — | 2.375 | 3.800 | 2.125 | 5.5 |
| 56 | P568M50-2517 | 2517 | 5.614 | 5.560 | 5.94 | KF-1 | 2.6875 | — | 1.75 | 0.625 | — | — | 2.375 | 4.600 | 2.125 | 8.1 |
| 64 | P648M50-2517 | 2517 | 6.416 | 6.362 | 6.75 | KF-1 | 2.6875 | — | 1.75 | 0.625 | — | — | 2.375 | 5.400 | 2.125 | 11.7 |
| 72 | P728M50-2517 | 2517 | 7.218 | 7.164 | 7.56 | KF-1 | 2.6875 | — | 1.75 | 0.625 | — | — | 2.375 | 6.200 | 2.125 | 15.7 |
| 80 | P808M50-2517 | 2517 | 8.020 | 7.966 | 8.38 | KF-1 | 2.6875 | — | 1.75 | 0.625 | — | — | 2.375 | 6.900 | 2.125 | 20.3 |
| 90 | P908M50-3020 | 3020 | 9.023 | 8.969 | — | W-1 | 3.25 | — | 2 | 0.375 | — | — | 2.375 | 7.630 | 2.125 | 31.7 |
| 112 | P1128M50-3020 | 3020 | 11.229 | 11.175 | — | W-3 | 3.25 | — | 2 | 0.375 | — | 6.25 | 2.375 | 9.880 | 2.125 | 34.7 |
| 144 | P1448M50-3020 | 3020 | 14.437 | 14.383 | — | W-3 | 3.25 | — | 2 | 0.375 | — | 7.5 | 2.375 | 12.880 | 2.125 | 36.0 |
| 192 | P1928M50-3020 | 3020 | 19.249 | 19.195 | — | W-3 | 3.25 | — | 2 | 0.375 | — | 7.5 | 2.375 | 17.630 | 2.125 | 67.2 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

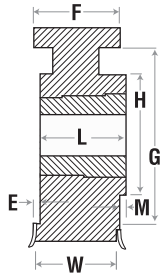
# High Torque Sprockets
# 8mm

**Type K**



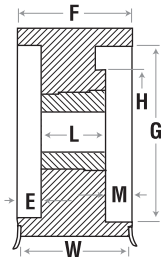

**Type KF**

**Type B**



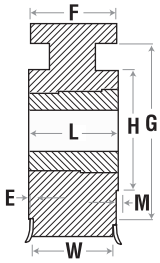

**Type BF**

**Type W**




**Type WF**

**Type C**




**Type CF**

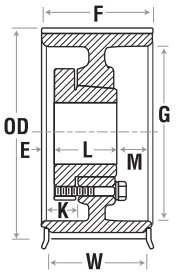
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter O.D. | Diameter Flange | Type + | Max Bore | Dimensions E | L | M | K | H | F | G | W | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPB 85mm (3.35 in.) Wide Belts (8M-85)** | | | | | | | | | | | | | | | | |
| 34 | P348M85-MPB | 0.75 | 3.409 | 3.355 | 3.750 | DF-1 | 1.6875 | 0.75 | 4.5 | — | — | 2.7968 | 3.75 | — | 3.5 | 10.00 |
| 36 | P368M85-MPB | 0.75 | 3.609 | 3.555 | 3.937 | DF-1 | 1.75 | 0.75 | 4.5 | — | — | 3 | 3.75 | — | 3.5 | 11.30 |
| 38 | P388M85-MPB | 0.75 | 3.810 | 3.756 | 4.156 | DF-1 | 1.9375 | 0.75 | 4.5 | — | — | 3.1875 | 3.75 | — | 3.5 | 12.60 |
| 40 | P408M85-MPB | 0.75 | 4.010 | 3.956 | 4.344 | DF-1 | 2.125 | 0.75 | 4.5 | — | — | 3.4062 | 3.75 | — | 3.5 | 14.90 |
| 44 | P448M85-MPB | 0.75 | 4.411 | 4.357 | 4.750 | DF-1 | 2.25 | 0.75 | 4.5 | — | — | 3.7968 | 3.75 | — | 3.5 | 17.20 |
| 48 | P488M85-MPB | 0.75 | 4.812 | 4.758 | 5.157 | DF-1 | 2.5 | 0.75 | 4.5 | — | — | 4.1875 | 3.75 | — | 3.5 | 20.60 |
| 56 | P568M85-MPB | 0.875 | 5.614 | 5.560 | 5.937 | DF-1 | 3 | 0.75 | 4.5 | — | — | 5 | 3.75 | — | 3.5 | 28.00 |
| **QD 85mm (3.35 in.) Wide Belts (8M-85)** | | | | | | | | | | | | | | | | |
| 34 | P348M85-SH | SH | 3.409 | 3.355 | 3.819 | AF-1 | 1.6875 | 1 | 1.25 | 1.5 | 1.5 | — | 3.75 | 2.75 | 3.5 | 4.6 |
| 36 | P368M85-SH | SH | 3.609 | 3.555 | 3.937 | AF-1 | 1.6875 | 1 | 1.25 | 1.5 | 1.5 | — | 3.75 | 2.82 | 3.5 | 5.2 |
| 38 | P388M85-SH | SH | 3.810 | 3.756 | 4.134 | AF-1 | 1.6875 | 1 | 1.25 | 1.5 | 1.5 | — | 3.75 | 3.00 | 3.5 | 5.8 |
| 40 | P408M85-SD | SD | 4.010 | 3.956 | 4.344 | AF-1 | 2 | 0.6875 | 1.8125 | 1.25 | 1.25 | — | 3.75 | 3.25 | 3.5 | 5.6 |
| 44 | P448M85-SD | SD | 4.411 | 4.357 | 4.750 | AF-1 | 2 | 0.6875 | 1.8125 | 1.25 | 1.25 | — | 3.75 | 3.50 | 3.5 | 6.2 |
| 48 | P488M85-SD | SD | 4.812 | 4.758 | 5.157 | AF-1 | 2 | 0.6875 | 1.8125 | 1.25 | 1.25 | — | 3.75 | 3.80 | 3.5 | 7.8 |
| 56 | P568M85-SK | SK | 5.614 | 5.560 | 5.937 | AF-1 | 2.625 | 0.625 | 1.875 | 1.25 | 1.25 | — | 3.75 | 4.60 | 3.5 | 9.8 |
| 64 | P648M85-SF | SF | 6.416 | 6.362 | 6.750 | AF-1 | 2.625 | 0.625 | 1.875 | 1.25 | 1.25 | — | 3.75 | 5.40 | 3.5 | 13.0 |
| 72 | P728M85-E | E | 7.218 | 7.164 | 7.562 | AF-1 | 2.9375 | 0.625 | 2 | 1.125 | 1.25 | — | 3.75 | 6.20 | 3.5 | 16.0 |
| 80 | P808M85-E | E | 8.020 | 7.966 | 8.375 | AF-1 | 2.9375 | 0.625 | 2 | 1.125 | 1.25 | — | 3.75 | 6.90 | 3.5 | 17.0 |
| 90 | P908M85-E | E | 9.023 | 8.969 | — | A-2 | 2.9375 | 0.625 | 2 | 1.125 | 1.25 | — | 3.75 | 7.62 | — | 20.0 |
| 112 | P1128M85-F | F | 11.229 | 11.175 | — | A-3 | 2.9375 | 0.625 | 2 | 1.125 | 1.25 | — | 3.75 | 9.88 | — | 28.0 |
| 144 | P1448M85-F | F | 14.447 | 14.383 | — | A-3 | 4 | 0.375 | 3.625 | 14 | 0.25 | — | 3.75 | 12.88 | 3.5 | 79.0 |
| 192 | P1928M85-F | F | 19.249 | 19.195 | — | A-3 | 4 | 0.375 | 3.625 | 0.5 | 0.625 | — | 3.75 | 17.65 | 3.5 | 101.4 |
| **Taper Bushed 85mm (3.35 in.) Wide Belts (8M-85)** | | | | | | | | | | | | | | | | |
| 34 | P348M85-1615 | 1615 | 3.409 | 3.355 | 3.75 | WF-1 | 1.6875 | 0.75 | 1.5 | 1.5 | — | — | 3.75 | 2.750 | 3.5 | 3.3 |
| 36 | P368M85-1615 | 1615 | 3.609 | 3.555 | 3.94 | WF-1 | 1.6875 | 0.75 | 1.5 | 1.5 | — | — | 3.75 | 2.820 | 3.5 | 4.2 |
| 38 | P388M85-1615 | 1615 | 3.810 | 3.756 | 4.16 | WF-1 | 1.6875 | 0.75 | 1.5 | 1.5 | — | — | 3.75 | 3.000 | 3.5 | 4.7 |
| 40 | P408M85-2012 | 2012 | 4.010 | 3.956 | 4.34 | WF-1 | 2.125 | 1.25 | 1.25 | 1.25 | — | — | 3.75 | 3.250 | 3.5 | 4.7 |
| 44 | P448M85-2012 | 2012 | 4.411 | 4.357 | 4.75 | WF-1 | 2.125 | 1.25 | 1.25 | 1.25 | — | — | 3.75 | 3.500 | 3.5 | 6.4 |
| 48 | P488M85-2012 | 2012 | 4.812 | 4.758 | 5.16 | WF-1 | 2.125 | 1.25 | 1.25 | 1.25 | — | — | 3.75 | 3.800 | 3.5 | 8.0 |
| 56 | P568M85-2517 | 2517 | 5.614 | 5.560 | 5.94 | WF-1 | 2.6875 | 1 | 1.75 | 1 | — | — | 3.75 | 4.500 | 3.5 | 11.0 |
| 64 | P648M85-2517 | 2517 | 6.416 | 6.362 | 6.75 | WF-1 | 2.6875 | 1 | 1.75 | 1 | — | — | 3.75 | 5.400 | 3.5 | 15.0 |
| 72 | P728M85-3020 | 3020 | 7.218 | 7.164 | 7.56 | WF-1 | 3.25 | 0.875 | 2 | 0.875 | — | — | 3.75 | 6.200 | 3.5 | 18.2 |
| 80 | P808M85-3020 | 3020 | 8.020 | 7.966 | 8.38 | WF-1 | 3.25 | 0.875 | 2 | 0.875 | — | — | 3.75 | 6.900 | 3.5 | 24.2 |
| 90 | P908M85-3020 | 3020 | 9.023 | 8.969 | — | W-1 | 3.25 | 0.875 | 2 | 0.875 | — | — | 3.75 | 7.630 | — | 31.9 |
| 112 | P1128M85-3020 | 3020 | 11.229 | 11.175 | — | W-3 | 3.25 | 0.875 | 2 | 0.875 | — | 6.25 | 3.75 | 9.880 | — | 34.6 |
| 144 | P1448M85-3535 | 3535 | 14.437 | 14.383 | — | W-3 | 3.9375 | 0.125 | 3.5 | 0.125 | — | 7 | 3.75 | 12.880 | — | 49.6 |
| 192 | P1928M85-3535 | 3535 | 19.249 | 19.195 | — | W-3 | 3.9375 | 0.125 | 3.5 | 0.125 | — | 7 | 3.75 | 17.630 | — | 81.4 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

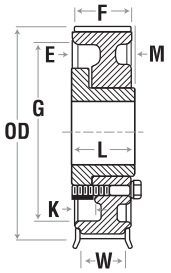
# High Torque Sprockets
# 14mm

**Type A**



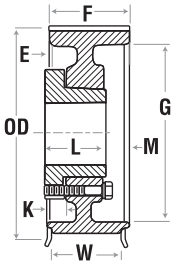

**Type AF**

**Type C**



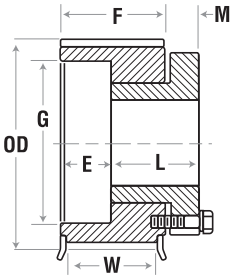

**Type CF**

**Type D**



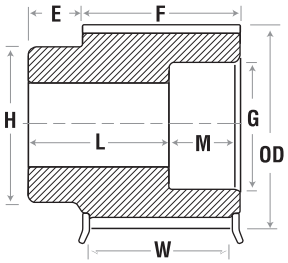

**Type DF**

**Type E •**




**Type EF •**

**Type D (MPB Only)**




**Type DF (MPB Only)**

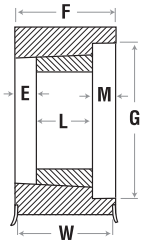
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter O.D. | Diameter Flange | Type + | Max Bore | Dimensions E | L | M | K | H | F | G | W | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **QD 40mm (1.570 in.) Wide Belts (140M-40** | | | | | | | | | | | | | | | | |
| 28 | P2814M40-SK | SK | 4.912 | 4.802 | 5.56 | • EF-1 | 2.625 | 0.875 | 1.875 | 0.625 | — | — | 2.125 | 3.13 | 1.8125 | 5.5 |
| 29 | P2914M40-SK | SK | 5.088 | 4.978 | 5.56 | • EF-1 | 2.625 | 0.875 | 1.875 | 0.625 | — | — | 2.125 | 3.13 | 1.8125 | 6.5 |
| 30 | P3014M40-SK | SK | 5.263 | 5.153 | 6.13 | DF-1 | 2.625 | 0.1875 | 1.875 | 0.4375 | — | — | 2.125 | 3.92 | 1.8125 | 6.0 |
| 32 | P3214M40-SK | SK | 5.614 | 5.504 | 6.13 | DF-1 | 2.625 | 0.1875 | 1.875 | 0.4375 | 0.4375 | — | 2.125 | 3.92 | 1.8125 | 8.0 |
| 34 | P3414M40-SK | SK | 5.965 | 5.855 | 6.50 | DF-1 | 2.625 | 0.1875 | 1.875 | 0.4375 | 0.4375 | — | 2.125 | 4.06 | 1.8125 | 8.5 |
| 36 | P3614M40-SF | SF | 6.316 | 6.206 | 6.81 | DF-1 | 2.875 | 0.1875 | 2 | 0.3125 | 0.4375 | — | 2.125 | 4.69 | 1.8125 | 9.5 |
| 38 | P3814M40-SF | SF | 6.667 | 6.557 | 7.16 | DF-1 | 2.875 | 0.1875 | 2 | 0.3125 | 0.4375 | — | 2.125 | 4.94 | 1.8125 | 11.5 |
| 40 | P4014M40-SF | SF | 7.018 | 6.909 | 7.50 | DF-1 | 2.875 | 0.1875 | 2 | 0.3125 | 0.4375 | — | 2.125 | 5.06 | 1.8125 | 13.0 |
| 44 | P4414M40-E | E | 7.720 | 7.610 | 8.22 | DF-1 | 3.5 | 0.625 | 2.625 | 0.125 | 0.25 | — | 2.125 | 6.12 | 1.8125 | 16.5 |
| 48 | P4814M40-E | E | 8.421 | 8.311 | 8.94 | DF-1 | 3.5 | 0.625 | 2.625 | 0.125 | 0.25 | — | 2.125 | 6.50 | 1.8125 | 20.0 |
| 52 | P5214M40-E | E | 9.123 | 9.013 | 9.69 | DF-1 | 3.5 | 0.625 | 2.625 | 0.125 | 0.25 | — | 2.125 | 7.18 | 1.8125 | 24.0 |
| 56 | P5614M40-E | E | 9.825 | 9.715 | 10.38 | DF-1 | 3.5 | 0.625 | 2.625 | 0.125 | 0.25 | — | 2.125 | 7.88 | 1.8125 | 28.0 |
| 60 | P6014M40-E | E | 10.527 | 10.417 | 11.06 | DF-1 | 3.5 | 0.625 | 2.625 | 0.125 | 0.25 | — | 2.125 | 8.50 | 1.8125 | 32.0 |
| 64 | P6414M40-E | E | 11.229 | 11.119 | 11.75 | DF-2 | 3.5 | 0.625 | 2.625 | 0.125 | 0.25 | — | 2.125 | 9.25 | 1.8125 | 29.0 |
| 68 | P6814M40-E | E | 11.930 | 11.820 | 12.50 | DF-2 | 3.5 | 0.625 | 2.625 | 0.125 | 0.25 | — | 2.125 | 10.00 | 1.8125 | 31.0 |
| 72 | P7214M40-E | E | 12.632 | 12.522 | 13.19 | DF-2 | 3.5 | 0.625 | 2.625 | 0.125 | 0.25 | — | 2.125 | 10.69 | 1.8125 | 33.0 |
| 80 | P8014M40-E | E | 14.036 | 13.926 | 14.63 | DF-2 | 3.5 | 0.625 | 2.625 | 0.125 | 0.25 | — | 2.125 | 12.13 | 1.8125 | 38.0 |
| 90 | P9014M40-E | E | 15.790 | 15.680 | — | D-3 | 3.5 | 0.625 | 2.625 | 0.125 | 0.25 | — | 2.125 | 14.00 | — | 39.0 |
| 112 | P11214M40-E | E | 19.650 | 19.540 | — | D-3 | 3.5 | 0.625 | 2.625 | 0.125 | 0.25 | — | 2.125 | 17.80 | — | 51.0 |
| 144 | P14414M40-E | E | 25.264 | 25.154 | — | D-3 | 3.5 | 0.625 | 2.625 | 0.125 | 0.25 | — | 2.125 | 23.38 | — | 80.0 |
| **Taper Bushed 40mm (1.570 in.) Wide Belts (140M-40)** | | | | | | | | | | | | | | | | |
| 28 | P2814M40-2012 | 2012 | 4.912 | 4.802 | 5.56 | KF-1 | 2.125 | — | 1.25 | 0.875 | — | — | 2.125 | 3.375 | 1.8125 | 3.5 |
| 29 | P2914M40-2012 | 2012 | 5.088 | 4.978 | 5.56 | KF-1 | 2.125 | — | 1.25 | 0.875 | — | — | 2.125 | 3.375 | 1.8125 | 3.9 |
| 30 | P3014M40-2012 | 2012 | 5.263 | 5.153 | 6.13 | KF-1 | 2.125 | — | 1.25 | 0.875 | — | — | 2.125 | 3.928 | 1.8125 | 6.4 |
| 32 | P3214M40-2012 | 2012 | 5.614 | 5.504 | 6.13 | KF-1 | 2.125 | — | 1.25 | 0.875 | — | — | 2.125 | 3.928 | 1.8125 | 8.0 |
| 34 | P3414M40-2012 | 2012 | 5.965 | 5.855 | 6.50 | KF-1 | 2.125 | — | 1.25 | 0.875 | — | — | 2.125 | 4.063 | 1.8125 | 9.4 |
| 36 | P3614M40-2517 | 2517 | 6.316 | 6.206 | 6.81 | KF-1 | 2.6875 | — | 1.75 | 0.375 | — | — | 2.125 | 4.688 | 1.8125 | 10.5 |
| 38 | P3814M40-2517 | 2517 | 6.667 | 6.557 | 7.16 | KF-1 | 2.6875 | — | 1.75 | 0.375 | — | — | 2.125 | 4.813 | 1.8125 | 12.2 |
| 40 | P4014M40-2517 | 2517 | 7.018 | 6.908 | 7.50 | KF-1 | 2.6875 | — | 1.75 | 0.375 | — | — | 2.125 | 5.188 | 1.8125 | 14.2 |
| 44 | P4414M40-2517 | 2517 | 7.720 | 7.610 | 8.22 | KF-1 | 2.6875 | — | 1.75 | 0.375 | — | — | 2.125 | 6.125 | 1.8125 | 17.6 |
| 48 | P4814M40-2517 | 2517 | 8.421 | 8.311 | 8.94 | KF-1 | 2.6875 | — | 1.75 | 0.375 | — | — | 2.125 | 6.500 | 1.8125 | 22.0 |
| 52 | P5214M40-2517 | 2517 | 9.123 | 9.013 | 9.69 | KF-1 | 2.6875 | — | 1.75 | 0.375 | — | — | 2.125 | 7.188 | 1.8125 | 26.5 |
| 56 | P5614M40-2517 | 2517 | 9.825 | 9.715 | 10.38 | WF-2 | 2.6875 | — | 1.75 | 0.375 | 4.875 | — | 2.125 | 7.875 | 1.8125 | 21.5 |
| 60 | P6014M40-3020 | 3020 | 10.527 | 10.417 | 11.06 | WF-2 | 3.25 | — | 2 | 0.125 | 6.25 | — | 2.125 | 8.500 | 1.8125 | 33.7 |
| 64 | P6414M40-3020 | 3020 | 11.229 | 11.119 | 11.75 | WF-2 | 3.25 | — | 2 | 0.125 | 6.25 | — | 2.125 | 9.250 | 1.8125 | 36.5 |
| 68 | P6814M40-3020 | 3020 | 11.930 | 11.820 | 12.50 | WF-2 | 3.25 | — | 2 | 0.125 | 6.25 | — | 2.125 | 10.000 | 1.8125 | 39.3 |
| 72 | P7214M40-3020 | 3020 | 12.632 | 12.522 | 13.19 | WF-2 | 3.25 | — | 2 | 0.125 | 6.25 | — | 2.125 | 10.688 | 1.8125 | 42.6 |
| 80 | P8014M40-3020 | 3020 | 14.036 | 13.926 | 14.63 | WF-3 | 3.25 | — | 2 | 0.125 | 6.25 | — | 2.125 | 12.125 | 1.8125 | 38.8 |
| 90 | P9014M40-3020 | 3020 | 15.790 | 15.680 | — | W-3 | 3.25 | — | 2 | 0.125 | 6.25 | — | 2.125 | 13.563 | — | 44.5 |
| 112 | P11214M40-3020 | 3020 | 19.650 | 19.540 | — | W-3 | 3.25 | — | 2 | 0.125 | 6.25 | — | 2.125 | 17.375 | — | 64.9 |
| 144 | P14414M40-3020 | 3020 | 25.264 | 25.154 | — | W-3 | 3.25 | — | 2 | 0.125 | 6.25 | — | 2.125 | 23.000 | — | 97.4 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

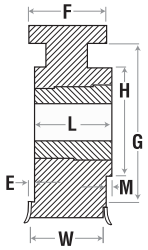
# High Torque Sprockets
# 14mm

Type K



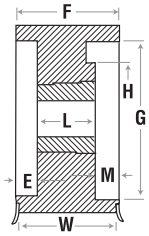

Type KF

Type B



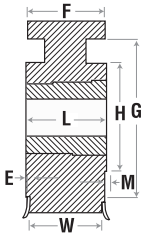

Type BF

Type W




Type WF

Type C




Type CF

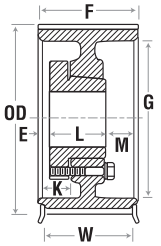
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter O.D. | Diameter Flange | Type + | Max Bore | Dimensions E | L | M | K | H | F | G | W | Weight Approx (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **QD 55mm (2.17 in.) Wide Belts (14M-55)** | | | | | | | | | | | | | | | | |
| 28 | P2814M55-SK | SK | 4.912 | 4.808 | 5.56 | • EF-1 | 2.625 | 1.5 | 1.875 | 0.625 | — | — | 2.75 | 3.13 | 2.4375 | 7.0 |
| 29 | P2914M55-SK | SK | 5.088 | 4.983 | 5.56 | • EF-1 | 2.625 | 1.5 | 1.875 | 0.625 | — | — | 2.75 | 3.13 | 2.4375 | 8.0 |
| 30 | P3014M55-SK | SK | 5.263 | 5.157 | 6.13 | AF-1 | 2.625 | 0.125 | 1.875 | 0.75 | 0.75 | — | 2.75 | 3.92 | 2.4375 | 7.5 |
| 32 | P3214M55-SK | SK | 5.614 | 5.507 | 6.13 | AF-1 | 2.625 | 0.125 | 1.875 | 0.75 | 0.75 | — | 2.75 | 3.92 | 2.4375 | 9.0 |
| 34 | P3414M55-SK | SK | 5.965 | 5.858 | 6.50 | AF-1 | 2.625 | 0.125 | 1.875 | 0.75 | 0.75 | — | 2.75 | 4.06 | 2.4375 | 10.0 |
| 36 | P3614M55-SF | SF | 6.316 | 6.208 | 6.81 | AF-1 | 2.875 | 0.125 | 2 | 0.625 | 0.75 | — | 2.75 | 4.69 | 2.4375 | 11.0 |
| 38 | P3814M55-SF | SF | 6.667 | 6.559 | 7.16 | AF-1 | 2.875 | 0.125 | 2 | 0.625 | 0.75 | — | 2.75 | 4.94 | 2.4375 | 13.0 |
| 40 | P4014M55-SF | SF | 7.018 | 6.909 | 7.50 | AF-1 | 2.875 | 0.125 | 2 | 0.625 | 0.75 | — | 2.75 | 5.06 | 2.4375 | 15.0 |
| 44 | P4414M55-E | E | 7.720 | 7.610 | 8.22 | DF-1 | 3.5 | 0.3125 | 2.625 | 0.4375 | 0.5625 | — | 2.75 | 6.12 | 2.4375 | 19.0 |
| 48 | P4814M55-E | E | 8.421 | 8.311 | 8.94 | DF-1 | 3.5 | 0.3125 | 2.625 | 0.4375 | 0.5625 | — | 2.75 | 6.50 | 2.4375 | 23.0 |
| 52 | P5214M55-E | E | 9.123 | 9.013 | 9.69 | DF-1 | 3.5 | 0.3125 | 2.625 | 0.4375 | 0.5625 | — | 2.75 | 7.18 | 2.4375 | 27.0 |
| 56 | P5614M55-E | E | 9.825 | 9.715 | 10.38 | DF-1 | 3.5 | 0.3125 | 2.625 | 0.4375 | 0.5625 | — | 2.75 | 7.88 | 2.4375 | 32.0 |
| 60 | P6014M55-E | E | 10.527 | 10.417 | 11.06 | DF-1 | 3.5 | 0.3125 | 2.625 | 0.4375 | 0.5625 | — | 2.75 | 8.50 | 2.4375 | 36.0 |
| 64 | P6414M55-F | F | 11.229 | 11.119 | 11.75 | CF-1 | 4 | 0.875 | 3.625 | — | 0.125 | — | 2.75 | 9.25 | 2.4375 | 53.0 |
| 68 | P6814M55-F | F | 11.930 | 11.820 | 12.50 | DF-2 | 4 | 0.875 | 3.625 | — | 0.125 | — | 2.75 | 10.00 | 2.4375 | 43.0 |
| 72 | P7214M55-F | F | 12.632 | 12.522 | 13.19 | CF-2 | 4 | 0.875 | 3.625 | — | 0.125 | — | 2.75 | 10.69 | 2.4375 | 49.0 |
| 80 | P8014M55-F | F | 14.036 | 13.926 | 14.63 | CF-2 | 4 | 0.875 | 3.625 | — | 0.125 | — | 2.75 | 12.13 | 2.4375 | 54.0 |
| 90 | P9014M55-F | F | 15.790 | 15.680 | — | C-3 | 4 | 0.875 | 3.625 | — | 0.125 | — | 2.75 | 14.00 | — | 55.0 |
| 112 | P11214M55-F | F | 19.650 | 19.540 | — | C-3 | 4 | 0.875 | 3.625 | — | 0.125 | — | 2.75 | 17.88 | — | 71.0 |
| 144 | P14414M55-F | F | 25.264 | 25.154 | — | C-3 | 4 | 0.875 | 3.625 | — | 0.125 | — | 2.75 | 23.38 | — | 106.0 |
| 168 | P16814M55-F | F | 29.475 | 29.365 | — | C-3 | 4 | 0.875 | 3.625 | — | 0.125 | — | 2.75 | 27.56 | — | 124.0 |
| 192 | P19214M55-F | F | 33.686 | 33.576 | — | C-3 | 4 | 0.875 | 3.625 | — | 0.125 | — | 2.75 | 31.81 | — | 146.0 |
| 216 | P21614M55-F | F | 37.896 | 37.786 | — | C-3 | 4 | 0.875 | 3.625 | — | 0.125 | — | 2.75 | 35.75 | — | 205.0 |
| **Taper Bushed 55mm (2.17 in.) Wide Belts (14M-55)** | | | | | | | | | | | | | | | | |
| 28 | P2814M55-2012 | 2012 | 4.912 | 4.802 | 5.56 | KF-1 | 2.125 | — | 1.25 | 1.5 | — | — | 2.75 | 3.375 | 2.4375 | 7.4 |
| 29 | P2914M55-2012 | 2012 | 5.088 | 4.978 | 5.56 | KF-1 | 2.125 | — | 1.25 | 1.5 | — | — | 2.75 | 3.375 | 2.4375 | 8.4 |
| 30 | P3014M55-2517 | 2517 | 5.263 | 5.153 | 6.13 | KF-1 | 2.6875 | — | 1.75 | 1 | — | — | 2.75 | 3.928 | 2.4375 | 7.2 |
| 32 | P3214M55-2517 | 2517 | 5.614 | 5.504 | 6.13 | KF-1 | 2.6875 | — | 1.75 | 1 | — | — | 2.75 | 3.928 | 2.4375 | 9.3 |
| 34 | P3414M55-2517 | 2517 | 5.965 | 5.855 | 6.50 | KF-1 | 2.6875 | — | 1.75 | 1 | — | — | 2.75 | 4.063 | 2.4375 | 11.2 |
| 36 | P3614M55-2517 | 2517 | 6.316 | 6.206 | 6.81 | KF-1 | 2.6875 | — | 1.75 | 1 | — | — | 2.75 | 4.688 | 2.4375 | 12.4 |
| 38 | P3814M55-2517 | 2517 | 6.667 | 6.557 | 7.16 | KF-1 | 2.6875 | — | 1.75 | 1 | — | — | 2.75 | 4.813 | 2.4375 | 14.4 |
| 40 | P4014M55-2517 | 2517 | 7.018 | 6.908 | 7.50 | KF-1 | 2.6875 | — | 1.75 | 1 | — | — | 2.75 | 5.188 | 2.4375 | 16.7 |
| 44 | P4414M55-2517 | 2517 | 7.720 | 7.610 | 8.22 | KF-1 | 2.6875 | — | 1.75 | 1 | — | — | 2.75 | 6.125 | 2.4375 | 19.9 |
| 48 | P4814M55-3020 | 3020 | 8.421 | 8.311 | 8.94 | KF-1 | 3.25 | — | 2 | 0.75 | — | — | 2.75 | 6.500 | 2.4375 | 29.2 |
| 52 | P5214M55-3020 | 3020 | 9.123 | 9.013 | 9.69 | KF-1 | 3.25 | — | 2 | 0.75 | — | — | 2.75 | 7.188 | 2.4375 | 34.5 |
| 56 | P5614M55-3020 | 3020 | 9.825 | 9.715 | 10.38 | KF-1 | 3.25 | — | 2 | 0.75 | — | — | 2.75 | 7.875 | 2.4375 | 40.1 |
| 60 | P6014M55-3020 | 3020 | 10.527 | 10.417 | 11.06 | WF-2 | 3.25 | — | 2 | 0.75 | — | 6.25 | 2.75 | 8.500 | 2.4375 | 46.4 |
| 64 | P6414M55-3020 | 3020 | 11.229 | 11.119 | 11.75 | WF-2 | 3.25 | — | 2 | 0.75 | — | 6.25 | 2.75 | 9.250 | 2.4375 | 52.7 |
| 68 | P6814M55-3020 | 3020 | 11.930 | 11.820 | 12.50 | WF-2 | 3.25 | — | 2 | 0.75 | — | 6.25 | 2.75 | 10.000 | 2.4375 | 45.5 |
| 72 | P7214M55-3020 | 3020 | 12.632 | 12.522 | 13.19 | WF-2 | 3.25 | — | 2 | 0.75 | — | 6.25 | 2.75 | 10.688 | 2.4375 | 49.5 |
| 80 | P8014M55-3020 | 3020 | 14.036 | 13.926 | 14.63 | WF-3 | 3.25 | — | 2 | 0.75 | — | 6.25 | 2.75 | 12.125 | 2.4375 | 45.2 |
| 90 | P9014M55-3020 | 3020 | 15.790 | 15.680 | — | W-3 | 3.25 | — | 2 | 0.75 | — | 6.25 | 2.75 | 13.563 | — | 46.1 |
| 112 | P11214M55-3020 | 3020 | 19.650 | 19.540 | — | W-3 | 3.25 | — | 2 | 0.75 | — | 6.25 | 2.75 | 17.375 | — | 69.8 |
| 144 | P14414M55-3020 | 3020 | 25.264 | 25.154 | — | W-3 | 3.25 | — | 2 | 0.75 | — | 6.25 | 2.75 | 23.000 | — | 104.4 |
| 192 | P19214M55-3535 | 3535 | 33.686 | 33.576 | — | C-3 | 3.9375 | 0.38 | 3.5 | 0.375 | — | 7 | 2.75 | 31.375 | — | 104.2 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

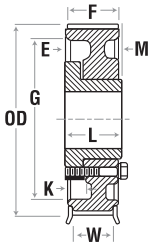
# High Torque Sprockets
# 14mm

Type A



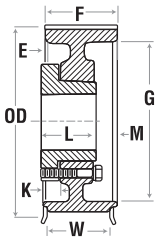

Type AF

Type C



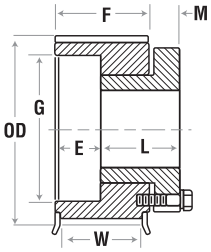

Type CF

Type D



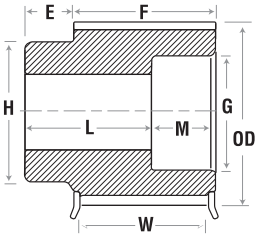

Type DF

Type E •




Type EF •

Type D (MPB Only)




Type DF (MPB Only)

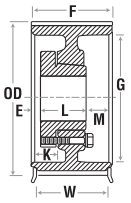
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter O.D. | Diameter Flange | Type + | Max Bore | Dimensions E | L | M | K | H | F | G | W | Weight Approx (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPB 85mm (3.35in.) Wide Belts (14M-85)** | | | | | | | | | | | | | | | | |
| 28 | P2814M85-MPB | 1.25 | 4.912 | 4.802 | 5.56 | DF-1 | 2.3125 | 1 | 4 | 1 | — | 3.6875 | 4 | 3.13 | 3.6875 | 18.0 |
| 29 | P2914M85-MPB | 1.25 | 5.088 | 4.983 | 5.56 | DF-1 | 2.3125 | 1 | 4 | 1 | — | 3.6875 | 4 | 3.13 | 3.6875 | 19.4 |
| 30 | P3014M85-MPB | 1.25 | 5.263 | 5.157 | 6.13 | DF-1 | 2.5 | 1 | 4 | 1 | — | 0.7656 | 4 | 3.72 | 3.6875 | 20.6 |
| 32 | P3214M85-MPB | 1.25 | 5.614 | 5.507 | 6.13 | DF-1 | 2.5 | 1 | 4 | 1 | — | 0.7656 | 4 | 3.72 | 3.6875 | 23.4 |
| 34 | P3414M85-MPB | 1.25 | 5.965 | 5.858 | 6.50 | DF-1 | 2.6875 | 1 | 4 | 1 | — | 4.4843 | 4 | 4.06 | 3.6875 | 27.4 |
| **QD 85mm (3.35in.) Wide Belts (14M-85)** | | | | | | | | | | | | | | | | |
| 30 | P3014M85-SK | SK | 5.293 | 5.157 | 6.13 | AF-1 | 2.625 | 0.75 | 1.875 | 1.375 | 1.375 | — | 4 | 3.92 | 3.6875 | 10.0 |
| 32 | P3214M85-SK | SK | 5.614 | 5.507 | 6.13 | AF-1 | 2.875 | 0.75 | 1.875 | 1.375 | 1.375 | — | 4 | 3.92 | 3.6875 | 13.0 |
| 34 | P3414M85-SK | SK | 5.965 | 5.853 | 6.13 | AF-1 | 2.875 | 0.75 | 1.875 | 1.375 | 1.375 | — | 4 | 4.06 | 3.6875 | 14.0 |
| 36 | P3614M85-SF | SF | 6.316 | 6.206 | 6.81 | AF-1 | 2.875 | 0.75 | 2 | 1.25 | 1.375 | — | 4 | 4.69 | 3.6875 | 15.0 |
| 38 | P3814M85-SF | SF | 6.667 | 6.557 | 7.16 | AF-1 | 2.875 | 0.75 | 2 | 1.25 | 1.375 | — | 4 | 4.94 | 3.6875 | 18.0 |
| 40 | P4014M85-SF | SF | 7.018 | 6.909 | 7.50 | AF-1 | 2.875 | 0.75 | 2 | 1.25 | 1.375 | — | 4 | 5.06 | 3.6875 | 20.0 |
| 44 | P4414M85-E | E | 7.720 | 7.610 | 8.22 | AF-1 | 3.5 | 0.3125 | 2.625 | 0.6875 | 0.8125 | — | 4 | 6.12 | 3.6875 | 25.0 |
| 48 | P4814M85-E | E | 8.421 | 8.311 | 8.94 | AF-1 | 3.5 | 0.3125 | 2.625 | 0.6875 | 0.8125 | — | 4 | 6.50 | 3.6875 | 29.0 |
| 52 | P5214M85-E | E | 9.123 | 9.013 | 9.69 | AF-1 | 3.5 | 0.3125 | 2.625 | 0.6875 | 0.8125 | — | 4 | 7.18 | 3.6875 | 32.0 |
| 56 | P5614M85-F | F | 9.825 | 9.715 | 10.38 | DF-1 | 4 | 0.25 | 3.625 | 0.625 | 0.75 | — | 4 | 7.88 | 3.6875 | 46.0 |
| 60 | P6014M85-F | F | 10.527 | 10.417 | 11.06 | DF-1 | 4 | 0.25 | 3.625 | 0.625 | 0.75 | — | 4 | 8.50 | 3.6875 | 51.0 |
| 64 | P6414M85-F | F | 11.229 | 11.119 | 11.75 | DF-1 | 4 | 0.25 | 3.625 | 0.625 | 0.75 | — | 4 | 9.25 | 3.6875 | 62.0 |
| 68 | P6814M85-F | F | 11.930 | 11.820 | 12.50 | DF-2 | 4 | 0.25 | 3.625 | 0.625 | 0.75 | — | 4 | 10.00 | 3.6875 | 51.0 |
| 72 | P7214M85-F | F | 12.632 | 12.522 | 13.19 | DF-2 | 4 | 0.25 | 3.625 | 0.625 | 0.75 | — | 4 | 10.69 | 3.6875 | 60.0 |
| 80 | P8014M85-F | F | 14.036 | 13.926 | 14.63 | DF-2 | 4 | 0.25 | 3.625 | 0.625 | 0.75 | — | 4 | 12.13 | 3.6875 | 66.0 |
| 90 | P9014M85-F | F | 15.790 | 15.680 | — | D-3 | 4 | 0.25 | 3.625 | 0.625 | 0.75 | — | 4 | 14.00 | — | 69.0 |
| 112 | P11214M85-F | F | 19.650 | 19.540 | — | D-3 | 4 | 0.25 | 3.625 | 0.625 | 0.75 | — | 4 | 17.88 | — | 89.0 |
| 144 | P14414M85-F | F | 25.264 | 25.154 | — | D-3 | 4 | 0.25 | 3.625 | 0.625 | 0.75 | — | 4 | 23.38 | — | 127.0 |
| 168 | P16814M85-J | J | 29.475 | 29.365 | — | D-3 | 4.5 | 0.25 | 3.625 | 0.625 | 0.75 | — | 4 | 27.56 | — | 148.0 |
| 192 | P19214M85-J | J | 33.686 | 33.576 | — | D-3 | 4.5 | 0.25 | 3.625 | 0.625 | 0.75 | — | 4 | 31.81 | — | 177.0 |
| 216 | P21614M85-J | J | 37.896 | 37.786 | — | D-3 | 4.5 | 0.25 | 3.625 | 0.625 | 0.75 | — | 4 | 35.75 | — | 251.0 |
| **Taper Bushed 85mm (3.35in.) Wide Belts (14M-85)** | | | | | | | | | | | | | | | | |
| 30 | P3014M85-2517 | 2517 | 5.263 | 5.153 | 6.13 | WF-1 | 2.5 | 0.5 | 1.75 | 1.75 | — | — | 4 | 3.928 | 3.6875 | 9.7 |
| 32 | P3214M85-2517 | 2517 | 5.614 | 5.504 | 6.13 | WF-1 | 2.6875 | 0.875 | 1.75 | 1.375 | — | — | 4 | 3.928 | 3.6875 | 12.7 |
| 34 | P3414M85-2517 | 2517 | 5.965 | 5.855 | 6.50 | WF-1 | 2.6875 | 0.875 | 1.75 | 1.375 | — | — | 4 | 4.063 | 3.6875 | 15.3 |
| 36 | P3614M85-3020 | 3020 | 6.316 | 6.206 | 6.81 | WF-1 | 3.25 | 0.5312 | 2 | 1.4687 | — | — | 4 | 4.688 | 3.6875 | 19.3 |
| 38 | P3814M85-3020 | 3020 | 6.667 | 6.557 | 7.16 | WF-1 | 3.25 | 0.5312 | 2 | 1.4687 | — | — | 4 | 4.813 | 3.6875 | 21.9 |
| 40 | P4014M85-3020 | 3020 | 7.018 | 6.908 | 7.50 | WF-1 | 3.25 | 0.5312 | 2 | 1.4687 | — | — | 4 | 5.063 | 3.6875 | 25.1 |
| 44 | P4414M85-3020 | 3020 | 7.720 | 7.610 | 8.22 | WF-1 | 3.25 | 0.5312 | 2 | 1.4687 | — | — | 4 | 6.125 | 3.6875 | 28.4 |
| 48 | P4814M85-3020 | 3020 | 8.421 | 8.311 | 8.94 | WF-1 | 3.25 | 0.5312 | 2 | 1.4687 | — | — | 4 | 6.500 | 3.6875 | 35.4 |
| 52 | P5214M85-3535 | 3535 | 9.123 | 9.013 | 9.69 | KF-1 | 3.9375 | — | 3.5 | 0.5 | — | — | 4 | 7.188 | 3.6875 | 42.9 |
| 56 | P5614M85-3535 | 3535 | 9.825 | 9.715 | 10.38 | KF-1 | 3.9375 | — | 3.5 | 0.5 | — | — | 4 | 7.875 | 3.6875 | 52.4 |
| 60 | P6014M85-3535 | 3535 | 10.527 | 10.417 | 11.06 | KF-1 | 3.9375 | — | 3.5 | 0.5 | — | — | 4 | 8.500 | 3.6875 | 62.7 |
| 64 | P6414M85-3535 | 3535 | 11.229 | 11.119 | 11.75 | KF-1 | 3.9375 | — | 3.5 | 0.5 | — | — | 4 | 9.250 | 3.6875 | 73.6 |
| 68 | P6814M85-3535 | 3535 | 11.930 | 11.820 | 12.50 | KF-1 | 3.9375 | — | 3.5 | 0.5 | — | — | 4 | 10.000 | 3.6875 | 64.2 |
| 72 | P7214M85-3535 | 3535 | 12.632 | 12.522 | 13.19 | KF-1 | 3.9375 | — | 3.5 | 0.5 | — | — | 4 | 10.688 | 3.6875 | 97.4 |
| 80 | P8014M85-3535 | 3535 | 14.036 | 13.926 | 14.63 | WF-2 | 3.9375 | — | 3.5 | 0.5 | — | — | 4 | 12.125 | 3.6875 | 68.4 |
| 90 | P9014M85-3535 | 3535 | 15.790 | 15.680 | — | W-3 | 3.9375 | — | 3.5 | 0.5 | — | 7 | 4 | 13.563 | — | 69.1 |
| 112 | P11214M85-3535 | 3535 | 19.650 | 19.540 | — | W-3 | 3.9375 | — | 3.5 | 0.5 | — | 7 | 4 | 17.375 | — | 85.7 |
| 144 | P14414M85-4040 | 4040 | 25.264 | 25.154 | — | W-3 | 4.4375 | — | 4 | — | — | 8.5 | 4 | 23.000 | — | 131.6 |
| 168 | P16814M85-4040 | 4040 | 29.475 | 29.365 | — | W-3 | 4.4375 | — | 4 | — | — | 8.5 | 4 | 27.250 | — | 146.1 |
| 192 | P19214M85-4040 | 4040 | 33.686 | 33.576 | — | W-3 | 4.4375 | — | 4 | — | — | 8.5 | 4 | 31.375 | — | 161.4 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

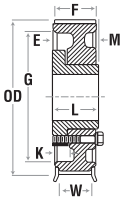
# High Torque Sprockets
# 14mm

**Type A**



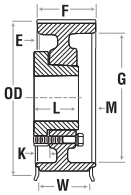

**Type AF**

**Type C**



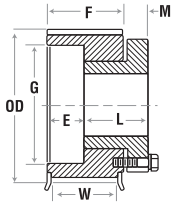

**Type CF**

**Type D**



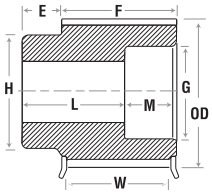

**Type DF**

**Type E •**




**Type EF •**

**Type D (MPB Only)**




**Type DF (MPB Only)**

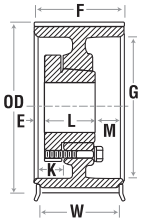
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter O.D. | Diameter Flange | Type + | Max Bore | Dimensions E | L | M | K | H | F | G | W | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPB 115mm (4.53 in.) Wide Belts (14M-115)** | | | | | | | | | | | | | | | | |
| 28 | P2814M115-MPB | 1.25 | 4.912 | 4.808 | 5.56 | DF-1 | 2.3125 | 1.25 | 5 | 1.5 | — | 3.6875 | 5.25 | 3.13 | 4.9375 | 23.2 |
| 29 | P2914M115-MPB | 1.25 | 5.088 | 4.983 | 5.56 | DF-1 | 2.3125 | 1.25 | 5 | 1.5 | — | 3.6875 | 5.25 | 3.13 | 4.9375 | 24.8 |
| 30 | P3014M115-MPB | 1.25 | 5.263 | 5.157 | 6.13 | DF-1 | 2.5 | 1.25 | 5 | 1.5 | — | 0.7656 | 5.25 | 3.90 | 4.9375 | 26.4 |
| 32 | P3214M115-MPB | 1.25 | 5.614 | 5.507 | 6.13 | DF-1 | 2.5 | 1.25 | 5 | 1.5 | — | 0.7656 | 5.25 | 3.90 | 4.9375 | 30.8 |
| 34 | P3414M115-MPB | 1.25 | 5.965 | 5.858 | 6.50 | DF-1 | 2.6875 | 1.25 | 5 | 1.5 | — | 4.4843 | 5.25 | 4.06 | 4.9375 | 35.2 |
| 36 | P3614M115-MPB | 1.25 | 6.316 | 6.208 | 6.81 | DF-1 | 3 | 1.25 | 5 | 1.5 | — | 4.875 | 5.25 | 4.69 | 4.9375 | 38.8 |
| 38 | P3814M115-MPB | 1.25 | 6.667 | 6.559 | 7.16 | DF-1 | 3.25 | 1.25 | 5 | 1.5 | — | 5.1718 | 5.25 | 4.94 | 4.9375 | 44.4 |
| 40 | P4014M115-MPB | 1.25 | 7.018 | 6.909 | 7.50 | DF-1 | 3.4375 | 1.25 | 5 | 1.5 | — | 5.5625 | 5.25 | 5.06 | 4.9375 | 50.0 |
| **QD 115mm (4.53 in.) Wide Belts (14M-115)** | | | | | | | | | | | | | | | | |
| 30 | P3014M115-SK | 1.25 | 5.263 | 5.157 | 6.13 | AF-1 | 2.875 | 1.375 | 1.875 | 2 | 2 | — | 5.25 | 3.92 | 4.9375 | 12.0 |
| 32 | P3214M115-SK | 1.25 | 5.614 | 5.507 | 6.13 | AF-1 | 2.875 | 1.375 | 1.875 | 2 | 2 | — | 5.25 | 3.92 | 4.9375 | 16.0 |
| 34 | P3414M115-SK | 1.25 | 5.965 | 5.858 | 6.50 | AF-1 | 2.875 | 1.375 | 1.875 | 2 | 2 | — | 5.25 | 4.06 | 4.9375 | 17.0 |
| 36 | P3614M115-SF | 1.25 | 6.316 | 6.208 | 6.81 | AF-1 | 3 | 1.375 | 2 | 1.875 | 2 | — | 5.25 | 4.69 | 4.9375 | 18.0 |
| 38 | P3814M115-SF | 1.25 | 6.667 | 6.559 | 7.16 | AF-1 | 3 | 1.375 | 2 | 1.875 | 2 | — | 5.25 | 4.94 | 4.9375 | 22.0 |
| 40 | P4014M115-SF | 1.25 | 7.018 | 6.909 | 7.50 | AF-1 | 3 | 1.375 | 2 | 1.875 | 2 | — | 5.25 | 5.06 | 4.9375 | 25.0 |
| 44 | P4414M115-E | E | 7.720 | 7.610 | 8.22 | AF-1 | 3.5 | 0.9375 | 2.625 | 1.6875 | 1.8125 | — | 5.25 | 6.12 | 4.9375 | 30.0 |
| 48 | P4814M115-E | E | 8.421 | 8.311 | 8.94 | AF-1 | 3.5 | 0.9375 | 2.625 | 1.6875 | 1.8125 | — | 5.25 | 6.50 | 4.9375 | 35.0 |
| 52 | P5214M115-F | F | 9.123 | 9.013 | 9.69 | AF-1 | 4 | 0.375 | 3.625 | 1.25 | 1.375 | — | 5.25 | 7.18 | 4.9375 | 42.0 |
| 56 | P5614M115-F | F | 9.825 | 9.715 | 10.38 | AF-1 | 4 | 0.375 | 3.625 | 1.25 | 1.375 | — | 5.25 | 7.88 | 4.9375 | 53.0 |
| 60 | P6014M115-F | F | 10.527 | 10.417 | 11.06 | AF-1 | 4.5 | 0.375 | 3.625 | 1.25 | 1.375 | — | 5.25 | 8.50 | 4.9375 | 60.0 |
| 64 | P6414M115-J | J | 11.229 | 11.119 | 11.75 | DF-1 | 4.5 | 0.1875 | 4.5 | 0.9375 | 1 | — | 5.25 | 9.25 | 4.9375 | 76.0 |
| 68 | P6814M115-J | J | 11.930 | 11.820 | 12.50 | DF-1 | 4.5 | 0.1875 | 4.5 | 0.9375 | 1 | — | 5.25 | 10.00 | 4.9375 | 83.0 |
| 72 | P7214M115-J | J | 12.632 | 12.522 | 13.19 | DF-1 | 4.5 | 0.1875 | 4.5 | 0.9375 | 1 | — | 5.25 | 10.69 | 4.9375 | 99.0 |
| 80 | P8014M115-J | J | 14.036 | 13.926 | 14.63 | DF-2 | 4.5 | 0.1875 | 4.5 | 0.9375 | 1 | — | 5.25 | 12.13 | 4.9375 | 87.0 |
| 90 | P9014M115-J | J | 15.790 | 15.680 | — | D-2 | 4.5 | 0.1875 | 4.5 | 0.9375 | 1 | — | 5.25 | 14.00 | — | 95.0 |
| 112 | P11214M115-J | J | 19.650 | 19.540 | — | D-3 | 4.5 | 0.1875 | 4.5 | 0.9375 | 1 | — | 5.25 | 17.88 | — | 114.0 |
| 144 | P14414M115-J | J | 25.264 | 25.154 | — | D-3 | 4.5 | 0.1875 | 4.5 | 0.9375 | 1 | — | 5.25 | 23.38 | — | 166.0 |
| 168 | P16814M115-M | M | 29.475 | 29.365 | — | D-3 | 5.5 | 0.1875 | 4.5 | 0.9375 | 1 | — | 5.25 | 27.56 | — | 198.0 |
| 192 | P19214M115-M | M | 33.686 | 33.576 | — | D-3 | 5.5 | 0.1875 | 4.5 | 0.9375 | 1 | — | 5.25 | 31.81 | — | 232.0 |
| 216 | P21614M115-M | M | 37.896 | 37.786 | — | D-3 | 5.5 | 0.1875 | 4.5 | 0.9375 | 1 | — | 5.25 | 35.75 | — | 307.0 |
| **Taper Bushed 115mm (4.53 in.) Wide Belts (14M-115)** | | | | | | | | | | | | | | | | |
| 30 | P3014M115-2517 | 2517 | 5.263 | 5.153 | 6.13 | WF-1 | 2.6875 | 1.75 | 1.75 | 1.75 | — | — | 5.25 | 3.928 | 4.9375 | 13.5 |
| 32 | P3214M115-2517 | 2517 | 5.614 | 5.504 | 6.13 | WF-1 | 2.6875 | 1.75 | 1.75 | 1.75 | — | — | 5.25 | 3.928 | 4.6875 | 17.3 |
| 34 | P3414M115-2517 | 2517 | 5.965 | 5.855 | 6.50 | WF-1 | 2.6875 | 1.75 | 1.75 | 1.75 | — | — | 5.25 | 4.063 | 4.6875 | 20.9 |
| 36 | P3614M115-3020 | 3020 | 6.316 | 6.206 | 6.81 | WF-1 | 3.25 | 1.625 | 2 | 1.625 | — | — | 5.25 | 4.688 | 4.6875 | 18.6 |
| 38 | P3814M115-3020 | 3020 | 6.667 | 6.557 | 7.16 | WF-1 | 3.25 | 1.625 | 2 | 1.625 | — | — | 5.25 | 4.813 | 4.6875 | 22.5 |
| 40 | P4014M115-3020 | 3020 | 7.018 | 6.908 | 7.50 | WF-1 | 3.25 | 1.625 | 2 | 1.625 | — | — | 5.25 | 5.063 | 4.6875 | 26.8 |
| 44 | P4414M115-3535 | 3535 | 7.720 | 7.610 | 8.22 | WF-1 | 3.9375 | 0.875 | 3.5 | 0.875 | — | — | 5.25 | 6.125 | 4.6875 | 30.8 |
| 48 | P4814M115-3535 | 3535 | 8.421 | 8.311 | 8.94 | WF-1 | 3.9375 | 0.875 | 3.5 | 0.875 | — | — | 5.25 | 6.500 | 4.6875 | 41.1 |
| 52 | P5214M115-4040 | 4040 | 9.123 | 9.013 | 9.69 | WF-1 | 4.4375 | 0.625 | 4 | 0.625 | — | — | 5.25 | 7.188 | 4.6875 | 46.9 |
| 56 | P5614M115-4040 | 4040 | 9.825 | 9.715 | 10.38 | WF-1 | 4.4375 | 0.625 | 4 | 0.625 | — | — | 5.25 | 7.875 | 4.6875 | 58.3 |
| 60 | P6014M115-4040 | 4040 | 10.527 | 10.417 | 11.06 | WF-1 | 4.4375 | 0.625 | 4 | 0.625 | — | — | 5.25 | 8.500 | 4.6875 | 70.9 |
| 64 | P6414M115-4545 | 4545 | 11.229 | 11.119 | 11.75 | WF-1 | 4.9375 | 0.375 | 4.5 | 0.375 | — | — | 5.25 | 9.250 | 4.6875 | 82.1 |
| 68 | P6814M115-4545 | 4545 | 11.930 | 11.820 | 12.50 | WF-1 | 4.9375 | 0.375 | 4.5 | 0.375 | — | — | 5.25 | 10.000 | 4.6875 | 97.1 |
| 72 | P7214M115-4545 | 4545 | 12.632 | 12.522 | 13.19 | WF-1 | 4.9375 | 0.375 | 4.5 | 0.375 | — | — | 5.25 | 10.688 | 4.6875 | 113.3 |
| 80 | P8014M115-4545 | 4545 | 14.036 | 13.926 | 14.63 | WF-2 | 4.9375 | 0.375 | 4.5 | 0.375 | 9.5 | — | 5.25 | 12.125 | 4.6875 | 108.9 |
| 90 | P9014M115-4545 | 4545 | 15.790 | 15.680 | — | W-2 | 4.9375 | 0.375 | 4.5 | 0.375 | 9.5 | — | 5.25 | 13.563 | — | 112.9 |
| 112 | P11214M115-4545 | 4545 | 19.650 | 19.540 | — | W-3 | 4.9375 | 0.375 | 4.5 | 0.375 | 9.5 | — | 5.25 | 17.375 | — | 122.4 |
| 144 | P14414M115-4545 | 4545 | 25.264 | 25.154 | — | W-3 | 4.9375 | 0.375 | 4.5 | 0.375 | 9.5 | — | 5.25 | 23.000 | — | 155.0 |
| 168 | P16814M115-4545 | 4545 | 29.475 | 29.365 | — | W-3 | 4.9375 | 0.375 | 4.5 | 0.375 | 9.5 | — | 5.25 | 27.250 | — | 188.0 |
| 192 | P19214M115-4545 | 4545 | 33.686 | 33.576 | — | W-3 | 4.9375 | 0.375 | 4.5 | 0.375 | 9.5 | — | 5.25 | 31.375 | — | 318.8 |
| 216 | P21614M115-6050 | 6050 | 37.896 | 37.786 | — | W-3 | 6 | — | 5 | 0.25 | 15.5 | — | 5.25 | 35.625 | — | 350.3 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

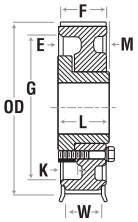
# High Torque Sprockets
# 14mm

Type A



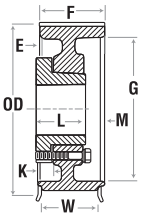

Type AF

Type C



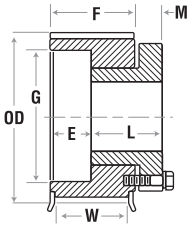

Type CF

Type D



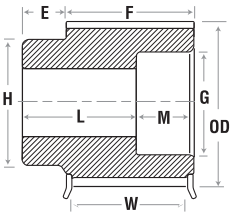

Type DF

Type E •



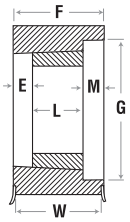

Type EF •

Type D (MPB Only)



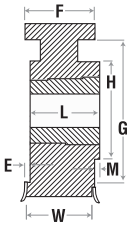

Type DF (MPB Only)

Type K



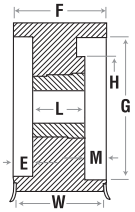

Type KF

Type B



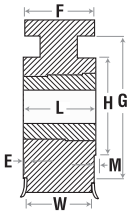

Type BF

Type W




Type WF

Type C




Type CF

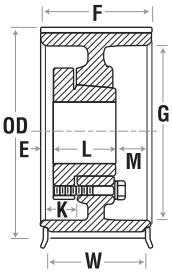
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter O.D. | Diameter Flange | Type + | Max Bore | Dimensions E | L | M | K | H | F | G | W | Weight Approx (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPB 170mm (6.69 in.) Wide Belts (14M-170)** | | | | | | | | | | | | | | | | |
| 36 | P3614M170-MPB | 1.5 | 6.316 | 6.208 | 6.81 | DF-1 | 3 | 1.125 | 6 | 2.625 | — | 4.875 | 7.375 | 4.69 | 7.0625 | 47.0 |
| 38 | P3814M170-MPB | 1.5 | 6.667 | 6.559 | 7.16 | DF-1 | 3.125 | 1.125 | 6 | 2.625 | — | 5.1718 | 7.375 | 4.94 | 7.0625 | 55.7 |
| 40 | P4014M170-MPB | 1.5 | 7.018 | 6.909 | 7.50 | DF-1 | 3.4375 | 1.125 | 6 | 2.625 | — | 5.5625 | 7.375 | 5.06 | 7.0625 | 63.7 |
| 44 | P4414M170-MPB | 1.5 | 7.720 | 7.610 | 8.22 | DF-1 | 4.375 | 1.125 | 6 | 2.625 | — | 6.25 | 7.375 | 6.13 | 7.0625 | 75.7 |
| 48 | P4814M170-MPB | 1.5 | 8.421 | 8.311 | 8.94 | DF-1 | 4.5 | 1.125 | 6 | 2.625 | — | 6.9375 | 7.375 | 6.50 | 7.0625 | 94.0 |
| **QD 170mm (6.69 in.) Wide Belts (14M-170)** | | | | | | | | | | | | | | | | |
| 44 | P4414M170-E | E | 7.720 | 7.610 | 8.22 | AF-1 | 3.625 | 2 | 2.625 | 2.75 | 2.875 | — | 7.375 | 6.12 | 7.0625 | 38.0 |
| 48 | P4814M170-E | E | 8.421 | 8.311 | 8.94 | AF-1 | 3.625 | 2 | 2.625 | 2.75 | 2.4375 | — | 7.375 | 6.50 | 7.0625 | 45.0 |
| 52 | P5214M170-F | F | 9.123 | 9.013 | 9.69 | AF-1 | 4 | 1.4375 | 3.625 | 2.3125 | 2.4375 | — | 7.375 | 7.18 | 7.0625 | 52.0 |
| 56 | P5614M170-F | F | 9.825 | 9.715 | 10.38 | AF-1 | 4 | 1.4375 | 3.625 | 2.3125 | 2.125 | — | 7.375 | 7.88 | 7.0625 | 65.0 |
| 60 | P6014M170-J | J | 10.527 | 10.417 | 11.06 | AF-1 | 4.5 | 0.9375 | 4.5 | 1.9375 | 2.125 | — | 7.375 | 8.50 | 7.0625 | 75.0 |
| 64 | P6414M170-J | J | 11.229 | 11.119 | 11.75 | AF-1 | 4.5 | 0.9375 | 4.5 | 1.9375 | 2.125 | — | 7.375 | 9.25 | 7.0625 | 91.0 |
| 68 | P6814M170-J | J | 11.930 | 11.820 | 12.50 | AF-1 | 4.5 | 0.9375 | 4.5 | 1.9375 | 2.125 | — | 7.375 | 10.00 | 7.0625 | 96.0 |
| 72 | P7214M170-J | J | 12.632 | 12.522 | 13.19 | AF-1 | 4.5 | 0.9375 | 4.5 | 1.9375 | 2.125 | — | 7.375 | 10.69 | 7.0625 | 115.0 |
| 80 | P8014M170-J | J | 14.036 | 13.926 | 14.63 | AF-2 | 4.5 | 0.9375 | 4.5 | 1.9375 | 2.125 | — | 7.375 | 12.13 | 7.0625 | 107.0 |
| 90 | P9014M170-J | J | 15.790 | 15.680 | — | A-2 | 4.5 | 0.9375 | 4.5 | 1.9375 | 2.125 | — | 7.375 | 14.00 | — | 116.0 |
| 112 | P11214M170-M | M | 19.650 | 19.540 | — | A-3 | 5.5 | — | 6.75 | 0.625 | 1.4375 | — | 7.375 | 17.88 | — | 175.0 |
| 144 | P14414M170-M | M | 25.264 | 25.154 | — | A-3 | 5.5 | — | 6.75 | 0.625 | 1.4375 | — | 7.375 | 23.38 | — | 240.0 |
| 168 | P16814M170-M | M | 29.475 | 29.365 | — | A-3 | 5.5 | — | 6.75 | 0.625 | 1.4375 | — | 7.375 | 27.56 | — | 278.0 |
| 192 | P19214M170-M | M | 33.686 | 33.576 | — | A-3 | 5.5 | — | 6.75 | 0.625 | 1.4375 | — | 7.375 | 31.81 | — | 322.0 |
| 216 | P21614M170-M | M | 37.896 | 37.786 | — | A-3 | 5.5 | — | 6.75 | 0.625 | 1.4375 | — | 7.375 | 35.75 | | 399.0 |
| **Taper Bushed 170mm (6.69 in.) Wide Belts (14M-170)** | | | | | | | | | | | | | | | | |
| 44 | P4414M170-3535 | 3535 | 7.720 | 7.610 | 8.22 | WF-1 | 3.9375 | 1.9375 | 3.5 | 1.9375 | — | — | 7.375 | 6.13 | 7.0625 | 39.7 |
| 48 | P4814M170-3535 | 3535 | 8.421 | 8.311 | 8.94 | WF-1 | 3.9375 | 1.9375 | 3.5 | 1.9375 | — | — | 7.375 | 6.50 | 7.0625 | 52.8 |
| 52 | P5214M170-4040 | 4040 | 9.123 | 9.013 | 9.69 | WF-1 | 4.4375 | 1.6875 | 4 | 1.6875 | — | — | 7.375 | 7.19 | 7.0625 | 59.8 |
| 56 | P5614M170-4040 | 4040 | 9.825 | 9.715 | 10.38 | WF-1 | 4.4375 | 1.6875 | 4 | 1.6875 | — | — | 7.375 | 7.88 | 7.0625 | 72.4 |
| 60 | P6014M170-4545 | 4545 | 10.527 | 10.417 | 11.06 | WF-1 | 4.9375 | 1.4375 | 4.5 | 1.4375 | — | — | 7.375 | 8.50 | 7.0625 | 83.7 |
| 64 | P6414M170-4545 | 4545 | 11.229 | 11.119 | 11.75 | WF-1 | 4.9375 | 1.4375 | 4.5 | 1.4375 | — | — | 7.375 | 9.25 | 7.0625 | 98.6 |
| 68 | P6814M170-4545 | 4545 | 11.930 | 11.820 | 12.50 | WF-1 | 4.9375 | 1.4375 | 4.5 | 1.4375 | — | — | 7.375 | 10.00 | 7.0625 | 114.4 |
| 72 | P7214M170-4545 | 4545 | 12.632 | 12.522 | 13.19 | WF-1 | 4.9375 | 1.4375 | 4.5 | 1.4375 | — | — | 7.375 | 10.69 | 7.0625 | 131.8 |
| 80 | P8014M170-4545 | 4545 | 14.036 | 13.926 | 14.63 | WF-2 | 4.9375 | 1.4375 | 4.5 | 1.4375 | — | 9.5 | 7.375 | 12.13 | 7.0625 | 129.3 |
| 90 | P9014M170-4545 | 4545 | 15.790 | 15.680 | — | W-2 | 4.9375 | 1.4375 | 4.5 | 1.4375 | — | 9.5 | 7.375 | 13.56 | — | 126.8 |
| 112 | P11214M170-4545 | 4545 | 19.650 | 19.540 | — | W-3 | 4.9375 | 1.4375 | 4.5 | 1.1875 | — | 9.5 | 7.375 | 17.38 | — | 148.0 |
| 144 | P14414M170-6050 | 6050 | 25.264 | 25.154 | — | W-3 | 6 | 1.1875 | 5 | 1.1875 | — | 15.5 | 7.375 | 23.00 | — | 208.0 |
| 168 | P16814M170-6050 | 6050 | 29.475 | 29.365 | — | W-3 | 6 | 1.1875 | 5 | 1.1875 | — | 15.5 | 7.375 | 27.25 | — | 227.0 |
| 192 | P19214M170-6050 | 6050 | 33.686 | 33.576 | — | W-3 | 6 | 1.1875 | 5 | 1.1875 | — | 15.5 | 7.375 | 31.38 | — | 340.0 |
| 216 | P21614M170-6050 | 6050 | 37.896 | 37.786 | — | W-3 | 6 | 1.1875 | 5 | 1.1875 | — | 15.5 | 7.375 | 35.63 | — | 390.0 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

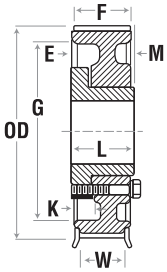
# High Torque Sprockets
# 20mm

**Type A**




**Type AF**

**Type C**




**Type CF**

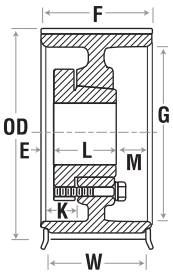
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter | | Type + | Max Bore | Dimensions | | | | | | | | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | O.D. | Flange | | | E | L | M | K | H | F | G | W | |
| **QD 115mm (4.53 in.) Wide Belts (20M-115)** | | | | | | | | | | | | | | | | |
| 34 | P3420M115-F | F | 8.522 | 8.352 | 9.449 | AF-1 | 4.00 | 0.44 | 3.63 | 1.31 | 1.44 | — | 5.38 | 6.88 | 5.0 | 32.0 |
| 36 | P3620M115-F | F | 9.023 | 8.853 | 9.843 | AF-1 | 4.00 | 0.44 | 3.63 | 1.31 | 1.44 | — | 5.38 | 7.00 | 5.0 | 40.0 |
| 38 | P3820M115-F | F | 9.524 | 9.354 | 10.433 | AF-1 | 4.00 | 0.44 | 3.63 | 1.31 | 1.44 | — | 5.38 | 7.56 | 5.0 | 45.0 |
| 40 | P4020M115-F | F | 10.026 | 9.856 | 10.827 | AF-1 | 4.00 | 0.44 | 3.63 | 1.31 | 1.44 | — | 5.38 | 8.00 | 5.0 | 51.0 |
| 44 | P4420M115-F | F | 11.028 | 10.858 | 11.811 | AF-1 | 4.00 | 0.44 | 3.63 | 1.31 | 1.44 | — | 5.38 | 8.93 | 5.0 | 63.0 |
| 48 | P4820M115-J | J | 12.031 | 11.861 | 12.795 | AF-1 | 4.50 | — | 4.50 | 0.88 | 1.18 | — | 5.38 | 9.93 | 5.0 | 84.0 |
| 52 | P5220M115-J | J | 13.033 | 12.863 | 13.764 | AF-2 | 4.50 | — | 4.50 | 0.88 | 1.18 | — | 5.38 | 10.88 | 5.0 | 80.0 |
| 56 | P5620M115-J | J | 14.036 | 13.866 | 14.764 | AF-2 | 4.50 | — | 4.50 | 0.88 | 1.18 | — | 5.38 | 11.88 | 5.0 | 87.0 |
| 60 | P6020M115-J | J | 15.038 | 14.868 | 15.927 | AF-2 | 4.50 | — | 4.50 | 0.88 | 1.18 | — | 5.38 | 13.06 | 5.0 | 94.0 |
| 64 | P6420M115-J | J | 16.041 | 15.871 | 16.929 | AF-2 | 4.50 | — | 4.50 | 0.88 | 1.18 | — | 5.38 | 14.06 | 5.0 | 104.0 |
| 68 | P6820M115-J | J | 17.044 | 16.874 | 17.927 | AF-2 | 4.50 | — | 4.50 | 0.88 | 1.18 | — | 5.38 | 15.00 | 5.0 | 110.0 |
| 72 | P7220M115-J | J | 18.046 | 17.876 | 18.898 | AF-2 | 4.50 | — | 4.50 | 0.88 | 1.18 | — | 5.38 | 16.00 | 5.0 | 119.0 |
| 80 | P8020M115-M | M | 20.051 | 19.881 | 20.866 | CF-2 | 5.50 | 1.25 | 6.75 | 0.12 | 0.18 | — | 5.38 | 18.00 | 5.0 | 182.0 |
| 90 | P9020M115-M | M | 22.558 | 22.388 | 23.425 | CF-2 | 5.50 | 1.25 | 6.75 | 0.12 | 0.18 | — | 5.38 | 20.56 | 5.0 | 212.0 |
| 112 | P11220M115-M | M | 28.072 | 27.902 | — | C-3 | 5.50 | 1.25 | 6.75 | 0.12 | 0.18 | — | 5.38 | 26.38 | — | 239.0 |
| 144 | P14420M115-N | N | 36.092 | 35.922 | — | C-3 | 5.87 | 1.75 | 8.12 | 1.00 | — | — | 5.38 | 34.38 | — | 341.0 |
| 168 | P16820M115-N | N | 42.108 | 41.938 | — | C-3 | 5.87 | 1.75 | 8.12 | 1.00 | — | — | 5.38 | 40.38 | — | 417.0 |
| 192 | P19220M115-N | N | 48.123 | 47.953 | — | C-3 | 5.87 | 1.75 | 8.12 | 1.00 | — | — | 5.38 | 46.25 | — | 500.0 |
| 216 | P21620M115-N | N | 54.138 | 53.968 | — | C-3 | 5.77 | 1.75 | 8.12 | 1.00 | — | — | 5.38 | 52.25 | — | 566.0 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

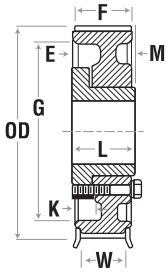
# High Torque Sprockets 20mm

Type A



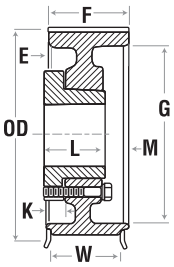

Type AF

Type C



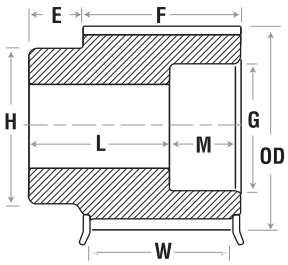

Type CF

Type D




Type DF

Type D (MPB Only)




Type DF (MPB Only)

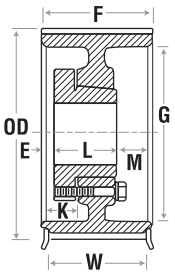
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter O.D. | Diameter Flange | Type + | Max Bore | Dimensions E | Dimensions L | Dimensions M | Dimensions K | Dimensions H | Dimensions F | Dimensions G | Dimensions W | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **QD 170mm (6.69 in.) Wide Belts (20M-170)** | | | | | | | | | | | | | | | | |
| 34 | P3420M170-MPB | 2.125 | 8.522 | 8.352 | 9.449 | DF-1 | 4.38 | 1.25 | 6.50 | 2.25 | — | 6.50 | 7.50 | 6.50 | 7.12 | 82.0 |
| 36 | P3620M170-MPB | 2.125 | 9.023 | 8.853 | 9.843 | DF-1 | 4.50 | 1.25 | 6.50 | 2.25 | — | 7.00 | 7.50 | 7.00 | 7.12 | 93.0 |
| **MPB 170mm (6.69 in.) Wide Belts (20M-170)** | | | | | | | | | | | | | | | | |
| 38 | P3820M170-J | J | 9.524 | 9.354 | 10.433 | AF-1 | 4.50 | 1.00 | 4.50 | 2.00 | 2.18 | — | 7.50 | 7.56 | 7.12 | 56.0 |
| 40 | P4020M170-J | J | 10.026 | 9.856 | 10.827 | AF-1 | 4.50 | 1.00 | 4.50 | 2.00 | 2.18 | — | 7.50 | 8.00 | 7.12 | 64.0 |
| 44 | P4420M170-J | J | 11.028 | 10.858 | 11.811 | AF-1 | 4.50 | 1.00 | 4.50 | 2.00 | 2.18 | — | 7.50 | 8.93 | 7.12 | 81.0 |
| 48 | P4820M170-M | M | 12.031 | 11.861 | 12.795 | AF-1 | 5.50 | 0.06 | 6.75 | 0.68 | 1.50 | — | 7.50 | 9.93 | 7.12 | 113.0 |
| 52 | P5220M170-M | M | 13.033 | 12.863 | 13.764 | AF-1 | 5.50 | 0.06 | 6.75 | 0.68 | 1.50 | — | 7.50 | 10.88 | 7.12 | 141.0 |
| 56 | P5620M170-M | M | 14.036 | 13.866 | 14.764 | AF-1 | 5.50 | 0.06 | 6.75 | 0.68 | 1.50 | — | 7.50 | 11.88 | 7.12 | 170.0 |
| 60 | P6020M170-M | M | 15.038 | 14.868 | 15.927 | AF-1 | 5.50 | 0.06 | 6.75 | 0.68 | 1.50 | — | 7.50 | 13.06 | 7.12 | 199.0 |
| 64 | P6420M170-M | M | 16.041 | 15.871 | 16.929 | AF-2 | 5.50 | 0.06 | 6.75 | 0.68 | 1.50 | — | 7.50 | 14.06 | 7.12 | 175.0 |
| 68 | P6820M170-M | M | 17.044 | 16.874 | 17.927 | AF-2 | 5.50 | 0.06 | 6.75 | 0.68 | 1.50 | — | 7.50 | 15.00 | 7.12 | 187.0 |
| 72 | P7220M170-M | M | 18.046 | 17.876 | 18.898 | AF-2 | 5.50 | 0.06 | 6.75 | 0.68 | 1.50 | — | 7.50 | 16.00 | 7.12 | 196.0 |
| 80 | P8020M170-M | M | 20.051 | 19.881 | 20.866 | AF-2 | 5.50 | 0.06 | 6.75 | 0.68 | 1.50 | — | 7.50 | 18.00 | 7.12 | 214.0 |
| 90 | P9020M170-M | M | 22.558 | 22.388 | 23.425 | AF-2 | 5.50 | 0.06 | 6.75 | 0.68 | 1.50 | — | 7.50 | 20.56 | 7.12 | 250.0 |
| 112 | P11220M170-N | N | 28.072 | 27.902 | — | C-3 | 5.87 | 0.50 | 8.12 | 0.12 | 1.25 | — | 7.50 | 26.25 | 7.12 | 309.0 |
| 144 | P14420M170-N | N | 36.092 | 35.922 | — | C-3 | 5.87 | 0.50 | 8.12 | 0.12 | 1.25 | — | 7.50 | 34.25 | — | 426.0 |
| 168 | P16820M170-P | P | 42.108 | 41.938 | — | C-3 | 7.00 | 0.90 | 9.38 | 0.94 | 1.06 | — | 7.50 | 40.25 | — | 571.0 |
| 192 | P19220M170-P | P | 48.123 | 47.953 | — | C-3 | 7.00 | 0.94 | 9.38 | 0.94 | 1.06 | — | 7.50 | 46.25 | — | 652.0 |
| 216 | P21620M170-P | P | 54.138 | 53.968 | — | C-3 | 7.00 | 0.94 | 9.38 | 0.94 | 1.06 | — | 7.50 | 52.12 | — | 813.0 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

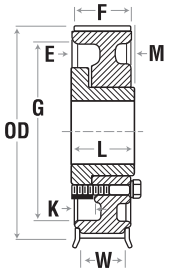
# High Torque Sprockets
# 20mm

Type A



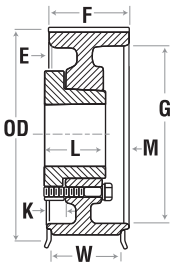

Type AF

Type C



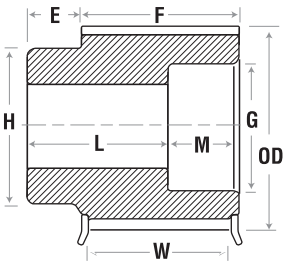

Type CF

Type D




Type DF

Type D
(MPB Only)




Type DF
(MPB Only)

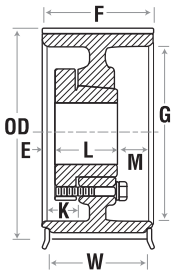
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter | | Type + | Max Bore | Dimensions | | | | | | | | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | O.D. | Flange | | | E | L | M | K | H | F | G | W | |
| **MPB 230mm (9.06 in.) Wide Belts (20M-230)** | | | | | | | | | | | | | | | | |
| 38 | P3820M230-MPB | 2.875 | 9.524 | 9.354 | 10.433 | DF-1 | 4.75 | 1.25 | 7.50 | 3.63 | — | 7.50 | 9.88 | 7.56 | 9.50 | 120.0 |
| 40 | P4020M230-MPB | 2.875 | 10.026 | 9.856 | 10.827 | DF-1 | 5.25 | 1.25 | 8.50 | 2.63 | — | 8.00 | 9.88 | 8.00 | 9.50 | 147.0 |
| 44 | P4420M230-MPB | 2.875 | 11.028 | 10.858 | 11.811 | DF-1 | 5.25 | 1.25 | 8.50 | 2.63 | — | 8.25 | 9.88 | 8.93 | 9.50 | 180.0 |
| **QD 230mm (9.06 in.) Wide Belts (20M-230)** | | | | | | | | | | | | | | | | |
| 48 | P4820M230-M | M | 12.031 | 11.861 | 12.795 | AF-1 | 5.50 | 0.56 | 6.75 | 2.56 | 2.00 | — | 9.88 | 9.93 | 9.50 | 129.0 |
| 52 | P5220M230-M | M | 13.033 | 12.863 | 13.764 | AF-1 | 5.50 | 0.56 | 6.75 | 2.56 | 2.00 | — | 9.88 | 10.88 | 9.50 | 158.0 |
| 56 | P5620M230-M | M | 14.036 | 13.866 | 14.764 | AF-1 | 5.50 | 0.56 | 6.75 | 2.56 | 2.00 | — | 9.88 | 11.88 | 9.50 | 189.0 |
| 60 | P6020M230-M | M | 15.038 | 14.868 | 15.927 | AF-1 | 5.50 | 0.56 | 6.75 | 2.56 | 2.00 | — | 9.88 | 13.06 | 9.50 | 217.0 |
| 64 | P6420M230-M | M | 16.041 | 15.871 | 16.929 | AF-2 | 5.50 | 0.56 | 6.75 | 2.56 | 2.00 | — | 9.88 | 14.06 | 9.50 | 198.0 |
| 68 | P6820M230-N | N | 17.044 | 16.874 | 17.927 | AF-1 | 5.87 | 0.06 | 8.12 | 1.69 | 1.81 | — | 9.88 | 15.00 | 9.50 | 324.0 |
| 72 | P7220M230-N | N | 18.046 | 17.876 | 18.898 | AF-2 | 5.87 | 0.06 | 8.12 | 1.69 | 1.81 | — | 9.88 | 16.00 | 9.50 | 287.0 |
| 80 | P8020M230-N | N | 20.051 | 19.881 | 20.866 | AF-2 | 5.87 | 0.06 | 8.12 | 1.69 | 1.81 | — | 9.88 | 18.00 | 9.50 | 280.0 |
| 90 | P9020M230-N | N | 22.558 | 22.388 | 23.425 | AF-2 | 5.87 | 0.06 | 8.12 | 1.69 | 1.81 | — | 9.88 | 20.56 | 9.50 | 319.0 |
| 112 | P11220M230-N | N | 28.072 | 27.902 | — | A-3 | 5.87 | 0.06 | 8.12 | 1.69 | 1.81 | — | 9.88 | 26.25 | — | 357.0 |
| 144 | P14420M230-P | P | 36.092 | 35.922 | — | D-3 | 7.00 | 0.69 | 9.38 | 1.19 | 1.31 | — | 9.88 | 34.25 | — | 535.0 |
| 168 | P16820M230-P | P | 42.108 | 41.938 | — | D-3 | 7.00 | 0.69 | 9.38 | 1.19 | 1.31 | — | 9.88 | 40.25 | — | 654.0 |
| 192 | P19220M230-W | W | 48.123 | 47.953 | — | C-3 | 8.50 | 0.75 | 11.38 | 0.75 | 1.50 | — | 9.88 | 46.00 | — | 935.0 |
| 216 | P21620M230-W | W | 54.138 | 53.968 | — | C-3 | 8.50 | 0.75 | 11.38 | 0.75 | 1.50 | — | 9.88 | 52.00 | — | 1062.0 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

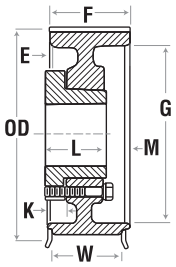
# High Torque Sprockets 20mm

**Type A**




**Type AF**

**Type D**




**Type DF**

| No. of Teeth | Catalog Number | Bore | Pitch | Diameter | | Type + | Max Bore | Dimensions | | | | | | | | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | O.D. | Flange | | | E | L | M | K | H | F | G | W | |
| **QD 290mm (11.42 in.) Wide Belts (20M-290)** | | | | | | | | | | | | | | | | |
| 52 | P5220M290-N | N | 13.033 | 12.863 | 13.764 | AF-1 | 5.87 | 0.75 | 8.12 | 2.38 | 2.50 | — | 12.25 | 10.88 | 11.88 | 187.0 |
| 56 | P5620M290-N | N | 14.036 | 13.866 | 14.764 | AF-1 | 5.87 | 0.75 | 8.12 | 2.38 | 2.50 | — | 12.25 | 11.88 | 11.88 | 223.0 |
| 60 | P6020M290-N | N | 15.038 | 14.868 | 15.927 | AF-1 | 5.87 | 0.75 | 8.12 | 2.38 | 2.50 | — | 12.25 | 13.06 | 11.88 | 257.0 |
| 64 | P6420M290-N | N | 16.041 | 15.871 | 16.929 | AF-1 | 5.87 | 0.75 | 8.12 | 2.38 | 2.50 | — | 12.25 | 14.06 | 11.88 | 299.0 |
| 68 | P6820M290-N | N | 17.044 | 16.874 | 17.927 | AF-1 | 5.87 | 0.75 | 8.12 | 2.38 | 2.50 | — | 12.25 | 15.00 | 11.88 | 346.0 |
| 72 | P7220M290-N | N | 18.046 | 17.876 | 18.898 | AF-2 | 5.87 | 0.75 | 8.12 | 2.38 | 2.50 | — | 12.25 | 16.00 | 11.88 | 311.0 |
| 80 | P8020M290-N | N | 20.051 | 19.881 | 20.866 | AF-2 | 5.87 | 0.75 | 8.12 | 2.38 | 2.50 | — | 12.25 | 18.00 | 11.88 | 314.0 |
| 90 | P9020M290-N | N | 22.558 | 22.388 | 23.425 | AF-2 | 5.87 | 0.75 | 8.12 | 2.38 | 2.50 | — | 12.25 | 20.56 | 11.88 | 359.0 |
| 112 | P11220M290-P | P | 28.072 | 27.902 | — | A-2 | 7.00 | 0.50 | 9.38 | 2.38 | 2.50 | — | 12.25 | 26.12 | — | 513.0 |
| 144 | P14420M290-P | P | 36.092 | 35.922 | — | A-3 | 7.00 | 0.50 | 9.38 | 2.38 | 2.50 | — | 12.25 | 34.00 | — | 637.0 |
| 168 | P16820M290-W | W | 42.108 | 41.938 | — | A-3 | 8.50 | 0.44 | 11.38 | 0.44 | 2.68 | — | 12.25 | 40.00 | — | 891.0 |
| 192 | P19220M290-W | W | 48.123 | 47.953 | — | A-3 | 8.50 | 0.44 | 11.38 | 0.44 | 2.68 | — | 12.25 | 46.00 | — | 1061.0 |
| 216 | P21620M290-W | W | 54.138 | 53.968 | — | A-3 | 8.50 | 0.44 | 11.38 | 0.44 | 2.68 | — | 12.25 | 52.00 | — | 1239.0 |
| **QD 340 mm (13.39 in.) Wide Belts (20M-340)** | | | | | | | | | | | | | | | | |
| 52 | P5220M340-N | N | 13.033 | 12.863 | 13.764 | AF-1 | 5.87 | 0.75 | 8.12 | 5.38 | 2.50 | — | 14.25 | 10.88 | 13.88 | 201.0 |
| 56 | P5620M340-N | N | 14.036 | 13.866 | 14.764 | AF-1 | 5.87 | 0.75 | 8.12 | 5.38 | 2.50 | — | 14.25 | 11.88 | 13.88 | 239.0 |
| 60 | P6020M340-N | N | 15.038 | 14.868 | 15.927 | AF-1 | 5.87 | 0.75 | 8.12 | 5.38 | 2.50 | — | 14.25 | 13.06 | 13.88 | 273.0 |
| 64 | P6420M340-N | N | 16.041 | 15.871 | 16.929 | AF-1 | 5.87 | 0.75 | 8.12 | 5.38 | 2.50 | — | 14.25 | 14.06 | 13.88 | 316.0 |
| 68 | P6820M340-N | N | 17.044 | 16.874 | 17.927 | AF-1 | 5.87 | 0.75 | 8.12 | 5.38 | 2.50 | — | 14.25 | 15.00 | 13.88 | 364.0 |
| 72 | P7220M340-N | N | 18.046 | 17.876 | 18.898 | AF-2 | 5.87 | 0.75 | 8.12 | 5.38 | 2.50 | — | 14.25 | 16.00 | 13.88 | 330.0 |
| 80 | P8020M340-P | P | 20.051 | 19.881 | 20.866 | AF-2 | 7.00 | 1.50 | 9.38 | 3.38 | 3.50 | — | 14.25 | 18.00 | 13.88 | 406.0 |
| 90 | P9020M340-P | P | 22.558 | 22.388 | 23.425 | AF-2 | 7.00 | 1.50 | 9.38 | 3.38 | 3.50 | — | 14.25 | 20.56 | 13.88 | 426.0 |
| 112 | P11220M340-P | P | 28.072 | 27.902 | — | A-2 | 7.00 | 1.50 | 9.38 | 3.38 | 3.50 | — | 14.25 | 26.12 | — | 543.0 |
| 144 | P14420M340-W | W | 36.092 | 35.922 | — | A-3 | 8.50 | 0.38 | 11.38 | 2.50 | 2.63 | — | 14.25 | 34.00 | — | 814.0 |
| 168 | P16820M340-W | W | 42.108 | 41.938 | — | A-3 | 8.50 | 0.38 | 11.38 | 2.50 | 2.63 | — | 14.25 | 40.00 | — | 947.0 |
| 192 | P19220M340-S | S | 48.123 | 47.953 | — | D-3 | 10.00 | 2.50 | 15.75 | 1.00 | 1.12 | — | 14.25 | 46.00 | — | 1368.0 |
| 216 | P21620M340-S | S | 54.138 | 53.968 | — | D-3 | 10.00 | 2.50 | 15.75 | 1.00 | 1.12 | — | 14.25 | 51.88 | — | 1555.0 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

# HTS® 5mm Sprocket Diameters

| No. of Teeth | Diameters mm in PD | Diameters mm in OD | No. of Teeth | Diameters mm in PD | Diameters mm in OD | No. of Teeth | Diameters mm in PD | Diameters mm in OD | No. of Teeth | Diameters mm in PD | Diameters mm in OD | No. of Teeth | Diameters mm in PD | Diameters mm in OD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 20.69 | 19.55 | 43 | 68.44 | 67.30 | 73 | 116.18 | 115.04 | 103 | 163.93 | 162.79 | 133 | 211.68 | 210.54 |
| | 0.815 | 0.770 | | 2.694 | 2.649 | | 4.574 | 4.529 | | 6.454 | 6.409 | | 8.334 | 8.289 |
| 14 | 22.28 | 21.14 | 44 | 70.03 | 68.89 | 74 | 117.77 | 116.63 | 104 | 165.52 | 164.38 | 134 | 213.27 | 212.13 |
| | 0.877 | 0.832 | | 2.757 | 2.712 | | 4.637 | 4.592 | | 6.517 | 6.472 | | 8.396 | 8.351 |
| 15 | 23.87 | 22.73 | 45 | 71.62 | 70.48 | 75 | 119.37 | 118.23 | 105 | 167.11 | 165.97 | 135 | 214.86 | 213.72 |
| | 0.940 | 0.895 | | 2.820 | 2.775 | | 4.699 | 4.654 | | 6.579 | 6.534 | | 8.459 | 8.414 |
| 16 | 25.46 | 24.32 | 46 | 73.21 | 72.07 | 76 | 120.96 | 119.82 | 106 | 168.70 | 167.56 | 136 | 216.45 | 215.31 |
| | 1.003 | 0.958 | | 2.882 | 2.837 | | 4.762 | 4.717 | | 6.642 | 6.597 | | 8.522 | 8.477 |
| 17 | 27.06 | 25.92 | 47 | 74.80 | 73.66 | 77 | 122.55 | 121.41 | 107 | 170.3 | 169.16 | 137 | 218.04 | 216.90 |
| | 1.065 | 1.020 | | 2.945 | 2.900 | | 4.825 | 4.780 | | 6.705 | 6.660 | | 8.584 | 8.539 |
| 18 | 28.65 | 27.51 | 48 | 76.39 | 75.25 | 78 | 124.14 | 123.00 | 108 | 171.89 | 170.75 | 138 | 219.63 | 218.49 |
| | 1.128 | 1.083 | | 3.008 | 2.963 | | 4.887 | 4.842 | | 6.767 | 6.722 | | 8.647 | 8.602 |
| 19 | 30.24 | 29.10 | 49 | 77.99 | 76.85 | 79 | 125.73 | 124.59 | 109 | 173.48 | 172.34 | 139 | 221.23 | 220.09 |
| | 1.191 | 1.146 | | 3.070 | 3.025 | | 4.950 | 4.905 | | 6.830 | 6.785 | | 8.710 | 8.665 |
| 20 | 31.83 | 30.69 | 50 | 79.58 | 78.94 | 80 | 127.32 | 126.18 | 110 | 175.07 | 173.93 | 140 | 222.82 | 221.68 |
| | 1.253 | 1.208 | | 3.133 | 3.088 | | 5.013 | 4.968 | | 6.893 | 6.848 | | 8.772 | 8.727 |
| 21 | 33.42 | 32.28 | 51 | 81.17 | 80.03 | 81 | 128.92 | 127.78 | 111 | 176.66 | 175.52 | 141 | 224.41 | 223.27 |
| | 1.316 | 1.271 | | 3.196 | 3.151 | | 5.075 | 5.030 | | 6.955 | 6.910 | | 8.835 | 8.790 |
| 22 | 35.01 | 33.87 | 52 | 82.76 | 81.62 | 82 | 130.51 | 129.37 | 112 | 178.25 | 177.11 | 142 | 226.00 | 224.86 |
| | 1.379 | 1.334 | | 3.258 | 3.213 | | 5.138 | 5.093 | | 7.018 | 6.973 | | 8.898 | 8.853 |
| 23 | 36.61 | 35.47 | 53 | 84.35 | 83.21 | 83 | 132.10 | 130.96 | 113 | 179.85 | 178.71 | 143 | 227.59 | 226.45 |
| | 1.441 | 1.396 | | 3.321 | 3.276 | | 5.201 | 5.156 | | 7.081 | 7.036 | | 8.960 | 8.915 |
| 24 | 38.20 | 37.06 | 54 | 85.94 | 84.80 | 84 | 133.69 | 132.55 | 114 | 181.44 | 180.30 | 144 | 229.18 | 228.04 |
| | 1.504 | 1.459 | | 3.384 | 3.339 | | 5.263 | 5.218 | | 7.143 | 7.098 | | 9.023 | 8.978 |
| 25 | 39.79 | 38.65 | 55 | 87.54 | 86.40 | 85 | 135.28 | 134.14 | 115 | 183.03 | 181.89 | 145 | 230.77 | 229.63 |
| | 1.566 | 1.521 | | 3.446 | 3.401 | | 5.326 | 5.281 | | 7.206 | 7.161 | | 9.086 | 9.041 |
| 26 | 41.38 | 40.24 | 56 | 89.13 | 87.99 | 86 | 136.87 | 135.73 | 116 | 184.62 | 183.48 | 146 | 232.37 | 231.23 |
| | 1.629 | 1.584 | | 3.509 | 3.464 | | 5.389 | 5.344 | | 7.268 | 7.223 | | 9.148 | 9.103 |
| 27 | 42.97 | 41.83 | 57 | 90.72 | 89.58 | 87 | 138.46 | 137.32 | 117 | 186.21 | 185.07 | 147 | 233.96 | 232.82 |
| | 1.692 | 1.647 | | 3.572 | 3.527 | | 5.451 | 5.406 | | 7.331 | 7.286 | | 9.211 | 9.166 |
| 28 | 44.56 | 43.42 | 58 | 92.31 | 91.17 | 88 | 140.06 | 138.92 | 118 | 187.80 | 186.66 | 148 | 235.55 | 234.41 |
| | 1.754 | 1.709 | | 3.634 | 3.589 | | 5.514 | 5.469 | | 7.394 | 7.349 | | 9.274 | 9.229 |
| 29 | 46.15 | 45.01 | 59 | 93.90 | 92.76 | 89 | 141.65 | 140.51 | 119 | 189.39 | 188.25 | 149 | 237.14 | 236.00 |
| | 1.817 | 1.772 | | 3.697 | 3.652 | | 5.577 | 5.532 | | 7.456 | 7.411 | | 9.336 | 9.291 |
| 30 | 47.75 | 46.61 | 60 | 95.49 | 94.35 | 90 | 143.24 | 142.10 | 120 | 190.99 | 189.85 | 150 | 238.73 | 237.59 |
| | 1.880 | 1.835 | | 3.760 | 3.715 | | 5.639 | 5.594 | | 7.519 | 7.474 | | 9.399 | 9.354 |
| 31 | 49.34 | 48.20 | 61 | 97.08 | 95.94 | 91 | 144.83 | 143.69 | 121 | 192.58 | 191.44 | 151 | 240.32 | 239.18 |
| | 1.942 | 1.897 | | 3.822 | 3.777 | | 5.702 | 5.657 | | 7.582 | 7.537 | | 9.462 | 9.417 |
| 32 | 50.93 | 49.79 | 62 | 98.68 | 97.54 | 92 | 146.42 | 145.28 | 122 | 194.17 | 193.03 | 152 | 241.92 | 240.78 |
| | 2.005 | 1.960 | | 3.885 | 3.840 | | 5.765 | 5.720 | | 7.644 | 7.599 | | 9.524 | 9.479 |
| 33 | 52.52 | 51.38 | 63 | 100.27 | 99.13 | 93 | 148.01 | 146.87 | 123 | 195.76 | 194.62 | 153 | 243.51 | 242.37 |
| | 2.068 | 2.023 | | 3.948 | 3.903 | | 5.827 | 5.782 | | 7.707 | 7.662 | | 9.587 | 9.542 |
| 34 | 54.11 | 52.97 | 64 | 101.86 | 100.72 | 94 | 149.61 | 148.47 | 124 | 197.35 | 196.21 | 154 | 245.10 | 243.96 |
| | 2.130 | 2.085 | | 4.010 | 3.965 | | 5.890 | 5.845 | | 7.770 | 7.725 | | 9.650 | 9.605 |
| 35 | 55.70 | 54.56 | 65 | 103.45 | 102.31 | 95 | 151.20 | 150.06 | 125 | 198.94 | 197.80 | 155 | 246.69 | 245.55 |
| | 2.193 | 2.148 | | 4.073 | 4.028 | | 5.953 | 5.908 | | 7.832 | 7.787 | | 9.712 | 9.667 |
| 36 | 57.30 | 56.16 | 66 | 105.04 | 103.90 | 96 | 152.79 | 151.65 | 126 | 200.54 | 199.40 | 156 | 248.28 | 247.14 |
| | 2.256 | 2.211 | | 4.136 | 4.091 | | 6.015 | 5.970 | | 7.895 | 7.850 | | 9.775 | 9.730 |
| 37 | 58.89 | 57.75 | 67 | 106.63 | 105.49 | 97 | 154.38 | 153.24 | 127 | 202.13 | 200.99 | 157 | 249.87 | 248.73 |
| | 2.318 | 2.273 | | 4.198 | 4.153 | | 6.078 | 6.033 | | 7.958 | 7.913 | | 9.838 | 9.793 |
| 38 | 60.48 | 59.34 | 68 | 108.23 | 107.09 | 98 | 155.97 | 154.83 | 128 | 203.72 | 202.58 | 158 | 251.46 | 250.32 |
| | 2.381 | 2.336 | | 4.261 | 4.216 | | 6.141 | 6.096 | | 8.020 | 7.975 | | 9.900 | 9.855 |
| 39 | 62.07 | 60.93 | 69 | 109.82 | 108.68 | 99 | 157.56 | 156.42 | 129 | 205.31 | 204.17 | 159 | 253.06 | 251.92 |
| | 2.444 | 2.399 | | 4.324 | 4.279 | | 6.203 | 6.158 | | 8.083 | 8.038 | | 9.963 | 9.918 |
| 40 | 63.66 | 62.52 | 70 | 111.41 | 110.27 | 100 | 159.15 | 158.01 | 130 | 206.90 | 205.76 | 160 | 254.65 | 253.51 |
| | 2.506 | 2.461 | | 4.386 | 4.341 | | 6.266 | 6.221 | | 8.146 | 8.101 | | 10.026 | 9.981 |
| 41 | 62.25 | 64.11 | 71 | 113.00 | 111.86 | 101 | 160.75 | 159.61 | 131 | 208.49 | 207.35 | | | |
| | 2.569 | 2.524 | | 4.449 | 4.404 | | 6.329 | 6.284 | | 8.208 | 8.163 | | | |
| 42 | 66.85 | 65.71 | 72 | 114.59 | 113.45 | 102 | 162.34 | 161.20 | 132 | 210.08 | 208.94 | | | |
| | 2.632 | 2.587 | | 4.511 | 4.466 | | 6.391 | 6.346 | | 8.271 | 8.226 | | | |

# HTS® 8mm Sprocket Diameters

| No. of Teeth | Diameters mm in PD | Diameters mm in OD | No. of Teeth | Diameters mm in PD | Diameters mm in OD | No. of Teeth | Diameters mm in PD | Diameters mm in OD | No. of Teeth | Diameters mm in PD | Diameters mm in OD | No. of Teeth | Diameters mm in PD | Diameters mm in OD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 22 | 56.02<br>2.206 | 54.66<br>2.152 | 57 | 145.15<br>5.715 | 143.78<br>5.660 | 92 | 234.28<br>9.223 | 232.90<br>9.169 | 127 | 323.41<br>12.733 | 322.03<br>12.678 | 162 | 412.53<br>16.241 | 411.16<br>16.187 |
| 23 | 58.57<br>2.306 | 57.20<br>2.252 | 58 | 147.70<br>5.815 | 146.32<br>5.761 | 93 | 236.82<br>9.324 | 235.45<br>9.270 | 128 | 325.95<br>12.833 | 324.58<br>12.779 | 163 | 415.08<br>16.342 | 413.70<br>16.288 |
| 24 | 61.12<br>2.406 | 59.74<br>2.352 | 59 | 150.24<br>5.915 | 148.87<br>5.861 | 94 | 239.37<br>9.424 | 238.00<br>9.370 | 129 | 328.50<br>12.933 | 327.12<br>12.879 | 164 | 417.62<br>16.442 | 416.25<br>16.388 |
| 25 | 63.66<br>2.506 | 62.28<br>2.452 | 60 | 152.79<br>6.015 | 151.42<br>5.961 | 95 | 241.92<br>9.524 | 240.54<br>9.470 | 130 | 331.04<br>13.033 | 329.67<br>12.979 | 165 | 420.17<br>16.542 | 418.8<br>16.488 |
| 26 | 66.21<br>2.607 | 64.85<br>2.553 | 61 | 155.34<br>6.116 | 153.96<br>6.062 | 96 | 244.46<br>9.624 | 243.09<br>9.570 | 131 | 333.59<br>13.133 | 332.22<br>13.079 | 166 | 422.72<br>16.642 | 421.34<br>16.588 |
| 27 | 68.75<br>2.707 | 67.39<br>2.653 | 62 | 157.88<br>6.216 | 156.51<br>6.162 | 97 | 247.01<br>9.725 | 245.64<br>9.671 | 132 | 336.14<br>13.234 | 334.76<br>13.180 | 167 | 425.26<br>16.743 | 423.89<br>16.689 |
| 28 | 71.30<br>2.807 | 70.08<br>2.759 | 63 | 160.43<br>6.316 | 159.06<br>6.262 | 98 | 249.55<br>9.825 | 248.18<br>9.771 | 133 | 338.68<br>13.334 | 337.31<br>13.280 | 168 | 427.81<br>16.843 | 426.44<br>16.789 |
| 29 | 73.85<br>2.907 | 72.62<br>2.859 | 64 | 162.97<br>6.416 | 161.60<br>6.362 | 99 | 252.10<br>9.925 | 250.73<br>9.871 | 134 | 341.23<br>13.434 | 339.86<br>13.380 | 169 | 430.35<br>16.943 | 428.98<br>16.889 |
| 30 | 76.39<br>3.008 | 75.13<br>2.958 | 65 | 165.52<br>6.517 | 164.15<br>6.463 | 100 | 254.65<br>10.025 | 253.28<br>9.971 | 135 | 343.77<br>13.534 | 342.40<br>13.480 | 170 | 432.90<br>17.043 | 431.53<br>16.989 |
| 31 | 78.94<br>3.108 | 77.65<br>3.057 | 66 | 168.07<br>6.617 | 166.70<br>6.563 | 101 | 257.19<br>10.126 | 255.82<br>10.072 | 136 | 346.32<br>13.635 | 344.95<br>13.581 | 171 | 435.45<br>17.144 | 434.08<br>17.090 |
| 32 | 81.49<br>3.208 | 80.16<br>3.156 | 67 | 170.61<br>6.717 | 169.24<br>6.663 | 102 | 259.74<br>10.226 | 258.37<br>10.172 | 137 | 348.87<br>13.735 | 347.50<br>13.681 | 172 | 437.99<br>17.244 | 436.62<br>17.190 |
| 33 | 84.03<br>3.308 | 82.68<br>3.255 | 68 | 173.16<br>6.817 | 171.79<br>6.763 | 103 | 262.29<br>10.326 | 260.92<br>10.272 | 138 | 351.41<br>13.835 | 350.04<br>13.781 | 173 | 440.54<br>17.344 | 439.17<br>17.290 |
| 34 | 86.58<br>3.409 | 85.22<br>3.355 | 69 | 175.71<br>6.918 | 174.34<br>6.864 | 104 | 264.83<br>10.427 | 263.46<br>10.372 | 139 | 353.96<br>13.935 | 352.59<br>13.881 | 174 | 443.09<br>17.444 | 441.72<br>17.390 |
| 35 | 89.13<br>3.509 | 87.76<br>3.455 | 70 | 178.25<br>7.018 | 176.88<br>6.964 | 105 | 267.38<br>10.527 | 266.01<br>10.473 | 140 | 356.51<br>14.036 | 355.14<br>13.982 | 175 | 445.63<br>17.544 | 444.26<br>17.491 |
| 36 | 91.67<br>3.609 | 90.30<br>3.555 | 71 | 180.80<br>7.118 | 179.43<br>7.064 | 106 | 269.93<br>10.628 | 268.56<br>10.573 | 141 | 359.05<br>14.136 | 357.68<br>14.082 | 176 | 448.18<br>17.645 | 446.81<br>17.591 |
| 37 | 94.22<br>3.709 | 92.85<br>3.655 | 72 | 183.35<br>7.218 | 181.97<br>7.164 | 107 | 272.47<br>10.728 | 271.10<br>10.673 | 142 | 361.60<br>14.236 | 360.23<br>14.182 | 177 | 450.73<br>17.745 | 449.36<br>17.691 |
| 38 | 96.77<br>3.810 | 95.39<br>3.756 | 73 | 185.89<br>7.319 | 184.52<br>7.265 | 108 | 275.02<br>10.828 | 273.65<br>10.771 | 143 | 364.15<br>14.336 | 362.77<br>14.282 | 178 | 453.27<br>17.845 | 451.90<br>17.791 |
| 39 | 99.31<br>3.910 | 97.94<br>3.856 | 74 | 188.44<br>7.419 | 187.07<br>7.365 | 109 | 277.57<br>10.928 | 276.19<br>10.874 | 144 | 366.69<br>14.437 | 365.32<br>14.383 | 179 | 455.82<br>17.946 | 454.45<br>17.892 |
| 40 | 101.86<br>4.010 | 100.49<br>3.956 | 75 | 190.99<br>7.519 | 189.61<br>7.465 | 110 | 280.11<br>11.028 | 278.74<br>10.974 | 145 | 369.24<br>14.537 | 367.87<br>14.483 | 180 | 458.37<br>18.046 | 456.99<br>17.992 |
| 41 | 104.41<br>4.110 | 103.03<br>4.056 | 76 | 193.53<br>7.619 | 192.16<br>7.565 | 111 | 282.66<br>11.128 | 281.29<br>11.074 | 146 | 371.79<br>14.637 | 370.41<br>14.583 | 181 | 460.91<br>18.146 | 459.54<br>18.092 |
| 42 | 106.95<br>4.211 | 105.58<br>4.157 | 77 | 196.08<br>7.720 | 194.71<br>7.666 | 112 | 285.21<br>11.229 | 283.83<br>11.175 | 147 | 374.33<br>14.737 | 372.96<br>14.683 | 182 | 463.46<br>18.246 | 462.09<br>18.192 |
| 43 | 109.50<br>4.311 | 108.13<br>4.257 | 78 | 198.63<br>7.820 | 197.25<br>7.766 | 113 | 287.75<br>11.329 | 286.38<br>11.275 | 148 | 376.88<br>14.838 | 375.51<br>14.784 | 183 | 466.01<br>18.347 | 464.63<br>18.293 |
| 44 | 112.05<br>4.411 | 110.67<br>4.357 | 79 | 201.17<br>7.920 | 199.81<br>7.866 | 114 | 290.30<br>11.429 | 288.93<br>11.375 | 149 | 379.43<br>14.938 | 378.05<br>14.884 | 184 | 468.55<br>18.447 | 467.18<br>18.393 |
| 45 | 114.59<br>4.511 | 113.22<br>4.457 | 80 | 203.72<br>8.020 | 202.35<br>7.966 | 115 | 292.85<br>11.529 | 291.47<br>11.475 | 150 | 381.96<br>15.038 | 380.60<br>14.984 | 185 | 471.10<br>18.547 | 469.73<br>18.493 |
| 46 | 117.14<br>4.612 | 115.77<br>4.558 | 81 | 206.26<br>8.121 | 204.89<br>8.067 | 116 | 295.39<br>11.630 | 294.02<br>11.576 | 151 | 384.52<br>15.138 | 353.15<br>15.084 | 186 | 473.65<br>18.647 | 472.27<br>18.593 |
| 47 | 119.68<br>4.712 | 118.31<br>4.658 | 82 | 208.81<br>8.221 | 207.44<br>8.167 | 117 | 297.94<br>11.730 | 296.57<br>11.676 | 152 | 387.06<br>15.239 | 385.70<br>15.185 | 187 | 476.19<br>18.748 | 474.82<br>18.694 |
| 48 | 122.23<br>4.812 | 120.86<br>4.758 | 83 | 211.36<br>8.321 | 209.99<br>8.267 | 118 | 300.48<br>11.830 | 299.11<br>11.776 | 153 | 389.61<br>15.339 | 388.24<br>15.285 | 188 | 478.74<br>18.848 | 477.37<br>18.794 |
| 49 | 124.78<br>4.912 | 123.41<br>4.858 | 84 | 213.90<br>8.421 | 212.53<br>8.367 | 119 | 303.03<br>11.930 | 301.66<br>11.876 | 154 | 392.16<br>15.439 | 390.79<br>15.385 | 189 | 481.28<br>18.948 | 479.91<br>18.894 |
| 50 | 127.32<br>5.013 | 125.95<br>4.959 | 85 | 216.45<br>8.522 | 215.08<br>8.468 | 120 | 305.58<br>12.031 | 304.21<br>11.977 | 155 | 394.70<br>15.540 | 393.33<br>15.486 | 190 | 483.83<br>19.048 | 482.46<br>18.994 |
| 51 | 129.87<br>5.113 | 128.50<br>5.059 | 86 | 219.00<br>8.622 | 217.63<br>8.568 | 121 | 308.12<br>12.131 | 306.75<br>12.077 | 156 | 397.25<br>15.640 | 395.88<br>15.586 | 191 | 486.38<br>19.149 | 485.01<br>19.095 |
| 52 | 132.42<br>5.213 | 131.05<br>5.159 | 87 | 221.54<br>8.722 | 220.17<br>8.668 | 122 | 310.67<br>12.231 | 309.30<br>12.177 | 157 | 399.80<br>15.740 | 398.43<br>15.686 | 192 | 488.92<br>19.249 | 487.55<br>19.195 |
| 53 | 134.96<br>5.314 | 133.59<br>5.259 | 88 | 224.09<br>8.822 | 222.72<br>8.768 | 123 | 313.22<br>12.331 | 311.85<br>12.227 | 158 | 402.34<br>15.840 | 400.97<br>15.786 | | | |
| 54 | 137.51<br>5.414 | 136.14<br>5.360 | 89 | 226.64<br>8.923 | 225.27<br>8.869 | 124 | 315.76<br>12.432 | 314.39<br>12.378 | 159 | 404.89<br>15.941 | 403.52<br>15.887 | | | |
| 55 | 140.06<br>5.514 | 138.68<br>5.460 | 90 | 229.18<br>9.023 | 227.81<br>8.969 | 125 | 318.31<br>12.532 | 316.94<br>12.478 | 160 | 407.44<br>16.041 | 406.07<br>15.987 | | | |
| 56 | 142.60<br>5.614 | 141.23<br>5.560 | 91 | 231.73<br>9.123 | 230.36<br>9.069 | 126 | 320.86<br>12.632 | 319.48<br>12.578 | 161 | 409.98<br>16.141 | 408.61<br>16.087 | | | |

# HTS® 14mm Sprocket Diameters

| No. of Teeth | Diameters mm in PD | OD | No. of Teeth | Diameters mm in PD | OD | No. of Teeth | Diameters mm in PD | OD | No. of Teeth | Diameters mm in PD | OD | No. of Teeth | Diameters mm in PD | OD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 28 | 124.78<br>4.912 | 122.12<br>4.808 | 66 | 294.12<br>11.579 | 291.32<br>11.469 | 104 | 463.46<br>18.246 | 460.66<br>18.136 | 142 | 632.80<br>24.913 | 630.01<br>24.803 | 180 | 802.14<br>31.580 | 799.35<br>31.47 |
| 29 | 129.23<br>5.088 | 126.57<br>4.983 | 67 | 298.57<br>11.755 | 295.78<br>11.645 | 105 | 467.92<br>18.422 | 465.12<br>18.312 | 143 | 637.26<br>25.089 | 634.46<br>24.979 | 181 | 806.60<br>31.756 | 803.80<br>31.646 |
| 30 | 133.69<br>5.263 | 130.99<br>5.157 | 68 | 303.03<br>11.930 | 300.24<br>11.820 | 106 | 472.37<br>18.597 | 469.58<br>18.487 | 144 | 641.71<br>25.264 | 638.92<br>25.154 | 182 | 811.05<br>31.931 | 808.26<br>31.821 |
| 31 | 138.15<br>5.439 | 135.46<br>5.333 | 69 | 307.49<br>12.106 | 304.69<br>11.996 | 107 | 476.83<br>18.773 | 474.03<br>18.663 | 145 | 646.17<br>25.440 | 643.37<br>25.330 | 183 | 815.51<br>32.107 | 812.72<br>31.997 |
| 32 | 142.60<br>5.614 | 139.88<br>5.507 | 70 | 311.94<br>12.281 | 309.15<br>12.171 | 108 | 481.28<br>18.948 | 478.49<br>18.838 | 146 | 650.63<br>25.615 | 647.83<br>25.505 | 184 | 819.97<br>32.252 | 817.17<br>32.172 |
| 33 | 147.06<br>5.790 | 144.35<br>5.683 | 71 | 316.40<br>12.457 | 313.61<br>12.347 | 109 | 485.74<br>19.124 | 482.95<br>19.014 | 147 | 655.08<br>25.791 | 652.29<br>25.681 | 185 | 824.42<br>32.458 | 821.63<br>32.348 |
| 34 | 151.52<br>5.965 | 148.79<br>5.858 | 72 | 320.86<br>12.632 | 318.06<br>12.522 | 110 | 490.20<br>19.299 | 487.40<br>19.189 | 148 | 659.54<br>25.966 | 656.74<br>25.856 | 186 | 828.88<br>32.633 | 826.08<br>32.523 |
| 35 | 155.98<br>6.141 | 153.24<br>6.033 | 73 | 325.31<br>12.808 | 322.52<br>12.698 | 111 | 494.65<br>19.475 | 491.86<br>19.365 | 149 | 663.99<br>26.141 | 661.20<br>26.031 | 187 | 833.33<br>32.808 | 830.54<br>32.698 |
| 36 | 160.43<br>6.316 | 157.68<br>6.208 | 74 | 329.77<br>12.983 | 326.97<br>12.873 | 112 | 499.11<br>19.650 | 496.32<br>19.540 | 150 | 668.45<br>26.317 | 665.66<br>26.207 | 188 | 837.79<br>32.954 | 835.00<br>32.874 |
| 37 | 164.88<br>6.491 | 162.13<br>6.383 | 75 | 334.22<br>13.158 | 331.43<br>13.048 | 113 | 503.57<br>19.825 | 500.77<br>19.715 | 151 | 672.91<br>26.492 | 670.11<br>26.382 | 189 | 842.25<br>33.159 | 839.45<br>33.049 |
| 38 | 169.34<br>6.667 | 166.60<br>6.559 | 76 | 338.68<br>13.334 | 335.89<br>13.224 | 114 | 508.20<br>20.001 | 505.23<br>19.891 | 152 | 677.36<br>26.668 | 674.57<br>26.558 | 190 | 846.70<br>33.335 | 843.91<br>33.225 |
| 39 | 173.80<br>6.842 | 171.02<br>6.733 | 77 | 343.14<br>13.509 | 340.34<br>13.399 | 115 | 512.48<br>20.176 | 509.68<br>20.056 | 153 | 681.82<br>26.843 | 679.03<br>26.733 | 191 | 851.16<br>33.510 | 848.37<br>33.400 |
| 40 | 178.25<br>7.018 | 175.49<br>6.909 | 78 | 347.59<br>13.685 | 344.80<br>13.575 | 116 | 516.93<br>20.352 | 514.14<br>20.242 | 154 | 690.73<br>27.194 | 687.94<br>27.084 | 192 | 855.62<br>33.686 | 852.82<br>33.576 |
| 41 | 182.71<br>7.193 | 179.92<br>7.083 | 79 | 352.05<br>13.860 | 349.26<br>13.750 | 117 | 521.39<br>20.527 | 518.60<br>20.417 | 155 | 690.73<br>27.194 | 687.94<br>27.084 | 193 | 860.07<br>33.861 | 857.28<br>33.751 |
| 42 | 187.17<br>7.369 | 184.37<br>7.259 | 80 | 356.51<br>14.036 | 353.71<br>13.926 | 118 | 525.85<br>20.703 | 523.05<br>20.593 | 156 | 695.19<br>27.370 | 692.39<br>27.260 | 194 | 864.53<br>34.037 | 861.75<br>33.927 |
| 43 | 191.62<br>7.544 | 188.83<br>7.434 | 81 | 360.96<br>14.211 | 358.17<br>14.101 | 119 | 530.30<br>20.878 | 527.51<br>20.768 | 157 | 699.64<br>27.545 | 696.85<br>27.435 | 195 | 868.98<br>34.212 | 866.44<br>34.112 |
| 44 | 196.08<br>7.720 | 193.28<br>7.610 | 82 | 365.42<br>14.387 | 362.63<br>14.277 | 120 | 534.76<br>21.054 | 531.97<br>20.944 | 158 | 704.10<br>27.720 | 701.31<br>27.610 | 196 | 873.44<br>34.387 | 870.64<br>34.277 |
| 45 | 200.53<br>7.895 | 197.74<br>7.785 | 83 | 369.88<br>14.562 | 367.08<br>14.452 | 121 | 539.22<br>21.229 | 536.42<br>21.119 | 159 | 708.56<br>27.896 | 705.76<br>27.786 | 197 | 877.90<br>34.553 | 875.11<br>34.453 |
| 46 | 204.99<br>8.071 | 202.20<br>7.961 | 84 | 374.33<br>14.737 | 371.54<br>14.627 | 122 | 543.67<br>21.404 | 540.88<br>21.294 | 160 | 713.01<br>28.071 | 710.22<br>27.961 | 198 | 882.35<br>34.738 | 879.55<br>34.628 |
| 47 | 209.45<br>8.246 | 206.65<br>8.136 | 85 | 378.79<br>14.913 | 375.99<br>14.803 | 123 | 548.13<br>21.580 | 545.34<br>21.470 | 161 | 717.47<br>28.247 | 714.68<br>28.137 | 199 | 886.81<br>34.914 | 884.02<br>34.804 |
| 48 | 213.90<br>8.421 | 211.11<br>8.311 | 86 | 383.24<br>15.068 | 380.45<br>14.978 | 124 | 552.59<br>21.755 | 549.79<br>21.645 | 162 | 721.93<br>28.422 | 719.13<br>28.312 | 200 | 891.27<br>35.089 | 888.47<br>34.979 |
| 49 | 218.36<br>8.597 | 215.57<br>8.487 | 87 | 387.70<br>15.264 | 384.91<br>15.154 | 125 | 557.04<br>21.931 | 554.25<br>21.821 | 163 | 726.38<br>28.598 | 723.59<br>28.488 | 201 | 895.72<br>35.265 | 892.94<br>35.155 |
| 50 | 222.82<br>8.772 | 220.02<br>8.662 | 88 | 392.16<br>15.439 | 389.36<br>15.329 | 126 | 561.50<br>22.106 | 558.70<br>21.996 | 164 | 730.84<br>28.773 | 728.05<br>28.663 | 202 | 900.18<br>35.440 | 897.38<br>35.330 |
| 51 | 227.27<br>8.948 | 224.48<br>8.838 | 89 | 396.61<br>15.615 | 393.82<br>15.505 | 127 | 565.95<br>22.282 | 563.16<br>22.172 | 165 | 735.30<br>28.949 | 782.50<br>28.839 | 203 | 906.64<br>35.616 | 901.85<br>35.506 |
| 52 | 231.73<br>9.123 | 228.94<br>9.013 | 90 | 401.07<br>15.790 | 398.28<br>15.680 | 128 | 570.41<br>22.457 | 567.62<br>22.347 | 166 | 739.75<br>29.124 | 736.96<br>29.014 | 204 | 909.09<br>35.791 | 906.30<br>35.681 |
| 53 | 236.19<br>9.229 | 233.39<br>9.189 | 91 | 405.53<br>15.966 | 402.73<br>15.856 | 129 | 574.87<br>22.633 | 572.07<br>22.523 | 167 | 744.21<br>29.299 | 741.41<br>29.189 | 205 | 913.55<br>35.966 | 910.74<br>35.856 |
| 54 | 240.64<br>9.474 | 237.85<br>9.354 | 92 | 409.98<br>16.141 | 407.19<br>16.031 | 130 | 579.32<br>22.808 | 576.53<br>22.689 | 168 | 748.66<br>29.475 | 745.87<br>29.365 | 206 | 918.00<br>36.142 | 915.21<br>36.032 |
| 55 | 245.10<br>9.650 | 242.30<br>9.540 | 93 | 414.44<br>16.316 | 411.64<br>16.206 | 131 | 583.78<br>22.983 | 580.99<br>22.873 | 169 | 753.12<br>29.650 | 750.33<br>29.540 | 207 | 922.46<br>36.317 | 919.66<br>36.207 |
| 56 | 249.55<br>9.825 | 246.76<br>9.715 | 94 | 418.90<br>16.492 | 416.10<br>16.382 | 132 | 588.24<br>23.159 | 585.44<br>23.049 | 170 | 757.58<br>29.826 | 754.78<br>29.716 | 208 | 926.92<br>36.493 | 924.13<br>36.383 |
| 57 | 254.01<br>10.000 | 251.22<br>9.890 | 95 | 423.35<br>16.667 | 420.56<br>16.557 | 133 | 592.69<br>23.334 | 589.90<br>23.224 | 171 | 762.03<br>30.001 | 759.24<br>29.891 | 209 | 931.97<br>36.668 | 928.57<br>36.558 |
| 58 | 258.47<br>10.176 | 255.67<br>10.066 | 96 | 427.81<br>16.843 | 425.01<br>16.733 | 134 | 597.15<br>23.510 | 594.35<br>23.400 | 172 | 766.49<br>30.177 | 763.70<br>30.067 | 210 | 935.83<br>36.844 | 933.04<br>36.734 |
| 59 | 262.92<br>10.351 | 260.13<br>10.241 | 97 | 432.26<br>17.018 | 429.47<br>16.908 | 135 | 601.61<br>23.685 | 598.81<br>23.575 | 173 | 770.95<br>30.352 | 768.15<br>3.242 | 211 | 940.29<br>37.019 | 937.49<br>36.909 |
| 60 | 267.38<br>10.527 | 264.59<br>10.417 | 98 | 436.72<br>17.194 | 433.93<br>17.084 | 136 | 606.06<br>23.861 | 603.27<br>23.751 | 174 | 775.40<br>30.528 | 772.61<br>30.418 | 212 | 944.74<br>37.195 | 941.96<br>37.085 |
| 61 | 271.84<br>10.702 | 269.04<br>10.592 | 99 | 441.18<br>17.369 | 438.38<br>17.259 | 137 | 610.52<br>24.036 | 607.72<br>23.926 | 175 | 779.86<br>30.703 | 777.06<br>30.593 | 213 | 949.20<br>37.370 | 946.40<br>37.260 |
| 62 | 276.29<br>10.878 | 273.50<br>10.768 | 100 | 445.63<br>17.545 | 442.84<br>17.435 | 138 | 614.97<br>24.212 | 612.18<br>24.102 | 176 | 784.32<br>30.878 | 781.52<br>30.768 | 214 | 953.65<br>37.545 | 950.85<br>37.435 |
| 63 | 280.75<br>11.053 | 277.95<br>10.943 | 101 | 450.09<br>17.720 | 447.30<br>17.610 | 139 | 619.43<br>24.387 | 616.64<br>24.277 | 177 | 788.77<br>31.054 | 785.98<br>30.944 | 215 | 958.11<br>37.721 | 955.32<br>37.611 |
| 64 | 285.21<br>11.229 | 282.41<br>11.119 | 102 | 454.55<br>17.895 | 451.75<br>17.785 | 140 | 623.89<br>24.562 | 621.09<br>24.452 | 178 | 793.23<br>31.228 | 790.43<br>31.119 | 216 | 962.57<br>37.896 | 959.76<br>37.786 |
| 65 | 289.66<br>11.404 | 286.87<br>11.294 | 103 | 459.00<br>18.071 | 456.21<br>17.961 | 141 | 628.34<br>24.738 | 625.55<br>24.628 | 179 | 797.68<br>31.405 | 794.89<br>31.295 | | | |

# HTS® 20mm Sprocket Diameters

| No. of Teeth | Diameters mm in PD | Diameters mm in OD | No. of Teeth | Diameters mm in PD | Diameters mm in OD | No. of Teeth | Diameters mm in PD | Diameters mm in OD | No. of Teeth | Diameters mm in PD | Diameters mm in OD | No. of Teeth | Diameters mm in PD | Diameters mm in OD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 34 | 216.45<br>8.522 | 212.13<br>8.352 | 71 | 452.00<br>17.795 | 447.68<br>17.625 | 108 | 687.55<br>27.069 | 683.23<br>26.899 | 145 | 923.10<br>36.342 | 918.78<br>36.172 | 182 | 1158.65<br>45.616 | 1154.33<br>45.446 |
| 35 | 222.82<br>8.772 | 218.50<br>8.602 | 72 | 458.37<br>18.046 | 454.05<br>17.876 | 109 | 693.92<br>27.320 | 689.60<br>27.150 | 146 | 929.46<br>36.593 | 925.15<br>36.423 | 183 | 1165.01<br>45.867 | 1160.70<br>45.697 |
| 36 | 229.18<br>9.023 | 224.87<br>8.853 | 73 | 464.73<br>18.297 | 460.41<br>18.127 | 110 | 700.28<br>27.570 | 695.96<br>27.400 | 147 | 935.83<br>36.840 | 931.51<br>36.674 | 184 | 1171.38<br>46.117 | 1167.06<br>45.947 |
| 37 | 235.55<br>9.274 | 231.23<br>9.104 | 74 | 471.10<br>18.547 | 466.78<br>18.377 | 111 | 706.65<br>27.821 | 702.33<br>27.651 | 148 | 942.20<br>37.094 | 937.88<br>36.924 | 185 | 1177.75<br>46.368 | 1173.43<br>46.198 |
| 38 | 241.92<br>9.524 | 237.60<br>9.354 | 75 | 477.46<br>18.798 | 473.15<br>18.628 | 112 | 713.01<br>28.071 | 708.70<br>27.901 | 149 | 948.56<br>37.345 | 944.25<br>37.175 | 186 | 1184.11<br>46.619 | 1179.79<br>46.449 |
| 39 | 248.28<br>9.775 | 243.96<br>9.605 | 76 | 483.83<br>19.048 | 479.51<br>18.878 | 113 | 719.38<br>28.322 | 715.06<br>28.152 | 150 | 954.93<br>37.596 | 950.61<br>37.426 | 187 | 1190.48<br>46.859 | 1186.16<br>46.699 |
| 40 | 254.65<br>10.026 | 250.33<br>9.855 | 77 | 490.20<br>19.299 | 485.88<br>19.129 | 114 | 725.75<br>28.573 | 721.43<br>28.403 | 151 | 961.30<br>37.846 | 956.98<br>37.676 | 188 | 1196.85<br>47.120 | 1192.53<br>46.950 |
| 41 | 261.01<br>10.276 | 256.70<br>10.106 | 78 | 496.56<br>19.550 | 492.25<br>19.380 | 115 | 732.11<br>28.823 | 727.79<br>28.653 | 152 | 967.66<br>38.097 | 963.34<br>37.927 | 189 | 1203.21<br>47.371 | 1198.89<br>47.201 |
| 42 | 267.38<br>10.527 | 263.06<br>10.357 | 79 | 502.93<br>19.800 | 498.61<br>19.630 | 116 | 738.48<br>29.074 | 734.16<br>28.904 | 153 | 974.03<br>38.348 | 969.71<br>38.178 | 190 | 1209.58<br>47.621 | 1205.26<br>47.451 |
| 43 | 273.75<br>10.777 | 269.43<br>10.607 | 80 | 509.30<br>20.051 | 504.98<br>19.881 | 117 | 744.85<br>29.325 | 740.53<br>29.155 | 154 | 980.39<br>38.598 | 976.08<br>38.428 | 191 | 1215.94<br>47.672 | 1211.63<br>47.702 |
| 44 | 280.11<br>11.028 | 275.79<br>10.858 | 81 | 515.66<br>20.302 | 511.34<br>20.132 | 118 | 751.21<br>29.575 | 746.89<br>29.405 | 155 | 986.76<br>38.849 | 982.44<br>38.679 | 192 | 1222.31<br>48.122 | 1217.99<br>47.952 |
| 45 | 286.48<br>11.279 | 282.16<br>11.109 | 82 | 522.03<br>20.552 | 517.71<br>20.382 | 119 | 757.58<br>29.826 | 753.26<br>29.656 | 156 | 993.13<br>39.099 | 988.81<br>38.929 | 193 | 1228.68<br>48.373 | 1224.36<br>48.203 |
| 46 | 292.85<br>11.529 | 288.53<br>11.469 | 83 | 528.39<br>20.803 | 524.08<br>20.633 | 120 | 763.94<br>30.077 | 759.63<br>29.907 | 157 | 999.49<br>39.350 | 995.18<br>39.180 | 194 | 1235.04<br>48.624 | 1230.72<br>48.454 |
| 47 | 299.21<br>11.780 | 294.89<br>11.610 | 84 | 534.76<br>21.054 | 530.44<br>20.884 | 121 | 770.31<br>30.327 | 765.99<br>30.157 | 158 | 1005.86<br>39.601 | 1001.54<br>39.431 | 195 | 1241.41<br>48.874 | 1237.09<br>48.704 |
| 48 | 305.58<br>12.031 | 301.26<br>11.861 | 85 | 541.13<br>21.304 | 536.81<br>21.134 | 122 | 776.68<br>30.578 | 772.36<br>30.408 | 159 | 1012.23<br>39.851 | 1007.91<br>39.681 | 196 | 1247.77<br>49.125 | 1243.46<br>48.955 |
| 49 | 311.94<br>12.281 | 307.63<br>12.111 | 86 | 547.49<br>21.555 | 543.18<br>21.385 | 123 | 783.04<br>30.828 | 778.72<br>30.658 | 160 | 1018.59<br>40.102 | 1014.27<br>39.932 | 197 | 1254.14<br>49.376 | 1249.82<br>49.206 |
| 50 | 318.31<br>12.532 | 313.99<br>12.362 | 87 | 553.86<br>21.805 | 549.54<br>21.635 | 124 | 789.41<br>31.079 | 785.09<br>30.909 | 161 | 1024.96<br>40.353 | 1020.64<br>40.183 | 198 | 1260.51<br>49.626 | 1256.19<br>49.456 |
| 51 | 324.68<br>12.763 | 320.36<br>12.613 | 88 | 560.23<br>22.056 | 555.91<br>21.886 | 125 | 795.77<br>31.330 | 791.46<br>31.160 | 162 | 1031.32<br>40.603 | 1027.01<br>40.433 | 199 | 1266.87<br>49.577 | 1262.56<br>49.707 |
| 52 | 331.04<br>13.033 | 326.72<br>12.863 | 89 | 566.59<br>22.307 | 562.27<br>22.137 | 126 | 805.14<br>31.580 | 797.82<br>31.410 | 163 | 1037.69<br>40.854 | 1033.37<br>40.684 | 200 | 1273.24<br>50.128 | 1268.92<br>49.958 |
| 53 | 337.41<br>13.284 | 333.09<br>13.114 | 90 | 572.96<br>22.557 | 568.64<br>22.387 | 127 | 808.51<br>31.831 | 804.19<br>31.661 | 164 | 1044.06<br>41.105 | 1039.74<br>40.935 | 201 | 1279.61<br>50.378 | 1275.29<br>50.208 |
| 54 | 343.77<br>13.534 | 339.46<br>13.364 | 91 | 579.32<br>22.808 | 575.01<br>22.638 | 128 | 814.87<br>32.082 | 810.56<br>31.912 | 165 | 1050.42<br>41.355 | 1046.10<br>41.185 | 202 | 1285.97<br>50.629 | 1281.65<br>50.459 |
| 55 | 350.14<br>13.785 | 345.82<br>13.615 | 92 | 585.69<br>23.059 | 581.37<br>22.889 | 129 | 821.24<br>32.332 | 816.92<br>32.162 | 166 | 1056.79<br>41.606 | 1052.47<br>41.436 | 203 | 1292.34<br>50.679 | 1288.02<br>50.709 |
| 56 | 356.51<br>14.036 | 352.19<br>13.856 | 93 | 592.06<br>23.309 | 587.74<br>23.139 | 130 | 827.61<br>32.583 | 823.29<br>32.413 | 167 | 1063.16<br>41.856 | 1058.34<br>41.686 | 204 | 1298.70<br>51.130 | 1294.39<br>50.960 |
| 57 | 362.87<br>14.286 | 358.56<br>14.116 | 94 | 598.42<br>23.560 | 594.10<br>23.390 | 131 | 833.97<br>32.834 | 829.65<br>32.664 | 168 | 1069.52<br>42.107 | 1065.20<br>41.937 | 205 | 1305.07<br>51.381 | 1300.75<br>51.211 |
| 58 | 369.24<br>14.537 | 364.92<br>14.367 | 95 | 604.72<br>23.811 | 600.47<br>43.641 | 132 | 840.34<br>33.084 | 836.02<br>32.914 | 169 | 1075.89<br>42.358 | 1071.57<br>42.188 | 206 | 1311.44<br>51.631 | 1307.12<br>51.461 |
| 59 | 375.61<br>14.788 | 371.29<br>14.618 | 96 | 611.15<br>24.061 | 606.84<br>23.891 | 133 | 846.70<br>33.335 | 842.39<br>33.165 | 170 | 1082.25<br>42.608 | 1077.94<br>42.438 | 207 | 1317.80<br>51.882 | 1313.48<br>51.712 |
| 60 | 381.97<br>15.038 | 377.65<br>14.868 | 97 | 617.52<br>24.312 | 613.20<br>24.142 | 134 | 853.07<br>33.585 | 848.75<br>33.415 | 171 | 1088.62<br>42.859 | 1084.30<br>42.689 | 208 | 1324.17<br>52.133 | 1319.85<br>51.963 |
| 61 | 388.34<br>15.289 | 384.02<br>15.119 | 98 | 623.89<br>24.562 | 619.57<br>24.392 | 135 | 859.44<br>33.836 | 855.12<br>33.666 | 172 | 1094.99<br>43.110 | 1090.67<br>42.940 | 209 | 1330.54<br>52.383 | 1326.22<br>52.213 |
| 62 | 394.70<br>15.540 | 390.39<br>15.370 | 99 | 630.25<br>24.813 | 625.94<br>24.643 | 136 | 865.80<br>34.087 | 861.48<br>33.917 | 173 | 1101.35<br>43.350 | 1097.03<br>43.190 | 210 | 1336.90<br>52.634 | 1332.58<br>52.464 |
| 63 | 401.07<br>15.790 | 396.75<br>15.620 | 100 | 636.62<br>25.064 | 632.30<br>24.894 | 137 | 872.17<br>34.337 | 867.85<br>34.167 | 174 | 1107.72<br>43.611 | 1103.40<br>43.441 | 211 | 1343.27<br>52.885 | 1338.95<br>52.715 |
| 64 | 407.44<br>16.041 | 403.12<br>15.871 | 101 | 642.99<br>25.314 | 638.67<br>25.144 | 138 | 878.54<br>34.588 | 874.22<br>34.418 | 175 | 1114.08<br>43.862 | 1109.77<br>43.692 | 212 | 1349.63<br>53.135 | 1345.32<br>52.965 |
| 65 | 413.80<br>16.291 | 409.48<br>16.121 | 102 | 649.35<br>25.565 | 645.03<br>25.395 | 139 | 884.90<br>34.839 | 880.58<br>34.669 | 176 | 1120.45<br>44.112 | 1116.13<br>43.942 | 213 | 1356.00<br>53.386 | 1351.68<br>53.216 |
| 66 | 420.17<br>16.542 | 415.85<br>16.372 | 103 | 655.72<br>25.816 | 651.40<br>25.646 | 140 | 891.27<br>35.089 | 886.95<br>34.919 | 177 | 1126.82<br>44.363 | 1122.50<br>44.193 | 214 | 1362.37<br>53.635 | 1358.05<br>53.456 |
| 67 | 426.54<br>16.793 | 422.22<br>16.623 | 104 | 662.08<br>26.066 | 657.77<br>25.896 | 141 | 897.63<br>35.340 | 893.32<br>35.170 | 178 | 1133.18<br>44.614 | 1128.87<br>44.444 | 215 | 1368.73<br>53.887 | 1364.41<br>53.717 |
| 68 | 432.90<br>17.043 | 428.58<br>16.873 | 105 | 668.45<br>26.317 | 664.13<br>26.147 | 142 | 904.00<br>35.591 | 899.68<br>35.421 | 179 | 1139.55<br>44.854 | 1135.23<br>44.694 | 216 | 1375.10<br>54.136 | 1370.79<br>53.958 |
| 69 | 439.27<br>17.299 | 434.95<br>17.124 | 106 | 674.82<br>26.568 | 670.50<br>26.398 | 143 | 910.37<br>35.841 | 906.05<br>35.671 | 180 | 1145.92<br>45.115 | 1141.60<br>44.945 | | | |
| 70 | 445.63<br>17.545 | 441.32<br>17.375 | 107 | 681.18<br>26.818 | 676.87<br>26.648 | 144 | 916.73<br>36.092 | 912.41<br>35.922 | 181 | 1152.28<br>45.365 | 1147.96<br>45.195 | | | |

## DRIVE ALIGNMENT

To assure proper drive alignment, you should refer to the information in this section for center distance alignment. The alternative is to change the idler position, so that the belt can be slipped onto the drive easily. When you install the belt, never force it over the flange. This may cause belt tensile damage.

Positive belts are most sensitive to misalignment, so never use this kind of drive in applications where misalignment is prevalent. Inconsistent belt wear and premature tensile failure may result.

The two most common types of misalignment can be seen in the drawings below. Parallel misalignment is caused when the driver and driven shafts are parallel, but the two sprockets lie in different planes. When the two shafts are not parallel, the drive is angularly misaligned.

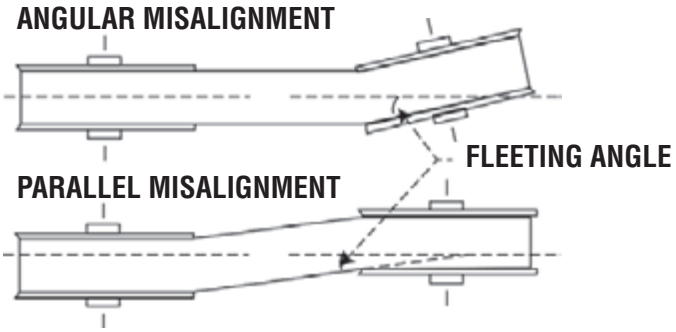
A fleeting angle (shown here) shows where the belt enters and exits the sprocket, and equals the sum of the parallel and angular misalignments.

Any degree of sprocket misalignment will result in some belt life reduction. Misalignment of all positive belt drives should not exceed 1/4" or 1/16" per foot of center distance. Alignment should be checked with a good straight-edge tool applied to their machined side surfaces from driver to driven and from driven to driver shafts. This way the effect of parallel and angular misalignment can be observed.

Drive misalignment can also cause problems of belt tracking. Some tracking is normal and will not affect performance. However, where center distance is greater than eight times the small sprocket diameter, tracking can be a problem. Special adjustment may be needed. You have to correct the parallel position of the two sprockets until one flange guides the belt in the system and the belt tracks fully on all sprockets. Regardless of the drive's center distance, the best operation will be with the belt contacting only one flange in the system.

You will find the real application problem when the belt contacts flanges on opposite sides of the sprockets. This traps the belt into undesirable parallel misalignment.

Improper bushing installation can result in the entire bushing/sprocket assembly to be "cocked" on the shaft. This leads to angular misalignment. Be sure to follow 's bushing installation instructions.




## INSTALLATION AND TENSIONING ALLOWANCES

We do not recommend fixed center drives. To avoid belt damage and excessive wear, refer to the Distance Allowance Charts. The standard installation allowance is the minimum decrease in the center distance required to install a belt when flanged sprockets are removed from their shafts for belt installation. The charts first column spells this out with more comprehensive information needed for the minimum increase in center distance required for a belt's tension during it's normal life.

If a belt is to be installed over flanged sprockets without removing them, the additional installation center distance allowances shown in the second table must be added to the first table data.

## Distance Allowance Chart

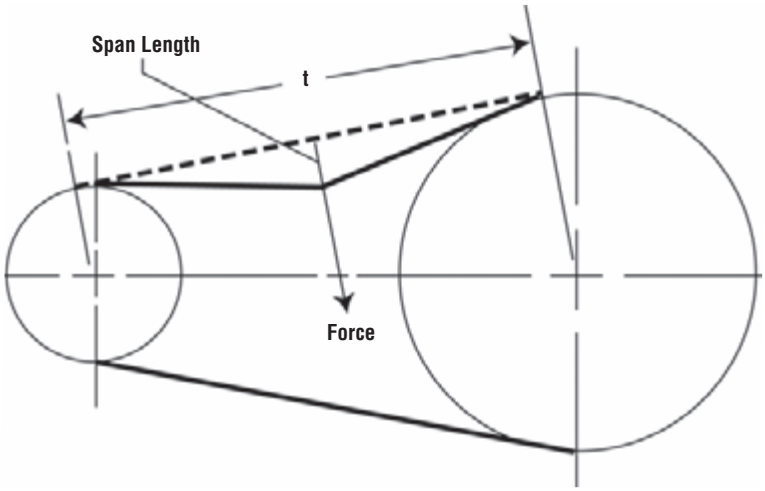
| Belt Length (in) | * Standard Installation Allowance | Tensioning Allowance (Any Drive) |
|---|---|---|
| 20 and under | 0.04" | 0.03" |
| Over 20 to 40 | 0.05" | 0.03" |
| Over 40 to 60 | 0.07" | 0.04" |
| Over 60 to 90 | 0.09" | 0.05" |
| Over 90 to 120 | 0.11" | 0.05" |
| Over 120 to 160 | 0.14" | 0.05" |
| Over 160 to 190 | 0.17" | 0.05" |
| Over 190 to 260 | 0.21" | 0.05" |

* Flanged Sprockets Removed for Installation.

## HTS BELT TENSIONING AND DEFLECTION FORCE

Lay the belt on the sprockets, adjusting the takeup, so that the belt teeth mesh securely with sprocket grooves. Measure the belt span "t." Then tighten the belt, so that it deflects 1/64" for each inch of belt span when a force is applied. (See Table below.)

**Example:** A 14mm pitch belt, 85mm wide, with a span of 30" and a maximum force of 28 lbs. applied, should deflect 30/64 inch. Deflection 1/64 per inch of span. (Measure the span length "t" as shown in the sketch below).




$$t = \sqrt{C^2 - \frac{(D - d)^2}{2}}$$

These ranges of deflection forces are applicable for drive installation. Actual operation tension depends on the number of teeth mesh, system rigidity, peak loads, etc.

| Belt Pitch | Belt Width | Force* |
|---|---|---|
| 5mm | 9mm | 9 to 18 oz. |
| | 15mm | 1 to 2 lbs. |
| | 25mm | 1-1/2 to 3 lbs. |
| 8mm | 20mm | 3 to 4 lbs. |
| | 30mm | 5 to 6-1/2 lbs. |
| | 50mm | 9 to 12 lbs. |
| | 85mm | 16 to 20 lbs. |
| 14mm | 40 mm | 10 to 13 lbs. |
| | 55mm | 15 to 18 lbs. |
| | 85 mm | 23 to 28 lbs. |
| | 115mm | 32 to 39 lbs. |
| | 170mm | 48 to 57 lbs. |
| 20mm | 115mm | 45 to 55 lbs. |
| | 170mm | 70 to 85 lbs. |
| | 230mm | 95 to 120 lbs. |
| | 290mm | 120 to 150 lbs. |
| | 340mm | 145 to 180 lbs. |

*Force applies to speeds exceeding 600 rpm.

**Note:** For belts wider than 2", you can avoid belt distortion by placing a 3/4" or 1" metal strip across the belt between belt and tension tester.

# High HP HTS Synchronous Sprockets

"W" High HP HTS® sprockets (RPP® Tooth Profile) – run with Hawk Pd®, Panther®, QT Power Chain® belts.

"W" High HP HTS® sprockets are designed to run with latest design, higher horsepower belts.

Martin's high HP HTS® sprockets are designed to run with today's highest horsepower RPP® profile belts.

High HP HTS® synchronous sprockets allow you more flexibility in your selection criteria. The expanded line allows you to fit the application with the most cost effective sprockets.

**W 24 8M 22 - JA**

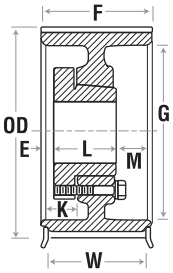
- **W** – Hight HP HTS®
- **24** – Number of Teeth
- **8M** – Belt Pitch
- **22** – Belt Width (mm)
- **JA** – Bushing or MPB

| Belt Pitch | Belt Width (mm) |
|---|---|
| 8mm | 12, 22, 35, 60 |
| 14mm | 20, 42, 65, 90, 120 |

- Available in 8mm and 14mm pitches
- Belt widths: 12mm, 22mm, 35mm, 60mm (8mm pitch)
  20mm, 42mm, 65mm, 90mm, 120mm (14mm pitch)
- Available in QD, TB or MPB styles from stock.
- **Typical Part Number: W248M22-JA**

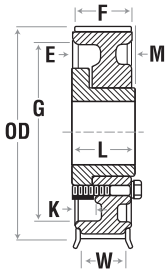
# High HP HTS® Sprockets
# 8mm

Type A



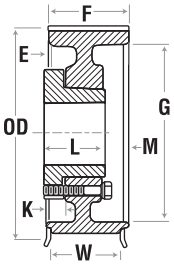

Type AF

Type C



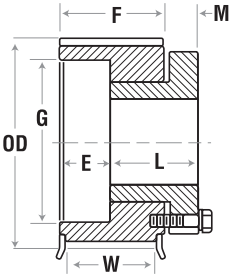

Type CF

Type D




Type DF

Type E •




Type EF •

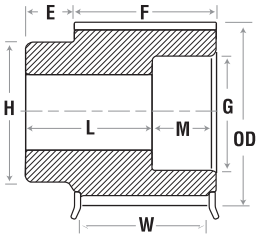
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter O.D. | Diameter Flange | Type + | Max Bore | Dimensions E | L | M | K | H | F | G | W | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **8mm Pitch, 12 mm (.47 in.) Wide Belts (8M-12)** | | | | | | | | | | | | | | | | |
| 22 | W228M12-MPB | MPB | 2.206 | 2.154 | 2.562 | MPB | 1.188 | 0.623 | 1.452 | — | — | 1.620 | 0.827 | — | 0.577 | 1.0 |
| 24 | W248M12-JA | JA | 2.406 | 2.354 | 2.75 | EF-1 • | 1.25 | 0.265 | 1.063 | 0.5 | — | — | 0.827 | 1.34 | 0.577 | 0.5 |
| 26 | W268M12-JA | JA | 2.607 | 2.554 | 2.937 | EF-1 • | 1.25 | 0.265 | 1.063 | 0.5 | — | — | 0.827 | 1.34 | 0.577 | 0.6 |
| 28 | W288M12-H | H | 2.807 | 2.755 | 3.156 | EF-1 • | 1.5 | -0.048 | 1.25 | 0.375 | — | — | 0.827 | 1.57 | 0.577 | 0.7 |
| 30 | W308M12-H | H | 3.008 | 2.955 | 3.344 | EF-1 • | 1.5 | -0.048 | 1.25 | 0.375 | — | — | 0.827 | 1.57 | 0.577 | 0.9 |
| 32 | W328M12-H | H | 3.208 | 3.155 | 3.562 | EF-1 • | 1.5 | -0.048 | 1.25 | 0.375 | — | — | 0.827 | 1.57 | 0.577 | 1.1 |
| 34 | W348M12-SH | SH | 3.409 | 3.355 | 3.75 | DF-1 | 1.688 | 0.5 | 1.313 | 0.014 | — | — | 0.827 | 2.75 | 0.577 | 1.1 |
| 36 | W368M12-SH | SH | 3.609 | 3.556 | 3.937 | DF-1 | 1.688 | 0.5 | 1.313 | 0.014 | — | — | 0.827 | 2.82 | 0.577 | 1.3 |
| 38 | W388M12-SH | SH | 3.810 | 3.756 | 4.156 | DF-1 | 1.688 | 0.5 | 1.313 | 0.014 | — | — | 0.827 | 3 | 0.577 | 1.6 |
| 40 | W408M12-SH | SH | 4.010 | 3.956 | 4.344 | DF-1 | 1.688 | 0.5 | 1.313 | 0.014 | — | — | 0.827 | 3 | 0.577 | 1.9 |
| 44 | W448M12-SDS | SDS | 4.411 | 4.357 | 4.75 | CF-1 | 2 | 0.548 | 1.375 | — | 0.077 | — | 0.827 | 3.5 | 0.577 | 2.1 |
| 48 | W488M12-SDS | SDS | 4.812 | 4.757 | 5.157 | CF-1 | 2 | 0.548 | 1.375 | — | 0.077 | — | 0.827 | 3.800 | 0.577 | 2.7 |
| 56 | W568M12-SDS | SDS | 5.614 | 5.558 | 5.937 | CF-1 | 2 | 0.548 | 1.375 | — | 0.077 | — | 0.827 | 4.600 | 0.577 | 4.0 |
| 64 | W648M12-SDS | SDS | 6.416 | 6.359 | 6.75 | CF-1 | 2 | 0.548 | 1.375 | — | 0.077 | — | 0.827 | 5.400 | 0.577 | 5.5 |
| 72 | W728M12-SDS | SDS | 7.218 | 7.16 | 7.562 | CF-1 | 2 | 0.548 | 1.375 | — | 0.077 | — | 0.827 | 6.200 | 0.577 | 7.3 |
| 80 | W808M12-SDS | SDS | 8.020 | 7.961 | 8.375 | CF-2 | 2 | 0.548 | 1.375 | — | 0.077 | — | 0.827 | 6.900 | 0.577 | 9.2 |
| 90 | W908M12-SDS | SDS | 9.023 | 8.963 | — | C-2 | 2 | 0.548 | 1.375 | — | 0.077 | — | 0.827 | 7.625 | — | 9.5 |
| 112 | W1128M12-SK | SK | 11.229 | 11.166 | — | C-3 | 2.625 | 0.688 | 1.938 | 0.423 | — | — | 0.827 | 9.875 | — | 13.3 |
| 144 | W1448M12-SK | SK | 14.447 | 14.37 | — | C-3 | 2.625 | 0.688 | 1.938 | 0.423 | — | — | 0.827 | 12.875 | — | 19.1 |
| 192 | W1928M12-SF | SF | 19.249 | 19.176 | — | C-3 | 2.938 | 0.813 | 2.063 | 0.423 | — | — | 0.827 | 17.625 | — | 23.0 |
| **8mm Pitch, 22 mm (.86 in.) Wide Belts (8M-22)** | | | | | | | | | | | | | | | | |
| 22 | W228M22-MPB | MPB | 2.206 | 2.154 | 2.562 | MPBF-1 | 1.188 | 0.619 | 1.84 | — | — | 1.625 | 1.22 | — | 0.97 | 1.3 |
| 24 | W248M22-JA | JA | 2.406 | 2.354 | 2.750 | EF-1 • | 1.25 | 0.658 | 1.063 | 0.5 | — | — | 1.22 | 1.34 | 0.97 | 0.7 |
| 26 | W268M22-JA | JA | 2.607 | 2.554 | 2.937 | EF-1 • | 1.25 | 0.658 | 1.063 | 0.5 | — | — | 1.22 | 1.34 | 0.97 | 1.0 |
| 28 | W288M22-H | H | 2.807 | 2.755 | 3.156 | EF-1 • | 1.5 | 0.345 | 1.25 | 0.375 | — | — | 1.22 | 1.57 | 0.97 | 1.1 |
| 30 | W308M22-H | H | 3.008 | 2.955 | 3.344 | EF-1 • | 1.5 | 0.345 | 1.25 | 0.375 | — | — | 1.22 | 1.57 | 0.97 | 1.3 |
| 32 | W328M22-H | H | 3.208 | 3.155 | 3.562 | CF-1 • | 1.5 | 0.030 | 1.25 | — | 0.345 | — | 1.22 | 1.57 | 0.97 | 1.7 |
| 34 | W348M22-SH | SH | 3.409 | 3.355 | 3.75 | DF-1 | 1.688 | 0.092 | 1.313 | — | 0.408 | — | 1.22 | 2.75 | 0.97 | 1.3 |
| 36 | W368M22-SH | SH | 3.609 | 3.556 | 3.937 | DF-1 | 1.688 | 0.092 | 1.313 | — | 0.408 | — | 1.22 | 2.82 | 0.97 | 1.6 |
| 38 | W388M22-SH | SH | 3.810 | 3.756 | 4.156 | DF-1 | 1.688 | 0.092 | 1.313 | — | 0.408 | — | 1.22 | 3 | 0.97 | 1.9 |
| 40 | W408M22-SH | SH | 4.010 | 3.956 | 4.344 | DF-1 | 1.688 | 0.092 | 1.313 | — | 0.408 | — | 1.22 | 3 | 0.97 | 2.3 |
| 44 | W448M22-SDS | SDS | 4.411 | 4.357 | 4.75 | DF-1 | 2 | 0.155 | 1.375 | — | 0.47 | — | 1.22 | 3.5 | 0.97 | 2.5 |
| 48 | W488M22-SDS | SDS | 4.812 | 4.757 | 5.157 | DF-1 | 2 | 0.155 | 1.375 | — | 0.47 | — | 1.22 | 3.8 | 0.97 | 3.2 |
| 56 | W568M22-SDS | SDS | 5.614 | 5.558 | 5.937 | DF-1 | 2 | 0.155 | 1.375 | — | 0.47 | — | 1.22 | 4.6 | 0.97 | 4.6 |
| 64 | W648M22-SK | SK | 6.416 | 6.359 | 6.75 | DF-1 | 2.625 | 0.438 | 1.938 | -0.28 | 0.25 | — | 1.22 | 5.4 | 0.97 | 7.7 |
| 72 | W728M22-SK | SK | 7.218 | 7.16 | 7.562 | DF-1 | 2.625 | 0.438 | 1.938 | -0.28 | 0.25 | — | 1.22 | 6.2 | 0.97 | 9.1 |
| 80 | W808M22-SK | SK | 8.020 | 7.961 | 8.375 | DF-2 | 2.625 | 0.438 | 1.938 | -0.28 | 0.25 | — | 1.22 | 6.9 | 0.97 | 9.1 |
| 90 | W908M22-SK | SK | 9.023 | 8.963 | — | D-2 | 2.625 | 0.438 | 1.938 | -0.28 | 0.25 | — | 1.22 | 7.63 | — | 12.0 |
| 112 | W1128M22-SK | SK | 11.229 | 11.166 | — | D-3 | 2.625 | 0.438 | 1.938 | -0.28 | 0.25 | — | 1.22 | 9.88 | — | 15.3 |
| 144 | W1448M22-SF | SF | 14.447 | 14.37 | — | D-3 | 2.938 | 0.563 | 2.063 | -0.28 | 0.25 | — | 1.22 | 12.88 | — | 19.1 |
| 192 | W1928M22-E | E | 19.249 | 19.176 | — | C-3 | 3.5 | 1.202 | 2.625 | 0.202 | -0.202 | — | 1.22 | 17.63 | — | 38.4 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

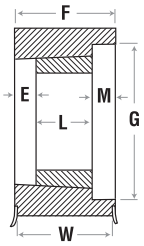
# High HP HTS® Sprockets
# 8mm

Type MPB



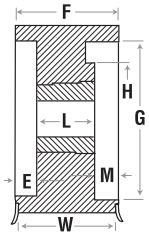

Type MPBF

Type K




Type KF

Type W




Type WF

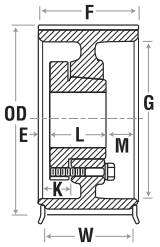
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter | | Type + | Max Bore | Dimensions | | | | | | | | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | O.D. | Flange | | | E | L | M | K | H | F | G | W | |
| **8mm Pitch, 35 mm (1.38in.) Wide Belts (8M - 35)** | | | | | | | | | | | | | | | | |
| 22 | W228M35-MPB | MPB | 2.206 | 2.154 | 2.56 | MBPF-1 | 1.188 | 0.618 | 2.35 | — | — | 1.625 | 1.73 | — | 1.428 | 1.6 |
| 24 | W248M35-MPB | MPB | 2.406 | 2.354 | 2.75 | MBPF-1 | 1.250 | 0.618 | 2.35 | — | — | 1.8125 | 1.73 | — | 1.428 | 2.0 |
| 26 | W268M35-MPB | MPB | 2.607 | 2.554 | 2.94 | MBPF-1 | 1.375 | 0.618 | 2.35 | — | — | 2 | 1.73 | — | 1.428 | 2.4 |
| 28 | W288M35-H | H | 2.807 | 2.755 | 3.16 | EF-1 • | 1.5 | 0.855 | 1.25 | 0.375 | — | — | 1.73 | 1.57 | 1.428 | 1.5 |
| 30 | W308M35-H | H | 3.008 | 2.955 | 3.34 | EF-1 • | 1.5 | 0.855 | 1.25 | 0.375 | — | — | 1.73 | 1.57 | 1.428 | 1.9 |
| 32 | W328M35-H | H | 3.208 | 3.155 | 3.56 | AF-1 • | 1.5 | 0.245 | 1.25 | 0.235 | 0.62 | — | 1.73 | 1.57 | 1.428 | 2.4 |
| 34 | W348M35-SH | SH | 3.409 | 3.355 | 3.75 | AF-1 | 1.688 | 0.12 | 1.3125 | 0.298 | 0.62 | — | 1.73 | 2.75 | 1.428 | 2.4 |
| 36 | W368M35-SH | SH | 3.609 | 3.556 | 3.94 | AF-1 | 1.688 | 0.12 | 1.3125 | 0.298 | 0.62 | — | 1.73 | 2.82 | 1.428 | 2.8 |
| 38 | W388M35-SH | SH | 3.81 | 3.756 | 4.16 | AF-1 | 1.688 | 0.12 | 1.3125 | 0.298 | 0.62 | — | 1.73 | 3 | 1.428 | 3.0 |
| 40 | W408M35-SH | SH | 4.01 | 3.956 | 4.34 | AF-1 | 1.688 | 0.12 | 1.3125 | 0.298 | 0.62 | — | 1.73 | 3 | 1.428 | 2.8 |
| 44 | W448M35-SD | SD | 4.411 | 4.357 | 4.75 | DF-1 | 2 | 0.313 | 1.8125 | 0.232 | 0.25 | — | 1.73 | 3.5 | 1.428 | 3.1 |
| 48 | W488M35-SD | SD | 4.812 | 4.757 | 5.16 | DF-1 | 2 | 0.313 | 1.8125 | 0.232 | 0.25 | — | 1.73 | 3.8 | 1.428 | 3.5 |
| 56 | W568M35-SK | SK | 5.614 | 5.558 | 5.94 | DF-1 | 2.625 | 0.438 | 1.9375 | 0.23 | 0.25 | — | 1.73 | 4.6 | 1.428 | 5.3 |
| 64 | W648M35-SK | SK | 6.416 | 6.359 | 6.75 | DF-1 | 2.625 | 0.438 | 1.9375 | 0.23 | 0.25 | — | 1.73 | 5.4 | 1.428 | 8.4 |
| 72 | W728M35-SK | SK | 7.218 | 7.16 | 7.56 | DF-1 | 2.625 | 0.438 | 1.9375 | 0.23 | 0.25 | — | 1.73 | 6.2 | 1.428 | 9.1 |
| 80 | W808M35-SF | SF | 8.02 | 7.961 | 8.38 | DF-1 | 2.938 | 0.563 | 2.0625 | 0.23 | 0.25 | — | 1.73 | 6.9 | 1.428 | 15.1 |
| 90 | W908M35-SF | SF | 9.023 | 8.963 | — | D-2 | 2.938 | 0.563 | 2.0625 | 0.23 | 0.25 | — | 1.73 | 7.625 | — | 20.7 |
| 112 | W1128M35-SF | SF | 11.229 | 11.166 | — | A-3 | 2.938 | 0.563 | 2.0625 | 0.23 | 0.25 | — | 1.73 | 9.875 | — | 18.0 |
| 144 | W1448M35-E | E | 14.447 | 14.37 | — | C-3 | 3.5 | 0.893 | 2.6250 | — | 0.107 | — | 1.73 | 12.875 | — | 38.0 |
| 192 | W1928M35-E | E | 19.249 | 19.176 | — | C-3 | 3.5 | 0.893 | 2.6250 | — | 0.107 | — | 1.73 | 17.625 | — | 53.0 |
| **8mm Pitch, 60 mm (2.36 in.) Wide Belts (8M-60)** | | | | | | | | | | | | | | | | |
| 22 | W228M60-MPB | MPB | 2.206 | 2.154 | 2.562 | MPBF-1 | 1.188 | 0.619 | 3.375 | — | — | 1.625 | 2.756 | — | 2.506 | 2.2 |
| 24 | W248M60-MPB | MPB | 2.406 | 2.354 | 2.75 | MPBF-1 | 1.25 | 0.619 | 3.375 | — | — | 1.813 | 2.756 | — | 2.506 | 2.7 |
| 26 | W268M60-MPB | MPB | 2.607 | 2.554 | 2.937 | MPBF-1 | 1.375 | 0.619 | 3.375 | — | — | 2 | 2.756 | — | 2.506 | 3.3 |
| 28 | W288M60-MPB | MPB | 2.807 | 2.755 | 3.156 | MPBF-1 | 1.5 | 0.619 | 3.375 | — | — | 2.281 | 2.756 | — | 2.506 | 4.4 |
| 30 | W308M60-MPB | MPB | 3.008 | 2.955 | 3.344 | MPBF-1 | 1.563 | 0.619 | 3.375 | — | — | 2.468 | 2.756 | — | 2.506 | 5.1 |
| 32 | W328M60-MPB | MPB | 3.208 | 3.155 | 3.562 | MPBF-1 | 1.625 | 0.619 | 3.375 | — | — | 2.593 | 2.756 | — | 2.506 | 5.9 |
| 34 | W348M60-MPB | MPB | 3.409 | 3.355 | 3.750 | MPBF-1 | 1.688 | 0.619 | 3.375 | — | — | 2.796 | 2.756 | — | 2.506 | 6.6 |
| 36 | W368M60-MPB | MPB | 3.609 | 3.556 | 3.937 | MPBF-1 | 1.75 | 0.619 | 3.375 | — | — | 3 | 2.756 | — | 2.506 | 7.8 |
| 36 | W368M60-2012 | 2012* | 3.609 | 3.556 | 3.937 | KF-1 | 2 | 1.506 | 1.25 | — | — | — | 2.756 | 2.82 | 2.506 | 2.3 |
| 38 | W388M60-MPB | MPB | 3.810 | 3.756 | 4.156 | MPBF-1 | 1.938 | 0.619 | 3.375 | — | — | 3.188 | 2.756 | — | 2.506 | 8.8 |
| 38 | W388M60-2012 | 2012* | 3.810 | 3.756 | 4.156 | KF-1 | 2 | 1.506 | 1.25 | — | — | — | 2.756 | 3 | 2.506 | 2.8 |
| 40 | W408M60-MPB | MPB | 4.010 | 3.956 | 4.344 | MPBF-1 | 2.125 | 0.619 | 3.375 | — | — | 3.813 | 2.756 | — | 2.506 | 9.8 |
| 40 | W408M60-2012 | 2012* | 4.010 | 3.956 | 4.344 | WF-1 | 2 | 1.506 | 1.25 | — | — | — | 2.756 | 3 | 2.506 | 2.3 |
| 44 | W448M60-2517 | 2517 | 4.411 | 4.357 | 4.75 | WF-1 | 2.5 | 0.503 | 1.75 | 0.503 | — | — | 2.756 | 3.5 | 2.506 | 5.4 |
| 48 | W488M60-2517 | 2517 | 4.812 | 4.757 | 5.157 | WF-1 | 2.5 | 0.503 | 1.75 | 0.503 | — | — | 2.756 | 3.8 | 2.506 | 3.2 |
| 56 | W568M60-3020 | 3020 | 5.614 | 5.558 | 5.937 | WF-1 | 3 | 0.378 | 2 | 0.378 | — | — | 2.756 | 4.6 | 2.506 | 6.3 |
| 64 | W648M60-SF | SF | 6.416 | 6.359 | 6.750 | AF-1 | 2.938 | -0.061 | 2.063 | 0.754 | 0.752 | — | 2.756 | 5.4 | 2.506 | 9.8 |
| 72 | W728M60-E | E | 7.218 | 7.160 | 7.562 | AF-1 | 3.5 | — | 2.625 | 0.131 | 1 | — | 2.756 | 6.2 | 2.506 | 12.8 |
| 80 | W808M60-E | E | 8.020 | 7.961 | 8.375 | AF-1 | 3.5 | — | 2.625 | 0.131 | 1 | — | 2.756 | 6.9 | 2.506 | 19.3 |
| 90 | W908M60-E | E | 9.023 | 8.963 | — | A-1 | 3.5 | — | 2.625 | 0.131 | 1 | — | 2.756 | 7.625 | — | 20.7 |
| 112 | W1128M60-F | F | 11.229 | 11.166 | — | C-3 | 4 | 0.869 | 3.625 | — | 0.256 | — | 2.756 | 9.875 | — | 50.3 |
| 144 | W1448M60-F | F | 14.447 | 14.37 | — | C-3 | 4 | 0.869 | 3.625 | — | 0.256 | — | 2.756 | 12.875 | — | 73.2 |
| 192 | W1928M60-F | F | 19.249 | 19.176 | — | C-3 | 4 | 0.869 | 3.625 | — | 0.256 | — | 2.756 | 17.625 | — | 81.3 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

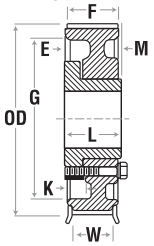
# High HP HTS® Sprockets
# 14mm

**Type A**



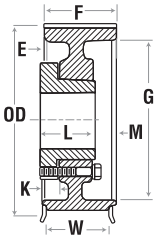

**Type AF**

**Type C**



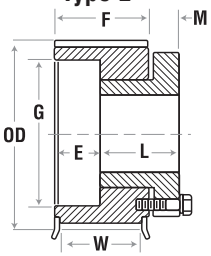

**Type CF**

**Type D**



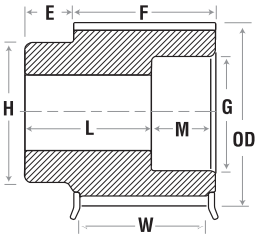

**Type DF**

**Type E •**



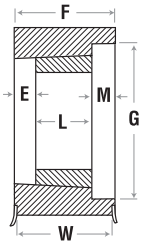

**Type EF •**

**Type MPB**




**Type MPBF**

**Type K**




**Type KF**

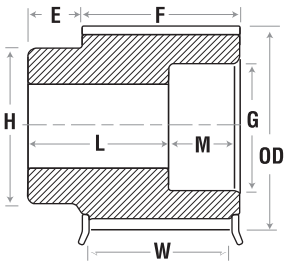
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter O.D. | Diameter Flange | Type + | Max Bore | Dimensions E | Dimensions L | Dimensions M | Dimensions K | Dimensions H | Dimensions F | Dimensions G | Dimensions W | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **14mm Pitch, 20 mm (.79in.) Wide Belts (14M - 20)** | | | | | | | | | | | | | | | | |
| 28 | W2814M20-SK | SK | 4.912 | 4.805 | 5.56 | DF-1 | 2.625 | 0.688 | 1.938 | -0.03 | — | — | 1.22 | 2.74 | 0.908 | 3.6 |
| 29 | W2914M20-SK | SK | 5.088 | 4.981 | 5.56 | DF-1 | 2.625 | 0.688 | 1.938 | -0.03 | — | — | 1.22 | 2.74 | 0.908 | 4.0 |
| 30 | W3014M20-SK | SK | 5.263 | 5.156 | 6.13 | DF-1 | 2.625 | 0.688 | 1.938 | -0.03 | — | — | 1.22 | 2.74 | 0.908 | 4.4 |
| 32 | W3214M20-SK | SK | 5.614 | 5.507 | 6.13 | DF-1 | 2.625 | 0.688 | 1.938 | -0.03 | — | — | 1.22 | 2.74 | 0.908 | 5.3 |
| 34 | W3414M20-SK | SK | 5.965 | 5.857 | 6.5 | DF-1 | 2.625 | 0.688 | 1.938 | -0.03 | — | — | 1.22 | 2.74 | 0.908 | 6.2 |
| 36 | W3614M20-SF | SF | 6.316 | 6.208 | 6.81 | CF-1 | 2.938 | 0.813 | 2.063 | -0.03 | — | — | 1.22 | 3.05 | 0.908 | 5.7 |
| 38 | W3814M20-SF | SF | 6.667 | 6.559 | 7.16 | CF-1 | 2.938 | 0.813 | 2.063 | -0.03 | — | — | 1.22 | 3.05 | 0.908 | 6.5 |
| 40 | W4014M20-SF | SF | 7.018 | 6.91 | 7.5 | CF-1 | 2.938 | 0.813 | 2.063 | -0.03 | — | — | 1.22 | 3.05 | 0.908 | 7.6 |
| 44 | W4414M20-E | E | 7.72 | 7.611 | 8.22 | CF-1 | 3.5 | 1 | 2.625 | 0.405 | — | — | 1.22 | — | 0.908 | 10.2 |
| 48 | W4814M20-E | E | 8.421 | 8.312 | 8.94 | CF-1 | 3.5 | 1 | 2.625 | 0.405 | — | — | 1.22 | — | 0.908 | 13.0 |
| 52 | W5214M20-E | E | 9.123 | 9.014 | 9.69 | CF-1 | 3.5 | 1 | 2.625 | 0.405 | — | — | 1.22 | — | 0.908 | 16.7 |
| 56 | W5614M20-E | E | 9.825 | 9.715 | 10.38 | CF-1 | 3.5 | 1 | 2.625 | 0.405 | — | — | 1.22 | — | 0.908 | 20.4 |
| 60 | W6014M20-E | E | 10.527 | 10.417 | 11.06 | CF-1 | 3.5 | 1 | 2.625 | 0.405 | — | — | 1.22 | — | 0.908 | 23.6 |
| 64 | W6414M20-E | E | 11.229 | 11.118 | 11.75 | CF-1 | 3.5 | 1 | 2.625 | 0.405 | — | — | 1.22 | — | 0.908 | 27.1 |
| 68 | W6814M20-E | E | 11.93 | 11.82 | 12.5 | CF-2 | 3.5 | 1 | 2.625 | 0.405 | — | — | 1.22 | — | 0.908 | 26.8 |
| 72 | W7214M20-E | E | 12.632 | 12.521 | 13.19 | CF-2 | 3.5 | 1 | 2.625 | 0.405 | — | — | 1.22 | — | 0.908 | 29.6 |
| 80 | W8014M20-E | E | 14.036 | 13.924 | 14.63 | CF-2 | 3.5 | 1 | 2.625 | 0.405 | — | — | 1.22 | — | 0.908 | 35.3 |
| 90 | W9014M20-E | E | 15.79 | 15.677 | — | C-3 | 3.5 | 1.188 | 2.625 | 0.218 | -0.188 | — | 1.22 | 13.563 | — | 36.6 |
| 112 | W11214M20-E | E | 19.65 | 19.535 | — | C-3 | 3.5 | 1.188 | 2.625 | 0.218 | -0.188 | — | 1.22 | 17.375 | — | 48.0 |
| 144 | W14414M20-E | E | 25.264 | 25.147 | — | C-3 | 3.5 | 1.188 | 2.625 | 0.218 | -0.188 | — | 1.22 | 23 | — | 59.4 |
| 168 | W16814M20-F | F | 29.475 | 29.355 | — | C-3 | 4 | 1.563 | 3.625 | 0.842 | -0.438 | — | 1.22 | 27.25 | — | 98.4 |
| 192 | W19214M20-J | J | 33.686 | 33.564 | — | C-3 | 4.5 | 1.938 | 4.5 | 1.342 | -0.626 | — | 1.22 | 31.375 | — | 147.4 |
| 216 | W21614M20-J | J | 37.896 | 37.772 | — | C-3 | 4.5 | 1.938 | 4.5 | 1.342 | -0.626 | — | 1.22 | 35.625 | — | 155.6 |
| **14mm Pitch, 42 mm (1.65 in.) Wide Belts (14M-42)** | | | | | | | | | | | | | | | | |
| 28 | W2814M42-SK | SK | 4.912 | 4.805 | 5.56 | EF-1 • | 2.625 | 0.837 | 1.938 | 0.688 | — | — | 2.087 | 2.74 | 1.774 | 5.5 |
| 29 | W2914M42-SK | SK | 5.088 | 4.981 | 5.56 | EF-1 • | 2.625 | 0.837 | 1.938 | 0.688 | — | — | 2.087 | 2.74 | 1.774 | 6.2 |
| 30 | W3014M42-SK | SK | 5.263 | 5.156 | 6.13 | DF-1 | 2.625 | 0.267 | 1.938 | 0.416 | 0.421 | — | 2.087 | 3.92 | 1.774 | 5.9 |
| 32 | W3214M42-SK | SK | 5.614 | 5.507 | 6.13 | DF-1 | 2.625 | 0.267 | 1.938 | 0.416 | 0.42 | — | 2.087 | 3.92 | 1.774 | 7.4 |
| 34 | W3414M42-SF | SF | 5.965 | 5.857 | 6.5 | DF-1 | 2.938 | 0.391 | 2.063 | 0.415 | 0.421 | — | 2.087 | 3.92 | 1.774 | 8.8 |
| 36 | W3614M42-SF | SF | 6.316 | 6.208 | 6.81 | DF-1 | 2.938 | 0.391 | 2.063 | 0.415 | 0.421 | — | 2.087 | 4.688 | 1.774 | 7.8 |
| 38 | W3814M42-SF | SF | 6.667 | 6.559 | 7.16 | DF-1 | 2.938 | 0.391 | 2.063 | 0.415 | 0.421 | — | 2.087 | 4.938 | 1.774 | 9.2 |
| 40 | W4014M42-SF | SF | 7.018 | 6.91 | 7.5 | DF-1 | 2.938 | 0.391 | 2.063 | 0.415 | 0.421 | — | 2.087 | 5.063 | 1.774 | 10.8 |
| 44 | W4414M42-E | E | 7.72 | 7.611 | 8.22 | DF-1 | 3.5 | 0.772 | 2.625 | 0.234 | 0.228 | — | 2.087 | 6.125 | 1.774 | 13.1 |
| 48 | W4814M42-E | E | 8.421 | 8.312 | 8.94 | DF-1 | 3.5 | 0.772 | 2.625 | 0.234 | 0.228 | — | 2.087 | 6.5 | 1.774 | 17.2 |
| 52 | W5214M42-E | E | 9.123 | 9.014 | 9.69 | DF-1 | 3.5 | 0.772 | 2.625 | 0.234 | 0.228 | — | 2.087 | 7.188 | 1.774 | 21.2 |
| 56 | W5614M42-E | E | 9.825 | 9.715 | 10.38 | DF-1 | 3.5 | 0.772 | 2.625 | 0.234 | 0.228 | — | 2.087 | 7.875 | 1.774 | 25.6 |
| 60 | W6014M42-E | E | 10.527 | 10.417 | 11.06 | DF-1 | 3.5 | 0.772 | 2.625 | 0.234 | 0.228 | — | 2.087 | 8.5 | 1.774 | 30.3 |
| 64 | W6414M42-E | E | 11.229 | 11.118 | 11.75 | DF-1 | 3.5 | 0.772 | 2.625 | 0.234 | 0.228 | — | 2.087 | 9.25 | 1.774 | 35.1 |
| 68 | W6814M42-E | E | 11.93 | 11.82 | 12.5 | DF-2 | 3.5 | 0.772 | 2.625 | 0.234 | 0.228 | — | 2.087 | 10 | 1.774 | 33.7 |
| 72 | W7214M42-E | E | 12.632 | 12.521 | 13.19 | DF-2 | 3.5 | 0.772 | 2.625 | 0.234 | 0.228 | — | 2.087 | 10.688 | 1.774 | 37.3 |
| 80 | W8014M42-E | E | 14.036 | 13.924 | 14.63 | DF-2 | 3.5 | 0.772 | 2.625 | 0.234 | 0.228 | — | 2.087 | 12.125 | 1.774 | 44.5 |
| 90 | W9014M42-F | F | 15.79 | 15.677 | — | C-3 | 4 | 1.125 | 3.625 | 0.413 | — | — | 2.087 | 13.563 | — | 50.8 |
| 112 | W11214M42-F | F | 19.65 | 19.535 | — | C-3 | 4 | 1.125 | 3.625 | 0.413 | — | — | 2.087 | 17.375 | — | 77.3 |
| 144 | W14414M42-F | F | 25.264 | 25.147 | — | C-3 | 4 | 1.125 | 3.625 | 0.413 | — | — | 2.087 | 23 | — | 97.4 |
| 168 | W16814M42-F | F | 29.475 | 29.355 | — | C-3 | 4 | 1.125 | 3.625 | 0.413 | — | — | 2.087 | 27.25 | — | 119.3 |
| 192 | W19214M42-J | J | 33.686 | 33.564 | — | C-3 | 4.5 | 1.505 | 4.5 | 0.908 | — | -0.192 | 2.087 | 31.375 | — | 173.5 |
| 216 | W21614M42-J | J | 37.896 | 37.772 | — | C-3 | 4.5 | 1.505 | 4.5 | 0.908 | — | -0.192 | 2.087 | 35.625 | — | 206.0 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

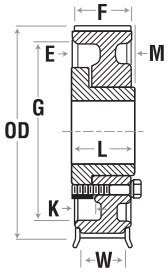
# High HP HTS® Sprockets
# 14mm

Type MPB



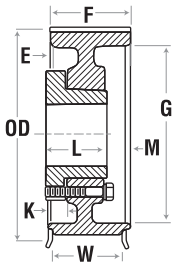

Type MPBF

Type C




Type CF

Type D




Type DF

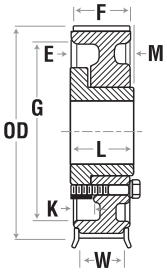
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter | | Type + | Max Bore | Dimensions | | | | | | | | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | O.D. | Flange | | | E | L | M | K | H | F | G | W | |
| **14mm Pitch, 65 mm (2.56in.) Wide Belts (14M - 65)** | | | | | | | | | | | | | | | | |
| 28 | W2814M65-MPB | MPB | 4.912 | 4.805 | 5.56 | MPBF-1 | 2.313 | 1 | 4.032 | — | - | 3.688 | 3.032 | — | 2.719 | 15.0 |
| 29 | W2914M65-MPB | MPB | 5.088 | 4.981 | 5.56 | MPBF-1 | 2.313 | 1 | 4.032 | — | - | 3.688 | 3.032 | — | 2.719 | 16.0 |
| 30 | W3014M65-MPB | MPB | 5.263 | 5.156 | 6.13 | MPBF-1 | 2.5 | 1 | 4.032 | — | - | 4.141 | 3.032 | — | 2.719 | 18.0 |
| 32 | W3214M65-MPB | MPB | 5.614 | 5.507 | 6.13 | MPBF-1 | 2.5 | 1 | 4.032 | — | - | 4.141 | 3.032 | — | 2.719 | 20.2 |
| 34 | W3414M65-MPB | MPB | 5.965 | 5.857 | 6.5 | MPBF-1 | 2.688 | 1 | 4.032 | — | - | 4.484 | 3.032 | — | 2.719 | 23.4 |
| 36 | W3614M65-MPB | MPB | 6.316 | 6.208 | 6.81 | MPBF-1 | 3 | 1 | 4.032 | — | - | 4.875 | 3.032 | — | 2.719 | 24.5 |
| 36 | W3614M65-3030 | 3030* | 6.316 | 6.208 | 6.81 | MPBF-1 | 3 | 0.032 | 3 | — | - | — | 3.032 | — | 2.719 | 10.8 |
| 38 | W3814M65-MPB | MPB | 6.667 | 6.559 | 7.16 | MPBF-1 | 3.250 | 1 | 4.032 | — | - | 5.172 | 3.032 | — | 2.719 | 27.6 |
| 38 | W3814M65-3030 | 3030* | 6.667 | 6.559 | 7.16 | MPBF-1 | 3 | 0.032 | 3 | — | - | — | 3.032 | — | 2.719 | 13.4 |
| 40 | W4014M65-MPB | MPB | 7.018 | 6.910 | 7.5 | MPBF-1 | 3.438 | 1 | 4.032 | — | - | 5.563 | 3.032 | — | 2.719 | 31.5 |
| 40 | W4014M65-3535 | 3535* | 7.018 | 6.910 | 7.5 | CF-1 | 3.5 | 0.468 | 3.5 | — | - | 6.125 | 3.032 | 3.875 | 2.719 | 13.2 |
| 44 | W4414M65-E | E | 7.720 | 7.611 | 8.22 | DF-1 | 3.5 | 0.125 | 2.625 | 0.532 | 0.875 | — | 3.032 | 6.125 | 2.719 | 16.2 |
| 48 | W4814M65-E | E | 8.421 | 8.312 | 8.94 | DF-1 | 3.5 | 0.125 | 2.625 | 0.532 | 0.875 | — | 3.032 | 6.5 | 2.719 | 21.4 |
| 52 | W5214M65-E | E | 9.123 | 9.014 | 9.69 | DF-1 | 3.5 | 0.125 | 2.625 | 0.532 | 0.875 | — | 3.032 | 7.188 | 2.719 | 25.9 |
| 56 | W5614M65-F | F | 9.825 | 9.715 | 10.38 | CF-1 | 4 | 0.594 | 3.625 | — | 0.531 | — | 3.032 | 7.875 | 2.719 | 36.3 |
| 60 | W6014M65-F | F | 10.527 | 10.417 | 11.06 | CF-1 | 4 | 0.594 | 3.625 | — | 0.531 | — | 3.032 | 8.5 | 2.719 | 43.5 |
| 64 | W6414M65-F | F | 11.229 | 11.118 | 11.75 | CF-1 | 4 | 0.594 | 3.625 | — | 0.531 | — | 3.032 | 9.25 | 2.719 | 51.0 |
| 68 | W6814M65-F | F | 11.930 | 11.820 | 12.5 | CF-2 | 4 | 0.594 | 3.625 | — | 0.531 | 7.75 | 3.032 | 10 | 2.719 | 47.9 |
| 72 | W7214M65-F | F | 12.632 | 12.521 | 13.19 | CF-2 | 4 | 0.594 | 3.625 | — | 0.531 | 7.75 | 3.032 | 10.688 | 2.719 | 52.7 |
| 80 | W8014M65-F | F | 14.036 | 13.924 | 14.63 | CF-2 | 4 | 0.594 | 3.625 | — | 0.531 | 7.75 | 3.032 | 12.125 | 2.719 | 61.2 |
| 90 | W9014M65-F | F | 15.790 | 15.677 | — | C-3 | 4 | 0.594 | 3.625 | — | 0.531 | 7.75 | 3.032 | 13.563 | — | 59.8 |
| 112 | W11214M65-J | J | 19.650 | 19.535 | — | C-3 | 4.5 | 1.250 | 4.5 | 0.219 | 0.063 | 9 | 3.032 | 17.375 | — | 104.2 |
| 144 | W14414M65-M | M | 25.264 | 25.147 | — | C-3 | 5.5 | 2.063 | 6.75 | 1.657 | -0.5 | 11.375 | 3.032 | 23 | — | 197.3 |
| 168 | W16814M65-M | M | 29.475 | 29.355 | — | C-3 | 5.5 | 2.063 | 6.75 | 1.657 | -0.5 | 11.375 | 3.032 | 27.25 | — | 207.0 |
| 192 | W19214M65-M | M | 33.686 | 33.564 | — | C-3 | 5.5 | 2.063 | 6.75 | 1.657 | -0.5 | 11.375 | 3.032 | 31.375 | — | 173.5 |
| 216 | W21614M65-M | M | 37.896 | 37.772 | — | C-3 | 5.5 | 2.063 | 6.75 | 1.657 | -0.5 | 11.375 | 3.032 | 35.625 | — | 253.0 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

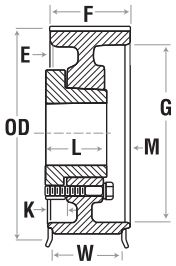
# High HP HTS® Sprockets
# 14mm

Type C



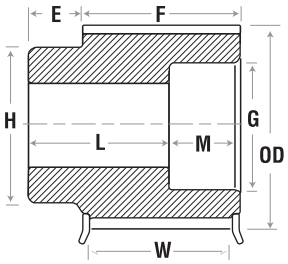

Type CF

Type D



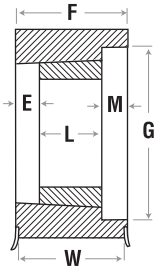

Type DF

Type MPB




Type MPBF

Type K




Type KF

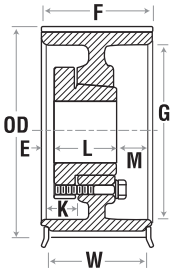
| No. of Teeth | Catalog Number | Bore | Pitch | Diameter | | Type + | Max Bore | Dimensions | | | | | | | | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | O.D. | Flange | | | E | L | M | K | H | F | G | W | |
| **14mm Pitch, 90 mm (3.54 in.) Wide Belts (14M-90)** | | | | | | | | | | | | | | | | |
| 28 | W2814M90-MPB | MPB | 4.912 | 4.805 | 5.56 | MPBF-1 | 2.313 | 1 | 5.055 | — | — | 3.688 | 4.055 | — | 3.743 | 18.9 |
| 29 | W2914M90-MPB | MPB | 5.088 | 4.981 | 5.56 | MPBF-1 | 2.313 | 1 | 5.055 | — | — | 3.688 | 4.055 | — | 3.743 | 20.2 |
| 30 | W3014M90-MPB | MPB | 5.263 | 5.156 | 6.13 | MPBF-1 | 2.5 | 1 | 5.055 | — | — | 4.141 | 4.055 | — | 3.743 | 10.9 |
| 32 | W3214M90-MPB | MPB | 5.614 | 5.507 | 6.13 | MPBF-1 | 2.5 | 1 | 5.055 | — | — | 4.141 | 4.055 | — | 3.743 | 13.9 |
| 34 | W3414M90-MPB | MPB | 5.965 | 5.857 | 6.5 | MPBF-1 | 2.688 | 1 | 5.055 | — | — | 4.484 | 4.055 | — | 3.743 | 16.7 |
| 36 | W3614M90-MPB | MPB | 6.316 | 6.208 | 6.81 | MPBF-1 | 3 | 1 | 5.055 | — | — | 4.875 | 4.055 | — | 3.743 | 31.4 |
| 38 | W3814M90-MPB | MPB | 6.667 | 6.559 | 7.16 | MPBF-1 | 3.25 | 1 | 5.055 | — | — | 5.172 | 4.055 | 4.938 | 3.743 | 35.5 |
| 40 | W4014M90-3535 | 3535 | 7.018 | 6.91 | 7.5 | KF-1 | 3.5 | 0.555 | 3.5 | — | — | — | 4.055 | — | 3.743 | 17.1 |
| 44 | W4414M90-3535 | 3535 | 7.72 | 7.611 | 8.22 | KF-1 | 4 | 0.555 | 3.5 | — | — | — | 4.055 | — | 3.743 | 24.8 |
| 48 | W4814M90-4040 | 4040 | 8.421 | 8.312 | 8.94 | KF-1 | 4 | 0.055 | 4 | — | — | — | 4.055 | — | 3.743 | 27.0 |
| 52 | W5214M90-F | F | 9.123 | 9.014 | 9.69 | DF-1 | 4 | 0.347 | 3.625 | 0.778 | 0.778 | — | 4.055 | 7.188 | 3.743 | 34.7 |
| 56 | W5614M90-F | F | 9.825 | 9.715 | 10.38 | DF-1 | 4 | 0.347 | 3.625 | 0.778 | 0.778 | — | 4.055 | 7.875 | 3.743 | 36.3 |
| 60 | W6014M90-F | F | 10.527 | 10.417 | 11.06 | DF-1 | 4 | 0.347 | 3.625 | 0.778 | 0.778 | — | 4.055 | 8.5 | 3.743 | 49.8 |
| 64 | W6414M90-F | F | 11.229 | 11.118 | 11.75 | DF-1 | 4 | 0.347 | 3.625 | 0.778 | 0.778 | — | 4.055 | 9.25 | 3.743 | 57.6 |
| 68 | W6814M90-F | F | 11.93 | 11.82 | 12.5 | DF-2 | 4 | 0.347 | 3.625 | 0.778 | 0.778 | — | 4.055 | 10 | 3.743 | 54.8 |
| 72 | W7214M90-F | F | 12.632 | 12.521 | 13.19 | DF-2 | 4 | 0.347 | 3.625 | 0.778 | 0.778 | — | 4.055 | 10.688 | 3.743 | 60.0 |
| 80 | W8014M90-J | J | 14.036 | 13.924 | 14.63 | CF-2 | 4.5 | 0.375 | 4.5 | 0.07 | 0.938 | — | 4.055 | 12.125 | 3.743 | 81.5 |
| 90 | W9014M90-J | J | 15.79 | 15.677 | — | C-3 | 4.5 | 0.375 | 4.5 | 0.07 | 0.938 | — | 4.055 | 13.563 | — | 77.4 |
| 112 | W11214M90-J | J | 19.65 | 19.535 | — | C-3 | 4.5 | 0.375 | 4.5 | 0.07 | 0.938 | — | 4.055 | 17.375 | — | 116.2 |
| 144 | W14414M90-M | M | 25.264 | 25.147 | — | C-3 | 5.5 | 1.563 | 6.75 | 1.132 | — | 11.375 | 4.055 | 23 | — | 220.0 |
| 168 | W16814M90-M | M | 29.475 | 29.355 | — | C-3 | 5.5 | 1.563 | 6.75 | 1.132 | — | 11.375 | 4.055 | 27.25 | — | 207.0 |
| 192 | W19214M90-M | M | 33.686 | 33.564 | — | C-3 | 5.5 | 1.563 | 6.75 | 1.132 | — | 11.375 | 4.055 | 31.375 | — | 268.4 |
| 216 | W21614M90-M | M | 37.896 | 37.772 | — | C-3 | 5.5 | 1.563 | 6.75 | 1.132 | — | 11.375 | 4.055 | 35.625 | — | 278.1 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

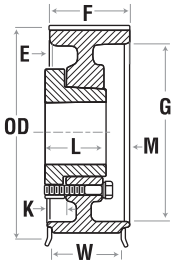
# High HP HTS® Sprockets
# 14mm

Type A



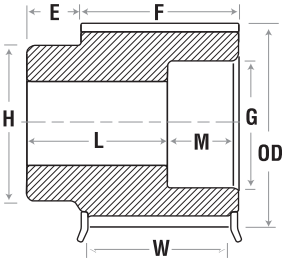

Type AF

Type D



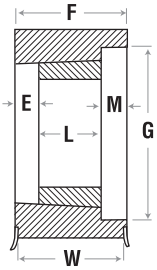

Type DF

Type MPB




Type MPBF

Type K




Type KF

| No. of Teeth | Catalog Number | Bore | Pitch | Diameter | | Type + | Max Bore | Dimensions | | | | | | | | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | O.D. | Flange | | | E | L | M | K | H | F | G | W | |
| **14mm Pitch, 120 mm (4.72 in.) Wide Belts (14M-120)** | | | | | | | | | | | | | | | | |
| 28 | W2814M120-MPB | MPB | 4.912 | 4.805 | 5.56 | MPBF-1 | 2.313 | 1 | 4.986 | 1.25 | — | 3.688 | 5.236 | 3.125 | 4.924 | 22.0 |
| 29 | W2914M120-MPB | MPB | 5.088 | 4.981 | 5.56 | MPBF-1 | 2.313 | 1 | 4.986 | 1.25 | — | 3.688 | 5.236 | 3.125 | 4.924 | 23.8 |
| 30 | W3014M120-MPB | MPB | 5.263 | 5.156 | 6.13 | MPBF-1 | 2.5 | 1 | 4.986 | 1.25 | — | 4.141 | 5.236 | 3.906 | 4.924 | 25.1 |
| 32 | W3214M120-MPB | MPB | 5.614 | 5.507 | 6.13 | MPBF-1 | 2.5 | 1 | 4.986 | 1.25 | — | 4.141 | 5.236 | 3.906 | 4.924 | 29.0 |
| 34 | W3414M120-MPB | MPB | 5.965 | 5.857 | 6.5 | MPBF-1 | 2.688 | 1 | 4.986 | 1.25 | — | 4.484 | 5.236 | 4.063 | 4.924 | 33.7 |
| 36 | W3614M120-MPB | MPB | 6.316 | 6.208 | 6.81 | MPBF-1 | 3 | 1 | 4.986 | 1.25 | — | 4.875 | 5.236 | 4.688 | 4.924 | 34.0 |
| 38 | W3814M120-MPB | MPB | 6.667 | 6.559 | 7.16 | MPBF-1 | 3.25 | 1 | 4.986 | 1.25 | — | 5.172 | 5.236 | 4.938 | 4.924 | 38.4 |
| 40 | W4014M120-MPB | MPB | 7.018 | 6.91 | 7.5 | MPBF-1 | 3.438 | 1 | 4.986 | 1.25 | — | 5.563 | 5.236 | 5.063 | 4.924 | 43.4 |
| 44 | W4414M120-3535 | 3535 | 7.72 | 7.611 | 8.22 | KF-1 | 4 | 0.868 | 3.5 | 0.868 | — | — | 5.236 | 5.875 | 4.924 | 24.8 |
| 48 | W4814M120-4040 | 4040 | 8.421 | 8.312 | 8.94 | KF-1 | 4 | 0.618 | 4 | 0.618 | — | — | 5.236 | 6.625 | 4.924 | 31.8 |
| 52 | W5214M120-F | F | 9.123 | 9.014 | 9.69 | AF-1 | 4 | 1.125 | 3.625 | 1.361 | 1.375 | — | 5.236 | 7.188 | 4.924 | 34.7 |
| 56 | W5614M120-F | F | 9.825 | 9.715 | 10.38 | AF-1 | 4 | 1.125 | 3.625 | 1.361 | 1.375 | — | 5.236 | 7.875 | 4.924 | 48.4 |
| 60 | W6014M120-F | F | 10.527 | 10.417 | 11.06 | AF-1 | 4 | 1.125 | 3.625 | 1.361 | 1.375 | — | 5.236 | 8.5 | 4.924 | 57.1 |
| 64 | W6414M120-J | J | 11.229 | 11.118 | 11.75 | DF-1 | 4.5 | 0.293 | 4.5 | 1.029 | 1.02 | — | 5.236 | 9.25 | 4.924 | 69.7 |
| 68 | W6814M120-J | J | 11.93 | 11.82 | 12.5 | DF-1 | 4.5 | 0.293 | 4.5 | 1.029 | 1.02 | — | 5.236 | 10 | 4.924 | 80.4 |
| 72 | W7214M120-J | J | 12.632 | 12.521 | 13.19 | DF-1 | 4.5 | 0.293 | 4.5 | 1.029 | 1.02 | — | 5.236 | 10.688 | 4.924 | 92.2 |
| 80 | W8014M120-J | J | 14.036 | 13.924 | 14.63 | DF-2 | 4.5 | 0.293 | 4.5 | 1.029 | 1.02 | — | 5.236 | 12.125 | 4.924 | 92.5 |
| 90 | W9014M120-M | M | 15.79 | 15.677 | — | C-2 | 5.5 | 1.514 | 6.75 | — | 0.049 | 10 | 5.236 | 13.563 | — | 134.5 |
| 112 | W11214M120-M | M | 19.65 | 19.535 | — | C-3 | 5.5 | 1.514 | 6.75 | — | 0.049 | 11.375 | 5.236 | 17.375 | — | 193.4 |
| 144 | W14414M120-M | M | 25.264 | 25.147 | — | C-3 | 5.5 | 1.514 | 6.75 | — | 0.049 | 11.375 | 5.236 | 23 | — | 234.6 |
| 168 | W16814M120-M | M | 29.475 | 29.355 | — | C-3 | 5.5 | 1.514 | 6.75 | — | 0.049 | 11.375 | 5.236 | 27.25 | — | 245.8 |
| 192 | W19214M120-N | N | 33.686 | 33.564 | — | C-3 | 6 | 1.875 | 8.125 | 1.014 | — | 12 | 5.236 | 31.375 | — | 381.5 |

* Weight Shown is for Sprocket Less Bushing.
• Reverse Mount Only

+ The numbers (1=Solid, 2=Web, 3=Arms) within the "Type" indicates construction, and the letter F indicates the sprocket has flanges.

# MPC® Synchronous Sprockets

**Bushing Options**

| | |
|---|---|
| **PB** | Minimum Plain Bore |
| **F** | QD - Air Cooler Heat |
| *No prefix* | Taper Bushed |

**F 8MX 22S 12 - SH**

**Belt Pitch**

**8mm**
**14mm**

**Number of Teeth** *"S" identifies it as an MPC®*

**Bushing Options**

| | |
|---|---|
| **QD** | JA, SH, SDS... S |
| **TB** | 1008, 1108... 120100 |

**Belt Width (mm)**

**12, 21, 36, 62**
**20, 37, 68, 90, 125**

Introducing our newest synchronous sprocket.

The addition of our MPC® sprocket line makes Martin your one-stop-shop for all your synchronous sprocket needs. Match your sprocket to your favorite belt.

MPC® synchronous sprockets are available in your desired configuration.

- Available in 8mm and 14mm pitches.
- Belt widths:

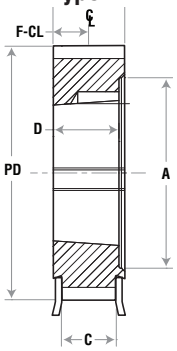
  12mm, 21mm, 36mm, 62mm (8mm pitch)

  20mm, 37mm, 68mm, 90mm, 125mm

  (14mm pitch)
- Available in QD, TB or other special adapters.
- Special diameters and widths, as well as special materials, are also available.

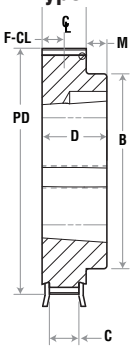
# MPC® Sprockets
# 8mm

Type A



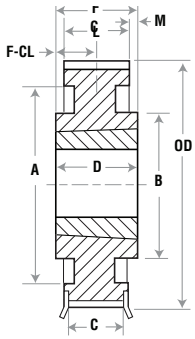

Type AF

Type B



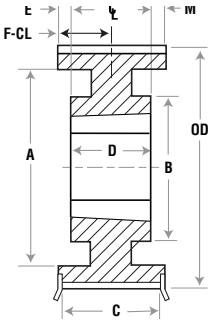

Type BF

Type C



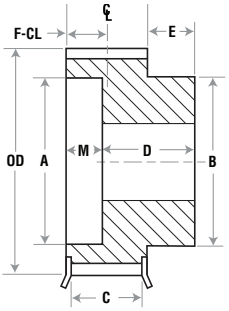

Type CF

Type D




Type DF

Type 6




Type 6F

## 8mm Pitch — 12mm Wide Belt

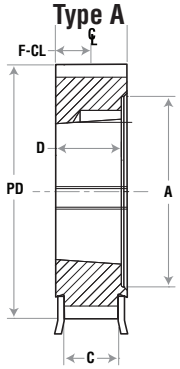
| No. of Teeth | Catalog Number | Bore | Pitch Diameter | Diameter O.D. | Diameter Max Flange O.D. | Type | Max Bore | Dimensions A | B | C | D | E | F | M | F-CL | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MBP 8mm Pitch, 12mm (0.47 in.) Wide Belts (8M -12)** | | | | | | | | | | | | | | | | |
| 22 | PB8MX22S12 | 1/2 | 2.206 | 2.143 | 2.61 | 6F-1 | 1.188 | - | 1.79 | 0.57 | 1.31 | 0.46 | 0.82 | - | 0.41 | 1.1 |
| 25 | PB8MX25S12 | 1/2 | 2.506 | 2.443 | 2.91 | 6F-1 | 1.500 | - | 2.08 | 0.57 | 1.31 | 0.46 | 0.82 | - | 0.41 | 1.5 |
| 28 | PB8MX28S12 | 1/2 | 2.807 | 2.744 | 3.21 | 6F-1 | 1.750 | - | 2.34 | 0.57 | 1.31 | 0.46 | 0.82 | - | 0.41 | 1.9 |
| 30 | PB8MX30S12 | 1/2 | 3.008 | 2.945 | 3.41 | 6F-1 | 1.813 | - | 2.54 | 0.57 | 1.42 | 0.57 | 0.82 | - | 0.41 | 2.3 |
| 32 | PB8MX32S12 | 1/2 | 3.208 | 3.145 | 3.61 | 6F-1 | 2 | - | 2.73 | 0.57 | 1.42 | 0.57 | 0.82 | - | 0.41 | 2.7 |
| **Taper Bushed 8mm Pitch, 12mm (0.47 in.) Wide Belts (8M -12)** | | | | | | | | | | | | | | | | |
| 22 | 8MX22S12-1008 | 1008 | 2.206 | 2.143 | 2.61 | AF-1 | 1 | - | - | 0.63 | 0.88 | - | 0.88 | - | 0.44 | 0.5 |
| 25 | 8MX25S12-1108 | 1108 | 2.506 | 2.443 | 2.91 | AF-1 | 1.125 | - | - | 0.63 | 0.88 | - | 0.88 | - | 0.44 | 0.7 |
| 26 | 8MX26S12-1108 | 1108 | 2.607 | 2.584 | 2.906 | AF-1 | 1.125 | - | - | 0.63 | 0.88 | - | 0.88 | - | 0.44 | 0.8 |
| 27 | 8MX27S12-1108 | 1108 | 2.707 | 2.644 | 3.207 | AF-1 | 1.125 | - | - | 0.63 | 0.88 | - | 0.88 | - | 0.44 | 0.9 |
| 28 | 8MX28S12-1108 | 1108 | 2.807 | 2.744 | 3.21 | AF-1 | 1.125 | - | - | 0.63 | 0.88 | - | 0.88 | - | 0.44 | 1.0 |
| 29 | 8MX29S12-1108 | 1108 | 2.907 | 2.844 | 3.09 | AF-1 | 1.125 | - | - | 0.63 | 0.88 | - | 0.88 | - | 0.44 | 1.2 |
| 30 | 8MX30S12-1108 | 1108 | 3.008 | 2.945 | 3.41 | AF-1 | 1.125 | - | - | 0.63 | 0.88 | - | 0.88 | - | 0.44 | 1.3 |
| 31 | 8MX31S12-1210 | 1210 | 3.108 | 3.045 | 3.328 | AF-1 | 1.25 | - | - | 0.75 | 1 | - | 1 | - | 0.5 | 1.3 |
| 32 | 8MX32S12-1210 | 1210 | 3.208 | 3.145 | 3.61 | AF-1 | 1.25 | - | - | 0.75 | 1 | - | 1 | - | 0.5 | 1.4 |
| 33 | 8MX33S12-1610 | 1610 | 3.308 | 3.245 | 3.566 | AF-1 | 1.625 | - | - | 0.75 | 1 | - | 1 | - | 0.5 | 1.3 |
| 34 | 8MX34S12-1610 | 1610 | 3.409 | 3.346 | 3.81 | AF-1 | 1.625 | - | - | 0.75 | 1 | - | 1 | - | 0.5 | 1.3 |
| 35 | 8MX35S12-1610 | 1610 | 3.509 | 3.446 | 3.805 | AF-1 | 1.625 | - | - | 0.75 | 1 | - | 1 | - | 0.5 | 1.3 |
| 36 | 8MX36S12-1610 | 1610 | 3.609 | 3.456 | 4.01 | AF-1 | 1.625 | - | - | 0.75 | 1 | - | 1 | - | 0.5 | 1.2 |
| 37 | 8MX37S12-1610 | 1610 | 3.709 | 3.646 | 4.044 | AF-1 | 1.625 | - | - | 0.75 | 1 | - | 1 | - | 0.5 | 1.6 |
| 38 | 8MX38S12-1610 | 1610 | 3.810 | 3.747 | 4.21 | AF-1 | 1.62 | - | - | 0.75 | 1 | - | 1 | - | 0.5 | 1.7 |
| 39 | 8MX39S12-1610 | 1610 | 3.910 | 3.847 | 4.41 | AF-1 | 1.625 | - | - | 0.75 | 1 | - | 1 | - | 0.5 | 1.7 |
| 40 | 8MX40S12-2012 | 2012 | 4.010 | 3.947 | 4.41 | BF-1 | 2 | - | 3.56 | 0.57 | 1.25 | - | 0.82 | 0.43 | 0.41 | 1.7 |
| 41 | 8MX41S12-2012 | 2012 | 4.110 | 4.047 | 4.52 | BF-1 | 2 | - | 3.65 | 0.65 | 1.25 | - | 0.82 | 0.43 | 0.41 | 1.8 |
| 42 | 8MX42S12-2012 | 2012 | 4.211 | 4.148 | 4.91 | BF-1 | 2 | - | 3.76 | 0.57 | 1.25 | - | 0.82 | 0.43 | 0.41 | 2.2 |
| 45 | 8MX45S12-2012 | 2012 | 4.511 | 4.448 | 4.91 | BF-1 | 2 | - | 3.76 | 0.57 | 1.25 | - | 0.82 | 0.43 | 0.41 | 2.5 |
| 48 | 8MX48S12-2012 | 2012 | 4.812 | 4.749 | 5.21 | BF-1 | 2 | - | 3.76 | 0.57 | 1.25 | - | 0.82 | 0.43 | 0.41 | 3.4 |
| 50 | 8MX50S12-2012 | 2012 | 5.013 | 4.950 | 5.41 | BF-1 | 2 | - | 3.76 | 0.57 | 1.25 | - | 0.82 | 0.43 | 0.41 | 3.7 |
| 53 | 8MX53S12-2012 | 2012 | 5.314 | 5.251 | 5.5 | BF-1 | 2 | - | 3.76 | 0.57 | 1.25 | - | 0.82 | 0.43 | 0.41 | 4.7 |
| 56 | 8MX56S12-2012 | 2012 | 5.614 | 5.551 | 6.01 | BF-1 | 2 | - | 3.76 | 0.57 | 1.25 | - | 0.82 | 0.43 | 0.41 | 5.4 |
| 60 | 8MX60S12-2012 | 2012 | 6.015 | 5.952 | 6.41 | BF-1 | 2 | - | 3.76 | 0.57 | 1.25 | - | 0.82 | 0.43 | 0.41 | 6.3 |
| 63 | 8MX63S12-2012 | 2012 | 6.316 | 6.253 | 6.72 | CF-1 | 2 | 5.71 | 4 | 0.57 | 1.25 | - | 0.82 | 0.43 | 0.41 | 5.6 |
| 67 | 8MX67S12-2012 | 2012 | 6.717 | 6.654 | 6.87 | CF-1 | 2 | 6.14 | 4 | 0.57 | 1.25 | - | 0.82 | 0.43 | 0.41 | 4.3 |
| 71 | 8MX71S12-2012 | 2012 | 7.118 | 7.055 | 7.5 | CF-1 | 2 | 6.51 | 4 | 0.57 | 1.25 | - | 0.82 | 0.43 | 0.41 | 4.7 |
| 75 | 8MX75S12-2012 | 2012 | 7.519 | 7.456 | 7.92 | CF-1 | 2 | 6.9 | 4 | 0.57 | 1.25 | - | 0.82 | 0.43 | 0.41 | 5.1 |
| 80 | 8MX80S12-2012 | 2012 | 8.020 | 7.957 | 8.42 | CF-1 | 2 | 7.23 | 4 | 0.57 | 1.25 | - | 0.82 | 0.43 | 0.41 | 5.8 |
| 90 | 8MX90S12-2012 | 2012 | 9.023 | 8.96 | - | C-2 | 2 | 8.05 | 4 | - | 1.25 | - | 0.82 | 0.43 | 0.41 | 9.4 |
| 112 | 8MX112S12-2012 | 2012 | 11.229 | 11.166 | - | C-2 | 2 | 10.25 | 4 | - | 1.25 | - | 0.82 | 0.43 | 0.41 | 16.6 |
| 140 | 8MX140S12-2012 | 2012 | 14.036 | 13.973 | - | C-3 | 2 | 11.96 | 4.38 | - | 1.25 | - | 0.82 | 0.43 | 0.41 | 17.3 |
| 180 | 8MX180S12-2517 | 2517 | 18.046 | 17.893 | - | C-3 | 2.5 | 15.8 | 4.88 | - | 1.75 | - | 0.82 | 0.93 | 0.41 | 30.0 |
| 224 | 8MX224S12-2517 | 2517 | 22.457 | 22.394 | - | C-3 | 2.5 | 20.17 | 4.88 | - | 1.75 | - | 0.82 | 0.93 | 0.41 | 41.2 |

Type: 1- Solid 2 - Web 3 - Arms F=Flanged

NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore. Weights for Bushed Sprockets less bushing. Dimensions in Inches. Weight in pounds.

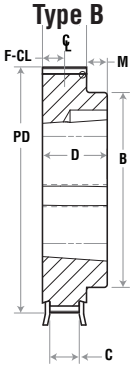
# MPC® Sprockets 8mm

Type A



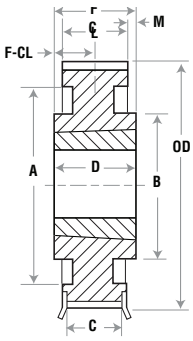

Type AF

Type B



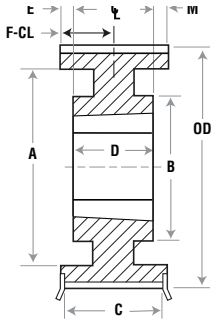

Type BF

Type C



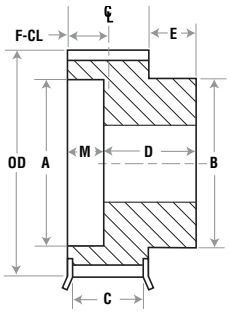

Type CF

Type D




Type DF

Type 6




Type 6F

## 8mm Pitch — 21mm Wide Belt

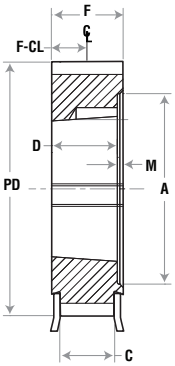
| No. of Teeth | Catalog Number | Bore | Pitch Diameter | Diameter O.D. | Diameter Max Flange O.D. | Type | Max Bore | Dimensions A | B | C | D | E | F | M | F-CL | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MBP 8mm Pitch, 21mm (0.83 in.) Wide Belts (8M -21)** | | | | | | | | | | | | | | | | |
| 22 | PB8MX22S21 | MPB | 2.206 | 2.143 | 2.61 | 6F-1 | 1.188 | - | 1.79 | 0.92 | 1.65 | 0.45 | 1.2 | - | 0.60 | 1.3 |
| 25 | PB8MX25S21 | MPB | 2.506 | 2.443 | 2.91 | 6F-1 | 1.5 | - | 2.08 | 0.92 | 1.65 | 0.45 | 1.2 | - | 0.60 | 1.8 |
| 28 | PB8MX28S21 | MPB | 2.807 | 2.744 | 3.21 | 6F-1 | 1.75 | - | 2.34 | 0.92 | 1.65 | 0.45 | 1.2 | - | 0.60 | 2.3 |
| 30 | PB8MX30S21 | MPB | 3.008 | 2.945 | 3.41 | 6F-1 | 1.813 | - | 2.54 | 0.92 | 1.77 | 0.57 | 1.2 | - | 0.60 | 2.8 |
| 32 | PB8MX32S21 | MPB | 3.208 | 3.145 | 3.61 | 6F-1 | 2 | - | 2.73 | 0.92 | 1.77 | 0.57 | 1.2 | - | 0.60 | 3.2 |
| **Taper Bushed 8mm Pitch, 21mm (0.83 in.) Wide Belts (8M -21)** | | | | | | | | | | | | | | | | |
| 22 | 8MX22S21-1008 | 1008 | 2.206 | 2.143 | 2.61 | AF-1 | 1 | 1.63 | - | 0.92 | 0.88 | - | 1.2 | - | 0.60 | 0.6 |
| 25 | 8MX25S21-1108 | 1108 | 2.506 | 2.443 | 2.91 | AF-1 | 1.125 | 1.92 | - | 0.92 | 0.88 | - | 1.2 | - | 0.60 | 0.8 |
| 26 | 8MX26S21-1108 | 1108 | 2.607 | 2.906 | 2.906 | AF-1 | 1.125 | 1.85 | - | 0.92 | 0.88 | - | 1.2 | - | 0.60 | 0.8 |
| 27 | 8MX27S21-1108 | 1108 | 2.707 | 2.644 | 3.207 | AF-1 | 1.125 | 1.95 | - | 0.92 | 0.88 | - | 1.2 | - | 0.60 | 1.0 |
| 28 | 8MX28S21-1108 | 1108 | 2.807 | 2.744 | 3.21 | AF-1 | 1.125 | 2.18 | - | 0.92 | 0.88 | - | 1.2 | - | 0.60 | 1.1 |
| 29 | 8MX29S21-1108 | 1108 | 2.907 | 2.844 | 3.09 | AF-1 | 1.125 | 2.15 | - | 0.92 | 0.88 | - | 1.2 | - | 0.60 | 1.4 |
| 30 | 8MX30S21-1108 | 1108 | 3.008 | 2.945 | 3.41 | AF-1 | 1.125 | 2.38 | - | 0.92 | 0.88 | - | 1.2 | - | 0.60 | 1.5 |
| 31 | 8MX31S21-1210 | 1210 | 3.108 | 3.045 | 3.328 | AF-1 | 1.25 | 2.35 | - | 0.92 | 1.00 | - | 1.2 | - | 0.60 | 1.6 |
| 32 | 8MX32S21-1210 | 1210 | 3.208 | 3.145 | 3.61 | AF-1 | 1.25 | 2.58 | - | 0.92 | 1.00 | - | 1.2 | - | 0.60 | 3.0 |
| 33 | 8MX33S21-1610 | 1610 | 3.308 | 3.245 | 3.566 | AF-1 | 1.625 | 2.66 | - | 0.92 | 1.00 | - | 1.2 | - | 0.60 | 1.4 |
| 34 | 8MX34S21-1610 | 1610 | 3.409 | 3.346 | 3.81 | AF-1 | 1.625 | 2.66 | - | 0.92 | 1.00 | - | 1.2 | - | 0.60 | 1.9 |
| 35 | 8MX35S21-1610 | 1610 | 3.509 | 3.446 | 3.805 | AF-1 | 1.625 | 2.75 | - | 0.92 | 1.00 | - | 1.2 | - | 0.60 | 1.5 |
| 36 | 8MX36S21-1610 | 1610 | 3.609 | 3.456 | 4.01 | AF-1 | 1.625 | 2.96 | - | 0.92 | 1.00 | - | 1.2 | - | 0.60 | 1.6 |
| 37 | 8MX37S21-1610 | 1610 | 3.709 | 3.646 | 4.044 | AF-1 | 1.625 | 2.95 | - | 0.92 | 1.00 | - | 1.2 | - | 0.60 | 1.7 |
| 38 | 8MX38S21-1610 | 1610 | 3.810 | 3.747 | 4.21 | AF-1 | 1.625 | 3.15 | - | 0.92 | 1.00 | - | 1.2 | - | 0.60 | 1.9 |
| 39 | 8MX39S21-1610 | 1610 | 3.910 | 3.847 | 4.41 | AF-1 | 1.625 | 3.14 | - | 0.92 | 1.00 | - | 1.2 | - | 0.60 | 2.0 |
| 40 | 8MX40S21-2012 | 2012 | 4.010 | 3.947 | 4.41 | AF-1 | 2 | - | - | 0.97 | 1.25 | - | 1.25 | - | 0.63 | 2.0 |
| 41 | 8MX41S21-2012 | 2012 | 4.110 | 4.047 | 4.52 | BF-1 | 2 | - | 3.4 | 1 | 1.25 | - | 1.20 | - | 0.60 | 2.2 |
| 42 | 8MX42S21-2012 | 2012 | 4.211 | 4.148 | 4.91 | AF-1 | 2 | - | - | 0.97 | 1.25 | - | 1.25 | - | 0.63 | 2.4 |
| 45 | 8MX45S21-2012 | 2012 | 4.511 | 4.448 | 4.91 | AF-1 | 2 | - | - | 0.97 | 1.25 | - | 1.25 | - | 0.63 | 3.0 |
| 48 | 8MX48S21-2012 | 2012 | 4.812 | 4.749 | 5.21 | AF-1 | 2 | - | - | 0.97 | 1.25 | - | 1.25 | - | 0.63 | 3.4 |
| 50 | 8MX50S21-2012 | 2012 | 5.013 | 4.95 | 5.41 | AF-1 | 2 | - | - | 0.97 | 1.25 | - | 1.25 | - | 0.63 | 4.2 |
| 53 | 8MX53S21-2012 | 2012 | 5.314 | 5.251 | 5.5 | AF-1 | 2 | - | - | 0.97 | 1.25 | - | 1.25 | - | 0.63 | 5.0 |
| 56 | 8MX56S21-2012 | 2012 | 5.614 | 5.551 | 6.01 | AF-1 | 2 | - | - | 0.97 | 1.25 | - | 1.25 | - | 0.63 | 4.9 |
| 60 | 8MX60S21-2012 | 2012 | 6.015 | 5.952 | 6.41 | AF-1 | 2 | - | - | 0.97 | 1.25 | - | 1.25 | - | 0.63 | 6.9 |
| 63 | 8MX63S21-2012 | 2012 | 6.316 | 6.253 | 6.72 | CF-1 | 2 | 5.71 | 3.76 | 0.92 | 1.25 | - | 1.20 | 0.05 | 0.60 | 7.7 |
| 67 | 8MX67S21-2517 | 2517 | 6.717 | 6.654 | 6.87 | CF-1 | 2.5 | 6.14 | 4.5 | 0.92 | 1.75 | - | 1.20 | 0.55 | 0.60 | 5.7 |
| 71 | 8MX71S21-2517 | 2517 | 7.118 | 7.055 | 7.5 | CF-1 | 2.5 | 6.51 | 4.5 | 0.92 | 1.75 | - | 1.20 | 0.55 | 0.60 | 6.1 |
| 75 | 8MX75S21-2517 | 2517 | 7.519 | 7.456 | 7.92 | CF-1 | 2.5 | 6.9 | 4.5 | 0.92 | 1.75 | - | 1.20 | 0.55 | 0.60 | 9.2 |
| 80 | 8MX80S21-2517 | 2517 | 8.020 | 7.957 | 8.42 | CF-1 | 2.5 | 7.23 | 4.5 | 0.92 | 1.75 | - | 1.20 | 0.55 | 0.60 | 7.5 |
| 90 | 8MX90S21-2517 | 2517 | 9.023 | 8.96 | - | C-2 | 2.5 | 7.78 | 4.5 | - | 1.75 | - | 1.20 | 0.55 | 0.60 | 11.0 |
| 112 | 8MX112S21-2517 | 2517 | 11.229 | 11.166 | - | C-2 | 2.5 | 10 | 4.5 | - | 1.75 | - | 1.20 | 0.55 | 0.60 | 19.4 |
| 140 | 8MX140S21-2517 | 2517 | 14.036 | 13.973 | - | C-3 | 2.5 | 11.74 | 4.88 | - | 1.75 | - | 1.20 | 0.55 | 0.60 | 26.8 |
| 180 | 8MX180S21-3020 | 3020 | 18.046 | 17.893 | - | C-3 | 3 | 15.49 | 6.25 | - | 2.00 | - | 1.20 | 0.80 | 0.60 | 36.6 |
| 224 | 8MX224S21-3020 | 3020 | 22.457 | 22.394 | - | C-3 | 3 | 19.86 | 6.25 | - | 2.00 | - | 1.20 | 0.80 | 0.60 | 50.1 |

Type: 1- Solid 2 - Web 3 - Arms F=Flanged

NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore. Weights for Bushed Sprockets less bushing. Dimensions in Inches. Weight in pounds.

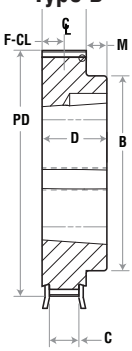
# MPC® Sprockets
# 8mm

Type A



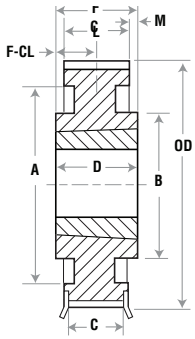

Type AF

Type B



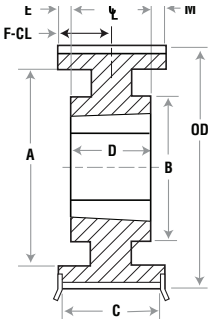

Type BF

Type C



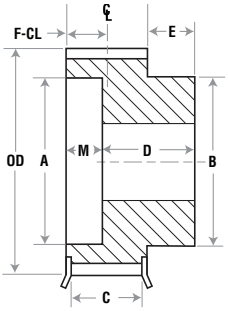

Type CF

Type D




Type DF

Type 6




Type 6F

## 8mm Pitch — 36mm Wide Belt

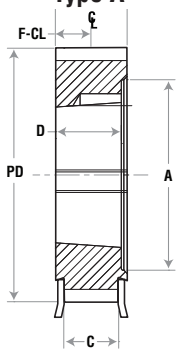
| No. of Teeth | Catalog Number | Bore | Pitch Diameter | Diameter O.D. | Diameter Max Flange O.D. | Type | Max Bore | Dimensions A | B | C | D | E | F | M | F-CL | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MBP 8mm Pitch, 36mm (1.42 in.) Wide Belts (8M -36)** | | | | | | | | | | | | | | | | |
| 22 | PB8MX22S36 | MPB | 2.206 | 2.143 | 2.61 | 6F-1 | 1.188 | - | 1.79 | 1.58 | 2.44 | .58 | 1.86 | - | 0.93 | 2.0 |
| 25 | PB8MX25S36 | MPB | 2.506 | 2.443 | 2.91 | 6F-1 | 1.500 | - | 2.08 | 1.58 | 2.44 | .58 | 1.86 | - | 0.93 | 2.7 |
| 28 | PB8MX28S36 | MPB | 2.807 | 2.744 | 3.21 | 6F-1 | 1.750 | - | 2.34 | 1.58 | 2.44 | .58 | 1.86 | - | 0.93 | 3.5 |
| 30 | PB8MX30S36 | MPB | 3.008 | 2.945 | 3.41 | 6F-1 | 1.813 | - | 2.54 | 1.58 | 2.44 | .58 | 1.86 | - | 0.93 | 4.1 |
| 32 | PB8MX32S36 | MPB | 3.208 | 3.145 | 3.61 | 6F-1 | 2 | - | 2.73 | 1.58 | 2.44 | .58 | 1.86 | - | 0.93 | 3.9 |
| 34 | PB8MX34S36 | MPB | 3.409 | 3.346 | 3.81 | 6F-1 | 2.125 | - | 2.82 | 1.58 | 2.45 | .59 | 1.86 | - | 0.93 | 4.3 |
| 36 | PB8MX36S36 | MPB | 3.609 | 3.546 | 4.01 | 6F-1 | 2.313 | - | 3.13 | 1.58 | 2.51 | .65 | 1.86 | - | 0.93 | 5.9 |
| 38 | PB8MX38S36 | MPB | 3.81 | 3.747 | 4.21 | 6F-1 | 2.438 | - | 3.32 | 1.58 | 2.51 | .65 | 1.86 | - | 0.93 | 6.7 |
| **Taper Bushed 8mm Pitch, 36mm (1.42 in.) Wide Belts (8M -36)** | | | | | | | | | | | | | | | | |
| 32 | 8MX32S36-1210 | 1210 | 3.208 | 3.145 | 3.61 | AF-1 | 1.250 | 2.58 | - | 1.58 | 1 | - | 1.83 | 0.83 | 0.93 | 2.0 |
| 33 | 8MX33S36-1610 | 1610 | 3.308 | 3.245 | 3.566 | AF-1 | 1.625 | 2.56 | - | 1.66 | 1 | - | 1.83 | 0.83 | 0.93 | 1.7 |
| 34 | 8MX34S36-1610 | 1610 | 3.409 | 3.346 | 3.81 | AF-1 | 1.625 | 2.66 | - | 1.58 | 1 | - | 1.83 | 0.83 | 0.93 | 1.8 |
| 35 | 8MX35S36-1610 | 1610 | 3.509 | 3.446 | 3.805 | AF-1 | 1.625 | 2.76 | - | 1.66 | 1 | - | 1.83 | 0.83 | 0.93 | 2.0 |
| 36 | 8MX36S36-1610 | 1610 | 3.609 | 3.546 | 4.01 | AF-1 | 1.625 | 2.96 | - | 1.58 | 1 | - | 1.83 | 0.83 | 0.93 | 2.7 |
| 37 | 8MX37S36-1610 | 1610 | 3.709 | 3.646 | 4.044 | AF-1 | 1.625 | 2.9 | - | 1.66 | 1 | - | 1.83 | 0.83 | 0.93 | 2.1 |
| 38 | 8MX38S36-1610 | 1610 | 3.81 | 3.747 | 4.21 | AF-1 | 1.625 | 3.15 | - | 1.58 | 1 | - | 1.83 | 0.83 | 0.93 | 2.9 |
| 39 | 8MX39S36-1610 | 1610 | 3.91 | 3.847 | 4.41 | AF-1 | 1.625 | 3.1 | - | 1.58 | 1 | - | 1.83 | 0.83 | 0.93 | 2.4 |
| 40 | 8MX40S36-2012 | 2012 | 4.01 | 3.947 | 4.41 | AF-1 | 2 | 3.35 | - | 1.58 | 1.25 | - | 1.83 | 0.58 | 0.93 | 2.5 |
| 41 | 8MX41S36-2012 | 2012 | 4.11 | 4.047 | 4.52 | AF-1 | 2 | 3.36 | - | 1.58 | 1.25 | - | 1.83 | 0.58 | 0.93 | 2.4 |
| 42 | 8MX42S36-2012 | 2012 | 4.211 | 4.148 | 4.91 | AF-1 | 2 | 3.62 | - | 1.58 | 1.25 | - | 1.83 | 0.58 | 0.93 | 2.8 |
| 45 | 8MX45S36-2012 | 2012 | 4.511 | 4.448 | 4.91 | AF-1 | 2 | 3.62 | - | 1.58 | 1.25 | - | 1.83 | 0.58 | 0.93 | 4.0 |
| 48 | 8MX48S36-2012 | 2012 | 4.812 | 4.749 | 5.21 | AF-1 | 2 | 4.14 | - | 1.58 | 1.25 | - | 1.83 | 0.58 | 0.93 | 4.3 |
| 50 | 8MX50S36-2012 | 2012 | 5.013 | 4.95 | 5.41 | AF-1 | 2 | 4.13 | - | 1.58 | 1.25 | - | 1.83 | 0.58 | 0.93 | 5.1 |
| 53 | 8MX53S36-2012 | 2012 | 5.314 | 5.251 | 5.5 | AF-1 | 2 | 4.76 | - | 1.58 | 1.25 | - | 1.83 | 0.58 | 0.93 | 6.0 |
| 56 | 8MX56S36-2012 | 2012 | 5.614 | 5.551 | 6.01 | AF-1 | 2 | 4.92 | - | 1.58 | 1.25 | - | 1.83 | 0.58 | 0.93 | 6.5 |
| 60 | 8MX60S36-2517 | 2517 | 6.015 | 5.952 | 6.42 | AF-1 | 2.5 | 5.13 | - | 1.58 | 1.75 | - | 1.83 | 0.58 | 0.93 | 8.9 |
| 63 | 8MX63S36-2517 | 2517 | 6.316 | 6.253 | 6.72 | AF-1 | 2.5 | 5.71 | - | 1.58 | 1.75 | - | 1.83 | 0.08 | 0.93 | 9.3 |
| 67 | 8MX67S36-2517 | 2517 | 6.717 | 6.654 | 6.88 | DF-1 | 2.5 | 5.98 | 4.25 | 1.58 | 1.75 | - | 1.83 | 0.08 | 0.93 | 10.0 |
| 71 | 8MX71S36-2517 | 2517 | 7.118 | 7.055 | 7.5 | DF-1 | 2.5 | 6.39 | 4.25 | 1.58 | 1.75 | - | 1.83 | 0.08 | 0.93 | 7.0 |
| 75 | 8MX75S36-2517 | 2517 | 7.519 | 7.456 | 7.92 | DF-1 | 2.5 | 6.79 | 4.25 | 1.58 | 1.75 | - | 1.83 | 0.08 | 0.93 | 13.3 |
| 80 | 8MX80S36-3020 | 3020 | 8.02 | 7.957 | 8.42 | BF-1 | 3 | - | 5.75 | 1.58 | 2 | - | 1.83 | 0.08 | 0.93 | 15.3 |
| 90 | 8MX90S36-3020 | 3020 | 9.023 | 8.960 | - | B-1 | 3 | - | 5.75 | - | 2 | - | 1.83 | 0.17 | 0.93 | 20.9 |
| 112 | 8MX112S36-3020 | 3020 | 11.229 | 11.166 | - | C-2 | 3 | 9.8 | 5.75 | - | 2 | - | 1.83 | 0.17 | 0.93 | 22.0 |
| 140 | 8MX140S36-3020 | 3020 | 14.036 | 13.973 | - | C-3 | 3 | 11.72 | 6.25 | - | 2 | - | 1.83 | 0.17 | 0.93 | 39.3 |
| 180 | 8MX180S36-3020 | 3020 | 18.046 | 17.983 | - | C-3 | 3 | 15.31 | 6.25 | - | 2 | - | 1.83 | 0.17 | 0.93 | 48.9 |
| 224 | 8MX224S36-3525 | 3525 | 22.457 | 22.394 | - | C-3 | 3.5 | 19.62 | 8.75 | - | 2.5 | - | 1.83 | 0.67 | 0.93 | 92.2 |

Type: 1- Solid 2 - Web 3 - Arms F=Flanged

NOTE: Weights for minimum plain bore (MPB) sprockets are with minimum bore.
Weights for bushed sprockets less bushing.
Dimensions in inches. Weight in pounds.

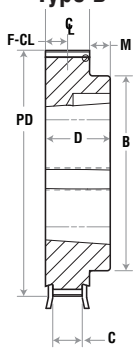
# MPC® Sprockets 8mm

Type A



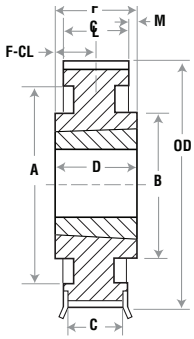

Type AF

Type B



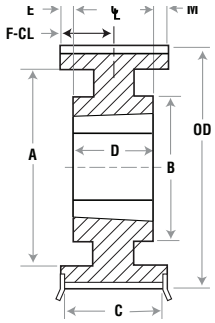

Type BF

Type C



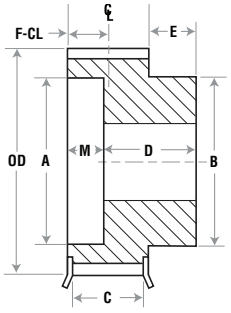

Type CF

Type D




Type DF

Type 6




Type 6F

## 8mm Pitch — 62mm Wide Belt

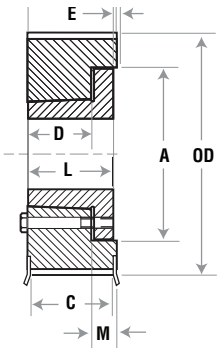
| No. of Teeth | Catalog Number | Bore | Pitch Diameter | Diameter O.D. | Diameter Max Flange O.D. | Type | Max Bore | Dimensions A | B | C | D | E | F | M | F-CL | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPB 8mm Pitch, 62 mm (2.44 in.) Wide Belts (8M - 62)** | | | | | | | | | | | | | | | | |
| 22 | PB8MX22S62 | MPB | 2.206 | 2.143 | 2.61 | 6F-1 | 1.188 | - | 1.79 | 2.63 | 3.56 | 0.68 | 2.88 | - | 1.46 | 2.4 |
| 25 | PB8MX25S62 | MPB | 2.506 | 2.443 | 2.91 | 6F-1 | 1.5 | - | 2.08 | 2.63 | 3.56 | 0.68 | 2.88 | - | 1.46 | 3.6 |
| 28 | PB8MX28S62 | MPB | 2.807 | 2.744 | 3.21 | 6F-1 | 1.75 | - | 2.34 | 2.63 | 3.56 | 0.68 | 2.88 | - | 1.46 | 4.6 |
| 30 | PB8MX30S62 | MPB | 3.008 | 2.945 | 3.41 | 6F-1 | 1.813 | - | 2.54 | 2.63 | 3.5 | 0.62 | 2.88 | - | 1.46 | 5.3 |
| 32 | PB8MX32S62 | MPB | 3.208 | 3.145 | 3.61 | 6F-1 | 2 | - | 2.73 | 2.63 | 3.5 | 0.62 | 2.88 | - | 1.46 | 5.6 |
| 34 | PB8MX34S62 | MPB | 3.409 | 3.346 | 3.81 | 6F-1 | 2.125 | - | 2.82 | 2.63 | 3.5 | 0.62 | 2.88 | - | 1.46 | 5.7 |
| 36 | PB8MX36S62 | MPB | 3.609 | 3.546 | 4.01 | 6F-1 | 2.313 | - | 3.13 | 2.63 | 3.56 | 0.68 | 2.88 | - | 1.46 | 8.0 |
| 38 | PB8MX38S62 | MPB | 3.812 | 3.747 | 4.21 | 6F-1 | 2.438 | - | 3.32 | 2.63 | 3.56 | 0.68 | 2.88 | - | 1.46 | 9.1 |
| 40 | PB8MX40S62 | MPB | 4.010 | 3.947 | 4.41 | 6F-1 | 2.563 | - | 3.52 | 2.63 | 3.63 | 0.75 | 2.88 | - | 1.46 | 10.3 |
| 42 | PB8MX42S62 | MPB | 4.211 | 4.148 | 4.91 | 6F-1 | 2.75 | - | 3.79 | 2.63 | 3.63 | 0.75 | 2.88 | - | 1.46 | 11.6 |
| 45 | PB8MX45S62 | MPB | 4.511 | 4.448 | 4.91 | 6F-1 | 2.75 | - | 3.79 | 2.63 | 3.63 | 0.75 | 2.88 | - | 1.46 | 13.1 |
| **Taper Bushed 8mm Pitch, 62mm (2.44 in.) Wide Belts (8M - 62)** | | | | | | | | | | | | | | | | |
| 34 | 8MX34S62-1610 | 1610 | 3.409 | 3.346 | 3.81 | AF-1 | 1.625 | 2.66 | - | 2.63 | 1 | - | 2.88 | - | 1.46 | 5.0 |
| 36 | 8MX36S62-1610 | 1610 | 3.609 | 3.546 | 4.01 | AF-1 | 1.625 | 2.96 | - | 2.63 | 1 | - | 2.88 | - | 1.46 | 5.3 |
| 38 | 8MX38S62-1610 | 1610 | 3.812 | 3.747 | 4.21 | AF-1 | 1.625 | 3.15 | - | 2.63 | 1 | - | 2.88 | - | 1.46 | 5.6 |
| 40 | 8MX40S62-2012 | 2012 | 4.010 | 3.947 | 4.41 | AF-1 | 2 | 3.35 | - | 2.63 | 1.25 | - | 2.88 | - | 1.46 | 5.9 |
| 42 | 8MX42S62-2012 | 2012 | 4.211 | 4.148 | 4.91 | AF-1 | 2 | 3.62 | - | 2.63 | 1.25 | - | 2.88 | - | 1.46 | 3.5 |
| 45 | 8MX45S62-2012 | 2012 | 4.511 | 4.448 | 4.91 | AF-1 | 2 | 3.62 | - | 2.63 | 1.25 | - | 2.88 | - | 1.46 | 6.5 |
| 48 | 8MX48S62-2517 | 2517 | 4.812 | 4.749 | 5.21 | AF-1 | 2.5 | 4.14 | - | 2.63 | 1.75 | - | 2.88 | - | 1.46 | 6.6 |
| 50 | 8MX50S62-2517 | 2517 | 5.013 | 4.95 | 5.41 | AF-1 | 2.5 | 4.13 | - | 2.63 | 1.75 | - | 2.88 | - | 1.46 | 6.7 |
| 53 | 8MX53S62-2517 | 2517 | 5.314 | 5.251 | 5.5 | AF-1 | 2.5 | 4.76 | - | 2.63 | 1.75 | - | 2.88 | - | 1.46 | 6.9 |
| 56 | 8MX56S62-2517 | 2517 | 5.614 | 5.551 | 6.01 | AF-1 | 2.5 | 4.92 | - | 2.63 | 1.75 | - | 2.88 | - | 1.46 | 7.2 |
| 60 | 8MX60S62-3020 | 3020 | 6.015 | 5.952 | 6.42 | AF-1 | 3 | 5.13 | - | 2.63 | 2 | - | 2.88 | - | 1.46 | 8.9 |
| 63 | 8MX63S62-3020 | 3020 | 6.316 | 6.253 | 6.72 | AF-1 | 3 | 5.71 | - | 2.63 | 2 | - | 2.88 | - | 1.46 | 10.3 |
| 67 | 8MX67S62-3020 | 3020 | 6.717 | 6.654 | 6.88 | AF-1 | 3 | 6.14 | - | 2.63 | 2 | - | 2.88 | - | 1.46 | 11.0 |
| 71 | 8MX71S62-3020 | 3020 | 7.118 | 7.055 | 7.5 | AF-1 | 3 | 6.51 | - | 2.63 | 2 | - | 2.88 | - | 1.46 | 13.5 |
| 75 | 8MX75S62-3020 | 3020 | 7.519 | 7.456 | 7.92 | AF-1 | 3 | 6.90 | - | 2.63 | 2 | - | 2.88 | - | 1.46 | 15.4 |
| 80 | 8MX80S62-3020 | 3020 | 8.020 | 7.957 | 8.42 | AF-1 | 3 | 7.23 | - | 2.63 | 2 | - | 2.88 | - | 1.46 | 23.0 |
| 90 | 8MX90S62-3020 | 3020 | 9.023 | 8.96 | - | D-1 | 3 | 7.39 | 5.42 | - | 2 | - | 2.88 | 0.91 | 1.46 | 32.7 |
| 112 | 8MX112S62-3020 | 3020 | 11.229 | 11.166 | - | D-2 | 3 | 9.60 | 5.42 | - | 2 | - | 2.88 | 0.91 | 1.46 | 38.9 |
| 140 | 8MX140S62-3525 | 3525 | 14.036 | 13.973 | - | D-2 | 3.5 | 12.40 | 8.75 | - | 2.5 | - | 2.88 | 0.41 | 1.46 | 54.5 |
| 180 | 8MX180S62-3525 | 3525 | 18.046 | 17.983 | - | D-3 | 3.5 | 15.33 | 8.75 | - | 2.5 | - | 2.88 | 0.41 | 1.46 | 90.0 |
| 224 | 8MX224S62-3525 | 3525 | 22.457 | 22.394 | - | D-3 | 3.5 | 19.38 | 8.75 | - | 2.5 | - | 2.88 | 0.41 | 1.46 | 92.3 |

Type: 1- Solid 2 - Web 3 - Arms F=Flanged

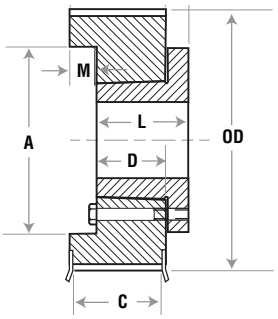
NOTE: Weights for minimum plain bore (MPB) sprockets are with minimum bore.
Weights for bushed sprockets less bushing.
Dimensions in inches. Weight in pounds.

# MPC® Sprockets 8mm
# Air Cool Heat Exchange

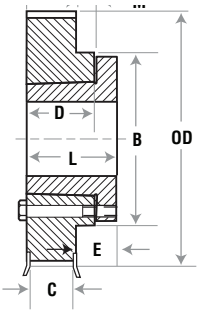
Type A



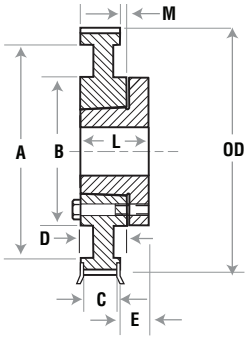

Type B



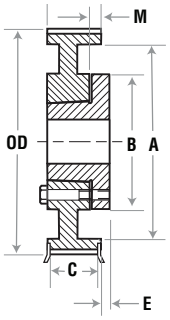

Type C




Type D




Type E

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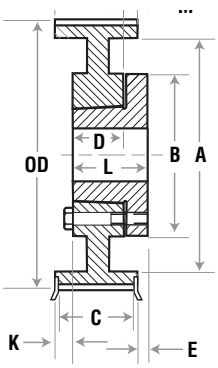


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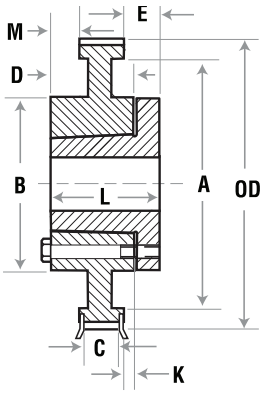
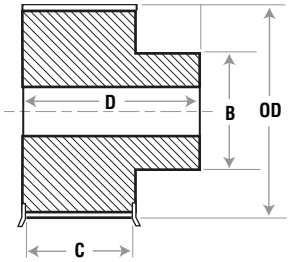



Type 6




## 8mm Pitch — 21mm Wide Air Cool Heat Exchange Belt

| No. of Teeth | Catalog Number | Bore | Pitch Diameter | Diameter | | Type | Max Bore | Dimensions | | | | | | | | | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | O.D. | Max Flange O.D. | | | A | B | C | D | E | F | L | M | F-CL | |
| QD Bushed 8mm Pitch, 21mm (0.93 in.) Wide Belt (8M-21) | | | | | | | | | | | | | | | | | |
| 36 | F8MX36S21-SH | SH | 3.609 | 3.546 | 4.009 | AF-1 | 1.688 | 2.85 | - | 0.92 | 0.81 | 0.39 | 1.2 | 1.94 | 0.39 | 0.6 | 2.1 |
| 38 | F8MX38S21-SH | SH | 3.81 | 3.747 | 4.21 | AF-1 | 1.688 | 3.04 | - | 0.92 | - | 0.39 | 1.2 | 1.94 | 0.39 | 0.6 | 2.1 |
| 40 | F8MX40S21-SH | SH | 4.01 | 3.947 | 4.41 | AF-1 | 1.688 | 3.24 | - | 0.92 | - | 0.39 | 1.2 | 1.94 | 0.39 | 0.6 | 2.3 |
| 42 | F8MX42S21-SH | SH | 4.211 | 4.148 | 4.911 | AF-1 | 1.688 | 3.44 | - | 0.92 | - | 0.39 | 1.2 | 1.94 | 0.39 | 0.6 | 2.5 |
| 140 | F8MX140S21-SF | SF | 14.036 | 13.973 | - | CF-2* | 2.938 | 13.17 | 6.38 | - | 1.25 | 0.39 | 1.2 | 2.06 | 0.05 | 0.6 | 25.0 |
| 168 | F8MX168S21-SF | SF | 16.843 | 16.78 | - | CF-3* | 2.938 | 15.95 | 6.38 | - | 1.25 | 0.39 | 1.2 | 2.06 | 0.05 | 0.6 | 33.8 |
| 180 | F8MX180S21-SF | SF | 18.046 | 17.983 | - | CF-3* | 2.938 | 17.14 | 6.38 | - | 1.25 | 0.39 | 1.2 | 2.06 | 0.03 | 0.6 | 36.6 |
| 224 | F8MX224S21-E | E | 22.457 | 22.394 | - | CF-3* | 3.5 | 21.51 | 7.50 | - | 1.25 | 0.39 | 1.2 | 2.75 | 0.43 | 0.6 | 50.1 |

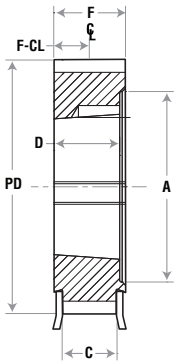
Type: 1- Solid 2 - Web 3 - Arms F=Flanged

* Flanged on bushings install side only.

NOTE: Weights for minimum plain bore (MPB) sprockets are with minimum bore.
Weights for bushed sprockets less bushing.
Dimensions in inches. Weight in pounds.

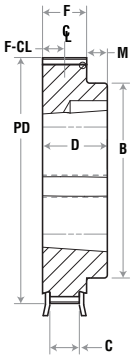
# MPC® Sprockets 14mm

Type A



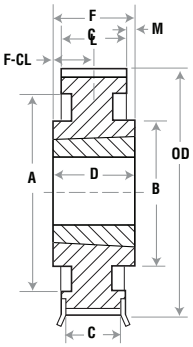

Type AF

Type B



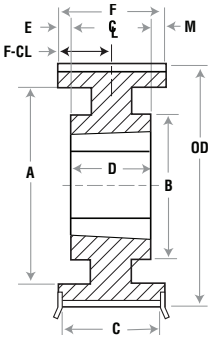

Type BF

Type C



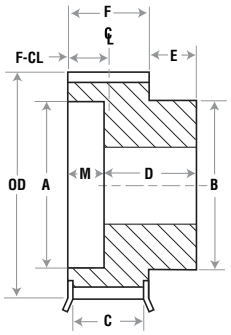

Type CF

Type D




Type DF

Type 6




Type 6F

## 14mm Pitch — 20mm Wide Belt

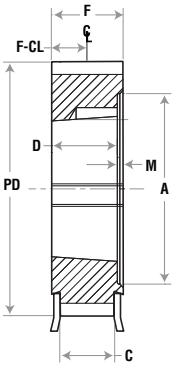
| No. of Teeth | Catalog Number | Bore | Pitch Diameter | Diameter O.D. | Diameter Max Flange O.D. | Type | Max Bore | Dimensions A | B | C | D | E | F | M | F-CL | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tapered Bushed 14mm Pitch, 20mm (.826 in.) Wide Belt (14M- 20) | | | | | | | | | | | | | | | | |
| 28 | 14MX28S20-2012 | 2012 | 4.912 | 4.802 | 5.4 | A1-F | 2 | 3.61 | - | 1.04 | 1.25 | - | 1.36 | .11 | 0.68 | 3.9 |
| 29 | 14MX29S20-2012 | 2012 | 5.188 | 4.978 | 5.76 | A1-F | 2 | 3.99 | - | 1.04 | 1.25 | - | 1.36 | .11 | 0.68 | 4.5 |
| 30 | 14MX30S20-2012 | 2012 | 5.263 | 5.153 | 5.76 | A1-F | 2 | 3.99 | - | 1.04 | 1.25 | - | 1.36 | .11 | 0.68 | 4.8 |
| 31 | 14MX31S20-2012 | 2012 | 5.439 | 5.329 | 6.11 | A1-F | 2 | 4.22 | - | 1.04 | 1.25 | - | 1.36 | .11 | 0.68 | 5.5 |
| 32 | 14MX32S20-2012 | 2012 | 5.614 | 5.504 | 6.11 | A1-F | 2 | 4.22 | - | 1.04 | 1.25 | - | 1.36 | .11 | 0.68 | 5.9 |
| 33 | 14MX33S20-2012 | 2012 | 5.790 | 5.680 | 6.46 | A1-F | 2 | 4.53 | - | 1.04 | 1.25 | - | 1.36 | .11 | 0.68 | 6.3 |
| 34 | 14MX34S20-2012 | 2012 | 5.965 | 5.855 | 6.46 | A1-F | 2 | 4.53 | - | 1.04 | 1.25 | - | 1.36 | .11 | 0.68 | 6.9 |
| 35 | 14MX35S20-2012 | 2012 | 6.141 | 6.031 | 6.82 | A1-F | 2 | 4.95 | - | 1.04 | 1.25 | - | 1.36 | .11 | 0.68 | 7.3 |
| 36 | 14MX36S20-2517 | 2517 | 6.316 | 6.206 | 6.82 | BF-1 | 2.5 | - | 4.25 | 1.04 | 1.75 | - | 1.36 | .39 | 0.68 | 7.6 |
| 37 | 14MX37S20-2517 | 2517 | 6.492 | 6.382 | 7.17 | BF-1 | 2.5 | - | 4.25 | 1.04 | 1.75 | - | 1.36 | .39 | 0.68 | 8.2 |
| 38 | 14MX38S20-2517 | 2517 | 6.667 | 6.557 | 7.17 | BF-1 | 2.5 | - | 4.25 | 1.04 | 1.75 | - | 1.36 | .39 | 0.68 | 8.9 |
| 39 | 14MX39S20-2517 | 2517 | 6.842 | 6.732 | 7.52 | BF-1 | 2.5 | - | 4.25 | 1.04 | 1.75 | - | 1.36 | .39 | 0.68 | 9.8 |
| 40 | 14MX40S20-2517 | 2517 | 7.018 | 6.908 | 7.52 | BF-1 | 2.5 | - | 4.25 | 1.04 | 1.75 | - | 1.36 | .39 | 0.68 | 10.1 |
| 43 | 14MX43S20-2517 | 2517 | 7.544 | 7.434 | 8.04 | BF-1 | 2.5 | - | 4.25 | 1.04 | 1.75 | - | 1.36 | .39 | 0.68 | 11.7 |
| 45 | 14MX45S20-3020 | 3020 | 7.895 | 7.785 | 8.4 | BF-1 | 3 | - | 5.41 | 1.04 | 2 | - | 1.36 | .64 | 0.68 | 13.5 |
| 48 | 14MX48S20-3020 | 3020 | 8.421 | 8.311 | 8.94 | BF-1 | 3 | - | 5.75 | 1.04 | 2 | - | 1.36 | .64 | 0.68 | 16.4 |
| 50 | 14MX50S20-3020 | 3020 | 8.772 | 8.662 | 9.29 | BF-1 | 3 | - | 5.75 | 1.04 | 2 | - | 1.36 | .64 | 0.68 | 18.3 |
| 53 | 14MX53S20-3020 | 3020 | 9.299 | 9.189 | 9.69 | BF-1 | 3 | - | 5.75 | 1.04 | 2 | - | 1.36 | .64 | 0.68 | 20.5 |
| 56 | 14MX56S20-3525 | 3525 | 9.825 | 9.715 | 10.36 | BF-1 | 3.5 | - | 8.7 | 1.04 | 2.5 | - | 1.36 | 1.14 | 0.68 | 23.2 |
| 60 | 14MX60S20-3525 | 3525 | 10.527 | 10.417 | 11.07 | BF-1 | 3.5 | - | 8.75 | 1.04 | 2.5 | - | 1.36 | 1.14 | 0.68 | 27.5 |
| 63 | 14MX63S20-3525 | 3525 | 11.053 | 10.943 | 11.59 | BF-1 | 3.5 | - | 8.75 | 1.04 | 2.5 | - | 1.36 | 1.14 | 0.68 | 30.2 |
| 67 | 14MX67S20-3525 | 3525 | 11.755 | 11.645 | 12.5 | BF-1 | 3.5 | - | 8.75 | 1.04 | 2.5 | - | 1.36 | 1.14 | 0.68 | 31.3 |
| 71 | 14MX71S20-3525 | 3525 | 12.457 | 12.347 | 13.07 | CF-1 | 3.5 | 11.05 | 8.75 | 1.04 | 2.5 | - | 1.36 | 1.14 | 0.68 | 32.5 |
| 75 | 14MX75S20-3525 | 3525 | 13.158 | 13.048 | 13.73 | CF-1 | 3.5 | 11.68 | 8.75 | 1.04 | 2.5 | - | 1.36 | 1.14 | 0.68 | 36.2 |
| 80 | 14MX80S20-3525 | 3525 | 14.036 | 13.926 | 14.62 | CF-2 | 3.5 | 12.56 | 8.75 | 1.04 | 2.5 | - | 1.36 | 1.14 | 0.68 | 35.4 |
| 90 | 14MX90S20-3525 | 3525 | 15.790 | 15.680 | - | C-2 | 3.5 | 14.26 | 8.75 | - | 2.5 | - | 1.36 | 1.14 | 0.68 | 41.3 |
| 112 | 14MX112S20-3525 | 3525 | 19.650 | 19.540 | - | C-3 | 3.5 | 16.47 | 8.75 | - | 2.5 | - | 1.36 | 1.14 | 0.68 | 59.6 |
| 126 | 14MX126S20-3525 | 3525 | 22.106 | 24.45 | - | C-3 | 3.5 | 20.5 | 8.75 | - | 2.5 | - | 1.36 | 1.14 | 0.68 | 66.0 |
| 140 | 14MX140S20-3525 | 3525 | 24.562 | 24.452 | - | C-3 | 3.5 | 21.04 | 8.75 | - | 2.5 | - | 1.36 | 1.14 | 0.68 | 102.0 |
| 168 | 14MX168S20-3525 | 3525 | 29.475 | 29.365 | - | C-3 | 3.5 | 25.90 | 8.75 | - | 2.5 | - | 1.36 | 1.14 | 0.68 | 99.5 |
| 180 | 14MX180S20-3525 | 3525 | 31.580 | 31.47 | - | C-3 | 3.5 | 27.99 | 8.75 | - | 2.5 | - | 1.36 | 1.14 | 0.68 | 135.0 |
| 200 | 14MX200S20-3525 | 3525 | 35.089 | 24.979 | - | C-3 | 3.5 | 31.46 | 8.75 | - | 2.5 | - | 1.36 | 1.14 | 0.68 | 156.0 |
| 224 | 14MX224S20-4030 | 4030 | 39.300 | 39.190 | - | C-3 | 4 | 35.63 | 10 | - | 3 | - | 1.36 | 1.64 | 0.68 | 150.2 |

Type: 1- Solid 2 - Web 3 - Arms F=Flanged

NOTE: Weights for minimum plain bore (MPB) sprockets are with minimum bore.
Weights for bushed sprockets less bushing.
Dimensions in inches. Weight in pounds.

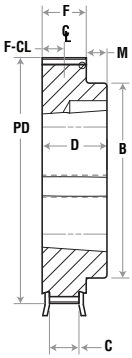
# MPC® Sprockets
# 14mm

Type A



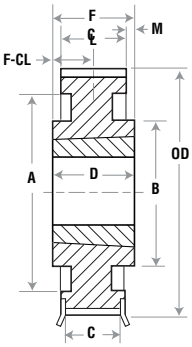

Type AF

Type B



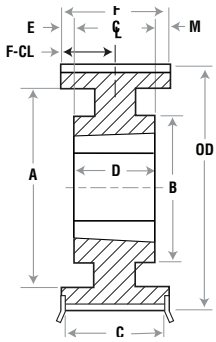

Type BF

Type C



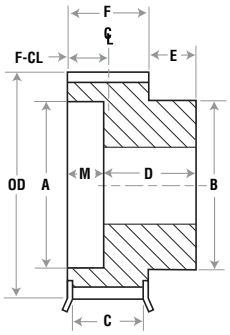

Type CF

Type D




Type DF

Type 6




Type 6F

## 14mm Pitch —37mm Wide Belt

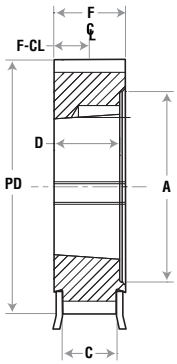
| No. of Teeth | Catalog Number | Bore | Pitch Diameter | Diameter O.D. | Diameter Max Flange O.D. | Type | Max Bore | Dimensions A | B | C | D | E | F | M | F-CL | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPB 14mm Pitch, 37mm (1.46 in.) Wide Belt (14M-37)** | | | | | | | | | | | | | | | | |
| 28 | PB14MX28S37 | MPB | 4.912 | 4.802 | 5.4 | 6F-1 | 2.938 | - | 3.97 | 1.74 | 2.86 | 0.8 | 2.06 | - | 1.03 | 11.7 |
| **Taper Bushed 14mm Pitch, 37mm (1.46 in.) Wide Belt (14M-37)** | | | | | | | | | | | | | | | | |
| 28 | 14MX28S37-2012 | 2012 | 4.912 | 4.802 | 5.4 | AF-1 | 2 | 3.61 | - | 1.74 | 1.25 | - | 2.06 | 0.81 | 1.03 | 4.2 |
| 29 | 14MX29S37-2517 | 2517 | 5.088 | 4.978 | 5.76 | AF-1 | 2.5 | 3.99 | - | 1.74 | 1.75 | - | 2.06 | 0.31 | 1.03 | 4.7 |
| 30 | 14MX30S37-2517 | 2517 | 5.263 | 5.153 | 5.76 | AF-1 | 2.5 | 3.99 | - | 1.74 | 1.75 | - | 2.06 | 0.31 | 1.03 | 5.0 |
| 31 | 14MX31S37-2517 | 2517 | 5.439 | 5.329 | 6.11 | AF-1 | 2.5 | 4.22 | - | 1.74 | 1.75 | - | 2.06 | 0.31 | 1.03 | 6.0 |
| 32 | 14MX32S37-2517 | 2517 | 5.614 | 5.54 | 6.11 | AF-1 | 2.5 | 4.22 | - | 1.74 | 1.75 | - | 2.06 | 0.31 | 1.03 | 7.2 |
| 33 | 14MX33S37-2517 | 2517 | 5.79 | 5.68 | 6.46 | AF-1 | 2.5 | 4.53 | - | 1.74 | 1.75 | - | 2.06 | 0.31 | 1.03 | 7.5 |
| 34 | 14MX34S37-2517 | 2517 | 5.965 | 5.855 | 6.46 | AF-1 | 2.5 | 4.53 | - | 1.74 | 1.75 | - | 2.06 | 0.31 | 1.03 | 7.8 |
| 35 | 14MX35S37-2517 | 2517 | 6.141 | 6.031 | 6.82 | AF-1 | 2.5 | 4.95 | - | 1.74 | 1.75 | - | 2.06 | 0.31 | 1.03 | 8.3 |
| 36 | 14MX36S37-2517 | 2517 | 6.316 | 6.206 | 6.82 | AF-1 | 2.5 | 4.95 | - | 1.74 | 1.75 | - | 2.06 | 0.31 | 1.03 | 8.8 |
| 37 | 14MX37S37-2517 | 2517 | 6.492 | 6.382 | 7.17 | AF-1 | 2.5 | 5.27 | - | 1.74 | 1.75 | - | 2.06 | 0.31 | 1.03 | 9.3 |
| 38 | 14MX38S37-3020 | 3020 | 6.667 | 6.557 | 7.17 | AF-1 | 3 | 5.27 | - | 1.74 | 2 | - | 2.06 | 0.06 | 1.03 | 10.8 |
| 39 | 14MX39S37-3020 | 3020 | 6.842 | 6.732 | 7.52 | AF-1 | 3 | 5.54 | - | 1.74 | 2 | - | 2.06 | 0.06 | 1.03 | 11.9 |
| 40 | 14MX40S37-3020 | 3020 | 7.018 | 6.908 | 7.52 | AF-1 | 3 | 5.54 | - | 1.74 | 2 | - | 2.06 | 0.06 | 1.03 | 12.2 |
| 43 | 14MX43S37-3020 | 3020 | 7.544 | 7.434 | 8.04 | AF-1 | 3 | 6.16 | - | 1.74 | 2 | - | 2.06 | 0.06 | 1.03 | 12.5 |
| 45 | 14MX45S37-3020 | 3020 | 7.895 | 7.785 | 8.4 | AF-1 | 3 | 6.42 | - | 1.74 | 2 | - | 2.06 | 0.06 | 1.03 | 15.8 |
| 48 | 14MX48S37-3020 | 3020 | 8.421 | 8.311 | 8.94 | AF-1 | 3 | 6.96 | - | 1.74 | 2 | - | 2.06 | 0.06 | 1.03 | 18.7 |
| 50 | 14MX50S37-3020 | 3020 | 8.772 | 8.662 | 9.29 | AF-1 | 3 | 7.44 | - | 1.74 | 2 | - | 2.06 | 0.06 | 1.03 | 21.1 |
| 53 | 14MX53S37-3020 | 3020 | 9.299 | 9.189 | 9.69 | AF-1 | 3 | 7.84 | - | 1.74 | 2 | - | 2.06 | 0.06 | 1.03 | 24.7 |
| 56 | 14MX56S37-3525 | 3525 | 9.825 | 9.715 | 10.36 | BF-1 | 3.5 | - | 8.70 | 1.74 | 2.5 | - | 2.06 | 0.44 | 1.03 | 28.2 |
| 60 | 14MX60S37-3525 | 3525 | 10.527 | 10.417 | 11.07 | BF-1 | 3.5 | - | 8.75 | 1.74 | 2.5 | - | 2.06 | 0.44 | 1.03 | 32.2 |
| 63 | 14MX63S37-3525 | 3525 | 11.053 | 10.943 | 11.59 | BF-1 | 3.5 | - | 8.75 | 1.74 | 2.5 | - | 2.06 | 0.44 | 1.03 | 42.8 |
| 67 | 14MX67S37-3525 | 3525 | 11.755 | 11.645 | 12.5 | BF-1 | 3.5 | - | 8.75 | 1.74 | 2.5 | - | 2.06 | 0.44 | 1.03 | 43.5 |
| 71 | 14MX71S37-3525 | 3525 | 12.457 | 12.347 | 13.07 | BF-1 | 3.5 | - | 8.75 | 1.74 | 2.5 | - | 2.06 | 0.44 | 1.03 | 44.1 |
| 75 | 14MX75S37-3525 | 3525 | 13.158 | 13.048 | 13.73 | CF-1 | 3.5 | 11.68 | 8.75 | 1.74 | 2.5 | - | 2.06 | 0.44 | 1.03 | 45.5 |
| 80 | 14MX80S37-3525 | 3525 | 14.036 | 13.926 | 14.62 | CF-2 | 3.5 | 12.56 | 8.75 | 1.74 | 2.5 | - | 2.06 | 0.44 | 1.03 | 48.7 |
| 90 | 14MX90S37-3525 | 3525 | 15.79 | 15.68 | - | C-2 | 3.5 | 14.26 | 8.75 | - | 2.5 | - | 2.06 | 0.44 | 1.03 | 53.3 |
| 112 | 14MX112S37-3525 | 3525 | 19.65 | 19.54 | - | C-3 | 3.5 | 16.39 | 8.75 | - | 2.5 | - | 2.06 | 0.44 | 1.03 | 87.0 |
| 126 | 14MX126S37-3525 | 3525 | 22.106 | 21.996 | - | C-3 | 3.5 | 20.56 | 8.75 | - | 2.5 | - | 2.06 | 0.44 | 1.03 | 76.3 |
| 180 | 14MX180S37-4030 | 4030 | 31.58 | 31.47 | - | C-3 | 4 | 27.59 | 10 | - | 3 | - | 2.06 | 0.94 | 1.03 | 191.4 |
| 200 | 14MX200S37-4030 | 4030 | 35.089 | 34.979 | - | C-3 | 4 | 31.07 | 10 | - | 3 | - | 2.06 | 0.94 | 1.03 | 224.8 |
| 224 | 14MX224S37-4030 | 4030 | 39.30 | 39.19 | - | C-3 | 4 | 35.24 | 10 | - | 3 | - | 2.06 | 0.94 | 1.03 | 267.7 |

Type: 1- Solid 2 - Web 3 - Arms F=Flanged

NOTE: Weights for minimum plain bore (MPB) sprockets are with minimum bore.
Weights for bushed sprockets less bushing.
Dimensions in inches. Weight in pounds.

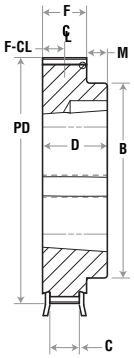
# MPC® Sprockets 14mm

Type A



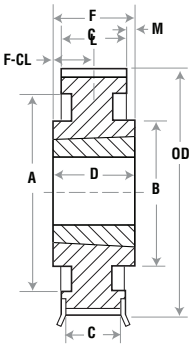

Type AF

Type B



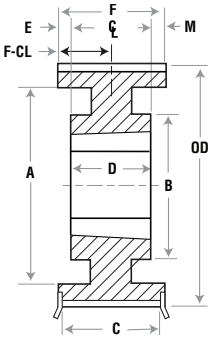

Type BF

Type C



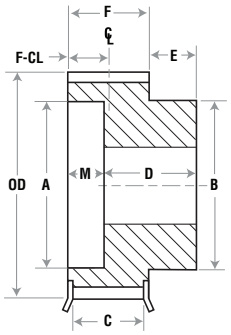

Type CF

Type D




Type DF

Type 6




Type 6F

## 14mm Pitch — 68mm Wide Belt

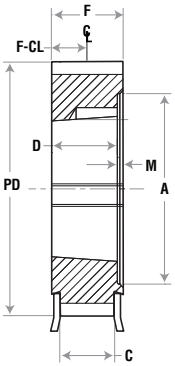
| No. of Teeth | Catalog Number | Bore | Pitch Diameter | Diameter O.D. | Diameter Max Flange O.D. | Type | Max Bore | Dimensions A | B | C | D | E | F | M | F-CL | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPB 14mm Pitch, 68mm (2.68 in.) Wide Belt (14M-68)** | | | | | | | | | | | | | | | | |
| 28 | PB14MX28S68 | MPB | 4.912 | 4.802 | 5.4 | 6F-1 | 2.938 | - | 3.97 | 3.01 | 4.13 | 0.81 | 3.322 | - | 1.66 | 17.0 |
| 29 | PB14MX29S68 | MPB | 5.088 | 4.978 | 5.76 | 6F-1 | 3.188 | - | 4.35 | 3.01 | 4.13 | 0.81 | 3.322 | - | 1.66 | 19.0 |
| 30 | PB14MX30S68 | MPB | 5.263 | 5.153 | 5.76 | 6F-1 | 3.188 | - | 4.35 | 3.01 | 4.13 | 0.81 | 3.322 | - | 1.66 | 20.0 |
| 31 | PB14MX31S68 | MPB | 5.439 | 5.329 | 6.11 | 6F-1 | 3.438 | - | 4.57 | 3.01 | 4.13 | 0.81 | 3.322 | - | 1.66 | 16.8 |
| 32 | PB14MX32S68 | MPB | 5.614 | 5.504 | 6.11 | 6F-1 | 3.438 | - | 4.57 | 3.01 | 4.13 | 0.81 | 3.322 | - | 1.66 | 18.0 |
| 33 | PB14MX33S68 | MPB | 5.79 | 5.68 | 6.47 | 6F-1 | 3.5 | - | 4.89 | 3.01 | 4.33 | 1.01 | 3.322 | - | 1.66 | 26.0 |
| 34 | PB14MX34S68 | MPB | 5.965 | 5.855 | 6.47 | 6F-1 | 3.5 | - | 4.89 | 3.01 | 4.33 | 1.01 | 3.322 | - | 1.66 | 21.1 |
| **Taper Bushed 14mm Pitch, 68mm (2.68 in.) Wide Belt (14M-68)** | | | | | | | | | | | | | | | | |
| 29 | 14MX29S68-2517 | 2517 | 5.088 | 4.978 | 5.76 | AF-1 | 2.5 | 3.99 | - | 3.01 | 1.75 | - | 3.322 | - | 1.66 | 14.7 |
| 30 | 14MX30S68-2517 | 2517 | 5.263 | 5.153 | 5.76 | AF-1 | 2.5 | 3.99 | - | 3.01 | 1.75 | - | 3.322 | - | 1.66 | 14.0 |
| 31 | 14MX31S68-2517 | 2517 | 5.439 | 5.329 | 6.11 | AF-1 | 2.5 | 4.22 | - | 3.01 | 1.75 | - | 3.322 | - | 1.66 | 14.3 |
| 32 | 14MX32S68-2517 | 2517 | 5.614 | 5.504 | 6.11 | AF-1 | 2.5 | 4.22 | - | 3.01 | 1.75 | - | 3.322 | - | 1.66 | 14.6 |
| 33 | 14MX33S68-2517 | 2517 | 5.79 | 5.68 | 6.46 | AF-1 | 2.5 | 4.53 | - | 3.01 | 1.75 | - | 3.322 | - | 1.66 | 14.9 |
| 34 | 14MX34S68-2517 | 2517 | 5.965 | 5.855 | 6.46 | AF-1 | 2.5 | 4.53 | - | 3.01 | 1.75 | - | 3.322 | - | 1.66 | 15.2 |
| 35 | 14MX35S68-3020 | 3020 | 6.141 | 6.031 | 6.82 | AF-1 | 3 | 4.95 | - | 3.01 | 2 | - | 3.322 | - | 1.66 | 15.5 |
| 36 | 14MX36S68-3020 | 3020 | 6.316 | 6.206 | 6.82 | AF-1 | 3 | 4.95 | - | 3.01 | 2 | - | 3.322 | - | 1.66 | 15.8 |
| 37 | 14MX37S68-3020 | 3020 | 6.492 | 6.382 | 7.17 | AF-1 | 3 | 5.27 | - | 3.01 | 2 | - | 3.322 | - | 1.66 | 16.1 |
| 38 | 14MX38S68-3020 | 3020 | 6.667 | 6.557 | 7.17 | AF-1 | 3 | 5.27 | - | 3.01 | 2 | - | 3.322 | - | 1.66 | 16.4 |
| 39 | 14MX39S68-3020 | 3020 | 6.842 | 6.732 | 7.52 | AF-1 | 3 | 5.54 | - | 3.01 | 2 | - | 3.322 | - | 1.66 | 16.7 |
| 40 | 14MX40S68-3020 | 3020 | 7.018 | 6.908 | 7.52 | AF-1 | 3 | 5.54 | - | 3.01 | 2 | - | 3.322 | - | 1.66 | 17.0 |
| 43 | 14MX43S68-3020 | 3020 | 7.544 | 7.434 | 8.04 | AF-1 | 3 | 6.16 | - | 3.01 | 2 | - | 3.322 | - | 1.66 | 17.2 |
| 45 | 14MX45S68-3020 | 3020 | 7.895 | 7.785 | 8.39 | AF-1 | 3 | 6.42 | - | 3.01 | 2 | - | 3.322 | - | 1.66 | 20.4 |
| 48 | 14MX48S68-3525 | 3525 | 8.421 | 8.311 | 8.94 | AF-1 | 3.5 | 6.96 | - | 3.01 | 2.5 | - | 3.322 | - | 1.66 | 24.6 |
| 50 | 14MX50S68-3525 | 3525 | 8.772 | 8.662 | 9.29 | AF-1 | 3.5 | 7.44 | - | 3.01 | 2.5 | - | 3.322 | - | 1.66 | 29.4 |
| 53 | 14MX53S68-3525 | 3525 | 9.299 | 9.189 | 9.69 | AF-1 | 3.5 | 7.84 | - | 3.01 | 2.5 | - | 3.322 | - | 1.66 | 35.7 |
| 56 | 14MX56S68-3525 | 3525 | 9.825 | 9.715 | 10.36 | AF-1 | 3.5 | 8.35 | - | 3.01 | 2.5 | - | 3.322 | - | 1.66 | 39.9 |
| 60 | 14MX60S68-3525 | 3525 | 10.527 | 10.417 | 11.07 | AF-1 | 3.5 | 9.06 | - | 3.01 | 2.5 | - | 3.322 | - | 1.66 | 50.6 |
| 63 | 14MX63S68-3525 | 3525 | 11.053 | 10.943 | 11.59 | AF-1 | 3.5 | 9.59 | - | 3.01 | 2.5 | - | 3.322 | - | 1.66 | 58.0 |
| 67 | 14MX67S68-3525 | 3525 | 11.755 | 11.645 | 12.5 | DF-1 | 3.5 | 10.36 | 8.75 | 3.01 | 2.5 | - | 3.322 | 0.82 | 1.66 | 60.0 |
| 71 | 14MX71S68-3525 | 3525 | 12.457 | 12.347 | 13.07 | DF-1 | 3.5 | 11.05 | 8.75 | 3.01 | 2.5 | - | 3.322 | 0.82 | 1.66 | 63.3 |
| 75 | 14MX75S68-3525 | 3525 | 13.158 | 13.048 | 13.73 | DF-1 | 3.5 | 11.68 | 8.75 | 3.01 | 2.5 | - | 3.322 | 0.82 | 1.66 | 68.6 |
| 80 | 14MX80S68-3525 | 3525 | 14.036 | 13.926 | 14.62 | DF-2 | 3.5 | 12.56 | 8.75 | 3.01 | 2.5 | - | 3.322 | 0.82 | 1.66 | 76.3 |
| 90 | 14MX90S68-4030 | 4030 | 15.79 | 15.68 | - | D-2 | 4 | 14.26 | 10 | - | 3 | - | 3.322 | 0.32 | 1.66 | 82.6 |
| 112 | 14MX112S68-4030 | 4030 | 19.65 | 19.54 | - | D-3 | 4 | 16.35 | 10 | - | 3 | - | 3.322 | 0.32 | 1.66 | 100.4 |
| 140 | 14MX140S68-4030 | 4030 | 24.562 | 24.452 | - | D-3 | 4.5 | 20.78 | 10 | - | 3 | - | 3.322 | 0.32 | 1.66 | 190.0 |
| 168 | 14MX168S68-4535 | 4535 | 29.475 | 29.365 | - | C-3 | 4.5 | 25.23 | 10.5 | - | 3.5 | - | 3.322 | 0.18 | 1.66 | 239.1 |
| 180 | 14MX180S68-4335 | 4535 | 31.58 | 31.47 | - | C-3 | 4.5 | 27.16 | 10.5 | - | 3.5 | - | 3.322 | 0.18 | 1.66 | 250.6 |
| 200 | 14MX200568-4535 | 4535 | 35.089 | 34.979 | - | C-3 | 4.5 | 30.65 | 10.5 | - | 3.5 | - | 3.322 | 0.18 | 1.66 | 262.5 |
| 224 | 14MX224S68-5040 | 5040 | 39.3 | 39.19 | - | C-3 | 5 | 34.82 | 11 | - | 4 | - | 3.322 | 0.68 | 1.66 | 350.0 |

Type: 1- Solid 2 - Web 3 - Arms F=Flanged

NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore. Weights for Bushed Sprockets less bushing. Dimensions in Inches. Weight in pounds.

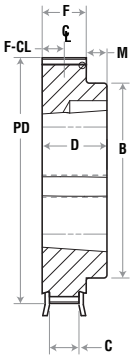
# MPC® Sprockets
# 14mm

Type A



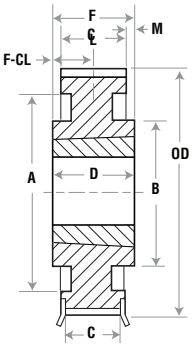

Type AF

Type B



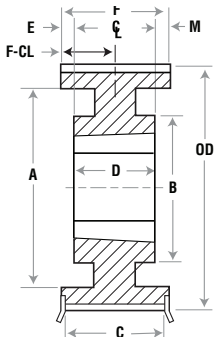

Type BF

Type C



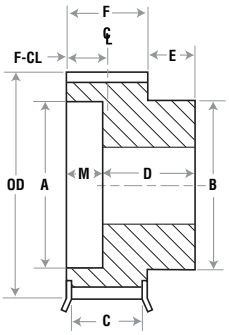

Type CF

Type D




Type DF

Type 6




Type 6F

## 14mm Pitch — 90mm Wide Belt

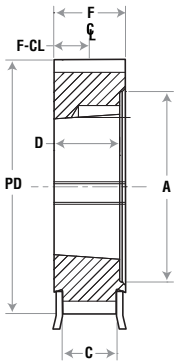
| No. of Teeth | Catalog Number | Bore | Pitch Diameter | Diameter O.D. | Diameter Max Flange O.D. | Type | Max Bore | Dimensions A | B | C | D | E | F | M | F-CL | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPB 14mm Pitch, 90mm (3.54 in.) Wide Belt (14M-90)** | | | | | | | | | | | | | | | | |
| 28 | PB14MX28S90 | MPB | 4.912 | 4.802 | 5.4 | 6F-1 | 2.938 | - | 3.97 | 3.88 | 5.14 | 0.95 | 4.192 | - | 2.1 | 20.0 |
| 29 | PB14MX29S90 | MPB | 5.088 | 4.978 | 5.76 | 6F-1 | 3.188 | - | 4.35 | 3.88 | 5 | 0.81 | 4.192 | - | 2.1 | 22.1 |
| 30 | PB14MX30S90 | MPB | 5.263 | 5.153 | 5.76 | 6F-1 | 3.188 | - | 4.35 | 3.88 | 5 | 0.81 | 4.192 | - | 2.1 | 24.0 |
| 31 | PB14MX31S90 | MPB | 5.439 | 5.329 | 6.11 | 6F-1 | 3.438 | - | 4.57 | 3.88 | 5 | 0.81 | 4.192 | - | 2.1 | 21.8 |
| 32 | PB14MX32S90 | MPB | 5.614 | 5.504 | 6.11 | 6F-1 | 3.438 | - | 4.57 | 3.88 | 5 | 0.81 | 4.192 | - | 2.1 | 27.0 |
| 33 | PB14MX33S90 | MPB | 5.79 | 5.68 | 6.47 | 6F-1 | 3.5 | - | 4.89 | 3.88 | 5.2 | 1.01 | 4.192 | - | 2.1 | 30.0 |
| 34 | PB14MX34S90 | MPB | 5.965 | 5.855 | 6.47 | 6F-1 | 3.5 | - | 4.89 | 3.88 | 5.2 | 1.01 | 4.192 | - | 2.1 | 27.2 |
| 35 | PB14MX35S90 | MPB | 6.141 | 6.031 | 6.82 | 6F-1 | 3.813 | - | 5.30 | 3.88 | 5.2 | 1.01 | 4.192 | - | 2.1 | 28.7 |
| 36 | PB14MX36S90 | MPB | 6.316 | 6.26 | 6.82 | 6F-1 | 3.813 | - | 5.30 | 3.88 | 5.2 | 1.01 | 4.192 | - | 2.1 | 30.3 |
| 37 | PB14MX37S90 | MPB | 6.492 | 6.382 | 7.17 | 6F-1 | 4.125 | - | 5.63 | 3.88 | 5.2 | 1.01 | 4.192 | - | 2.1 | 32.1 |
| 38 | PB14MX38S90 | MPB | 6.667 | 6.557 | 7.17 | 6F-1 | 4.125 | - | 5.63 | 3.88 | 5.2 | 1.01 | 4.192 | - | 2.1 | 33.9 |
| 39 | PB14MX39S90 | MPB | 6.842 | 6.732 | 7.5 | 6F-1 | 4.375 | - | 5.89 | 3.88 | 5.2 | 1.01 | 4.192 | - | 2.1 | 35.8 |
| 40 | PB14MX40S90 | MPB | 7.018 | 6.908 | 7.52 | 6F-1 | 4.375 | - | 5.89 | 3.88 | 5.2 | 1.01 | 4.192 | - | 2.1 | 37.7 |
| **Taper Bushed 14mm Pitch, 90mm (3.54 in.) Wide Belt (14M-90)** | | | | | | | | | | | | | | | | |
| 35 | 14MX35S90-3020 | 3020 | 6.141 | 6.031 | 6.82 | AF-1 | 3 | 4.95 | - | 3.88 | 2 | - | 4.192 | 2.19 | 2.1 | 22.9 |
| 36 | 14MX36S90-3020 | 3020 | 6.316 | 6.26 | 6.82 | AF-1 | 3 | 4.95 | - | 3.88 | 2 | - | 4.192 | 2.19 | 2.1 | 23.1 |
| 37 | 14MX37S90-3020 | 3020 | 6.492 | 6.382 | 7.17 | AF-1 | 3 | 5.27 | - | 3.88 | 2 | - | 4.192 | 2.19 | 2.1 | 23.4 |
| 38 | 14MX38S90-3020 | 3020 | 6.667 | 6.557 | 7.17 | AF-1 | 3 | 5.27 | - | 3.88 | 2 | - | 4.192 | 2.19 | 2.1 | 23.7 |
| 39 | 14MX39S90-3020 | 3020 | 6.842 | 6.732 | 7.52 | AF-1 | 3 | 5.54 | - | 3.88 | 2 | - | 4.192 | 2.19 | 2.1 | 24.0 |
| 40 | 14MX40S90-3020 | 3020 | 7.018 | 6.908 | 7.52 | AF-1 | 3 | 5.54 | - | 3.88 | 2 | - | 4.192 | 2.19 | 2.1 | 24.3 |
| 43 | 14MX43S90-3525 | 3525 | 7.544 | 7.434 | 8.04 | AF-1 | 3.5 | 6.16 | - | 3.88 | 2.5 | - | 4.192 | 1.69 | 2.1 | 24.7 |
| 45 | 14MX45S90-3525 | 3525 | 7.895 | 7.785 | 8.39 | AF-1 | 3.5 | 6.42 | - | 3.88 | 2.5 | - | 4.192 | 1.69 | 2.1 | 27.3 |
| 48 | 14MX48S90-3525 | 3525 | 8.421 | 8.311 | 8.94 | AF-1 | 3.5 | 6.96 | - | 3.88 | 2.5 | - | 4.192 | 1.69 | 2.1 | 33.4 |
| 50 | 14MX50S90-3525 | 3525 | 8.772 | 8.662 | 9.29 | AF-1 | 3.5 | 7.44 | - | 3.88 | 2.5 | - | 4.192 | 1.69 | 2.1 | 29.3 |
| 53 | 14MX53S90-3525 | 3525 | 9.299 | 9.189 | 9.69 | AF-1 | 3.5 | 7.83 | - | 3.88 | 2.5 | - | 4.192 | 1.69 | 2.1 | 46.8 |
| 56 | 14MX56S90-4030 | 4030 | 9.825 | 9.715 | 10.36 | AF-1 | 4 | 8.35 | - | 3.88 | 3 | - | 4.192 | 1.69 | 2.1 | 42.1 |
| 60 | 14MX60S90-4030 | 4030 | 10.527 | 10.417 | 11.07 | AF-1 | 4 | 9.06 | - | 3.88 | 3 | - | 4.192 | 1.69 | 2.1 | 50.5 |
| 63 | 14MX63S90-4030 | 4030 | 11.053 | 10.943 | 11.59 | AF-1 | 4 | 9.59 | - | 3.88 | 3 | - | 4.192 | 1.69 | 2.1 | 64.6 |
| 67 | 14MX67S90-4030 | 4030 | 11.755 | 11.645 | 12.5 | AF-1 | 4 | 9.88 | - | 3.88 | 3 | - | 4.192 | 1.69 | 2.1 | 70.0 |
| 71 | 14MX71S90-4030 | 4030 | 12.457 | 12.347 | 13.07 | AF-1 | 4 | 10.67 | - | 3.88 | 3 | - | 4.192 | 1.69 | 2.1 | 86.7 |
| 75 | 14MX75S90-4030 | 4030 | 13.158 | 13.048 | 13.73 | AF-1 | 4 | 11.63 | - | 3.88 | 3 | - | 4.192 | 1.69 | 2.1 | 85.0 |
| 80 | 14MX80S90-4030 | 4030 | 14.036 | 13.926 | 14.62 | DF-1 | 4 | 12.56 | 10 | 3.88 | 3 | - | 4.192 | 1.69 | 2.1 | 88.0 |
| 90 | 14MX90S90-4030 | 4030 | 15.79 | 15.68 | - | D-2 | 4 | 14.26 | 10 | - | 3 | - | 4.192 | 1.69 | 2.1 | 89.0 |
| 112 | 14MX112S90-4535 | 4535 | 19.65 | 19.54 | - | D-2 | 4.5 | 16.35 | 10.5 | - | 3.5 | - | 4.192 | 0.69 | 2.1 | 197.9 |
| 140 | 14MX140S90-5040 | 5040 | 24.562 | 24.452 | - | D-3 | 5 | 20.74 | 11 | - | 4 | - | 4.192 | 0.19 | 2.1 | 240.0 |
| 168 | 14MX168S90-6050 | 6050 | 29.475 | 29.365 | - | C-3 | 6 | 25.11 | 15.5 | - | 5 | - | 4.192 | 0.81 | 2.1 | 327.3 |
| 180 | 14MX180S90-6050 | 6050 | 31.58 | 31.47 | - | C-3 | 6 | 27.06 | 15.5 | - | 5 | - | 4.192 | 0.81 | 2.1 | 335.9 |
| 200 | 14MX200S90-6050 | 6050 | 35.089 | 34.979 | - | C-3 | 6 | 30.29 | 15.5 | - | 5 | - | 4.192 | 0.81 | 2.1 | 344.5 |
| 224 | 14MX224S90-6050 | 6050 | 39.3 | 39.19 | - | C-3 | 6 | 34.46 | 15.5 | - | 5 | - | 4.192 | 0.81 | 2.1 | 589.0 |

Type: 1- Solid 2 - Web 3 - Arms F=Flanged

NOTE: Weights for Minimum Plain Bore (MPB) Sprockets are with minimum bore. Weights for Bushed Sprockets less bushing. Dimensions in Inches. Weight in pounds.

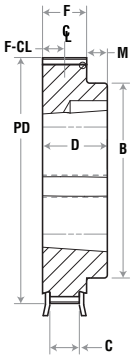
# MPC® Sprockets 14mm

Type A



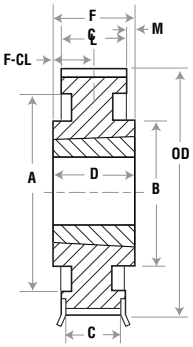

Type AF

Type B



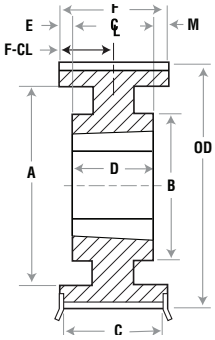

Type BF

Type C



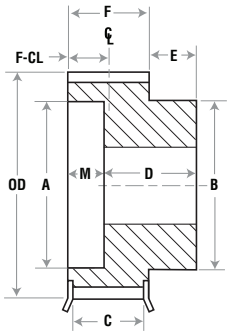

Type CF

Type D




Type DF

Type 6




Type 6F

## 14mm Pitch — 125mm Wide Belt

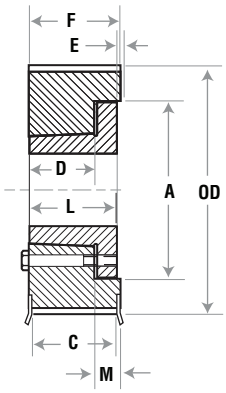
| No. of Teeth | Catalog Number | Bore | Pitch Diameter | Diameter O.D. | Diameter Max Flange O.D. | Type | Max Bore | Dimensions A | B | C | D | E | F | M | F-CL | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MPB 14mm Pitch, 125mm (4.92 in.) Wide Belt (14M-125)** | | | | | | | | | | | | | | | | |
| 28 | PB14MX28S125 | MPB | 4.912 | 4.802 | 5.4 | 6F-1 | 2.938 | - | 3.97 | 5.29 | 6.5 | 0.89 | 5.61 | - | 2.81 | 22.0 |
| 29 | PB14MX29S125 | MPB | 5.088 | 4.978 | 5.76 | 6F-1 | 3.188 | - | 4.35 | 5.29 | 6.5 | 0.89 | 5.61 | - | 2.81 | 27.0 |
| 30 | PB14MX30S125 | MPB | 5.263 | 5.153 | 5.76 | 6F-1 | 3.188 | - | 4.35 | 5.29 | 6.5 | 0.89 | 5.61 | - | 2.81 | 30.2 |
| 31 | PB14MX31S125 | MPB | 5.439 | 5.329 | 6.11 | 6F-1 | 3.438 | - | 4.57 | 5.29 | 6.5 | 0.89 | 5.61 | - | 2.81 | 32.0 |
| 32 | PB14MX32S125 | MPB | 5.614 | 5.504 | 6.11 | 6F-1 | 3.438 | - | 4.57 | 5.29 | 6.5 | 0.89 | 5.61 | - | 2.81 | 34.0 |
| 33 | PB14MX33S125 | MPB | 5.79 | 5.68 | 6.47 | 6F-1 | 3.5 | - | 4.89 | 5.29 | 6.69 | 1.08 | 5.61 | - | 2.81 | 31.8 |
| 34 | PB14MX34S125 | MPB | 5.965 | 5.855 | 6.47 | 6F-1 | 3.5 | - | 4.89 | 5.29 | 6.69 | 1.08 | 5.61 | - | 2.81 | 34.3 |
| 35 | PB14MX35S125 | MPB | 6.141 | 6.031 | 6.82 | 6F-1 | 3.813 | - | 5.30 | 5.29 | 6.69 | 1.08 | 5.61 | - | 2.81 | 36.2 |
| 36 | PB14MX36S125 | MPB | 6.316 | 6.206 | 6.82 | 6F-1 | 3.813 | - | 5.30 | 5.29 | 6.69 | 1.08 | 5.61 | - | 2.81 | 38.0 |
| 37 | PB14MX37S125 | MPB | 6.492 | 6.382 | 7.17 | 6F-1 | 4.125 | - | 5.63 | 5.29 | 6.69 | 1.08 | 5.61 | - | 2.81 | 40.3 |
| 38 | PB14MX38S125 | MPB | 6.667 | 6.557 | 7.17 | 6F-1 | 4.125 | - | 5.63 | 5.29 | 6.69 | 1.08 | 5.61 | - | 2.81 | 42.5 |
| 39 | PB14MX39S125 | MPB | 6.842 | 6.732 | 7.52 | 6F-1 | 4.375 | - | 5.89 | 5.29 | 6.69 | 1.08 | 5.61 | - | 2.81 | 44.9 |
| 40 | PB14MX40S125 | MPB | 7.018 | 6.908 | 7.52 | 6F-1 | 4.375 | - | 5.89 | 5.29 | 6.69 | 1.08 | 5.61 | - | 2.81 | 47.2 |
| 43 | PB14MX43S125 | MPB | 7.543 | 7.434 | 8.04 | 6F-1 | 4.813 | - | 6.51 | 5.29 | 6.81 | 1.2 | 5.61 | - | 2.81 | 55.5 |
| 45 | PB14MX45S125 | MPB | 7.894 | 7.785 | 8.4 | 6F-1 | 5 | - | 6.76 | 5.29 | 6.81 | 1.2 | 5.61 | - | 2.81 | 61.3 |
| 48 | PB14MX48S125 | MPB | 8.421 | 8.311 | 8.94 | 6F-1 | 5.625 | - | 7.29 | 5.29 | 6.81 | 1.2 | 5.61 | - | 2.81 | 68.7 |
| **Taper Bushed 14mm Pitch, 125mm (4.92 in.) Wide Belt (14M-125)** | | | | | | | | | | | | | | | | |
| 50 | 14MX50S125-4535 | 4535 | 8.772 | 8.662 | 9.29 | AF-1 | 4.5 | 7.44 | - | 5.29 | 3.5 | - | 5.61 | - | 2.81 | 39.4 |
| 53 | 14MX53S125-4535 | 4535 | 9.299 | 9.189 | 9.69 | AF-1 | 4.5 | 8.125 | - | 5.29 | 3.5 | - | 5.61 | - | 2.81 | 50.1 |
| 56 | 14MX56S125-4535 | 4535 | 9.825 | 9.715 | 10.36 | AF-1 | 4.5 | 8.35 | - | 5.29 | 3.5 | - | 5.61 | - | 2.81 | 52.6 |
| 60 | 14MX60S125-4535 | 4535 | 10.527 | 10.417 | 11.07 | AF-1 | 4.5 | 9.06 | - | 5.29 | 3.5 | - | 5.61 | - | 2.81 | 63.3 |
| 63 | 14MX63S125-4535 | 4535 | 11.053 | 10.943 | 11.59 | AF-1 | 4.5 | 9.59 | - | 5.29 | 3.5 | - | 5.61 | - | 2.81 | 77.2 |
| 67 | 14MX67S125-4535 | 4535 | 11.755 | 11.645 | 12.5 | AF-1 | 4.5 | 9.88 | - | 5.29 | 3.5 | - | 5.61 | - | 2.81 | 93.8 |
| 71 | 14MX71S125-5040 | 5040 | 12.457 | 12.347 | 13.07 | AF-1 | 5 | 10.67 | - | 5.29 | 4 | - | 5.61 | - | 2.81 | 93.0 |
| 75 | 14MX75S125-5040 | 5040 | 13.158 | 13.048 | 13.73 | AF-1 | 5 | 11.63 | - | 5.29 | 4 | - | 5.61 | - | 2.81 | 132.8 |
| 80 | 14MX80S125-5040 | 5040 | 14.036 | 13.926 | 14.62 | AF-1 | 5 | 12.59 | - | 5.29 | 4 | - | 5.61 | - | 2.81 | 137.0 |
| 90 | 14MX90S125-5040 | 5040 | 15.79 | 15.68 | - | D-1 | 5 | 14.26 | 11 | - | 4 | - | 5.61 | 1.61 | 2.81 | 121.0 |
| 112 | 14MX112S125-6050 | 6050 | 19.65 | 19.54 | - | A-1 | 6 | 16.35 | - | - | 5 | - | 5.61 | 0.61 | 2.81 | 210.6 |
| 140 | 14MX140S125-6050 | 6050 | 24.562 | 24.452 | - | D-3 | 6 | 20.74 | 15.5 | - | 5 | - | 5.61 | 0.61 | 2.81 | 270.3 |
| 168 | 14MX168S125-7060 | 7060 | 29.475 | 29.365 | - | C-3 | 7 | 25.11 | 17 | - | 6 | - | 5.61 | 0.39 | 2.81 | 345.2 |
| 180 | 14MX180S125-7060 | 7060 | 31.58 | 31.47 | - | C-3 | 7 | 27.06 | 17 | - | 6 | - | 5.61 | 0.39 | 2.81 | 365.2 |
| 200 | 14MX200S125-7060 | 7060 | 35.089 | 34.979 | - | C-3 | 7 | 30.29 | 17 | - | 6 | - | 5.61 | 0.39 | 2.81 | 373.5 |
| 224 | 14MX224S125-7060 | 7060 | 39.3 | 39.19 | - | C-3 | 7 | 34.21 | 17 | - | | - | 5.61 | 0.39 | 2.81 | 482.3 |

Type: 1- Solid 2 - Web 3 - Arms F=Flanged

NOTE: Weights for minimum plain bore (MPB) sprockets are with minimum bore.
Weights for bushed sprockets less bushing.
Dimensions in inches. Weight in pounds.

# MPC® Sprockets 14mm
# Air Cool Heat Exchange

Type A

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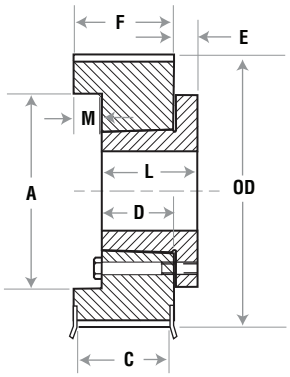


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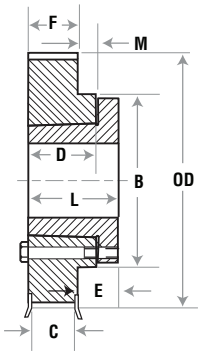


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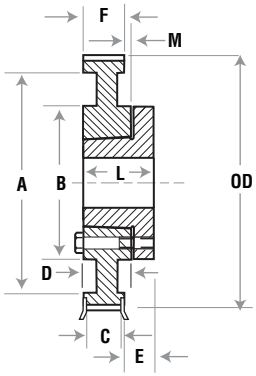


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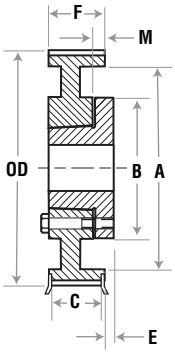


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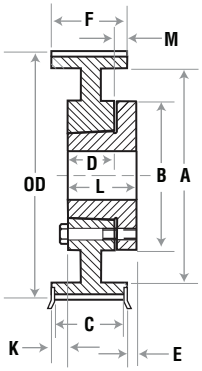


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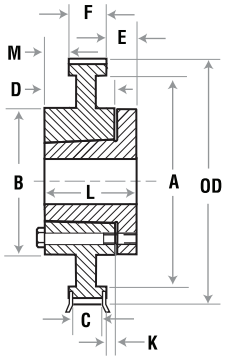
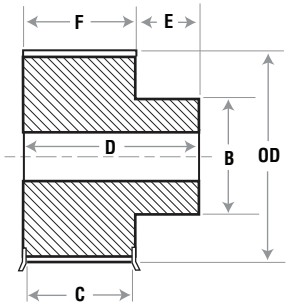



Type 6




## 14mm Pitch — 20mm Wide Air Cool Heat Exchange Belt

| No. of Teeth | Catalog Number | Bore | Pitch Diameter | Diameter | | Type | Max Bore | Dimensions | | | | | | | | | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | O.D. | Max Flange O.D. | | | A | B | C | D | E | F | L | M | F-CL | |
| MPB 14mm Pitch, 20mm (0.787 in.) Wide Belt (14M-20) | | | | | | | | | | | | | | | | | |
| 28 | F14MX28S20-SK | SK | 4.912 | 4.802 | 5.402 | AF-1 | 2.625 | 3.61 | - | 1.04 | 1.25 | 0.45 | 1.36 | 1.94 | 0.11 | 0.68 | 3.90 |
| 29 | F14MX29S20-SK | SK | 5.088 | 4.978 | 5.763 | AF-1 | 2.625 | 3.85 | - | 1.04 | 1.25 | 0.45 | 1.36 | 1.94 | 0.11 | 0.68 | 4.50 |
| 30 | F14MX30S20-SK | SK | 5.263 | 5.153 | 5.763 | AF-1 | 2.625 | 3.99 | - | 1.04 | 1.25 | 0.45 | 1.36 | 1.94 | 0.11 | 0.68 | 4.80 |
| 31 | F14MX31S20-SK | SK | 5.439 | 5.329 | 6.114 | AF-1 | 2.625 | 4.2 | - | 1.04 | 1.25 | 0.45 | 1.36 | 1.94 | 0.11 | 0.68 | 5.50 |
| 32 | F14MX32S20-SK | SK | 5.614 | 5.504 | 6.114 | AF-1 | 2.625 | 4.22 | - | 1.04 | 1.25 | 0.45 | 1.36 | 1.94 | 0.11 | 0.68 | 5.9 |
| 33 | F14MX33S20-SK | SK | 5.79 | 5.68 | 6.465 | AF-1 | 2.625 | 4.53 | - | 1.04 | 1.25 | 0.45 | 1.36 | 1.94 | 0.11 | 0.68 | 6.3 |
| 34 | F14MX34S20-SK | SK | 5.965 | 5.855 | 6.465 | AF-1 | 2.625 | 4.53 | - | 1.04 | 1.25 | 0.45 | 1.36 | 1.94 | 0.11 | 0.68 | 6.9 |
| 35 | F14MX35S20-SK | SK | 6.141 | 6.031 | 6.816 | AF-1 | 2.625 | 4.89 | - | 1.04 | 1.25 | 0.45 | 1.36 | 1.94 | 0.11 | 0.68 | 7.3 |
| 140 | F14MX140S20-E | E | 24.56 | 24.452 | - | CF-3* | 3.5 | 23.21 | 7.5 | 1.04 | 1.63 | 1.15 | 1.36 | 2.75 | 0.27 | 0.68 | 66.10 |
| 168 | F14MX168S20-F | F | 29.472 | 29.365 | - | GF-3* | 4 | 27.46 | 7.25 | 1.04 | 2.5 | 1:58 | 1.36 | 3.75 | 0.56 | 0.68 | 90.00 |
| 180 | F14MX180S20-F | F | 31.58 | 31.47 | - | CF-3* | 4 | 29.38 | 7.25 | 1.04 | 2.5 | 2.14 | 1.36 | 3.75 | 1.14 | 0.68 | 107.30 |
| 200 | F14MX200S20-F | F | 35.086 | 34.98 | - | GF-3* | 4 | 32.88 | 7.25 | 1.04 | 2.5 | 1.26 | 1.36 | 3.75 | 0.88 | 0.68 | 119.00 |
| 224 | F14MX224S20-F | F | 39.3 | 39.19 | - | CF-3* | 4 | 37.13 | 7.25 | 1.04 | 2.5 | 1.15 | 1.36 | 3.75 | 1.14 | 0.68 | 125.00 |

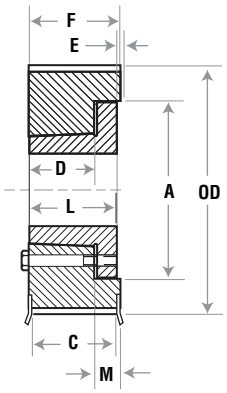
Type: 1- Solid 2 - Web 3 - Arms F=Flanged

* Flanged on bushings install side only.

NOTE: Weights for minimum plain bore (MPB) sprockets are with minimum bore.
Weights for bushed sprockets less bushing.
Dimensions in inches. Weight in pounds.

# MPC® Sprockets 14mm Air Cool Heat Exchange

Type A

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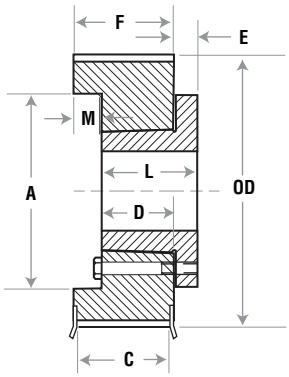


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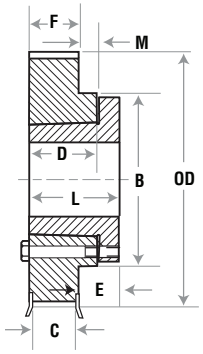
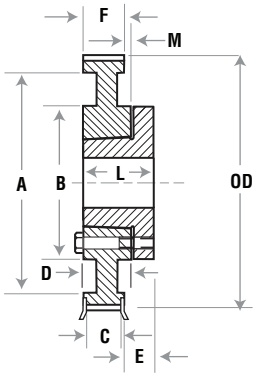
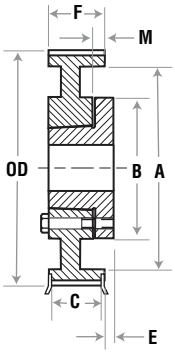



Type D




Type E

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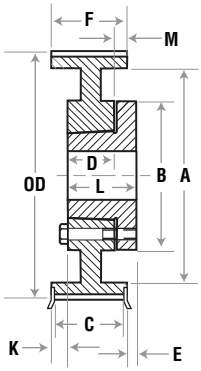
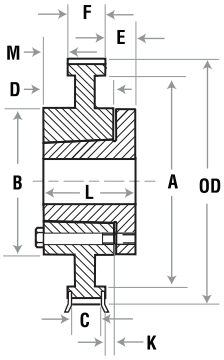
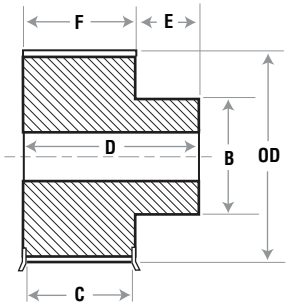



Type G




Type 6




## 14mm Pitch — 37mm Wide Air Cool Heat Exchange Belt

| No. of Teeth | Catalog Number | Bore | Pitch Diameter | Diameter | | Type | Max Bore | Dimensions | | | | | | | | | Weight Approx. (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | O.D. | Max Flange O.D. | | | A | B | C | D | E | F | L | M | F-CL | |
| MPB 14mm Pitch, 20mm (0.787 in.) Wide Belt (14M-20) | | | | | | | | | | | | | | | | | |
| 28 | F14MX28S37-SK | SK | 4.912 | 4.802 | 5.402 | BF-1 | 2.625 | 3.61 | - | 1.74 | 1.25 | 0.56 | 2.06 | 1.94 | 0.81 | 1.03 | 4.20 |
| 29 | F14MX29S37-SK | SK | 5.088 | 4.978 | 5.763 | BF-1 | 2.625 | 3.75 | - | 1.74 | 1.25 | 0.56 | 2.06 | 1.94 | 0.81 | 1.03 | 4.70 |
| 30 | F14MX30S37-SK | SK | 5.263 | 5.153 | 5.763 | BF-1 | 2.625 | 3.89 | - | 1.74 | 1.25 | 0.56 | 2.06 | 1.94 | 0.81 | 1.03 | 5.00 |
| 31 | F14MX31S37-SK | SK | 5.439 | 5.329 | 6.114 | AF-1 | 2.625 | 4.06 | - | 1.74 | 1.25 | -0.25 | 2.06 | 1.94 | 0.81 | 1.03 | 6.00 |
| 32 | F14MX32S37-SK | SK | 5.614 | 5.504 | 6.114 | AF-1 | 2.625 | 4.22 | - | 1.74 | 1.25 | -0.25 | 2.06 | 1.94 | 0.81 | 1.03 | 7.10 |
| 33 | F14MX33S37-SK | SK | 5.79 | 5.68 | 6.465 | AF-1 | 2.625 | 4.41 | - | 1.74 | 1.25 | -0.25 | 2.06 | 1.94 | 0.81 | 1.03 | 7.50 |
| 34 | F14MX34S37-SK | SK | 5.965 | 5.855 | 6.465 | AF-1 | 2.625 | 4.53 | - | 1.74 | 1.25 | -0.25 | 2.06 | 1.94 | 0.81 | 1.03 | 7.80 |
| 35 | F14MX35S37-SK | SK | 6.141 | 6.031 | 6.816 | AF-1 | 2.625 | 4.75 | - | 1.74 | 1.25 | -0.25 | 2.06 | 1.94 | 0.81 | 1.03 | 8.30 |
| 36 | F14MX36S37-SF | SF | 6.315 | 6.206 | 6.816 | AF-1 | 2.813 | 4.94 | - | 1.74 | 1.5 | -0.19 | 2.06 | 2.06 | 0.56 | 1.03 | 8.80 |
| 180 | F14MX180S37-E | E | 31.580 | 31.47 | - | DF-3* | 3.5 | 29.38 | 7.5 | - | 1.63 | 0.69 | 2.03 | 2.75 | 0.21 | 1.02 | 120.00 |
| 200 | F14MX200S37-E | E | 35.086 | 34.98 | - | DF-3* | 3.5 | 32.92 | 7.5 | - | 1.63 | 0.69 | 2.03 | 2.75 | 0.21 | 1.02 | 130.00 |
| 224 | F14MX224S37-E | E | 39.300 | 39.19 | - | DF-3* | 3.5 | 37.13 | 7.5 | - | 1.63 | 0.69 | 2.03 | 2.75 | 0.21 | 1.02 | 177.00 |

Type: 1- Solid 2 - Web 3 - Arms F=Flanged

* Flanged on bushing's install side only.

NOTE: Weights for minimum plain bore (MPB) sprockets are with minimum bore.
Weights for bushed sprockets less bushing.
Dimensions in inches. Weight in pounds.

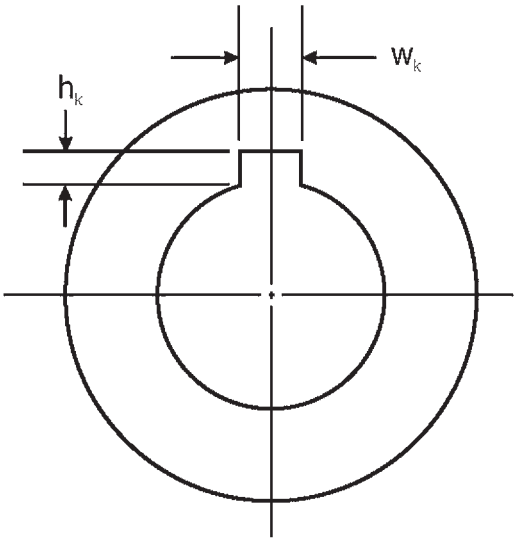
# Sprocket Specifications

## Sprocket Tolerance Specifications

MPC® sprockets are made to close tolerances. Strict adherence to the standard tolerances (as shown in table below) is highly recommended.

### Sprocket Outside Diameter and Pitch

| Outside Diameter Range (in) | Outside Diameter Tolerance (in) | Pitch to Pitch Tolerance | |
|---|---|---|---|
| | | Adjacent Grooves | Accumulative Over 90 Degrees |
| Over 2 to and including 4 | + 0.004<br>- 0 | ± 0.001 | ± 0.0045 |
| Over 4 to and including 7 | + 0.005<br>- 0 | ± 0.001 | ± 0.005 |
| Over 7 to and including 12 | + 0.006<br>- 0 | ± 0.001 | ± 0.005 |
| Over 12 to and including 20 | + 0.007<br>- 0 | ± 0.001 | ± 0.0065 |
| Over 20 | + 0.008<br>- 0 | ± 0.001 | ± 0.0075 |




### Sprocket Runout Radiant Runout*

| Outside Diameter | | Total Eccentricity Total Indicator Reading | |
|---|---|---|---|
| in | mm | in | mm |
| Over 2 to 4 | 50<br>100 | 0.003 | 0.08 |
| Over 4 to 8 | 100<br>200 | 0.004 | 0.10 |
| Over 8 | 200 | 0.005 per inch O.D. over 8” | .013 per mm O.C. over 200mm |
| | | (may not exceed face diameter tolerance) | |

***Total indicator reading**

## Axial Runout*

For outside diameters 1.0 inches and under ..... 0.001 inches
For each additional inch of outside diameter up through 10.0 inches, add ..... 01 inches
For each additional inch outside diameter over 10.0 inches, add ..... 05 inches

***Total Indicator Reading**

### Sprocket and Bushing Keyseat

| Shaft Diameter (in) | Width wk † | Depth hk (in) + 0.015 0 |
|---|---|---|
| Up through 7/16 (0.44) | 3/32 (0.0938) | 3/64 (0.047) |
| over 7/16 (0.44) to and incl. 9/16 (0.56) | 1/8 (0.125) | 1/16 (0.062) |
| over 9/16 (0.56) to and incl. 7/8 (0.88) | 3/16 (0.1875) | 3/32 (0.094) |
| over 7/8 (0.88) to and incl. 1-1/4 (1.25) | 1/4 (0.250) | 1/8 (0.125) |
| over 1-1/4 (1.25) to and incl. 1-3/8 (1.38) | 5/16 (0.3125) | 5/32 (0.156) |
| over 1-3/8 (1.38) to and incl. 1-3/4 (1.75) | 3/8 (0.375) | 3/16 (0.188) |
| over 1-3/4 (1.75) to and incl. 2-1/4 (2.25) | 1/2 (0.500) | 1/4 (0.250) |
| over 2-1/4 (2.25) to and incl. 2-3/4 (2.75) | 5/8 (0.625) | 5/16 (0.312) |
| over 2-3/4 (2.75) to and incl. 3-1/4 (3.25) | 3/4 (0.750) | 3/8 (0.375) |
| over 3-1/4 (3.25) to and incl. 3-3/4 (3.75) | 7/8 (0.875) | 7/16 (0.438) |
| over 3-3/4 (3.75) to and incl. 4-1/2 (4.50) | 1 (1) | 1/2 (0.500) |
| over 4-1/2 (4.50) to and incl. 5-1/2 (5.50) | 1-1/4 (1.250) | 5/8 (0.625) |

† Tolerance on width Wk
For width up through 1/2 (0.500) ..... +0.002, 0 inches
For width up through 1/2 (0.500) up through 1 (1) ..... +0.003, 0 inches
For width over 1 (1) ..... +0.004, 0 inches

# PLASTICS

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# Non-Metallic Sprockets

**Benefits:**

- **Extend chain life**
- **Corrosion resistant materials**
- **Light-weight**
- **Usda/fda approved**
- **For use with steel or plastic chain**

To meet our customers' diverse needs, Martin offers many roller chain sprockets made of industrial plastics. Plastic roller chain sprockets often prove superior in performance and durability compared with conventional metallic sprockets.

The benefits of using plastic roller chain sprockets include extended chain life, corrosion resistance, light weight, and decreased noise levels.

Martin plastic sprockets are available in USDA/FDA approved materials for applications involving food or drug processing and packaging.

Roller chain is available in sizes No. 25, 35, and 40. Most roller chain sprockets are available in "A" plate, "B" hub, or "C" hub styles. "B" hubs are made with either plastic or bolt-on metal hubs. Martin also manufactures metal hubs in steel and stainless steel.

Non-standard or custom-sized sprockets are also available, including square bores, snap ring and grease grooves, special cutouts, and special tooth dimensions. Martin can fabricate products from several types of plastics, including:

- **Nylon**
- **UHMW**
- **Acetal**
- **Teflon®**
- **Polypropylene**

# Roller Chain Sprockets Nomenclature

**D 160 B 16 NM 2 1/4**

**# of Strands**

Blank Single
**D** Double
**E** Triple
**F** Quadruple
**DS** Double Single

**Chain Pitch** (measured in eighths)

**25** = 2/8 = 1/4"
**35** = 3/8 = 3/8"
**40** = 4/8 = 1/2"
**41** = 4/8 = 1/2"
**50** = 5/8 = 5/8"
**60** = 6/8 = 3/4"
**80** = 8/8 = 1"
**100** = 10/8 = 1 1/4"
**120** = 12/8 = 1 1/2"
**140** = 14/8 = 1 3/4"
**160** = 16/8 = 2"
**180** = 18/8 = 2 1/4"
**200** = 20/8 = 2 1/2"
**240** = 24/8 = 3"

**Sprocket Type**

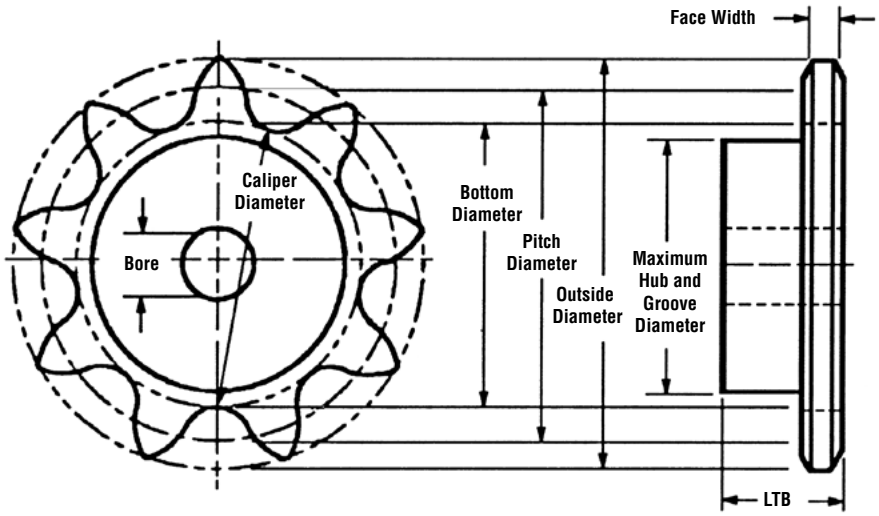
**A** Plate Only
**B** Hub One Side
**C** Hub Both Sides
**D** Detachable Hubs
**JA, SH,...** QD
**BTB** Taper Bushed
**H, P, Q,...** MST®
**BS** Bored-To-Size

**# of Teeth**

**Material**

**NM** Non-Metallic

**Bore Size**




## Sprocket Dimensional Specifications

**Bottom Diameter (B.D.)** – The diameter of a circle tangent to the seating curve at the bottom of the tooth gap of a roller chain sprocket.

**Caliper Diameter** – Since the bottom diameter of a sprocket with odd number of teeth cannot be measured directly, caliper diameters are the measurement across the tooth gaps nearly opposite.

**Pitch Diameter (P.D.)** – The diameter across to the pitch circle which is the circle followed by the centers of the chain pins as the sprocket revolves in mesh with the chain.

$$PD = \frac{PITCH}{SIN\ (180/Nt)}$$

**Outside Diameter (O.D.)** – The measurement from the tip of the sprocket tooth across to the corresponding point directly across the sprocket. It is comparatively unimportant as the tooth length is not vital to proper meshing with the chain. The outside diameter may vary depending on type of cutter used.

OD = (Pitch) (.6 + COT [180 / Nt])

**Hub Diameter (HOD)** – That distance across the hub from one side to another. This diameter must not exceed the calculated diameter of the inside of the chain side bars.

**Maximum Sprocket Bore** – Maximum Sprocket Bore is determined by the required hub wall thickness for proper strength. Allowance must be made for keyway and setscrews.

**Face Width** – Face width is limited in its maximum dimension to allow proper clearance to provide for chain engagement and disengagement. The minimum width is limited to provide the proper strength to carry the imposed loads.

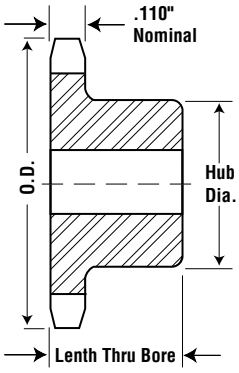
**Length Thru Bore (LTB)** – Length Thru Bore (or L.T.B.) must be sufficient to allow a long enough key to withstand the torque transmitted by the shaft. This also assures stability of the sprocket on the shaft.

# Plastic Sprockets

# No. 25 ¼" Pitch

Available with:

- Stock Bore
- Finished Bore Sizes




TYPE B

## Single-Type B — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Outside | Pitch | | Stock | Max | Diameter | LTB |
| 9 | 25B9NM | 0.837 | 0.731 | B | 0.25 | 0.25 | 0.594 | 0.5 |
| 10 | 25B10NM | 0.919 | 0.809 | B | 0.25 | 0.313 | 0.563 | 0.485 |
| 11 | 25B11NM | 1.001 | 0.887 | B | 0.25 | 0.375 | 0.563 | 0.485 |
| 12 | 25B12NM | 1.083 | 0.966 | B | 0.25 | 0.438 | 0.688 | 0.485 |
| 13 | 25B13NM | 1.164 | 1.045 | B | 0.25 | 0.5 | 0.75 | 0.485 |
| 14 | 25B14NM | 1.245 | 1.123 | B | 0.375 | 0.5 | 0.75 | 0.485 |
| 15 | 25B15NM | 1.326 | 1.202 | B | 0.375 | 0.5 | 0.75 | 0.485 |
| 16 | 25B16NM | 1.407 | 1.281 | B | 0.375 | 0.5 | 0.813 | 0.485 |
| 17 | 25B17NM | 1.487 | 1.361 | B | 0.375 | 0.5 | 0.906 | 0.485 |
| 18 | 25B18NM | 1.568 | 1.44 | B | 0.375 | 0.5 | 1 | 0.485 |
| 19 | 25B19NM | 1.648 | 1.519 | B | 0.375 | 0.5 | 1.063 | 0.485 |
| 20 | 25B20NM | 1.728 | 1.598 | B | 0.375 | 0.5 | 1.156 | 0.485 |
| 21 | 25B21NM | 1.809 | 1.677 | B | 0.375 | 0.5 | 1.156 | 0.485 |
| 22 | 25B22NM | 1.889 | 1.757 | B | 0.375 | 0.5 | 1.156 | 0.485 |
| 23 | 25B23NM | 1.969 | 1.836 | B | 0.375 | 0.5 | 1.156 | 0.485 |
| 24 | 25B24NM | 2.049 | 1.915 | B | 0.5 | 0.188 | 1.781 | 0.7 |
| 25 | 25B25NM | 2.129 | 1.995 | B | 0.5 | 1 | 1.86 | 0.7 |
| 26 | 25B26NM | 2.209 | 2.074 | B | 0.5 | 0.188 | 1.938 | 0.7 |
| 27 | 25B27NM | 2.289 | 2.153 | B | 0.5 | 1 | 2 | 0.7 |
| 28 | 25B28NM | 2.369 | 2.233 | B | 0.5 | 0.188 | 1.219 | 0.7 |
| 29 | 25B29NM | 2.449 | 2.312 | B | 0.5 | 1 | 2 | 0.7 |
| 30 | 25B30NM | 2.529 | 2.392 | B | 0.5 | 1 | 2 | 0.7 |
| 31 | 25B31NM | 2.609 | 2.471 | B | 0.5 | 1 | 2 | 0.7 |
| 32 | 25B32NM | 2.688 | 2.551 | B | 0.5 | 1 | 2 | 0.7 |
| 33 | 25B33NM | 2.688 | 2.63 | B | 0.5 | 1 | 2 | 0.7 |
| 34 | 25B34NM | 2.848 | 2.709 | B | 0.5 | 1 | 2 | 0.7 |
| 35 | 25B35NM | 2.928 | 2.789 | B | 0.5 | 1 | 2 | 0.7 |
| 36 | 25B36NM | 3.008 | 2.868 | B | 0.5 | 1 | 2 | 0.7 |
| 37 | 25B37NM | 3.087 | 2.948 | B | 0.5 | 1 | 2 | 0.7 |
| 39 | 25B39NM | 3.167 | 3.107 | B | 0.5 | 1 | 2 | 0.7 |
| 40 | 25B40NM | 3.327 | 3.186 | B | 0.5 | 1 | 2 | 0.7 |
| 41 | 25B41NM | 3.406 | 3.266 | B | 0.5 | 1 | 2 | 0.7 |
| 42 | 25B42NM | 3.486 | 3.345 | B | 0.5 | 1 | 2 | 0.7 |
| 43 | 25B43NM | 3.566 | 3.425 | B | 0.5 | 1 | 2 | 0.7 |
| 44 | 25B44NM | 3.646 | 3.504 | B | 0.5 | 1 | 2 | 0.7 |
| 45 | 25B45NM | 3.725 | 3.584 | B | 0.5 | 1 | 2 | 0.7 |
| 46 | 25B46NM | 3.805 | 3.663 | B | 0.5 | 1 | 2 | 0.7 |
| 47 | 25B47NM | 3.885 | 3.743 | B | 0.5 | 1 | 2 | 0.7 |
| 48 | 25B48NM | 3.964 | 3.822 | B | 0.5 | 1 | 2 | 0.7 |
| 49 | 25B49NM | 4.044 | 3.902 | B | 0.5 | 1.5 | 2 | 0.75 |
| 50 | 25B50NM | 4.124 | 3.981 | B | 0.5 | 1.5 | 2 | 0.75 |
| 54 | 25B54NM | 4.442 | 4.3 | B | 0.5 | 1.5 | 2 | 0.75 |
| 60 | 25B60NM | 4.92 | 4.777 | B | 0.5 | 0.875 | 1.375 | 0.61 |

Notes:

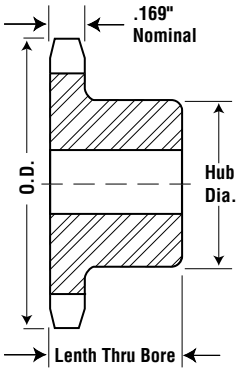
- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

# No. 35
## 3/8" Pitch

# Plastic Sprockets

Available with:

- Stock Bore
- Finished Bore Sizes




TYPE B

## Single-Type B — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Outside | Pitch | | Stock | Max | Diameter | LTB |
| 8 | 35B8NM | 1.13 | 0.98 | B | 0.25 | 0.375 | 0.75* | 0.75 |
| 9 | 35B9NM | 1.096 | 1.096 | B | 0.25 | 0.375 | 0.844* | 0.75 |
| 10 | 35B10NM | 1.379 | 1.214 | B | 0.375 | 0.438 | 0.969* | 0.75 |
| 11 | 35B11NM | 1.502 | 1.331 | B | 0.375 | 0.5 | 1.063* | 0.75 |
| 12 | 35B12NM | 1.625 | 1.449 | B | 0.5 | 0.563 | 1.219* | 0.75 |
| 13 | 35B13NM | 1.746 | 1.567 | B | 0.5 | 0.5 | 1.250* | 0.75 |
| 14 | 35B14NM | 1.868 | 1.685 | B | 0.5 | 0.75 | 1.25 | 0.75 |
| 15 | 35B15NM | 1.989 | 1.804 | B | 0.5 | 0.813 | 1.344 | 0.875 |
| 16 | 35B16NM | 2.11 | 1.922 | B | 0.5 | 0.938 | 1.469 | 0.875 |
| 17 | 35B17NM | 2.231 | 2.041 | B | 0.5 | 0.875 | 1.594 | 0.875 |
| 18 | 35B18NM | 2.352 | 2.16 | B | 0.5 | 0.688 | 1.719 | 0.875 |
| 19 | 35B19NM | 2.472 | 2.278 | B | 0.5 | 1 | 1.844 | 0.875 |
| 20 | 35B20NM | 2.593 | 2.397 | B | 0.5 | 1.188 | 1.938 | 0.875 |
| 21 | 35B21NM | 2.713 | 2.516 | B | 0.5 | 1 | 2 | 0.875 |
| 22 | 35B22NM | 2.833 | 2.635 | B | 0.5 | 1 | 2 | 0.875 |
| 23 | 35B23NM | 2.953 | 2.754 | B | 0.5 | 1 | 2 | 0.875 |
| 24 | 35B24NM | 3.073 | 2.873 | B | 0.5 | 1.188 | 2 | 0.875 |
| 25 | 35B25NM | 3.193 | 2.992 | B | 0.5 | 1 | 2 | 0.875 |
| 26 | 35B26NM | 3.313 | 3.111 | B | 0.5 | 1.438 | 2 | 0.875 |
| 27 | 35B27NM | 3.433 | 3.23 | B | 0.5 | 1 | 2 | 0.875 |
| 28 | 35B28NM | 3.553 | 3.349 | B | 0.5 | 1 | 2 | 0.875 |
| 29 | 35B29NM | 3.673 | 3.468 | B | 0.5 | 1 | 2 | 0.875 |
| 30 | 35B30NM | 3.793 | 3.588 | B | 0.5 | 1.438 | 2 | 0.875 |
| 31 | 35B31NM | 3.913 | 3.707 | B | 0.5 | 1 | 2 | 0.875 |
| 32 | 35B32NM | 4.032 | 3.826 | B | 0.5 | 1.5 | 2 | 0.875 |
| 33 | 35B33NM | 4.152 | 3.945 | B | 0.5 | 1.5 | 2.375 | 0.875 |
| 34 | 35B34NM | 4.272 | 4.064 | B | 0.5 | 1.5 | 2.375 | 0.875 |
| 35 | 35B35NM | 4.392 | 4.183 | B | 0.5 | 1.438 | 2.375 | 0.875 |
| 36 | 35B36NM | 4.511 | 4.303 | B | 0.5 | 1.438 | 2.375 | 0.875 |
| 37 | 35B37NM | 4.631 | 4.422 | B | 0.5 | 1.5 | 2.375 | 0.875 |
| 38 | 35B38NM | 4.751 | 4.541 | B | 0.5 | 1.5 | 2.375 | 0.875 |
| 39 | 35B39NM | 4.87 | 4.66 | B | 0.5 | 1.5 | 2.375 | 0.875 |
| 40 | 35B40NM | 4.99 | 4.78 | B | 0.5 | 1.75 | 2.375 | 1 |
| 41 | 35B41NM | 5.109 | 4.899 | B | 0.5 | 1.5 | 2.375 | 1 |
| 42 | 35B42NM | 5.229 | 5.018 | B | 0.5 | 1.5 | 2.375 | 1 |
| 43 | 35B43NM | 5.349 | 5.137 | B | 0.5 | 1.5 | 2.375 | 1 |
| 44 | 35B44NM | 5.468 | 5.257 | B | 0.5 | 1.5 | 2.375 | 1 |
| 45 | 35B45NM | 5.588 | 5.376 | B | 0.5 | 1.75 | 2.375 | 1 |
| 46 | 35B46NM | 5.707 | 5.495 | B | 0.5 | 1.5 | 2.375 | 1 |
| 47 | 35B47NM | 5.827 | 5.614 | B | 0.5 | 1.5 | 2.375 | 1 |
| 48 | 35B48NM | 5.946 | 5.734 | B | 0.5 | 1.5 | 2.375 | 1 |

* Has recessed groove for chain clearance.

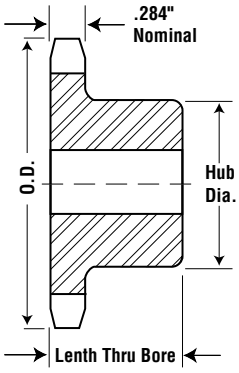
Notes:
- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

# Plastic Sprockets

# No. 40 ½" Pitch

Available with:

- Stock Bore
- Finished Bore Sizes




**TYPE B**

## Single-Type B — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Outside | Pitch | | Stock | Max | Diameter | LTB |
| 8 | 40B8NM | 1.507 | 1.307 | B | 0.5 | 0.5 | 1 | 0.875 |
| 9 | 40B9NM | 1.674 | 1.462 | B | 0.5 | 0.5 | 1.063 | 0.875 |
| 10 | 40B10NM | 1.839 | 1.618 | B | 0.5 | 0.5 | 1.25 | 0.875 |
| 11 | 40B11NM | 2.003 | 1.775 | B | 0.5 | 0.5 | 1.375 | 0.875 |
| 12 | 40B12NM | 2.166 | 1.932 | B | 0.5 | 0.625 | 1.563 | 0.875 |
| 13 | 40B13NM | 2.329 | 2.089 | B | 0.5 | 0.625 | 1.563 | 0.875 |
| 14 | 40B14NM | 2.491 | 2.247 | B | 0.5 | 0.75 | 1.688 | 0.875 |
| 15 | 40B15NM | 2.652 | 2.405 | B | 0.5 | 0.875 | 1.813 | 0.875 |
| 16 | 40B16NM | 2.814 | 2.563 | B | 0.5 | 0.938 | 2 | 0.875 |
| 17 | 40B17NM | 2.975 | 2.721 | B | 0.5 | 1 | 2.125 | 1 |
| 18 | 40B18NM | 3.136 | 2.879 | B | 0.5 | 1.125 | 2.313 | 1 |
| 19 | 40B19NM | 3.296 | 3.308 | B | 0.5 | 1.25 | 2.5 | 1 |
| 20 | 40B20NM | 3.457 | 3.196 | B | 0.5 | 1.25 | 2.625 | 1 |
| 21 | 40B21NM | 3.617 | 3.355 | B | 0.5 | 1.25 | 2.75 | 1 |
| 22 | 40B22NM | 3.778 | 3.513 | B | 0.5 | 1.375 | 2.875 | 1 |
| 23 | 40B23NM | 3.938 | 3.672 | B | 0.5 | 1.375 | 3 | 1 |
| 24 | 40B24NM | 4.098 | 3.831 | B | 0.5 | 1.5 | 3.25 | 1 |
| 25 | 40B25NM | 4.258 | 3.989 | B | 0.5 | 1.5 | 3.25 | 1 |
| 26 | 40B26NM | 4.418 | 4.148 | B | 0.5 | 1.5 | 3.25 | 1 |
| 27 | 40B27NM | 4.578 | 4.307 | B | 0.5 | 1.5 | 3.25 | 1 |
| 28 | 40B28NM | 4.738 | 4.466 | B | 0.5 | 1.5 | 3.25 | 1 |
| 29 | 40B29NM | 4.897 | 4.625 | B | 0.5 | 1.5 | 3.25 | 1 |
| 30 | 40B30NM | 5.057 | 4.783 | B | 0.5 | 1.5 | 3.25 | 1 |
| 31 | 40B31NM | 5.217 | 4.942 | B | 0.5 | 1.5 | 3.25 | 1 |
| 32 | 40B32NM | 5.377 | 5.101 | B | 0.5 | 1.5 | 3.25 | 1 |
| 33 | 40B33NM | 5.536 | 5.26 | B | 0.5 | 1.5 | 3.25 | 1 |
| 34 | 40B34NM | 5.696 | 5.419 | B | 0.5 | 1.5 | 3.25 | 1 |
| 35 | 40B35NM | 5.855 | 5.578 | B | 0.5 | 1.5 | 3.25 | 1 |
| 36 | 40B36NM | 6.015 | 5.737 | B | 0.5 | 1.5 | 3.25 | 1 |
| 37 | 40B37NM | 6.175 | 5.896 | B | 0.5 | 1.5 | 3.25 | 1 |
| 38 | 40B38NM | 6.334 | 6.055 | B | 0.5 | 1.5 | 3.25 | 1 |
| 39 | 40B39NM | 6.494 | 6.214 | B | 1 | 1.5 | 3.25 | 1 |
| 40 | 40B40NM | 6.653 | 6.373 | B | 1 | 1.75 | 3.5 | 1.125 |
| 41 | 40B41NM | 6.813 | 6.532 | B | 1 | 1.75 | 3.5 | 1.125 |
| 42 | 40B42NM | 6.972 | 6.691 | B | 1 | 1.75 | 3.5 | 1.125 |
| 43 | 40B43NM | 7.131 | 6.85 | B | 1 | 1.75 | 3.5 | 1.125 |
| 44 | 40B44NM | 7.291 | 7.009 | B | 1 | 1.75 | 3.5 | 1.125 |
| 45 | 40B45NM | 7.45 | 7.168 | B | 1 | 1.75 | 3.5 | 1.125 |
| 46 | 40B46NM | 7.61 | 7.327 | B | 1 | 1.75 | 3.5 | 1.125 |
| 47 | 40B47NM | 7.769 | 7.486 | B | 1 | 1.75 | 3.5 | 1.125 |
| 48 | 40B48NM | 7.929 | 7.645 | B | 1 | 1.75 | 3.5 | 1.125 |

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

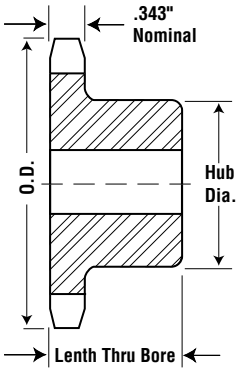
# No. 50
## 5/8" Pitch

# Plastic Sprockets

Martin

Available with:

- Stock bore
- Finished bore sizes




TYPE B

## Single-Type B — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Outside | Pitch | | Stock | Max | Diameter | LTB |
| 9 | 50B9NM | 2.092 | 1.827 | B | 0.5 | 0.625 | 1.375* | 1 |
| 10 | 50B10NM | 1.839 | 2.023 | B | 0.5 | 0.75 | 1.563* | 1 |
| 11 | 50B11NM | 2.504 | 2.218 | B | 0.5 | 0.875 | 1.75* | 1 |
| 12 | 50B12NM | 2.708 | 2.415 | B | 0.5 | 1 | 1.984* | 1 |
| 13 | 50B13NM | 2.911 | 2.612 | B | 0.5 | 0.875 | 1.875 | 1 |
| 14 | 50B14NM | 3.113 | 2.803 | B | 0.5 | 1 | 2.125 | 1 |
| 15 | 50B15NM | 3.315 | 3.006 | B | 0.5 | 1.25 | 2.375 | 1 |
| 16 | 50B16NM | 3.517 | 3.204 | B | 0.5 | 1.25 | 2.5 | 1 |
| 17 | 50B17NM | 3.718 | 3.401 | B | 0.5 | 1.375 | 2.688 | 1 |
| 18 | 50B18NM | 3.92 | 3.599 | B | 0.5 | 1.5 | 2.875 | 1 |
| 19 | 50B19NM | 4.12 | 3.797 | B | 0.5 | 1.625 | 3 | 1 |
| 20 | 50B20NM | 4.321 | 3.995 | B | 0.5 | 1.625 | 3 | 1 |
| 21 | 50B21NM | 4.522 | 4.193 | B | 0.5 | 1.625 | 3 | 1 |
| 22 | 50B22NM | 4.722 | 4.392 | B | 0.5 | 1.625 | 3 | 1 |
| 23 | 50B23NM | 4.922 | 4.59 | B | 0.5 | 1.625 | 3 | 1 |
| 24 | 50B24NM | 5.122 | 4.788 | B | 0.5 | 1.625 | 3 | 1.25 |
| 25 | 50B25NM | 5.322 | 4.987 | B | 0.5 | 1.625 | 3 | 1.25 |
| 26 | 50B26NM | 5.522 | 5.185 | B | 0.5 | 1.625 | 3 | 1.25 |
| 27 | 50B27NM | 5.722 | 5.384 | B | 0.5 | 1.625 | 3 | 1.25 |
| 28 | 50B28NM | 5.922 | 5.582 | B | 0.5 | 1.625 | 3 | 1.25 |
| 29 | 50B29NM | 6.122 | 5.781 | B | 0.5 | 1.625 | 3 | 1.25 |
| 30 | 50B30NM | 6.321 | 5.979 | B | 0.5 | 1.75 | 3.75 | 1.25 |
| 31 | 50B31NM | 6.521 | 6.178 | B | 0.5 | 1.75 | 3.75 | 1.25 |
| 32 | 50B32NM | 6.721 | 6.376 | B | 0.5 | 1.75 | 3.75 | 1.25 |
| 33 | 50B33NM | 6.92 | 6.575 | B | 0.5 | 1.75 | 3.75 | 1.25 |
| 34 | 50B34NM | 7.12 | 6.774 | B | 0.5 | 1.75 | 3.75 | 1.25 |
| 35 | 50B35NM | 7.319 | 6.972 | B | 0.5 | 1.75 | 3.75 | 1.25 |
| 36 | 50B36NM | 7.519 | 7.171 | B | 0.5 | 1.75 | 3.75 | 1.25 |
| 37 | 50B37NM | 7.718 | 7.37 | B | 0.5 | 1.75 | 3.75 | 1.25 |
| 38 | 50B38NM | 7.918 | 7.568 | B | 0.5 | 1.75 | 3.75 | 1.25 |
| 39 | 50B39NM | 8.117 | 7.767 | B | 0.5 | 1.75 | 3.75 | 1.25 |
| 40 | 50B40NM | 8.316 | 7.966 | B | 0.75 | 2 | 3.5 | 1.25 |
| 41 | 50B41NM | 8.516 | 8.165 | B | 0.75 | 2 | 3.5 | 1.25 |
| 42 | 50B42NM | 8.715 | 8.363 | B | 0.75 | 2 | 3.5 | 1.25 |
| 43 | 50B43NM | 8.914 | 8.562 | B | 0.75 | 2 | 3.5 | 1.25 |
| 44 | 50B44NM | 9.114 | 8.761 | B | 0.75 | 2 | 3.5 | 1.25 |
| 45 | 50B45NM | 9.313 | 8.96 | B | 0.75 | 2.375 | 4 | 1.25 |
| 46 | 50B46NM | 9.512 | 9.159 | B | 0.75 | 2.375 | 4 | 1.25 |
| 47 | 50B47NM | 9.711 | 9.357 | B | 0.75 | 2.375 | 4 | 1.25 |
| 48 | 50B48NM | 9.911 | 9.556 | B | 0.75 | 2.375 | 4 | 1.25 |

* Has recessed groove for chain clearance.

Notes:

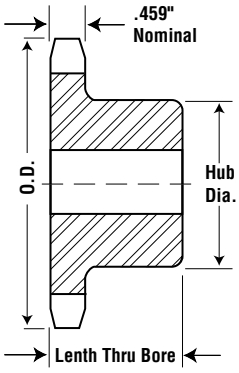
- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

# Plastic Sprockets

# No. 60
## ¾" Pitch

Available with:

- Stock bore
- Finished bore sizes




**TYPE B**

## Single-Type B — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Outside | Pitch | | Stock | Max | Diameter | LTB |
| 8 | 60B8NM | 2.261 | 1.96 | B | 0.5 | 0.625 | 1.5* | 1.25 |
| 9 | 60B9NM | 2.511 | 2.193 | B | 0.5 | 0.875 | 1.5* | 1.25 |
| 10 | 60B10NM | 2.758 | 2.427 | B | 0.5 | 1 | 0.5 | 1.25 |
| 11 | 60B11NM | 3.004 | 2.662 | B | 0.75 | 1 | 2* | 1.25 |
| 12 | 60B12NM | 3.249 | 2.898 | B | 0.75 | 1 | 2 | 1.25 |
| 13 | 60B13NM | 3.493 | 3.134 | B | 0.75 | 1 | 2.313 | 1.25 |
| 14 | 60B14NM | 3.736 | 3.37 | B | 0.75 | 1 | 2.5 | 1.25 |
| 15 | 60B15NM | 3.978 | 3.607 | B | 0.75 | 1 | 2.875 | 1.25 |
| 16 | 60B16NM | 4.221 | 3.844 | B | 0.75 | 1 | 3 | 1.25 |
| 17 | 60B17NM | 4.462 | 4.082 | B | 1 | 2 | 3.25 | 1.25 |
| 18 | 60B18NM | 4.703 | 4.319 | B | 1 | 2 | 3.5 | 1.25 |
| 19 | 60B19NM | 4.945 | 4.557 | B | 1 | 2 | 3.5 | 1.25 |
| 20 | 60B20NM | 5.185 | 4.794 | B | 1 | 2 | 3.875 | 1.25 |
| 21 | 60B21NM | 5.426 | 5.032 | B | 1 | 2 | 4 | 1.25 |
| 22 | 60B22NM | 5.666 | 5.27 | B | 1 | 2 | 4 | 1.25 |
| 23 | 60B23NM | 5.907 | 5.508 | B | 1 | 2 | 4 | 1.25 |
| 24 | 60B24NM | 6.147 | 5.746 | B | 1 | 2 | 4 | 1.25 |
| 25 | 60B25NM | 6.387 | 5.984 | B | 1 | 2 | 4 | 1.25 |
| 26 | 60B26NM | 6.627 | 6.222 | B | 1 | 2.5 | 4 | 1.25 |
| 27 | 60B27NM | 6.867 | 6.46 | B | 1 | 2.5 | 4 | 1.25 |
| 28 | 60B28NM | 7.106 | 6.699 | B | 1 | 2.5 | 4 | 1.25 |
| 29 | 60B29NM | 7.346 | 6.937 | B | 1 | 2.5 | 4 | 1.25 |
| 30 | 60B30NM | 7.586 | 7.175 | B | 1 | 2.5 | 4 | 1.25 |
| 31 | 60B31NM | 7.825 | 7.413 | B | 1 | 2.5 | 4 | 1.25 |
| 32 | 60B32NM | 8.065 | 7.652 | B | 1 | 2.5 | 4 | 1.25 |
| 33 | 60B33NM | 8.304 | 7.89 | B | 1 | 2.5 | 4 | 1.25 |
| 34 | 60B34NM | 8.544 | 8.128 | B | 1 | 3 | 4.5 | 1.25 |
| 35 | 60B35NM | 8.783 | 8.367 | B | 1 | 3 | 4.5 | 1.25 |
| 36 | 60B36NM | 9.023 | 8.605 | B | 1 | 3 | 4.5 | 1.25 |
| 37 | 60B37NM | 9.262 | 8.844 | B | 1 | 3 | 4.5 | 1.25 |
| 38 | 60B38NM | 9.501 | 9.082 | B | 1 | 3 | 4.5 | 1.25 |
| 39 | 60B39NM | 9.74 | 9.321 | B | 1 | 3 | 4.5 | 1.25 |
| 40 | 60B40NM | 9.98 | 9.559 | B | 1 | 3 | 4.5 | 1.25 |
| 41 | 60B41NM | 10.219 | 9.798 | B | 1 | 3 | 4.5 | 1.25 |
| 42 | 60B42NM | 10.458 | 10.036 | B | 1 | 3.5 | 5 | 1.25 |
| 43 | 60B43NM | 10.697 | 10.275 | B | 1 | 3.5 | 5 | 1.25 |
| 44 | 60B44NM | 10.936 | 10.513 | B | 1 | 3.5 | 5 | 1.25 |
| 45 | 60B45NM | 11.175 | 10.752 | B | 1 | 3.5 | 5 | 1.25 |
| 46 | 60B46NM | 11.415 | 10.99 | B | 1 | 3.5 | 5 | 1.25 |
| 47 | 60B47NM | 11.654 | 11.229 | B | 1 | 3.5 | 5 | 1.25 |
| 48 | 60B48NM | 11.893 | 11.467 | B | 1 | 3.5 | 5 | 1.25 |
| 49 | 60B49NM | 12.132 | 11.706 | B | 1 | 3.5 | 5 | 1.25 |
| 50 | 60B50NM | 12.371 | 11.944 | B | 1 | 3.5 | 5 | 1.25 |

* Has recessed groove for chain clearance.

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

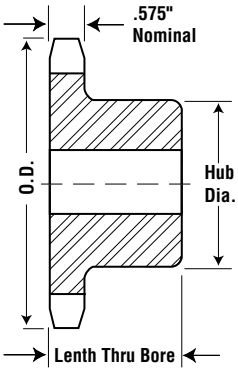
# No. 80
# 1" Pitch

# Plastic Sprockets

Martin

Available with:

- Stock bore
- Finished bore sizes




**TYPE B**

## Single-Type B — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Outside | Pitch | | Stock | Max | Diameter | LTB |
| 8 | 80B8NM | 3.014 | 2.613 | B | 0.75 | 1 | 2* | 1.5 |
| 9 | 80B9NM | 3.347 | 2.924 | B | 0.75 | 1 | 2* | 1.5 |
| 10 | 80B10NM | 3.678 | 3.236 | B | 0.75 | 1 | 2 | 1.5 |
| 11 | 80B11NM | 4.006 | 3.549 | B | 0.75 | 1 | 2 | 1.5 |
| 12 | 80B12NM | 4.332 | 3.864 | B | 0.75 | 1 | 2 | 1.5 |
| 13 | 80B13NM | 4.657 | 4.179 | B | 1 | 2 | 3.25 | 1.5 |
| 14 | 80B14NM | 4.981 | 4.494 | B | 1 | 2 | 3.25 | 1.5 |
| 15 | 80B15NM | 5.305 | 4.81 | B | 1 | 2 | 3.25 | 1.5 |
| 16 | 80B16NM | 5.627 | 5.126 | B | 1 | 2 | 3.25 | 1.5 |
| 17 | 80B17NM | 5.95 | 5.442 | B | 1 | 2 | 3.25 | 1.5 |
| 18 | 80B18NM | 6.271 | 5.759 | B | 1 | 2 | 3.25 | 1.5 |
| 19 | 80B19NM | 6.593 | 6.076 | B | 1 | 2.5 | 4 | 1.5 |
| 20 | 80B20NM | 6.914 | 6.392 | B | 1 | 2.5 | 4 | 1.5 |
| 21 | 80B21NM | 7.235 | 6.71 | B | 1 | 2.5 | 4 | 1.75 |
| 22 | 80B22NM | 7.555 | 7.027 | B | 1 | 2.5 | 4 | 1.75 |
| 23 | 80B23NM | 7.876 | 7.344 | B | 1 | 2.5 | 4 | 1.75 |
| 24 | 80B24NM | 8.196 | 7.661 | B | 1 | 2.5 | 4 | 1.75 |
| 25 | 80B25NM | 8.516 | 7.979 | B | 1 | 2.5 | 4 | 1.75 |
| 26 | 80B26NM | 8.836 | 8.296 | B | 1 | 3 | 4.5 | 2 |
| 27 | 80B27NM | 9.156 | 8.614 | B | 1 | 3 | 4.5 | 2 |
| 28 | 80B28NM | 9.475 | 8.931 | B | 1 | 3 | 4.5 | 2 |
| 29 | 80B29NM | 9.795 | 9.249 | B | 1 | 3 | 4.5 | 2 |
| 30 | 80B30NM | 10.114 | 9.567 | B | 1 | 3 | 4.5 | 2 |
| 31 | 80B31NM | 10.434 | 9.885 | B | 1 | 3 | 4.5 | 2 |
| 32 | 80B32NM | 10.753 | 10.202 | B | 1 | 3.5 | 5 | 2 |
| 33 | 80B33NM | 11.072 | 10.52 | B | 1 | 3.5 | 5 | 2 |
| 34 | 80B34NM | 11.392 | 10.838 | B | 1 | 3.5 | 5 | 2 |
| 35 | 80B35NM | 11.711 | 11.156 | B | 1 | 3.5 | 5 | 2 |
| 36 | 80B36NM | 12.03 | 11.474 | B | 1 | 3.5 | 5 | 2 |
| 37 | 80B37NM | 12.349 | 11.792 | B | 1 | 3.5 | 5 | 2 |
| 38 | 80B38NM | 12.668 | 12.11 | B | 1 | 4 | 5.5 | 2 |
| 39 | 80B39NM | 12.987 | 12.428 | B | 1 | 4 | 5.5 | 2 |
| 40 | 80B40NM | 13.306 | 12.746 | B | 1 | 4 | 5.5 | 2 |
| 41 | 80B41NM | 13.625 | 13.063 | B | 1 | 4 | 5.5 | 2 |
| 42 | 80B42NM | 13.944 | 13.382 | B | 1 | 4 | 5.5 | 2 |
| 43 | 80B43NM | 14.263 | 13.7 | B | 1 | 4 | 5.5 | 2 |
| 44 | 80B44NM | 14.582 | 14.018 | B | 1 | 4 | 6 | 2 |
| 45 | 80B45NM | 14.901 | 14.336 | B | 1 | 4 | 6 | 2 |
| 46 | 80B46NM | 15.219 | 14.654 | B | 1 | 4 | 6 | 2 |
| 47 | 80B47NM | 15.538 | 14.972 | B | 1 | 4 | 6 | 2 |
| 48 | 80B48NM | 15.857 | 15.29 | B | 1 | 4 | 6 | 2 |
| 49 | 80B49NM | 16.176 | 15.608 | B | 1 | 4 | 6 | 2 |
| 50 | 80B50NM | 16.495 | 15.926 | B | 1 | 4 | 6 | 2 |

* Has recessed groove for chain clearance.

Notes:

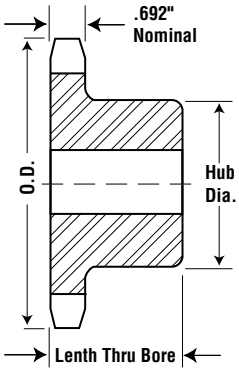
- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

# Plastic Sprockets

# No. 100
## 1¼" Pitch

Available with:

- Stock bore
- Finished bore sizes




**TYPE B**

## Single-Type B — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Outside | Pitch | | Stock | Max | Diameter | LTB |
| 8 | 100B8NM | 3.768 | 3.266 | B | 0.75 | 1 | 2 | 1.75 |
| 9 | 100B9NM | 4.184 | 3.655 | B | 0.75 | 1 | 2 | 1.75 |
| 10 | 100B10NM | 4.597 | 4.045 | B | 1 | 2.25 | 3.25 | 1.75 |
| 11 | 100B11NM | 5.007 | 4.437 | B | 1 | 2.25 | 3.25 | 1.75 |
| 12 | 100B12NM | 5.415 | 4.83 | B | 1 | 2.25 | 3.25 | 1.75 |
| 13 | 100B13NM | 5.821 | 5.223 | B | 1 | 2.25 | 3.25 | 1.75 |
| 14 | 100B14NM | 6.227 | 5.617 | B | 1 | 2.25 | 3.25 | 1.75 |
| 15 | 100B15NM | 6.631 | 6.012 | B | 1 | 2.5 | 4 | 1.75 |
| 16 | 100B16NM | 7.034 | 6.407 | B | 1 | 2.5 | 4 | 1.75 |
| 17 | 100B17NM | 7.437 | 6.803 | B | 1 | 2.5 | 4 | 1.75 |
| 18 | 100B18NM | 7.839 | 7.198 | B | 1 | 2.5 | 4 | 1.75 |
| 19 | 100B19NM | 8.241 | 7.594 | B | 1 | 2.5 | 4 | 2 |
| 20 | 100B20NM | 8.642 | 7.991 | B | 1 | 2.5 | 4 | 2 |
| 21 | 100B21NM | 9.043 | 8.387 | B | 1 | 3 | 4.5 | 2 |
| 22 | 100B22NM | 9.444 | 8.783 | B | 0.5 | 3 | 4.5 | 2 |
| 23 | 100B23NM | 9.844 | 9.18 | B | 0.5 | 3 | 4.5 | 2 |
| 24 | 100B24NM | 10.245 | 9.577 | B | 0.5 | 3 | 4.5 | 2 |
| 25 | 100B25NM | 10.645 | 9.973 | B | 0.5 | 3 | 4.5 | 2 |
| 26 | 100B26NM | 11.045 | 10.37 | B | 0.5 | 3.5 | 5 | 2 |
| 27 | 100B27NM | 11.444 | 10.767 | B | 0.5 | 3.5 | 5 | 2 |
| 28 | 100B28NM | 11.844 | 11.164 | B | 0.5 | 3.5 | 5 | 2 |
| 29 | 100B29NM | 12.244 | 11.561 | B | 0.5 | 3.5 | 5 | 2 |
| 30 | 100B30NM | 12.643 | 11.958 | B | 0.5 | 3.5 | 5 | 2 |
| 31 | 100B31NM | 13.043 | 12.356 | B | 0.5 | 4 | 5.5 | 2 |
| 32 | 100B32NM | 13.441 | 12.753 | B | 0.5 | 4 | 5.5 | 2 |
| 33 | 100B33NM | 13.841 | 13.15 | B | 0.5 | 4 | 5.5 | 2 |
| 34 | 100B34NM | 14.24 | 13.547 | B | 0.5 | 4 | 5.5 | 2 |
| 35 | 100B35NM | 14.639 | 13.945 | B | 0.5 | 4 | 5.5 | 2.5 |
| 36 | 100B36NM | 15.038 | 14.342 | B | 1 | 4 | 5.5 | 2.5 |
| 37 | 100B37NM | 15.436 | 14.74 | B | 1 | 4 | 6 | 2.5 |
| 38 | 100B38NM | 15.835 | 15.137 | B | 1 | 4 | 6 | 2.5 |
| 39 | 100B39NM | 16.234 | 15.534 | B | 1 | 4 | 6 | 2.5 |
| 40 | 100B40NM | 16.633 | 15.932 | B | 1 | 4 | 6 | 2.5 |
| 41 | 100B41NM | 17.031 | 16.329 | B | 1 | 4 | 6 | 2.5 |
| 42 | 100B42NM | 17.43 | 16.727 | B | 1 | 4 | 6 | 2.5 |
| 43 | 100B43NM | 17.829 | 17.124 | B | 1 | 4 | 6 | 2.5 |
| 44 | 100B44NM | 18.228 | 17.522 | B | 1 | 4 | 6 | 2.5 |
| 45 | 100B45NM | 18.626 | 17.919 | B | 1 | 4 | 6 | 2.5 |
| 46 | 100B46NM | 19.024 | 18.317 | B | 1 | 4 | 6 | 2.5 |
| 47 | 100B47NM | 19.423 | 18.715 | B | 1 | 4 | 6 | 2.5 |
| 48 | 100B48NM | 19.821 | 19.112 | B | 1 | 4 | 6 | 2.5 |
| 49 | 100B49NM | 20.22 | 19.51 | B | 1 | 4 | 6 | 2.5 |
| 50 | 100B50NM | 20.619 | 19.907 | B | 1 | 4 | 6 | 2.5 |

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.

# Metric
# Plastic Sprockets

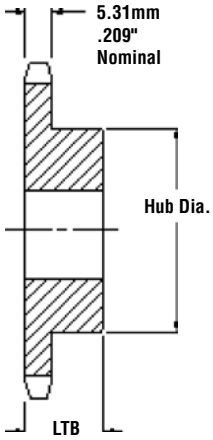
**ISO** **08B-1**

**METRIC** **40**

## 0.500 INCH (12.70mm) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/7ISO
08B-1PITCH: 12.70mm (0.500 in.)
ROLLER DIAMETER: 8.51mm (0.335 in.)
ROLLER WIDTH: 7.75mm (0.305 in.)
TENSILE: 1820 kilos (4000 lbs.)

TYPE B




## Single-Type B — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (mm) | | Hub (mm) | |
|---|---|---|---|---|---|---|---|---|
| | | Outside | Pitch | | Stock | Max | Diameter | LTB |
| 11 | 08B11NM | 52.4 | 45 | B | 12 | 20 | 34.93 | 22.23 |
| 12 | 08B12NM | 56.4 | 49.1 | B | 12 | 25 | 39.67 | 22.23 |
| 13 | 08B13NM | 60.4 | 53.1 | B | 12 | 25 | 39.67 | 22.23 |
| 14 | 08B14NM | 64.4 | 57.1 | B | 12 | 25 | 42.86 | 22.23 |
| 15 | 08B15NM | 68.4 | 61.1 | B | 12 | 30 | 46.02 | 22.23 |
| 16 | 08B16NM | 72.5 | 65.1 | B | 15 | 35 | 50.8 | 22.23 |
| 17 | 08B17NM | 76.5 | 69.1 | B | 15 | 40 | 53.98 | 25.4 |
| 18 | 08B18NM | 80.5 | 73.1 | B | 15 | 40 | 58.72 | 25.4 |
| 19 | 08B19NM | 84.5 | 77.2 | B | 15 | 45 | 63.5 | 25.4 |
| 20 | 08B20NM | 88.6 | 81.2 | B | 15 | 45 | 66.68 | 25.4 |
| 21 | 08B21NM | 92.6 | 85.2 | B | 15 | 45 | 69.85 | 25.4 |
| 22 | 08B22NM | 96.6 | 89.2 | B | 15 | 45 | 73.03 | 25.4 |
| 23 | 08B23NM | 100.6 | 93.3 | B | 15 | 50 | 76.2 | 25.4 |
| 24 | 08B24NM | 104.7 | 97.3 | B | 15 | 50 | 82.55 | 25.4 |
| 25 | 08B25NM | 108.7 | 101.3 | B | 15 | 55 | 82.55 | 25.4 |
| 26 | 08B26NM | 112.7 | 105.3 | B | 15 | 55 | 82.55 | 25.4 |
| 27 | 08B27NM | 116.8 | 109.4 | B | 15 | 55 | 82.55 | 25.4 |
| 28 | 08B28NM | 120.8 | 113.4 | B | 15 | 55 | 82.55 | 25.4 |
| 29 | 08B29NM | 124.8 | 117.5 | B | 15 | 55 | 82.55 | 25.4 |
| 30 | 08B30NM | 128.9 | 121 | B | 15 | 55 | 82.55 | 25.4 |

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.
- Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Metric
# Plastic Sprockets

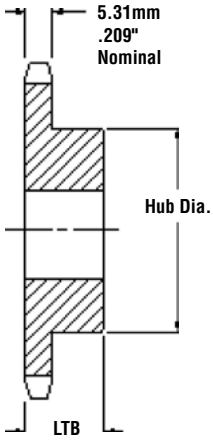
**ISO** **10B-1**

**METRIC** **50**

## 0.625 INCH (15.88mm) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/11ISO 10B-1
PITCH: 15.88mm (0.625 in.)
ROLLER DIAMETER: 10.16mm (0.400 in.)
ROLLER WIDTH: 9.65mm (0.380 in.)
TENSILE: 2270 kilos (4500 lbs.)

TYPE B




## Single-Type B — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (mm) | | Hub (mm) | |
|---|---|---|---|---|---|---|---|---|
| | | Outside | Pitch | | Stock | Max | Diameter | LTB |
| 11 | 10B11NM | 66 | 56.4 | B | 15 | 25 | 44.45 | 25.4 |
| 12 | 10B12NM | 71 | 61.3 | B | 15 | 30 | 50.39 | 25.4 |
| 13 | 10B13NM | 76 | 66.3 | B | 15 | 30 | 47.63 | 25.4 |
| 14 | 10B14NM | 81 | 71.3 | B | 15 | 35 | 53.98 | 25.4 |
| 15 | 10B15NM | 86 | 76.4 | B | 15 | 35 | 60.33 | 25.4 |
| 16 | 10B16NM | 91.1 | 81.4 | B | 15 | 40 | 63.5 | 25.4 |
| 17 | 10B17NM | 96.1 | 86.4 | B | 15 | 40 | 68.25 | 25.4 |
| 18 | 10B18NM | 101.1 | 91.4 | B | 15 | 45 | 73.03 | 25.4 |
| 19 | 10B19NM | 106.1 | 96.4 | B | 15 | 50 | 76.2 | 25.4 |
| 20 | 10B20NM | 111.2 | 101.5 | B | 20 | 50 | 76.2 | 25.4 |
| 21 | 10B21NM | 116.2 | 106.5 | B | 20 | 50 | 76.2 | 25.4 |
| 22 | 10B22NM | 121.2 | 111.6 | B | 20 | 50 | 76.2 | 25.4 |
| 23 | 10B23NM | 126.3 | 116.6 | B | 20 | 50 | 76.2 | 25.4 |
| 24 | 10B24NM | 131.3 | 121.6 | B | 20 | 50 | 76.2 | 31.75 |
| 25 | 10B25NM | 136.3 | 126.7 | B | 20 | 50 | 76.2 | 31.75 |
| 26 | 10B26NM | 141.4 | 131.7 | B | 20 | 50 | 76.2 | 31.75 |
| 27 | 10B27NM | 146.4 | 136.8 | B | 20 | 50 | 76.2 | 31.75 |
| 28 | 10B28NM | 151.5 | 141.8 | B | 20 | 50 | 76.2 | 31.75 |
| 29 | 10B29NM | 155.49 | 146.8 | B | 20 | 50 | 76.2 | 31.75 |
| 30 | 10B30NM | 161.6 | 151.9 | B | 20 | 55 | 82.55 | 31.75 |

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.
- Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Metric
# Plastic Sprockets

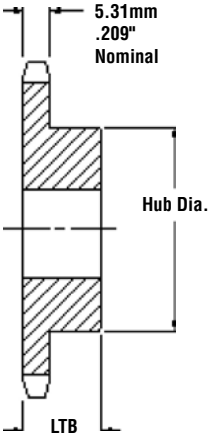
**ISO** **12B-1**

**METRIC** **60**

## 0.750 INCH (19.05mm) PITCH SIMPLEX

**CHAIN DATA:**
BS 228/13ISO 12B-1
PITCH: 19.05mm (0.750 in.)
ROLLER DIAMETER: 12.07mm (0.475 in.)
ROLLER WIDTH: 11.68mm (0.460 in.)
TENSILE: 2950 kilos (6500 lbs.)

TYPE B



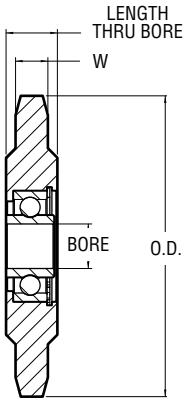

## Single-Type B — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (mm) | | Hub (mm) | |
|---|---|---|---|---|---|---|---|---|
| | | Outside | Pitch | | Stock | Max | Diameter | LTB |
| 11 | 12B11NM | 79.4 | 67.64 | B | 18 | 30 | 52.37 | 31.75 |
| 12 | 12B12NM | 85.4 | 73.61 | B | 18 | 35 | 60.32 | 31.75 |
| 13 | 12B13NM | 91.3 | 79.6 | B | 18 | 35 | 59.51 | 31.75 |
| 14 | 12B14NM | 97.4 | 85.6 | B | 18 | 40 | 65.07 | 31.75 |
| 15 | 12B15NM | 103.4 | 91.6 | B | 18 | 45 | 73.03 | 31.75 |
| 16 | 12B16NM | 109.4 | 97.6 | B | 18 | 50 | 77.77 | 31.75 |
| 17 | 12B17NM | 115.4 | 103.7 | B | 18 | 55 | 82.55 | 31.75 |
| 18 | 12B18NM | 121.5 | 109.7 | B | 18 | 60 | 88.9 | 31.75 |
| 19 | 12B19NM | 127.5 | 115.7 | B | 18 | 60 | 88.9 | 31.75 |
| 20 | 12B20NM | 133.5 | 121.8 | B | 18 | 65 | 98.43 | 31.75 |
| 21 | 12B21NM | 139.6 | 127.9 | B | 18 | 70 | 101.6 | 31.75 |
| 22 | 12B22NM | 145.6 | 133.9 | B | 18 | 70 | 101.6 | 31.75 |
| 23 | 12B23NM | 151.6 | 139.9 | B | 18 | 70 | 101.6 | 31.75 |
| 24 | 12B24NM | 157.7 | 145.9 | B | 18 | 70 | 101.6 | 31.75 |
| 25 | 12B25NM | 163.7 | 152 | B | 18 | 70 | 101.6 | 31.75 |
| 26 | 12B26NM | 169.8 | 158 | B | 18 | 70 | 101.6 | 31.75 |
| 27 | 12B27NM | 175.8 | 164.1 | B | 18 | 70 | 101.6 | 31.75 |
| 28 | 12B28NM | 181.9 | 170.2 | B | 18 | 70 | 101.6 | 31.75 |
| 29 | 12B29NM | 186.6 | 176.2 | B | 18 | 70 | 101.6 | 31.75 |
| 30 | 12B30NM | 194 | 182.2 | B | 18 | 70 | 101.6 | 31.75 |

Notes:

- Standard Material: Natural Nylon.
- Other numbers of teeth and hub styles available.
- Available as stock drilled bore, finished drive bore with keyway and setscrews, or idler bore.
- A Plate and C Style also available.
- Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

## Non-Metallic Teeth – Ball Bearing Type




## Ball Bearing Idler Sprockets — Non Metallic Teeth

| No. Teeth | Catalog Number | Bearing Type | Chain Size | O.D | Stock Bore | Length Thru Bore | W | Wt. Lbs. |
|---|---|---|---|---|---|---|---|---|
| 17 | 40BB17NM 1/2 | Ball | 40 | 2.97 | 0.510 | 0.72 | 0.284 | 0.24 |
| 18 | 40BB18NM 5/8 | Ball | 40 | 3.14 | 0.638 | 0.72 | 0.284 | 0.23 |
| 17 | 50BB17NM 1/2 | Ball | 50 | 3.72 | 0.510 | 0.72 | 0.343 | 0.29 |
| 18 | 50BB18NM 5/8 | Ball | 50 | 3.92 | 0.638 | 0.72 | 0.343 | 0.29 |
| 15 | 60BB15NM 1/2 | Ball | 60 | 3.98 | 0.510 | 0.72 | 0.459 | 0.32 |
| 16 | 60BB16NM 5/8 | Ball | 60 | 4.22 | 0.638 | 0.72 | 0.459 | 0.33 |
| 12 | 80BB12NM 3/4 | Ball | 80 | 4.33 | 0.750 | 0.61 | 0.575 | 0.44 |

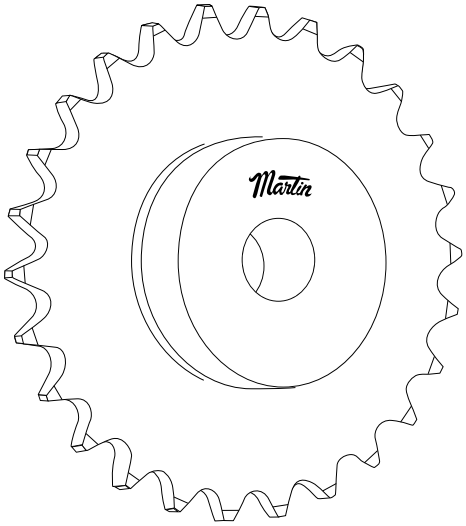
Note: .510 Stock Bore is +.005 .000; .638 Stock Bore Is +.005 .000;
.750 Stock Bore Is +.005 .000

## Radial Load Capacity in Pounds at Various Speeds Ball Bearings

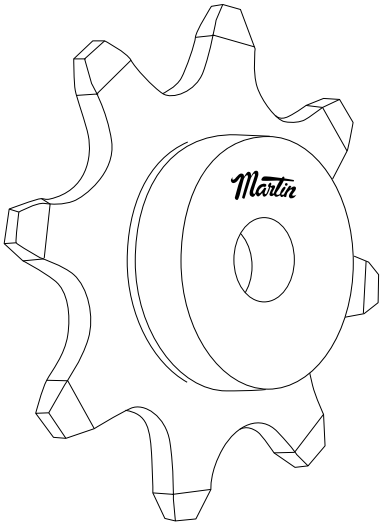
| Idler Size | RPM | | | | | |
|---|---|---|---|---|---|---|
| | 100 | 500 | 1000 | 1500 | 2000 | 2500 |
| .375" Bore | 620 | 363 | 288 | 252 | 229 | 212 |
| .5" & .625" Bore | 800 | 460 | 360 | 320 | 290 | 270 |
| .75" Bore | 1290 | 755 | 600 | 523 | 478 | 440 |

Ratings shown above are based on an average bearing life of 2500 hours.

# Double Pitch
# Plastic Sprockets

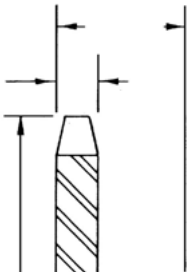


**Standard Roller**
**Double Duty**

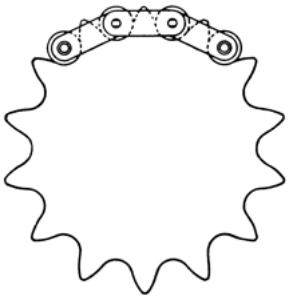


**Carrier**
**Roller**

## Double-Pitch Sprockets



**Standard Rollers**



**Carrier Rollers**

Series C-2000 chains have rollers of the same diameters and widths as American Standard Roller Chains of one half the conveyor chain pitch. Engaged by every other tooth, double duty sprockets have two teeth per chain pitch. During each revolution only half the teeth function effectively. Sprockets with odd numbers of teeth will allow any given tooth to engage only on every other revolution, automatically increasing sprocket life. Double duty sprockets with even number of teeth may be manually advanced one tooth periodically to increase sprocket life. Martin Stock C-2000 series sprockets are furnished double duty only.

Sprockets for the C-2002 series chain with carrier rollers are cut with space cutters or standard hobs for the American Standard roller Chain of the same diameter. Each sprocket tooth meshes with these chains. Double-duty sprockets cannot be made for double pitch chain with Carrier Rollers.

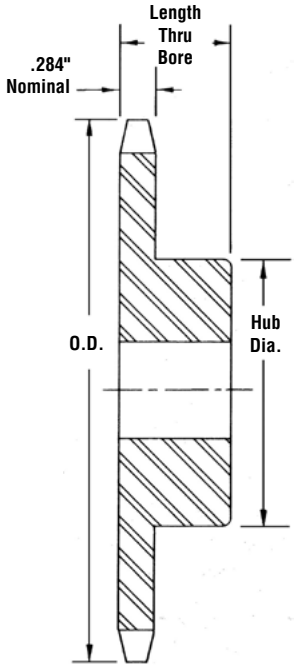
**NOTE: For drives of 31 teeth or more we recommend using Standard sprockets with series C-2000 chains.**

**All altered double pitch sprockets requiring a keyway will be furnished with keyway on center line of tooth, unless otherwise specified.**

# Double Pitch Plastic Sprockets

Martin manufactures sprockets for double pitch roller chain. Double pitch sprockets reduce sprocket contact with the chain by half, engaging every other sprocket tooth. This reduces wear and thus increases sprocket longevity.

The standard material used on Martin's non-metallic double pitch sprocket is UHMW. Other materials such as nylon or acetal may be requested. Consult Martin for selection assistance when special applications are required.




TYPE B

## 1-Inch Double-Pitch Conveyor or Drive Series — Standard Roller Double Pitch — 2040/C2040 — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max | Diameter | LTB |
| 11 | 2040B11NM | 1.85 | 2 | B | 0.5 | 0.813 | 1.375* | 0.875 |
| 12 | 2040B12NM | 2 | 2.17 | B | 0.5 | 0.813 | 1.563* | 0.875 |
| 13 | 2040B13NM | 2.15 | 2.33 | B | 0.5 | 0.656 | 1.563* | 0.875 |
| 14 | 2040B14NM | 2.31 | 2.49 | B | 0.5 | 1.031 | 1.688* | 0.875 |
| 15 | 2040B15NM | 2.46 | 2.65 | B | 0.5 | 1.219 | 1.719 | 0.875 |
| 16 | 2040B16NM | 2.61 | 2.81 | B | 0.5 | 1.281 | 1.875 | 0.875 |
| 17 | 2040B17NM | 2.77 | 2.98 | B | 0.5 | 1.313 | 2.047 | 1 |
| 18 | 2040B18NM | 2.92 | 3.14 | B | 0.5 | 1.469 | 2.219 | 1 |
| 19 | 2040B19NM | 3.08 | 3.3 | B | 0.5 | 1.625 | 2.375 | 1 |
| 20 | 2040B20NM | 3.24 | 3.46 | B | 0.5 | 1.625 | 2.547 | 1 |
| 21 | 2040B21NM | 3.39 | 3.62 | B | 0.5 | 1.781 | 2.703 | 1 |
| 22 | 2040B22NM | 3.55 | 3.78 | B | 0.5 | 1.875 | 2.875 | 1 |
| 23 | 2040B23NM | 3.71 | 3.94 | B | 0.5 | 2 | 3 | 1 |
| 24 | 2040B24NM | 3.86 | 4.1 | B | 0.5 | 2.25 | 3.25 | 1 |
| 25 | 2040B25NM | 4.02 | 4.26 | B | 0.5 | 2.25 | 3.25 | 1 |
| 26 | 2040B26NM | 4.18 | 4.42 | B | 0.5 | 2.25 | 3.25 | 1 |
| 28 | 2040B28NM | 4.49 | 4.74 | B | 0.5 | 2.25 | 3.25 | 1 |
| 30 | 2040B30NM | 4.81 | 5.06 | B | 0.5 | 2.25 | 3.25 | 1 |

* Recessed groove in hub for chain clearance.

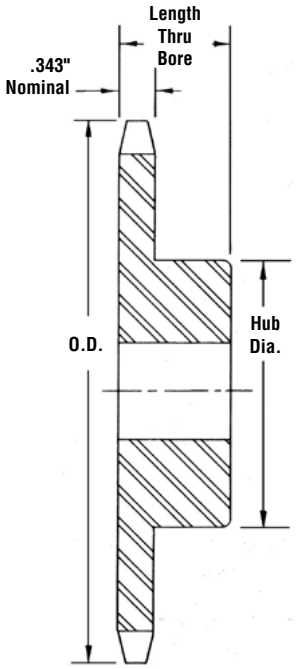
## Conveyor or Drive Series — Carrier Roller Double Pitch — 2042/C2042 — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max | Diameter | LTB |
| 8 | 2042B8NM | 2.61 | 3.01 | B | 0.5 | 1.281 | 1.875 | 0.875 |
| 9 | 2042B9NM | 2.92 | 3.35 | B | 0.5 | 1.469 | 2.219 | 0.875 |
| 10 | 2042B10NM | 3.24 | 3.68 | B | 0.5 | 1.75 | 2.547 | 1 |
| 11 | 2042B11NM | 3.55 | 4 | B | 0.5 | 1.875 | 2.625 | 1 |
| 12 | 2042B12NM | 3.86 | 4.33 | B | 0.5 | 2.25 | 3.063 | 1 |
| 13 | 2042B13NM | 4.18 | 3.66 | B | 0.5 | 2.25 | 3.25 | 1 |
| 14 | 2042B14NM | 4.49 | 4.98 | B | 0.5 | 2.25 | 3.25 | 1 |
| 15 | 2042B15NM | 4.81 | 5.3 | B | 0.5 | 2.25 | 3.25 | 1 |
| 16 | 2042B16NM | 5.13 | 5.63 | B | 0.5 | 2.25 | 3.25 | 1 |
| 17 | 2042B17NM | 5.44 | 5.95 | B | 0.5 | 2.25 | 3.25 | 1 |
| 18 | 2042B18NM | 5.76 | 6.27 | B | 0.5 | 2.25 | 3.25 | 1 |
| 19 | 2042B19NM | 6.08 | 6.59 | B | 0.5 | 2.25 | 3.25 | 1 |
| 20 | 2042B20NM | 6.39 | 6.91 | B | 0.5 | 2.375 | 3.5 | 1.125 |
| 21 | 2042B21NM | 6.71 | 7.24 | B | 0.5 | 2.375 | 3.5 | 1.125 |
| 22 | 2042B22NM | 7.01 | 7.56 | B | 0.5 | 2.375 | 3.5 | 1.125 |
| 23 | 2042B23NM | 7.34 | 7.88 | B | 0.5 | 2.375 | 3.5 | 1.125 |
| 24 | 2042B24NM | 7.66 | 8.2 | B | 0.5 | 2.375 | 3.5 | 1.125 |
| 25 | 2042B25NM | 7.98 | 8.52 | B | 0.5 | 2.375 | 3.5 | 1.125 |
| 26 | 2042B26NM | 8.3 | 8.84 | B | 0.5 | 2.375 | 3.5 | 1.125 |
| 28 | 2042B28NM | 8.93 | 9.48 | B | 0.5 | 2.375 | 3.5 | 1.125 |
| 30 | 2042B30NM | 9.57 | 10.11 | B | 0.5 | 2.375 | 3.5 | 1.125 |

* Recessed groove in hub for chain clearance.

- Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Double Pitch
# Plastic Sprockets




TYPE B

## 1¼-Inch Double-Pitch
## Conveyor or Drive Series — Standard Roller
## Double Pitch — 2050/C2050 — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max | Diameter | LTB |
| 11 | 2050B11NM | 2.315 | 2.5 | B | 0.5 | 0.813 | 1.750* | 1 |
| 12 | 2050B12NM | 2.5 | 2.71 | B | 0.5 | 1 | 1.984 | 1 |
| 13 | 2050B13NM | 2.69 | 2.91 | B | 0.5 | 1.219 | 1.719 | 1 |
| 14 | 2050B14NM | 2.881 | 3.11 | B | 0.5 | 1.281 | 1.938 | 1 |
| 15 | 2050B15NM | 3.073 | 3.32 | B | 0.5 | 1.406 | 2.156 | 1 |
| 16 | 2050B16NM | 3.266 | 3.52 | B | 0.5 | 1.594 | 2.359 | 1 |
| 17 | 2050B17NM | 3.46 | 3.72 | B | 0.5 | 1.75 | 2.563 | 1 |
| 18 | 2050B18NM | 3.655 | 3.92 | B | 0.5 | 1.781 | 2.781 | 1 |
| 19 | 2050B19NM | 3.85 | 4.12 | B | 0.5 | 1.969 | 2.984 | 1 |
| 20 | 2050B20NM | 4.045 | 4.32 | B | 0.5 | 2 | 3 | 1 |
| 21 | 2050B21NM | 4.241 | 4.52 | B | 0.5 | 2 | 3 | 1 |
| 22 | 2050B22NM | 4.437 | 4.72 | B | 0.5 | 2 | 3 | 1 |
| 23 | 2050B23NM | 4.633 | 4.92 | B | 0.5 | 2 | 3 | 1 |
| 24 | 2050B24NM | 4.83 | 5.12 | B | 0.5 | 2 | 3 | 1.25 |
| 25 | 2050B25NM | 5.026 | 5.32 | B | 0.5 | 2 | 3 | 1.25 |
| 26 | 2050B26NM | 5.223 | 5.52 | B | 0.5 | 2 | 3 | 1.25 |
| 28 | 2050B28NM | 5.617 | 5.92 | B | 0.5 | 2 | 3 | 1.25 |
| 30 | 2050B30NM | 6.012 | 6.32 | B | 0.5 | 2.25 | 3.25 | 1.25 |

* Recessed groove in hub for chain clearance.

## Conveyor or Drive Series — Carrier Roller
## Double Pitch — 2052/C2052 — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max | Diameter | LTB |
| 8 | 2052B08NM | 3.266 | 3.77 | B | 0.5 | 1.594 | 2.359 | 1 |
| 9 | 2052B09NM | 3.655 | 4.19 | B | 0.5 | 1.781 | 2.781 | 1 |
| 10 | 2052B10NM | 4.045 | 4.6 | B | 0.5 | 2 | 3 | 1 |
| 11 | 2052B11NM | 4.437 | 5.01 | B | 0.5 | 2 | 3 | 1 |
| 12 | 2052B12NM | 4.83 | 5.42 | B | 0.5 | 2 | 3 | 1.25 |
| 13 | 2052B13NM | 5.223 | 5.82 | B | 0.5 | 2 | 3 | 1.25 |
| 14 | 2052B14NM | 5.617 | 6.23 | B | 0.5 | 2 | 3 | 1.25 |
| 15 | 2052B15NM | 6.012 | 6.63 | B | 0.5 | 2.25 | 3.25 | 1.25 |
| 16 | 2052B16NM | 6.407 | 7.03 | B | 0.5 | 2.25 | 3.25 | 1.25 |
| 17 | 2052B17NM | 6.803 | 7.44 | B | 0.5 | 2.25 | 3.25 | 1.25 |
| 18 | 2052B18NM | 7.198 | 7.84 | B | 0.5 | 2.25 | 3.25 | 1.25 |
| 19 | 2052B19NM | 7.595 | 8.24 | B | 0.5 | 2.25 | 3.25 | 1.25 |
| 20 | 2052B20NM | 7.991 | 8.64 | B | 0.5 | 2.25 | 3.25 | 1.25 |
| 21 | 2052B21NM | 8.387 | 9.04 | B | 0.5 | 2.25 | 3.25 | 1.25 |
| 22 | 2052B22NM | 8.783 | 9.44 | B | 0.5 | 2.25 | 3.25 | 1.25 |
| 23 | 2052B23NM | 9.18 | 9.85 | B | 0.5 | 2.75 | 3.75 | 1.25 |
| 24 | 2052B24NM | 9.577 | 10.25 | B | 0.5 | 2.75 | 3.75 | 1.25 |
| 25 | 2052B25NM | 9.973 | 10.65 | B | 0.5 | 2.75 | 3.75 | 1.25 |
| 26 | 2052B26NM | 10.37 | 11.05 | B | 0.5 | 2.75 | 3.75 | 1.25 |
| 28 | 2052B28NM | 11.164 | 11.84 | B | 0.5 | 2.75 | 3.75 | 1.25 |
| 30 | 2052B30NM | 11.958 | 12.64 | B | 0.5 | 2.75 | 3.75 | 1.25 |

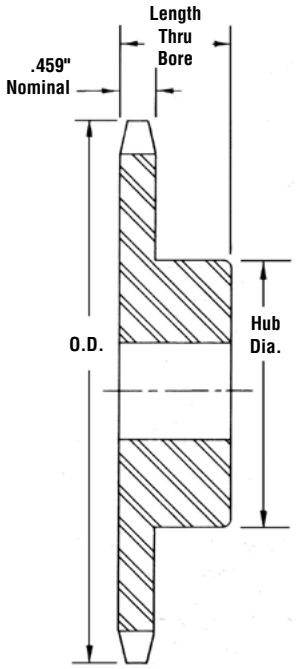
* Recessed groove in hub for chain clearance.

- Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

## 1½-Inch Double-Pitch
## Conveyor or Drive Series — Standard Roller
## Double Pitch — 2060/C2060 — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max | Diameter | LTB |
| 11 | 2060B11NM | 2.773 | 3 | B | 0.5 | 1 | 2.063* | 1.25 |
| 12 | 2060B12NM | 3 | 3.25 | B | 0.5 | 1.25 | 2.375* | 1.25 |
| 13 | 2060B13NM | 3.228 | 3.49 | B | 0.5 | 1.313 | 2.078 | 1.25 |
| 14 | 2060B14NM | 3.457 | 3.74 | B | 0.5 | 1.563 | 2.328 | 1.25 |
| 15 | 2060B15NM | 3.699 | 3.98 | B | 0.5 | 1.75 | 2.594 | 1.25 |
| 16 | 2060B16NM | 3.92 | 4.22 | B | 0.5 | 1.844 | 2.844 | 1.25 |
| 17 | 2060B17NM | 4.152 | 4.46 | B | 0.5 | 2.094 | 3.094 | 1.25 |
| 18 | 2060B18NM | 4.386 | 4.7 | B | 0.5 | 2.281 | 3.344 | 1.25 |
| 19 | 2060B19NM | 4.62 | 4.94 | B | 0.5 | 2.344 | 3.5 | 1.25 |
| 20 | 2060B20NM | 4.854 | 5.19 | B | 0.5 | 2.563 | 3.875 | 1.25 |
| 21 | 2060B21NM | 5.089 | 5.43 | B | 0.5 | 2.75 | 4 | 1.25 |
| 22 | 2060B22NM | 5.324 | 5.67 | B | 0.5 | 2.75 | 4 | 1.25 |
| 23 | 2060B23NM | 5.56 | 5.91 | B | 0.5 | 2.75 | 4 | 1.25 |
| 24 | 2060B24NM | 5.796 | 6.15 | B | 0.5 | 2.75 | 4 | 1.25 |
| 25 | 2060B25NM | 6.032 | 6.39 | B | 0.5 | 2.75 | 4 | 1.25 |
| 26 | 2060B26NM | 6.268 | 6.63 | B | 0.5 | 2.75 | 4 | 1.25 |
| 28 | 2060B28NM | 6.741 | 7.11 | B | 0.5 | 2.75 | 4 | 1.25 |
| 30 | 2060B30NM | 7.215 | 7.59 | B | 0.5 | 2.75 | 4 | 1.25 |

* Recessed groove in hub for chain clearance.




TYPE B

## Conveyor or Drive Series — Carrier Roller
## Double Pitch — 2062/C2062 — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max | Diameter | LTB |
| 8 | 2062B08NM | 3.92 | 4.52 | B | 0.5 | 1.844 | 2.844 | 1.25 |
| 9 | 2062B09NM | 4.386 | 5.02 | B | 0.5 | 2.281 | 3.344 | 1.25 |
| 10 | 2062B10NM | 4.854 | 5.52 | B | 0.5 | 2.563 | 3.828 | 1.25 |
| 11 | 2062B11NM | 5.324 | 6.01 | B | 0.5 | 2.75 | 4 | 1.25 |
| 12 | 2062B12NM | 5.796 | 6.5 | B | 0.5 | 2.75 | 4 | 1.25 |
| 13 | 2062B13NM | 6.268 | 6.99 | B | 0.5 | 2.75 | 4 | 1.25 |
| 14 | 2062B14NM | 6.741 | 7.47 | B | 0.5 | 2.75 | 4 | 1.25 |
| 15 | 2062B15NM | 7.215 | 7.96 | B | 0.5 | 2.25 | 4 | 1.25 |
| 16 | 2062B16NM | 7.689 | 8.44 | B | 0.5 | 2.25 | 4 | 1.25 |
| 17 | 2062B17NM | 8.163 | 8.92 | B | 0.5 | 2.25 | 4 | 1.25 |
| 18 | 2062B18NM | 8.638 | 9.41 | B | 0.5 | 2.25 | 4 | 1.25 |
| 19 | 2062B19NM | 9.113 | 9.89 | B | 0.5 | 2.25 | 4.25 | 1.25 |
| 20 | 2062B20NM | 9.589 | 10.37 | B | 0.5 | 2.25 | 4.25 | 1.25 |
| 21 | 2062B21NM | 10.064 | 10.85 | B | 0.5 | 2.25 | 4.25 | 1.25 |
| 22 | 2062B22NM | 10.54 | 11.33 | B | 0.5 | 2.25 | 4.25 | 1.25 |
| 23 | 2062B23NM | 11.016 | 11.81 | B | 0.5 | 2.75 | 4.25 | 1.25 |
| 24 | 2062B24NM | 11.492 | 12.29 | B | 0.5 | 2.75 | 4.25 | 1.25 |
| 25 | 2062B25NM | 11.968 | 12.77 | B | 0.5 | 2.75 | 4.25 | 1.25 |
| 26 | 2062B26NM | 12.444 | 13.25 | B | 0.5 | 2.75 | 4.25 | 1.75 |
| 28 | 2062B28NM | 13.397 | 14.21 | B | 0.5 | 2.75 | 4.25 | 1.75 |
| 30 | 2062B30NM | 14.35 | 15.17 | B | 0.5 | 2.75 | 4.25 | 1.75 |

* Recessed groove in hub for chain clearance.

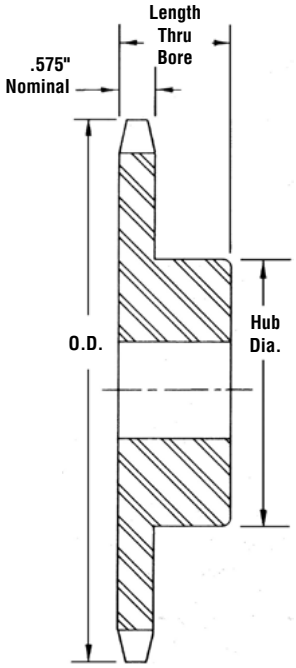
- Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Double Pitch
# Plastic Sprockets

## 2-Inch Double-Pitch
## Conveyor or Drive Series — Standard Roller
## Double Pitch — 2080/C2080 — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max | Diameter | LTB |
| 11 | 2080B11NM | 3.694 | 4.01 | B | 0.5 | 1.5 | 2.813* | 1.625 |
| 12 | 2080B12NM | 4 | 4.33 | B | 0.5 | 1.688 | 3.125* | 1.625 |
| 13 | 2080B13NM | 4.304 | 4.66 | B | 0.5 | 1.781 | 2.75 | 1.5 |
| 14 | 2080B14NM | 4.61 | 4.98 | B | 0.5 | 2.125 | 3.125 | 1.5 |
| 15 | 2080B15NM | 4.917 | 5.3 | B | 0.5 | 2.281 | 3.438 | 1.5 |
| 16 | 2080B16NM | 5.226 | 5.63 | B | 0.5 | 2.531 | 3.75 | 1.5 |
| 17 | 2080B17NM | 5.53 | 5.95 | B | 0.5 | 2.75 | 4 | 1.5 |
| 18 | 2080B18NM | 5.848 | 6.27 | B | 0.5 | 2.75 | 4.25 | 1.5 |
| 19 | 2080B19NM | 6.16 | 6.59 | B | 0.5 | 2.75 | 4.25 | 1.5 |
| 20 | 2080B20NM | 6.472 | 6.91 | B | 0.5 | 2.75 | 4.25 | 1.5 |
| 21 | 2080B21NM | 6.785 | 7.23 | B | 0.5 | 2.75 | 4.25 | 1.5 |
| 22 | 2080B22NM | 7.099 | 7.56 | B | 0.5 | 2.75 | 4.25 | 1.75 |
| 23 | 2080B23NM | 7.413 | 7.88 | B | 0.5 | 2.75 | 4.25 | 1.75 |
| 24 | 2080B24NM | 7.727 | 8.2 | B | 0.5 | 2.75 | 4.25 | 1.75 |
| 25 | 2080B25NM | 8.042 | 8.52 | B | 0.5 | 2.75 | 4.25 | 1.75 |
| 26 | 2080B26NM | 8.357 | 8.84 | B | 0.5 | 3.25 | 4.75 | 2 |
| 28 | 2080B28NM | 8.988 | 9.48 | B | 0.5 | 3.25 | 4.75 | 2 |
| 30 | 2080B30NM | 9.62 | 10.11 | B | 0.5 | 3.25 | 4.75 | 2 |

* Recessed groove in hub for chain clearance.




TYPE B

## Conveyor or Drive Series — Carrier Roller
## Double Pitch — 2082/C2082 — Nylon

| Number of Teeth | Catalog Number | Diameter | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max | Diameter | LTB |
| 8 | 2082B08NM | 5.226 | 6.03 | B | 0.5 | 2.531 | 3.75 | 1.75 |
| 9 | 2082B09NM | 5.848 | 6.7 | B | 0.5 | 2.75 | 4.25 | 1.75 |
| 10 | 2082B10NM | 6.472 | 7.36 | B | 0.5 | 2.75 | 4.25 | 1.75 |
| 11 | 2082B11NM | 7.099 | 8.01 | B | 0.5 | 2.75 | 4.25 | 1.75 |
| 12 | 2082B12NM | 7.727 | 8.66 | B | 0.5 | 2.75 | 4.25 | 1.75 |
| 13 | 2082B13NM | 8.357 | 9.31 | B | 0.5 | 2.75 | 4.75 | 2 |
| 14 | 2082B14NM | 8.988 | 9.96 | B | 0.5 | 2.75 | 4.75 | 2 |
| 15 | 2082B15NM | 9.62 | 10.61 | B | 0.5 | 2.75 | 4.75 | 2 |
| 16 | 2082B16NM | 10.252 | 11.25 | B | 0.5 | 2.75 | 4.75 | 2 |
| 17 | 2082B17NM | 10.885 | 11.9 | B | 0.5 | 2.75 | 4.75 | 2 |
| 18 | 2082B18NM | 11.518 | 12.54 | B | 0.5 | 2.75 | 4.75 | 2 |
| 19 | 2082B19NM | 12.151 | 13.19 | B | 0.5 | 2.75 | 4.75 | 2 |
| 20 | 2082B20NM | 12.785 | 13.83 | B | 0.5 | 2.75 | 4.75 | 2 |
| 21 | 2082B21NM | 13.419 | 14.47 | B | 0.5 | 2.75 | 4.75 | 2 |
| 22 | 2082B22NM | 14.053 | 15.11 | B | 0.5 | 2.75 | 4.75 | 2 |
| 23 | 2082B23NM | 14.688 | 15.75 | B | 0.5 | 2.75 | 4.75 | 2 |
| 24 | 2082B24NM | 15.323 | 16.39 | B | 0.5 | 2.75 | 4.75 | 2 |
| 25 | 2082B25NM | 15.958 | 17.03 | B | 0.5 | 2.75 | 4.75 | 2 |
| 26 | 2082B26NM | 16.593 | 17.67 | B | 0.5 | 3.5 | 5.25 | 2 |
| 28 | 2082B28NM | 17.863 | 18.95 | B | 0.5 | 3.5 | 5.25 | 2 |
| 30 | 2082B30NM | 19.134 | 20.23 | B | 0.5 | 3.5 | 5.25 | 2 |

* Recessed groove in hub for chain clearance.

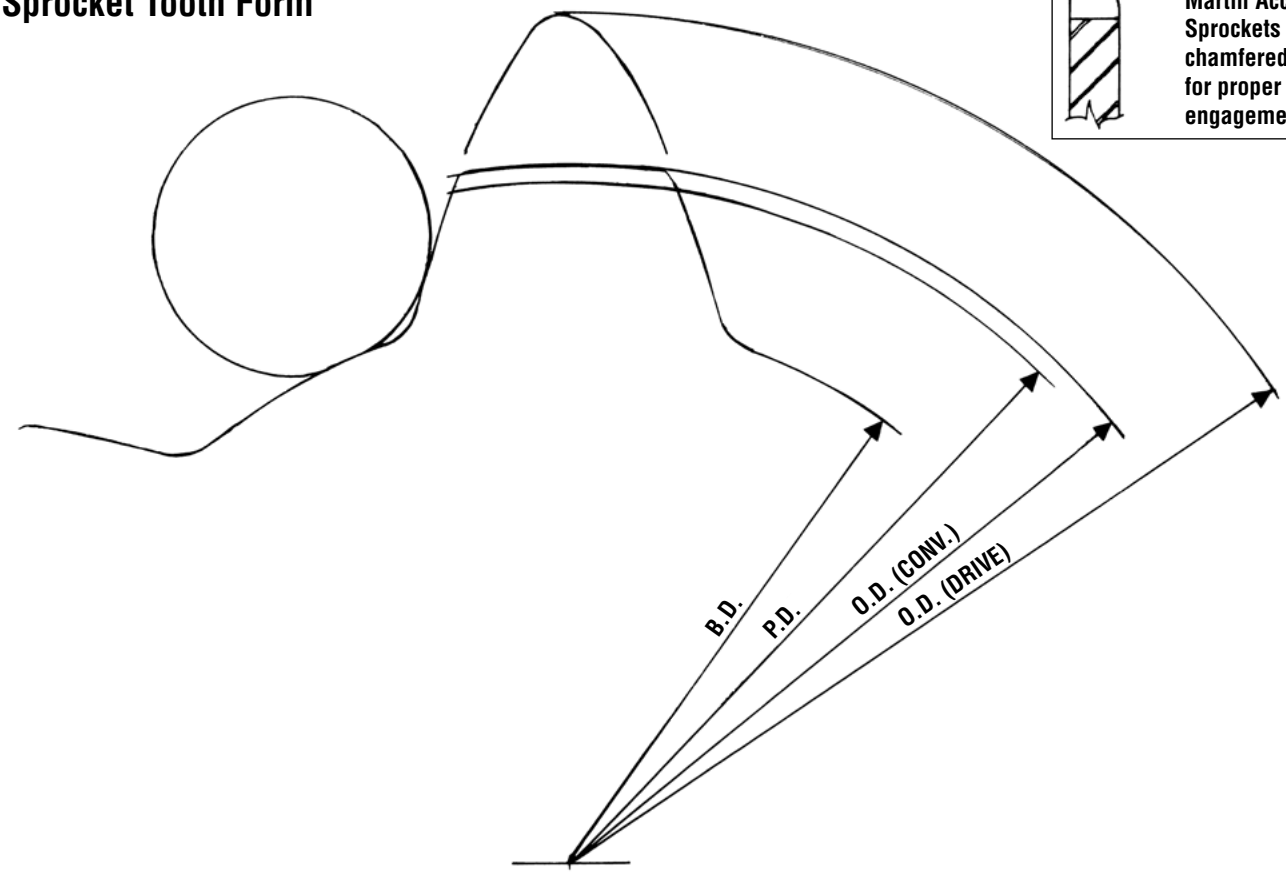
- Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

# Mill Duty Plastic Sprockets

Conveyor Style Tooth for Chains:
78 — 82 — 124 — 132

Driver Style Tooth for Chains:
55 — 1030

## Typical "Drive" & "Conveyor" Sprocket Tooth Form



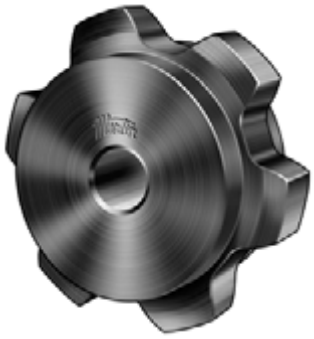
NOTE: All Martin Accu-Torch Sprockets have chamfered teeth for proper chain engagement.

**Mill Duty Sprockets are not intended to replace cut tooth roller chain sprockets.**

# Mill Duty
# Plastic Sprockets

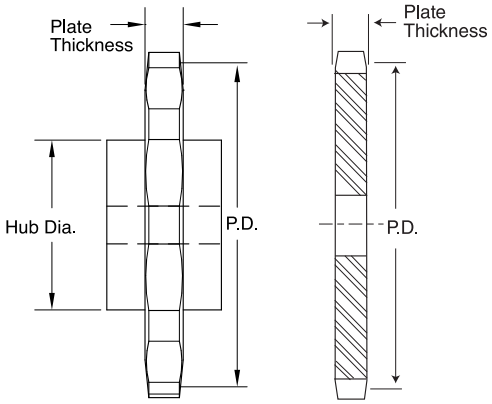
Mill duty (also known as agricultural chain or AG Chain) sprockets are machined from UHMW. These non-metallic sprockets are lighter in weight than standard steel sprockets. Non-metallic sprockets are also corrosion resistant, require little or no lubrication, and are generally more durable than traditional steel sprockets.

Martin offers mill duty sprockets in all popular sizes as well as custom made-to-order sprockets. Standard sizes include 55 series, 78 series, 82 series, and 132 series. Sprockets can be manufactured in A, B, C. & D styles, as well as split and special sprockets styles.



## Sprockets Available to fit Standard Chain Sizes

| | | | | | |
|---|---|---|---|---|---|
| 25 | 95R | WD-120 | 458 | CS730 | D963R |
| 32 | 102B | H121 | 468 | 823 | E963R |
| 42 | H102 | SD121 | WD-480 | 825 | F963R |
| 45 | 102.5 | WD-122 | 483 | 830 | 998 |
| S51 | 103 | WD-123 | 520 | 844 | 1030 |
| 51 | H104 | WD-124 | 531 | 856 | 1036 |
| 52 | W-106 | 130 | 625R | 859 | 1113 |
| 55 | S-110 | 132 | 667 | F912R | 1120 |
| D60 | WD-110 | 183 | 678 | E922 | 1131 |
| 62 | 111SP | 188 | 698 | F922 | F1222 |
| 67 | 111 | 194 | CS720S | 925R | 2124 |
| 78 | WD-112 | 196 | 720S | 933 | 2180 |
| W-78 | WD-116 | 197 | 730 | 951 | 4850 |
| 94R | WD-119 | 348 | A730 | B963R | 9250 |



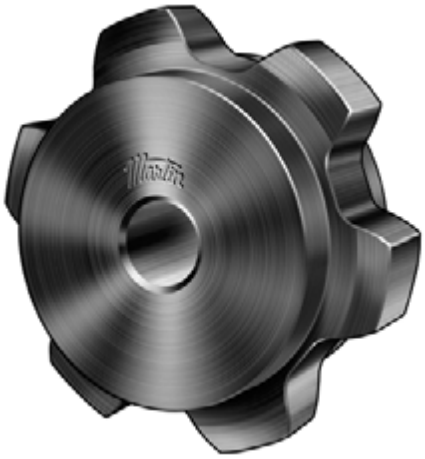

**TYPE C** **TYPE A**

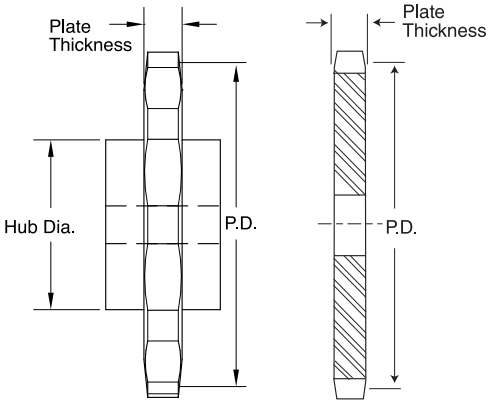
**55** **SERIES PLASTIC SPROCKETS FOR CHAINS:**
C55, CA550, CA555, 55, 16D

**Type C — 1.631" Pitch** **PLATE THICKNESS 0.625"** **ROLLER DIAMETER 0.7187"** **Type A**

| Number of Teeth | Catalog Number | Pitch Diameter | Type | Stock Bore | Max. Bore | Hub Diameter | LTB | Catalog Number | Type | Stock Bore |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 55C6NM | 3.26 | C | 0.5 | 1 | 1.75 | 1.75 | 55A6NM | A | 0.5 |
| 7 | 55C7NM | 3.76 | C | 0.5 | 1 | 2 | 1.75 | 55A7NM | A | 0.5 |
| 8 | 55C8NM | 4.26 | C | 0.5 | 1.25 | 2.75 | 2 | 55A8NM | A | 0.5 |
| 9 | 55C9NM | 4.77 | C | 0.5 | 1.5 | 3 | 2.625 | 55A9NM | A | 0.5 |
| 10 | 55C10NM | 5.28 | C | 0.5 | 2 | 3.5 | 2 | 55A10NM | A | 0.5 |
| 11 | 55C11NM | 5.79 | C | 1 | 2.5 | 4 | 2.625 | 55A11NM | A | 1 |
| 12 | 55C12NM | 6.3 | C | 1 | 2.5 | 4 | 2.688 | 55A12NM | A | 1 |
| 13 | 55C13NM | 6.82 | C | 1 | 2.5 | 4 | 2.688 | 55A13NM | A | 1 |
| 14 | 55C14NM | 7.33 | C | 1 | 2.5 | 4 | 2.625 | 55A14NM | A | 1 |
| 15 | 55C15NM | 7.84 | C | 1 | 2.5 | 4 | 2.625 | 55A15NM | A | 1 |
| 16 | 55C16NM | 8.36 | C | 1 | 2.5 | 4 | 2.625 | 55A16NM | A | 1 |
| 17 | 55C17NM | 8.88 | C | 1 | 3 | 4.5 | 2.625 | 55A17NM | A | 1 |
| 18 | 55C18NM | 9.39 | C | 1 | 3 | 4.5 | 2.625 | 55A18NM | A | 1 |
| 19 | 55C19NM | 9.9 | C | 1 | 3 | 4.5 | 2.625 | 55A19NM | A | 1 |
| 20 | 55C20NM | 10.43 | C | 1 | 3.5 | 5 | 3.188 | 55A20NM | A | 1 |
| 21 | 55C21NM | 10.94 | C | 1 | 3.5 | 5 | 3.125 | 55A21NM | A | 1 |
| 22 | 55C22NM | 11.43 | C | 1 | 3.5 | 5 | 3.188 | 55A22NM | A | 1 |
| 23 | 55C23NM | 11.97 | C | 1 | 3.5 | 5 | 3.188 | 55A23NM | A | 1 |
| 24 | 55C24NM | 12.5 | C | 1 | 3.5 | 5 | 3.188 | 55A24NM | A | 1 |

# Mill Duty Plastic Sprockets






**TYPE C** **TYPE A**

**78** **SERIES PLASTIC SPROCKETS FOR CHAINS:** 78, H74, 75, H75, H78, H78LR, (14, 18 TEETH ONLY), H78RT, H78SR, H79, 88, 188, S188, S78, R588, RR588, R778, RR778, 988, IS880, 87R, IS881, 81X, IS882, 433½, LXS881, LXS886, US881, LXS887, LXS882, 488, XS578, SS188, C188, US278R, US882, 578R, 588R

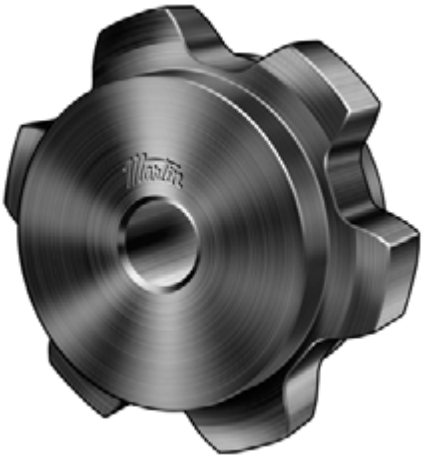
## Type C — 2.609" Pitch

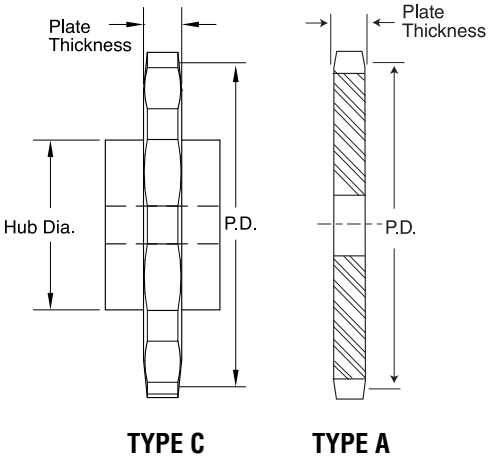
**PLATE THICKNESS 0.875"**
**ROLLER DIAMETER 0.875"**

## Type A

| Number of Teeth | Catalog Number | Pitch Diameter | Type | Stock Bore | Max. Bore | Hub Diameter | LTB | Catalog Number | Type | Stock Bore |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 78C6NM | 5.22 | C | 0.750 | 1.250 | 3.400 | 2.000 | 78A6NM | A | 0.5 |
| 7 | 78C7NM | 6.01 | C | 0.750 | 1.250 | 3.500 | 2.000 | 78A7NM | A | 0.5 |
| 8 | 78C8NM | 6.82 | C | 0.750 | 2.000 | 4.750 | 4.000 | 78A8NM | A | 0.5 |
| 9 | 78C9NM | 7.63 | C | 0.755 | 2.000 | 5.250 | 4.000 | 78A9NM | A | 0.5 |
| 10 | 78C10NM | 8.44 | C | 0.755 | 2.500 | 5.250 | 4.000 | 78A10NM | A | 0.5 |
| 11 | 78C11NM | 9.26 | C | 0.755 | 2.500 | 5.250 | 4.000 | 78A11NM | A | 0.5 |
| 12 | 78C12NM | 10.08 | C | 0.755 | 3.000 | 5.250 | 4.000 | 78A12NM | A | 0.5 |
| 13 | 78C13NM | 10.9 | C | 0.755 | 3.000 | 5.500 | 4.000 | 78A13NM | A | 0.5 |
| 14 | 78C14NM | 11.72 | C | 0.755 | 3.000 | 5.500 | 4.000 | 78A14NM | A | 0.5 |
| 15 | 78C15NM | 12.55 | C | 0.755 | 3.500 | 5.500 | 3.750 | 78A15NM | A | 0.5 |
| 16 | 78C16NM | 13.37 | C | 1.000 | 3.500 | 5.563 | 3.765 | 78A16NM | A | 0.5 |
| 17 | 78C17NM | 14.2 | C | 1.000 | 3.500 | 6.000 | 3.765 | 78A17NM | A | 0.5 |
| 19 | 78C19NM | 15.85 | C | 1.000 | 3.500 | 6.000 | 3.750 | 78A19NM | A | 0.5 |
| 21 | 78C21NM | 17.51 | C | 1.000 | 3.500 | 6.000 | 3.750 | 78A21NM | A | 0.5 |
| 24 | 78C24NM | 19.99 | C | 1.000 | 3.500 | 7.000 | 3.875 | 78A24NM | A | 0.5 |
| 25 | 78C25NM | 20.82 | C | 1.000 | 4.000 | 7.000 | 3.875 | 78A25NM | A | 0.5 |
| 28 | 78C28NM | 23.3 | C | 1.000 | 4.000 | 7.000 | 3.875 | 78A28NM | A | 0.5 |
| 30 | 78C30NM | 24.96 | C | 1.000 | 4.000 | 9.000 | 3.875 | 78A30NM | A | 0.5 |
| 35 | 78C35NM | 29.11 | C | 1.000 | 5.000 | 9.000 | 4.875 | 78A35NM | A | 0.5 |
| 40 | 78C40NM | 33.25 | C | 1.000 | 5.000 | 9.000 | 3.750 | 78A40NM | A | 0.5 |
| 42 | 78C42NM | 34.91 | C | 1.000 | 5.000 | 9.000 | 4.875 | 78A42NM | A | 0.5 |
| 46 | 78C46NM | 38.23 | C | 1.000 | 5.000 | 9.000 | 3.750 | 78A46NM | A | 0.5 |

# Mill Duty Plastic Sprockets – Split





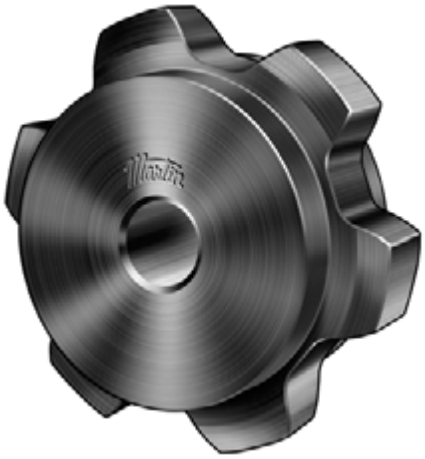

**78** **SERIES PLASTIC SPROCKETS FOR CHAINS:** 78, H74, 75, H75, H78, H78LR, (14, 18 TEETH ONLY), H78RT, H78SR, H79, 88, 188, S188, S78, R588, RR588, R778, RR778, 988, IS880, 87R, IS881, 81X, IS882, 433½, LXS881, LXS886, US881, LXS887, LXS882, 488, XS578, SS188, C188, US278R, US882, 578R, 588R

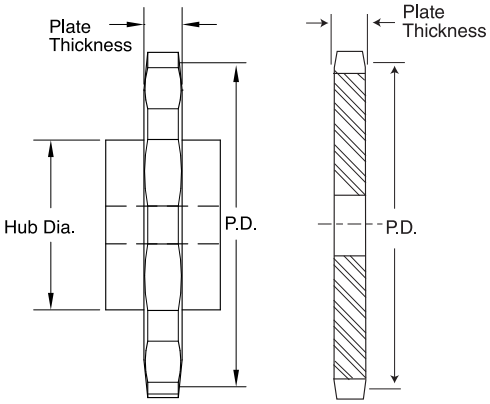
## Type C — 2.609" Pitch

**PLATE THICKNESS 0.875"**
**ROLLER DIAMETER 0.875"**

| Number of Teeth | Catalog Number | Pitch Diameter | Type | Stock Bore | Max. Bore | Hub Diameter | LTB |
|---|---|---|---|---|---|---|---|
| 6 | 78C6NMS | 5.22 | C | 1 | 1.5 | 3.39 | 2.875 |
| 7 | 78C7NMS | 6.01 | C | 1 | 2 | 4 | 2.875 |
| 8 | 78C8NMS | 6.82 | C | 1 | 2 | 4 | 2.875 |
| 9 | 78C9NMS | 7.63 | C | 1 | 2.125 | 5 | 2.875 |
| 10 | 78C10NMS | 8.44 | C | 1 | 2.75 | 5 | 2.875 |
| 11 | 78C11NMS | 9.26 | C | 1 | 2.75 | 5 | 2.875 |
| 12 | 78C12NMS | 10.08 | C | 1 | 2.75 | 5 | 2.875 |
| 13 | 78C13NMS | 10.09 | C | 1 | 2.75 | 5 | 2.875 |
| 14 | 78C14NMS | 11.72 | C | 1 | 2.75 | 5 | 2.875 |
| 15 | 78C15NMS | 12.55 | C | 1 | 2.75 | 5 | 2.875 |
| 16 | 78C16NMS | 13.37 | C | 1 | 4 | 7 | 3.75 |
| 17 | 78C17NMS | 14.2 | C | 1 | 4 | 7 | 3.875 |
| 18 | 78C18NMS | 15.02 | C | 1 | 4 | 7 | 3.875 |
| 19 | 78C19NMS | 15.85 | C | 1 | 4 | 7 | 3.875 |
| 21 | 78C21NMS | 17.51 | C | 1.75 | 4.5 | 8.875 | 3.875 |
| 22 | 78C22NMS | 18.33 | C | 1.75 | 4.5 | 8.875 | 3.875 |
| 24 | 78C24NMS | 19.99 | C | 1.75 | 4.5 | 8.875 | 3.781 |
| 25 | 78C25NMS | 20.82 | C | 1.75 | 4.5 | 8.875 | 3.875 |
| 27 | 78C27NMS | 22.47 | C | 1.75 | 4.5 | 8.875 | 3.875 |
| 28 | 78C28NMS | 23.3 | C | 1.75 | 4.5 | 8.875 | 3.875 |
| 30 | 78C30NMS | 24.96 | C | 1.75 | 4.5 | 8.875 | 3.875 |
| 34 | 78C34NMS | 28.28 | C | 1.75 | 4.5 | 8.875 | 3.875 |
| 40 | 78C40NMS | 33.25 | C | 1.75 | 4.5 | 8.875 | 3.875 |
| 45 | 78C45NMS | 37.4 | C | 1.75 | 6.5 | 12 | 3.875 |

# Mill Duty Plastic Sprockets – Chainsaver





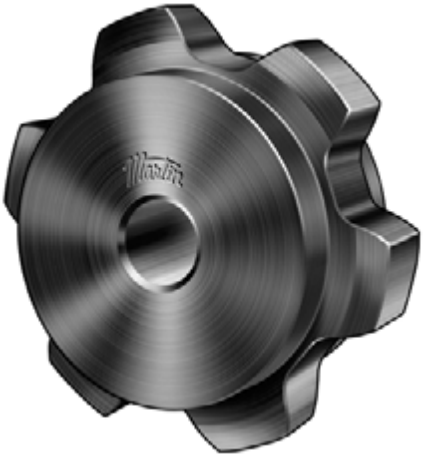

**78** **SERIES PLASTIC SPROCKETS FOR CHAINS:** 78, H74, 75, H75, H78, H78LR, (14, 18 TEETH ONLY), H78RT, H78SR, H79, 88, 188, S188, S78, R588, RR588, R778, RR778, 988, IS880, 87R, IS881, 81X, IS882, 433½, LXS881, LXS886, US881, LXS887, LXS882, 488, XS578, SS188, C188, US278R, US882, 578R, 588R

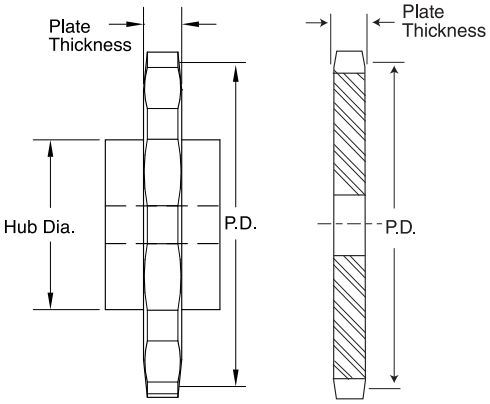
## Type C — 2.609" Pitch

**PLATE THICKNESS 0.875"**
**ROLLER DIAMETER 0.875"**

| Number of Teeth | Catalog Number | Pitch Diameter | Type | Stock Bore | Max. Bore | Hub Diameter | LTB |
|---|---|---|---|---|---|---|---|
| 4 | 78CS4NM | 3.69 | C | 0.5 | 0.75 | 1.48 | 2 |
| 5 | 78CS5NM | 4.44 | C | 0.75 | 1 | 2.46 | 2 |
| 6 | 78CS6NM | 5.22 | C | 0.75 | 1.25 | 3.39 | 2 |
| 7 | 78CS7NM | 6.01 | C | 0.75 | 1.75 | 4.29 | 2 |
| 8 | 78CS8NM | 6.82 | C | 0.75 | 2.5 | 5.17 | 2 |
| 9 | 78CS9NM | 7.63 | C | 0.75 | 3 | 6.04 | 2 |

# Mill Duty
# Plastic Sprockets






**TYPE C** **TYPE A**

**82** **SERIES PLASTIC SPROCKETS FOR CHAINS:**
H82, 131, 527R, 4103, WH82, S131, 527RX, C131, WR82, WS62, C9103, 382, 103 —SS131 —6131

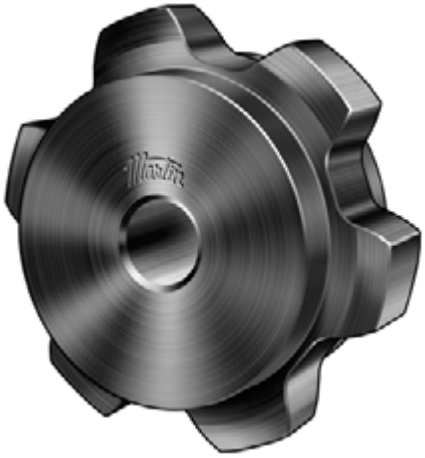
## Type C — 3.075" Pitch

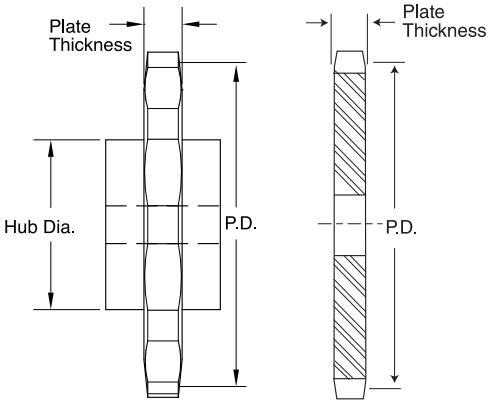
**PLATE THICKNESS 1"**
**ROLLER DIAMETER 1.2187"**

## Type A

| Number of Teeth | Catalog Number | Pitch Diameter | Type | Stock Bore | Max. Bore | Hub Diameter | LTB | Catalog Number | Type | Stock Bore |
|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 82C7NM | 7.09 | C | 1 | 2.5 | 4 | 3.75 | 82A7NM | A | 1 |
| 8 | 82C8NM | 8.04 | C | 1 | 3 | 4.5 | 3.75 | 82A8NM | A | 1 |
| 9 | 82C9NM | 8.99 | C | 1 | 3 | 4.5 | 3.75 | 82A9NM | A | 1 |
| 10 | 82C10NM | 9.95 | C | 1 | 3 | 4.5 | 3.75 | 82A10NM | A | 1 |
| 11 | 82C11NM | 10.91 | C | 1 | 3.5 | 5 | 3.75 | 82A11NM | A | 1 |
| 12 | 82C12NM | 11.88 | C | 1 | 3.5 | 5 | 3.75 | 82A12NM | A | 1 |
| 13 | 82C13NM | 12.85 | C | 1 | 4 | 5 | 3.75 | 82A13NM | A | 1 |
| 14 | 82C14NM | 13.82 | C | 1 | 4 | 5.5 | 3.75 | 82A14NM | A | 1 |
| 15 | 82C15NM | 14.79 | C | 1 | 4 | 6 | 3.75 | 82A15NM | A | 1 |
| 16 | 82C16NM | 15.76 | C | 1 | 4 | 6 | 3.75 | 82A16NM | A | 1 |
| 17 | 82C17NM | 16.73 | C | 1 | 4 | 6 | 3.75 | 82A17NM | A | 1 |
| 18 | 82C18NM | 17.71 | C | 1 | 4 | 6 | 3.75 | 82A18NM | A | 1 |

# Mill Duty Plastic Sprockets






**TYPE C** **TYPE A**

**1030** **SERIES PLASTIC SPROCKETS FOR CHAINS:** 1030, CHAMPIONNO.3, R1033, R1035, 1037, 1539, SS40, LXS1031, API3, LXS1032, SS40Hyp, IS1030, IS1031, IS1032, IS1037, US1031, 1190, SXX, 1190R, US1032

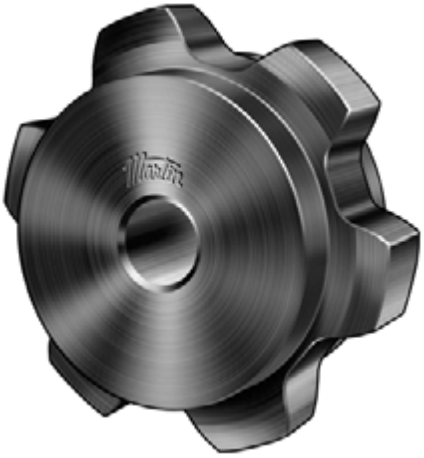
## Type C — 3.075" Pitch

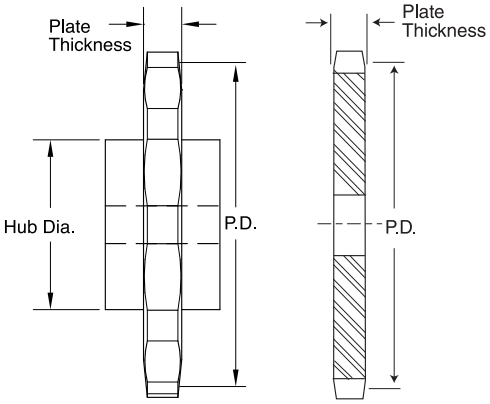
**PLATE THICKNESS 1.25"**
**ROLLER DIAMETER 1.25"**

## Type A

| Number of Teeth | Catalog Number | Pitch Diameter | Type | Stock Bore | Max. Bore | Hub Diameter | LTB | Catalog Number | Type | Stock Bore |
|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 1030C8NM | 8.04 | C | 1 | 3 | 4.5 | 3.75 | 1030A8NM | A | 1 |
| 9 | 1030C9NM | 8.99 | C | 1 | 3 | 4.5 | 3.75 | 1030A9NM | A | 1 |
| 10 | 1030C10NM | 9.95 | C | 1 | 3 | 4.5 | 3.75 | 1030A10NM | A | 1 |
| 11 | 1030C11NM | 10.91 | C | 1 | 3.5 | 5 | 3.75 | 1030A11NM | A | 1 |
| 12 | 1030C12NM | 11.88 | C | 1 | 3.5 | 5 | 3.75 | 1030A12NM | A | 1 |
| 13 | 1030C13NM | 12.85 | C | 1 | 4 | 5.5 | 3.75 | 1030A13NM | A | 1 |
| 15 | 1030C15NM | 14.79 | C | 1 | 4 | 6 | 3.75 | 1030A15NM | A | 1 |
| 17 | 1030C17NM | 16.73 | C | 1 | 4 | 6 | 3.75 | 1030A17NM | A | 1 |
| 19 | 1030C19NM | 18.68 | C | 1 | 4 | 6 | 3.75 | 1030A19NM | A | 1 |
| 21 | 1030C21NM | 20.63 | C | 1 | 5 | 7 | 3.75 | 1030A21NM | A | 1 |
| 24 | 1030C24NM | 23.56 | C | 1 | 5 | 7 | 3.75 | 1030A24NM | A | 1 |
| 25 | 1030C25NM | 24.53 | C | 1 | 5 | 7 | 3.75 | 1030A25NM | A | 1 |
| 28 | 1030C28NM | 27.46 | C | 1 | 6 | 8 | 3.75 | 1030A28NM | A | 1 |
| 30 | 1030C30NM | 29.42 | C | 1 | 6 | 8 | 3.75 | 1030A30NM | A | 1 |
| 35 | 1030C35NM | 34.3 | C | 1 | 6 | 8 | 3.75 | 1030A35NM | A | 1 |
| 40 | 1030C40NM | 39.19 | C | 1 | 6 | 9 | 3.75 | 1030A40NM | A | 1 |

# Mill Duty
# Plastic Sprockets





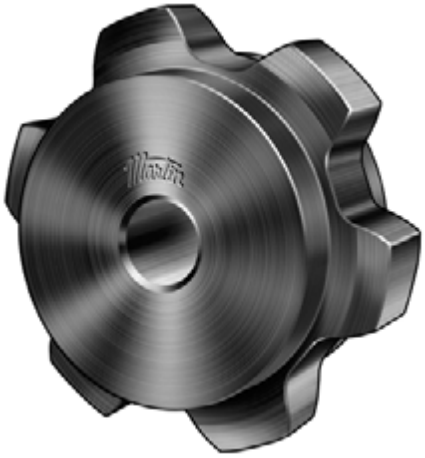

**TYPE C** **TYPE A**

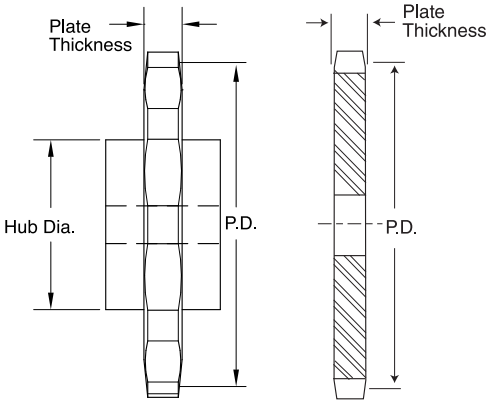
**124** **SERIES PLASTIC SPROCKETS FOR CHAINS:**
H124, W124, WS124, WR124, WH124

**Type C — 4.000" Pitch** **PLATE THICKNESS 1.5"** **ROLLER DIAMETER 1.5"** **Type A**

| Number of Teeth | Catalog Number | Pitch Diameter | Type | Stock Bore | Max. Bore | Hub Diameter | LTB | Catalog Number | Type | Stock Bore |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 124C6NM | 8 | C | 1 | 3 | 4.5 | 3.75 | 124A6NM | A | 1 |
| 7 | 124C7NM | 9.22 | C | 1 | 3 | 5.75 | 4.5 | 124A7NM | A | 1 |
| 8 | 124C8NM | 10.45 | C | 1 | 3.5 | 5 | 4 | 124A8NM | A | 1 |
| 9 | 124C9NM | 11.7 | C | 1 | 3.5 | 5.75 | 4.5 | 124A9NM | A | 1 |
| 10 | 124C10NM | 12.94 | C | 1 | 4 | 5.75 | 4.5 | 124A10NM | A | 1 |
| 11 | 124C11NM | 14.2 | C | 1 | 4 | 6 | 4.5 | 124A11NM | A | 1 |
| 12 | 124C12NM | 15.45 | C | 1 | 4 | 6 | 4.5 | 124A12NM | A | 1 |
| 13 | 124C13NM | 16.71 | C | 1 | 4 | 6 | 4.5 | 124A13NM | A | 1 |
| 14 | 124C14NM | 17.98 | C | 1 | 4 | 7 | 4.5 | 124A14NM | A | 1 |
| 15 | 124C15NM | 19.24 | C | 1 | 4 | 6 | 4.5 | 124A15NM | A | 1 |
| 16 | 124C16NM | 20.5 | C | 1 | 5 | 7 | 4.5 | 124A16NM | A | 1 |

# Mill Duty Plastic Sprockets






**TYPE C** **TYPE A**

**132** **SERIES PLASTIC SPROCKETS FOR CHAINS:** C132, A132, A132WS, WS132, C132M, C132W, SX150, SXA150, 150X, 6150, W157, WH157, WR157

## Type C — 6.050" Pitch

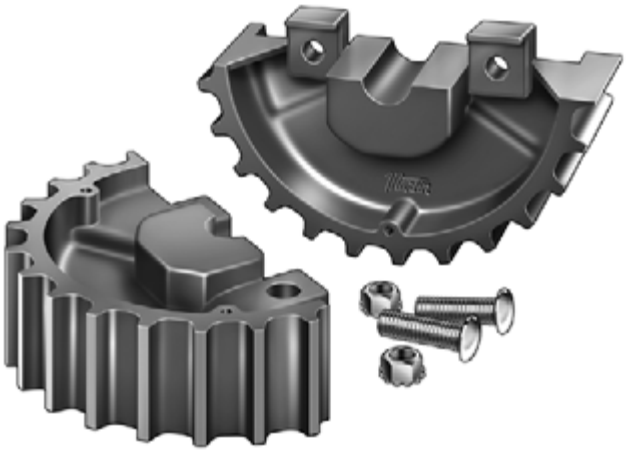
**PLATE THICKNESS 2.75"**
**ROLLER DIAMETER 1.7187"**

## Type A

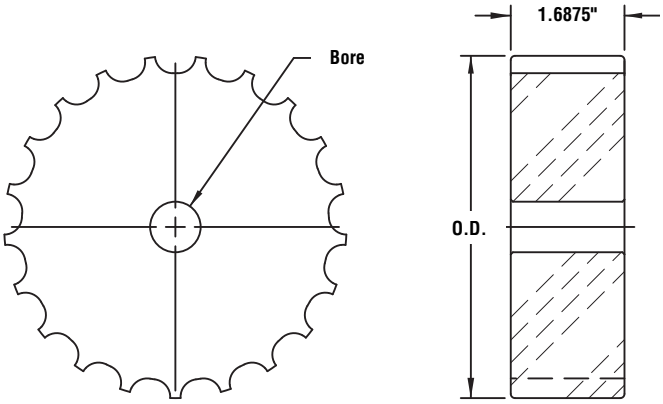
| Number of Teeth | Catalog Number | Pitch Diameter | Type | Stock Bore | Max. Bore | Hub Diameter | LTB | Catalog Number | Type | Stock Bore |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 132C6NM | 12.1 | C | 1 | 3 | 6.5 | 6 | 132A6NM | A | 1 |
| 7 | 132C7NM | 13.94 | C | 1 | 3 | 6.5 | 6 | 132A7NM | A | 1 |
| 8 | 132C8NM | 15.81 | C | 1 | 3 | 7 | 5.75 | 132A8NM | A | 1 |
| 9 | 132C9NM | 17.69 | C | 1 | 3 | 9 | 6.75 | 132A9NM | A | 1 |
| 10 | 132C10NM | 19.58 | C | 1 | 3.75 | 9 | 6.75 | 132A10NM | A | 1 |
| 11 | 132C11NM | 21.47 | C | 1 | 3.75 | 9 | 6.75 | 132A11NM | A | 1 |
| 12 | 132C12NM | 23.38 | C | 1 | 3.75 | 9 | 6.75 | 132A12NM | A | 1 |

# Plastic Flat-Top Conveyor Sprockets

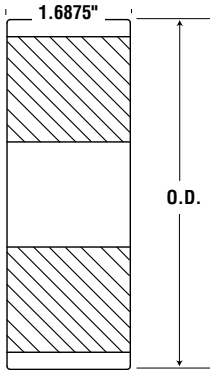
Martin manufacturers flat top conveyor sprockets from USDA / FDA grade UHMW and thermoplastics. These sprockets are completely interchangeable with cast, steel, or other types of plastic sprockets. Martin's non-metallic flat top conveyor sprockets are lightweight, chemical resistant, and require no lubrication. They are designed for use with both steel and plastic chain. Most popular sizes and styles are available. For special applications, Martin offers quick turnaround times on custom orders.



# Plastic Flat-Top Conveyor Sprockets




Series 815 Sprocket




Solid Face

## Series 815 Sprocket — UHMW

| Catalog Number | No. of Teeth | | Pitch Diameter | Outside Diameter | Bore (in) | |
|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Max |
| 815A19NM | 19 | 9.5 | 4.62 | 4.61 | 0.75 | 1.25 |
| 815A20NM | 20 | 10 | 4.854 | 4.86 | 0.75 | 1.25 |
| 815A21NM | 21 | 10.5 | 5.089 | 5.12 | 0.75 | 1.75 |
| 815A22NM | 22 | 11 | 5.324 | 5.35 | 0.75 | 1.75 |
| 815A23NM | 23 | 11.5 | 5.56 | 5.59 | 0.75 | 1.75 |
| 815A24NM | 24 | 12 | 5.796 | 5.83 | 0.75 | 2 |
| 815A25NM | 25 | 12.5 | 6.032 | 6.07 | 0.75 | 2 |
| 815A27NM | 27 | 13.5 | 6.504 | 6.56 | 0.75 | 2 |
| 815A29NM | 29 | 14.5 | 6.978 | 7.05 | 0.75 | 2.5 |
| 815A31NM | 31 | 15.5 | 7.452 | 7.53 | 0.75 | 2.5 |
| 815A41NM | 41 | 20.5 | 9.826 | 9.93 | 0.75 | 2.5 |

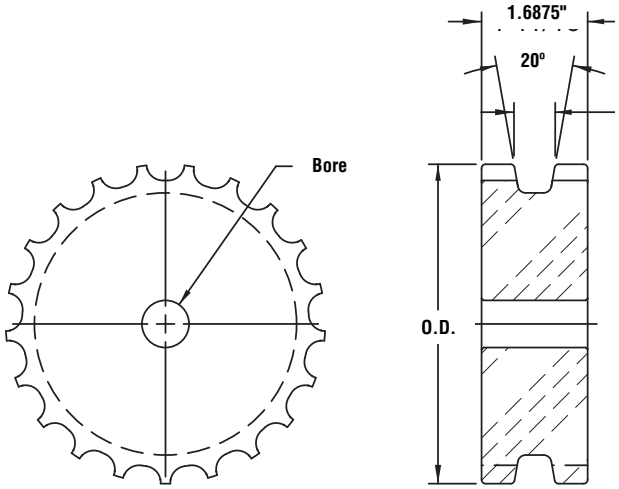
## Series 815 — Split Thermoplastic

| Catalog Number | No. of Teeth | | Pitch Diameter | Outside Diameter | Bore (in) | | Weight |
|---|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Max | |
| QRS815A21P | 21 | 10.5 | 5.089<br>(129.26) | 5.12<br>(130) | 0.75<br>(19.1) | 1.5<br>(38.1) | 0.94<br>(0.43) |
| QRS815A23P | 23 | 11.5 | 5.560<br>(141.22) | 5.59<br>(142) | 0.75<br>(19.1) | 1.5<br>(38.1) | 1<br>(0.45) |
| QRS815A25P | 25 | 12.5 | 6.032<br>(153.21) | 6.07<br>(154.2) | 0.75<br>(19.1) | 1.5<br>(38.1) | 1.1<br>(0.5) |
| QRS815A27P | 27 | 13.5 | 6.504<br>(165.20) | 6.56<br>(166.6) | 0.75<br>(19.1) | 1.5<br>(38.1) | 1.25<br>(0.57) |

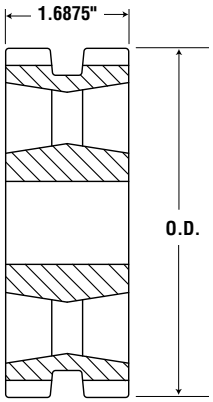
Thermoplastic temperature operating range –20°F to +300°F

• NOTE: Supplied with 5/16-18 plated setscrew @ 90° to split.

# Plastic Flat-Top Conveyor Sprockets




Series 820 Sprocket




Grooved Face

## Series 820 Sprocket — UHMW

| Catalog Number | No. of Teeth | | Pitch Diameter | Outside Diameter | Bore (in) | |
|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Max |
| 820A19NM | 19 | 9.5 | 4.62 | 4.61 | 0.75 | 1.25 |
| 820A20NM | 20 | 10 | 4.854 | 4.86 | 0.75 | 1.25 |
| 820A21NM | 21 | 10.5 | 5.089 | 5.12 | 0.75 | 1.75 |
| 820A22NM | 22 | 11 | 5.324 | 5.35 | 0.75 | 1.75 |
| 820A23NM | 23 | 11.5 | 5.56 | 5.59 | 0.75 | 1.75 |
| 820A24NM | 24 | 12 | 5.796 | 5.83 | 0.75 | 2 |
| 820A25NM | 25 | 12.5 | 6.032 | 6.07 | 0.75 | 2 |
| 820A27NM | 27 | 13.5 | 6.504 | 6.56 | 0.75 | 2 |
| 820A29NM | 29 | 14.5 | 6.978 | 7.05 | 0.75 | 2.5 |
| 820A31NM | 31 | 15.5 | 7.452 | 7.53 | 0.75 | 2.5 |
| 820A41NM | 41 | 20.5 | 9.826 | 9.93 | 0.75 | 2.5 |

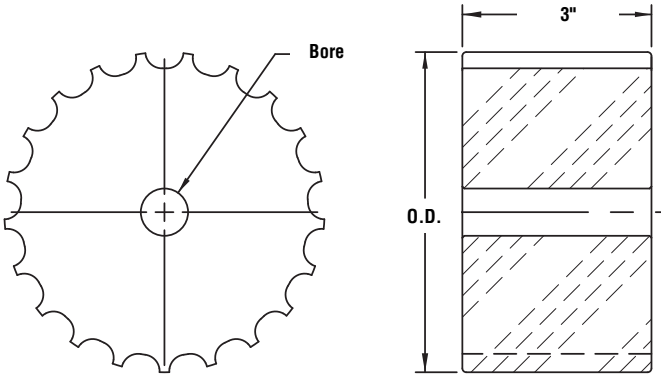
## Series 820 — Split Thermoplastic

| Catalog Number | No. of Teeth | | Pitch Diameter | Outside Diameter | Bore (in) | | Weight |
|---|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Max | |
| QRS820A21P | 21 | 10.5 | 5.089 | 5.12 | 0.75 | 1.5 | .94 |
| | | | (129.26) | (130.0) | (19.1) | (38.1) | (.43) |
| QRS820A23P | 23 | 11.5 | 5.560 | 5.59 | 0.75 | 1.5 | 1.00 |
| | | | (141.22) | (142.0) | (19.1) | (38.1) | (.45) |
| QRS820A25P | 25 | 12.5 | 6.032 | 6.07 | 0.75 | 1.5 | 1.10 |
| | | | (153.21) | (154.2) | (19.1) | (38.1) | (.50) |
| QRS820A27P | 27 | 13.5 | 6.504 | 6.56 | 0.75 | 1.5 | 1.25 |
| | | | (165.20) | (166.6) | (19.1) | (38.1) | (.57) |

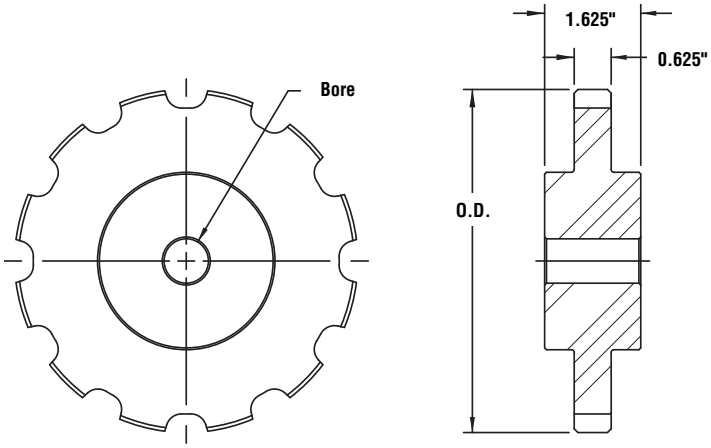
Thermoplastic temperature operating range –20°F to +300°F

• NOTE: Supplied with 5/16-18 plated setscrew @ 90° to split.

# Natural Nylon Sprockets




Series 821 Sprocket




Series 821 Sprocket

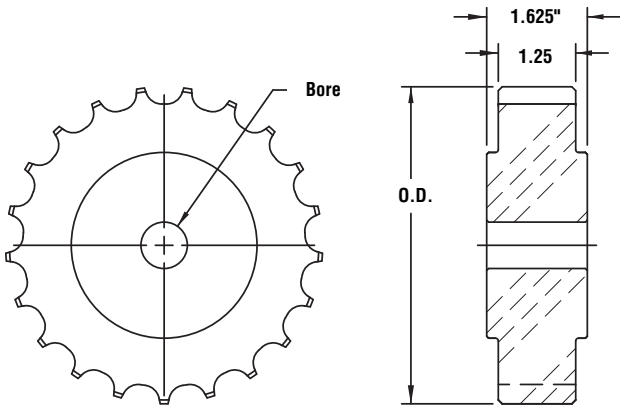
## Series 821 Sprocket — UHMW

| Catalog Number | No. of Teeth | | Pitch Diameter | Outside Diameter | Bore (in) | |
|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Max |
| 821A21NM | 21 | 10.5 | 5.089 | 5.12 | 0.75 | 1.75 |
| 821A23NM | 23 | 11.5 | 5.56 | 5.59 | 0.75 | 1.75 |
| 821A25NM | 25 | 12.5 | 6.032 | 6.07 | 0.75 | 2 |
| 821A27NM | 27 | 13.5 | 6.504 | 6.56 | 0.75 | 2 |
| 821A29NM | 29 | 14.5 | 6.978 | 7.05 | 0.75 | 2.5 |

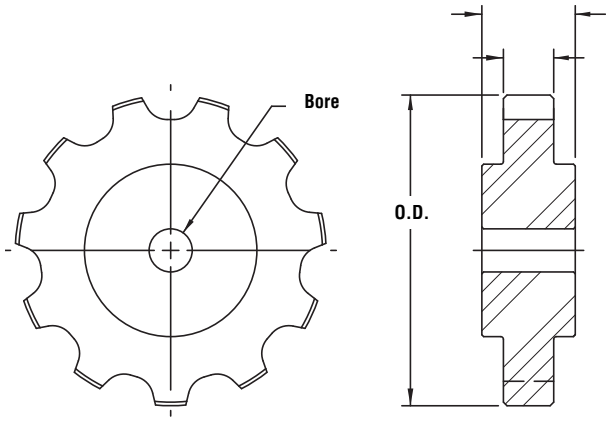
## Series 880 Sprocket — UHMW

| Catalog Number | No. of Teeth | | Pitch Diameter | Outside Diameter | Bore (in) | |
|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Max |
| 880C9NM | 9 | 9 | 4.386 | 4.33 | 0.75 | 1.75 |
| 880C10NM | 10 | 10 | 4.854 | 4.82 | 0.75 | 1.75 |
| 880C11NM | 11 | 11 | 5.325 | 5.31 | 0.75 | 1.75 |
| 880C12NM | 12 | 12 | 5.796 | 5.8 | 0.75 | 1.75 |
| 880C15NM | 15 | 15 | 7.215 | 7.26 | 0.75 | 1.75 |

# Natural Nylon Sprockets




Series 881 Sprocket




Series 882 Sprocket

## Series 881 Sprocket — UHMW

| Catalog Number | No. of Teeth | | Pitch Diameter | Outside Diameter | Bore (in) | |
|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Max |
| 881C21NM | 21 | 10.5 | 5.089 | 5.124 | 0.75 | 1.75 |
| 881C23NM | 23 | 11.5 | 5.56 | 5.59 | 0.75 | 1.75 |
| 881C25NM | 25 | 12.5 | 6.032 | 6.07 | 0.75 | 1.75 |

## Series 882 Sprocket — UHMW

| Catalog Number | No. of Teeth | | Pitch Diameter | Outside Diameter | Bore (in) | |
|---|---|---|---|---|---|---|
| | Actual | Effective | | | Stock | Max |
| 882C9NM | 9 | 9 | 4.386 | 4.43 | 0.75 | 1.75 |
| 882C10NM | 10 | 10 | 4.854 | 4.92 | 0.75 | 1.75 |
| 882C11NM | 11 | 11 | 5.325 | 5.41 | 0.75 | 1.75 |
| 882C12NM | 12 | 12 | 5.796 | 5.9 | 0.75 | 1.75 |
| 882C15NM* | 15 | 15 | 7.215 | 7.36 | 0.75 | 1.75 |

# Plastic Gears Introduction

Martin offers "B" style nylon spur gears. Other styles and materials are available as made-to-order. Spur gears are available with stock bore, idler bore, or finished bore with keyway and setscrews. Standard material of construction is UHMW, nylon and acetal. Gear rack is supplied in nominal 48" lengths, however other lengths can be supplied upon request.

Plastic gears have been used successfully without lubrication in many of todays open gear applications. Many will work lubrication free in demanding applications where steel gears will rust or require continuous maintenance.

One key issue in selecting a plastic gear is proper sizing. Plastics have different properties than metals and are sensitive to changing operating conditions. In addition to load data, attention to drive geometry, environmental and operating conditions and plastic material properties is critical.

Martin's dedicated sales staff has the experience and knowledge to help you identify and specify the proper gear for your application.

**Benefits of Plastic:**

- Cost effective
- Noise reduction
- Ability to absorb shock and vibration
- Relatively low coefficient of friction
- Corrosion resistance - elimination of plating, or protective coatings
- Tolerances often less critical than metal due to greater resilience

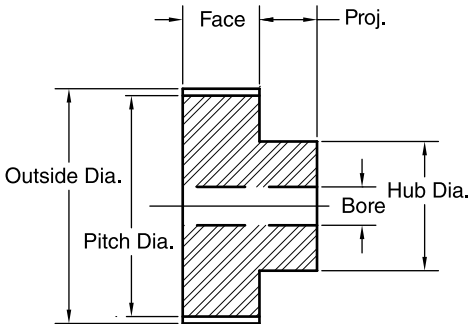
# 4 DP
## 2" Face

# Nylon Stock Spur Gears
**14½°Pressure Angle**

Martin

Our spur gears are machined from solid plates of material, resulting in a spur gear that you can count on to get the job done.

- Standard material: natural oil-filled nylon
- Other numbers of teeth and hub styles available
- Available as finished bore with keyway and set screws



## Natural Oil-Filled Nylon Spur Gears

| Number of Teeth | Catalog Number | 4DP | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max.* | Diameter | Project |
| 11 | NM411 | 3 | 3.5 | B | 0.75 | 1.25 | 2.25 | 0.875 |
| 12 | NM412 | 3 | 3.5 | B | 0.75 | 1.25 | 2.25 | 0.875 |
| 13 | NM413 | 3.25 | 3.75 | B | 0.75 | 1.25 | 2.25 | 0.875 |
| 14 | NM414 | 3.5 | 4 | B | 0.75 | 1.625 | 2.75 | 0.875 |
| 15 | NM415 | 3.75 | 4.25 | B | 0.75 | 1.75 | 3 | 0.875 |
| 16 | NM416 | 4 | 4.5 | B | 0.75 | 1.75 | 3.25 | 0.875 |
| 17 | NM417 | 4.25 | 4.75 | B | 0.75 | 2 | 3.5 | 0.875 |
| 18 | NM418 | 4.5 | 5 | B | 0.75 | 2 | 3.5 | 0.875 |
| 19 | NM419 | 4.75 | 5.25 | B | 0.75 | 2 | 3.5 | 0.875 |
| 20 | NM420 | 5 | 5.5 | B | 0.75 | 2.125 | 3.75 | 0.875 |
| 21 | NM421 | 5.25 | 5.75 | B | 0.75 | 2.375 | 4 | 0.875 |
| 22 | NM422 | 5.5 | 6 | B | 0.75 | 2.625 | 4.5 | 0.875 |
| 24 | NM424 | 6 | 6.5 | B | 0.75 | 2.875 | 4.5 | 1.5 |
| 26 | NM426 | 6.5 | 7 | B | 0.75 | 2.875 | 4.5 | 1.5 |
| 28 | NM428 | 7 | 7.5 | B | 0.75 | 2.875 | 4.5 | 1.5 |
| 30 | NM430 | 7.5 | 8 | B | 0.75 | 2.875 | 4.5 | 1.5 |
| 32 | NM432 | 8 | 8.5 | B | 0.75 | 2.875 | 4.5 | 1.5 |
| 36 | NM436 | 9 | 9.5 | B | 0.75 | 2.875 | 4.5 | 1.5 |
| 40 | NM440 | 10 | 10.5 | B | 0.75 | 3.375 | 5.125 | 1.5 |
| 42 | NM442 | 10.5 | 11 | B | 0.75 | 3.375 | 5.125 | 1.5 |
| 44 | NM444 | 11 | 11.5 | B | 0.75 | 3.375 | 5.125 | 1.5 |
| 48 | NM448 | 12 | 12.5 | B | 0.75 | 3.375 | 5.125 | 1.5 |
| 54 | NM454 | 13.5 | 14 | B | 0.75 | 3.375 | 5 | 1.5 |
| 56 | NM456 | 14 | 14.5 | B | 0.75 | 3.375 | 5 | 1.5 |
| 60 | NM460 | 15 | 15.5 | B | 0.75 | 3.375 | 5 | 1.5 |
| 64 | NM464 | 16 | 16.5 | B | 0.75 | 3.375 | 5 | 1.5 |
| 72 | NM472 | 18 | 18.5 | B | 0.75 | 3.375 | 5.5 | 1.5 |
| 80 | NM480 | 20 | 20.5 | B | 0.75 | 3.375 | 5.5 | 1.5 |
| 84 | NM484 | 21 | 21.5 | B | 0.75 | 3.375 | 5.5 | 1.5 |
| 88 | NM488 | 22 | 22.5 | B | 0.75 | 3.375 | 6.125 | 1.5 |
| 96 | NM496 | 24 | 24.5 | B | 0.75 | 3.375 | 6.125 | 1.5 |

* Recommended Maximum Bore With Keyway and Setscrew.

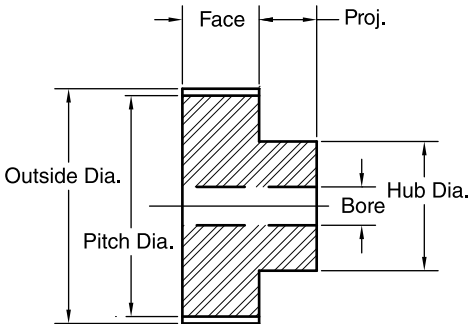
**14½° P.A. Gears Will Not Operate With 20° P.A.**

# Nylon Stock Spur Gears

**14½°Pressure Angle**

# 5 DP

## 1¾" Face



## Natural Oil-Filled Nylon Spur Gears

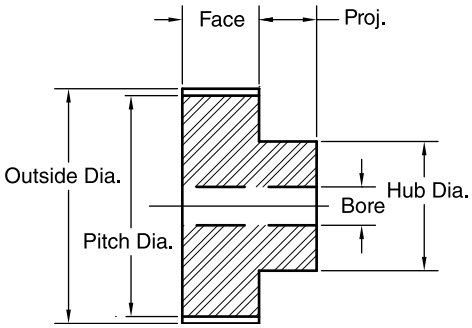
| Number of Teeth | Catalog Number | 4DP | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max.* | Diameter | Project |
| 11 | NM511 | 2.4 | 2.8 | B | 0.75 | 1 | 1.781 | 0.875 |
| 12 | NM512 | 2.4 | 2.8 | B | 0.75 | 1 | 1.781 | 0.875 |
| 13 | NM513 | 2.6 | 3 | B | 0.75 | 1 | 2 | 0.875 |
| 14 | NM514 | 2.8 | 3.2 | B | 0.75 | 1 | 2.188 | 0.875 |
| 15 | NM515 | 3 | 3.4 | B | 0.75 | 1 | 2.375 | 0.875 |
| 16 | NM516 | 3.2 | 3.6 | B | 0.75 | 1 | 2.594 | 0.875 |
| 17 | NM517 | 3.4 | 3.8 | B | 0.75 | 1.5 | 2.875 | 0.875 |
| 18 | NM518 | 3.6 | 4 | B | 0.75 | 1.75 | 3 | 0.875 |
| 19 | NM519 | 3.8 | 4.2 | B | 0.75 | 2 | 3.25 | 0.875 |
| 20 | NM520 | 4 | 4.4 | B | 0.75 | 2 | 3.375 | 0.875 |
| 21 | NM521 | 4.2 | 4.6 | B | 0.75 | 2 | 3.375 | 0.875 |
| 22 | NM522 | 4.4 | 4.8 | B | 0.75 | 2 | 3.375 | 0.875 |
| 23 | NM523 | 4.6 | 5 | B | 0.75 | 2 | 3.375 | 0.875 |
| 24 | NM524 | 4.8 | 5.2 | B | 0.75 | 2 | 3.75 | 0.875 |
| 25 | NM525 | 5 | 5.4 | B | 0.75 | 2 | 3.75 | 0.875 |
| 26 | NM526 | 5.2 | 5.6 | B | 0.75 | 2 | 3.75 | 0.875 |
| 28 | NM528 | 5.6 | 6 | B | 0.75 | 2 | 3.75 | 0.875 |
| 30 | NM530 | 6 | 6.4 | B | 0.75 | 2 | 3.75 | 0.875 |
| 35 | NM535 | 7 | 7.4 | B | 0.75 | 2.5 | 3.75 | 1.25 |
| 40 | NM540 | 8 | 8.4 | B | 0.75 | 2.5 | 3.75 | 1.25 |
| 45 | NM545 | 9 | 9.4 | B | 0.75 | 2.5 | 3.75 | 1.25 |
| 50 | NM550 | 10 | 10.4 | B | 0.75 | 2.5 | 3.75 | 1.25 |
| 55 | NM555 | 11 | 11.4 | B | 0.75 | 3 | 3.75 | 1.25 |
| 60 | NM460 | 12 | 12.4 | B | 0.75 | 3 | 3.75 | 1.25 |
| 70 | NM570 | 14 | 14.4 | B | 0.75 | 3 | 5 | 1.5 |
| 80 | NM580 | 16 | 16.4 | B | 0.75 | 3 | 5 | 1.5 |
| 90 | NM590 | 18 | 18.4 | B | 0.75 | 3.5 | 5 | 1.5 |

* Recommended Maximum Bore With Keyway and Setscrew.

**14½° P.A. Gears Will Not Operate With 20° P.A.**

# 6 DP
## 1½" Face

# Nylon Stock Spur Gears
**14½°Pressure Angle**



## Natural Oil-Filled Nylon Spur Gears

| Number of Teeth | Catalog Number | 4DP | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max.* | Diameter | Project |
| 11 | NM611 | 2 | 2.333 | B | 0.5 | 0.75 | 1.5 | 0.875 |
| 12 | NM612 | 2 | 2.333 | B | 0.5 | 0.75 | 1.5 | 0.875 |
| 14 | NM614 | 2.333 | 2.666 | B | 0.5 | 0.875 | 1.813 | 0.875 |
| 15 | NM615 | 2.5 | 2.833 | B | 0.75 | 1.125 | 2 | 0.875 |
| 16 | NM616 | 2.666 | 3 | B | 0.75 | 1.25 | 2.156 | 0.875 |
| 18 | NM618 | 3 | 3.333 | B | 0.75 | 1.375 | 2.5 | 0.875 |
| 20 | NM620 | 3.333 | 3.666 | B | 0.75 | 1.625 | 2.844 | 0.875 |
| 21 | NM621 | 3.5 | 3.833 | B | 0.75 | 1.75 | 3 | 0.875 |
| 22 | NM622 | 3.666 | 4 | B | 0.75 | 1.75 | 3 | 0.875 |
| 24 | NM624 | 4 | 4.333 | B | 0.75 | 1.75 | 3 | 1 |
| 27 | NM627 | 4.5 | 4.833 | B | 0.75 | 1.75 | 3 | 1 |
| 28 | NM628 | 4.666 | 5 | B | 0.75 | 1.75 | 3 | 1 |
| 30 | NM630 | 5 | 5.333 | B | 0.75 | 1.75 | 3.125 | 1 |
| 32 | NM632 | 5.333 | 5.666 | B | 0.75 | 1.75 | 3.125 | 1 |
| 33 | NM633 | 5.5 | 5.833 | B | 0.75 | 1.75 | 3.25 | 1 |
| 36 | NM636 | 6 | 6.333 | B | 0.75 | 2.375 | 4 | 1 |
| 39 | NM639 | 6.5 | 6.833 | B | 0.75 | 2.375 | 4 | 1 |
| 40 | NM640 | 6.666 | 7 | B | 0.75 | 2.375 | 4 | 1 |
| 42 | NM642 | 7 | 7.333 | B | 0.75 | 2.375 | 4 | 1 |
| 45 | NM645 | 7.5 | 7.833 | B | 0.75 | 2.375 | 4 | 1 |
| 48 | NM648 | 8 | 8.333 | B | 0.75 | 2.5 | 4.125 | 1 |
| 52 | NM652 | 8.666 | 9 | B | 0.75 | 2.625 | 4.25 | 1 |
| 54 | NM654 | 9 | 9.333 | B | 0.75 | 2.75 | 4.375 | 1 |
| 58 | NM658 | 9.666 | 10 | B | 0.75 | 2.75 | 4.375 | 1 |
| 60 | NM660 | 10 | 10.333 | B | 0.75 | 2.75 | 4.375 | 1.25 |
| 64 | NM664 | 10.666 | 11 | B | 0.75 | 2.75 | 4.375 | 1.25 |
| 66 | NM666 | 11 | 11.333 | B | 0.75 | 2.75 | 4.375 | 1.25 |
| 72 | NM672 | 12 | 12.333 | B | 0.75 | 2.75 | 4.375 | 1.25 |
| 84 | NM684 | 14 | 14.333 | B | 0.75 | 2.875 | 4.5 | 1.25 |
| 96 | NM696 | 16 | 16.333 | B | 0.75 | 3.375 | 5.125 | 1.25 |

* Recommended Maximum Bore With Keyway and Setscrew.

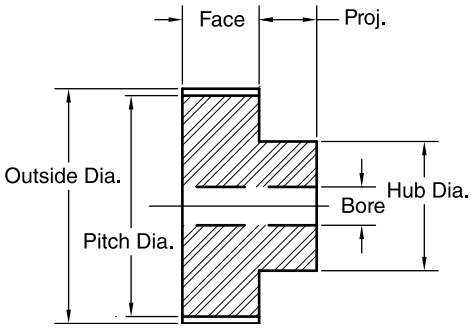
**14½° P.A. Gears Will Not Operate With 20° P.A.**

# Nylon Stock Spur Gears

**14½°Pressure Angle**

# 8 DP

## 1¼" Face



## Natural Oil-Filled Nylon Spur Gears

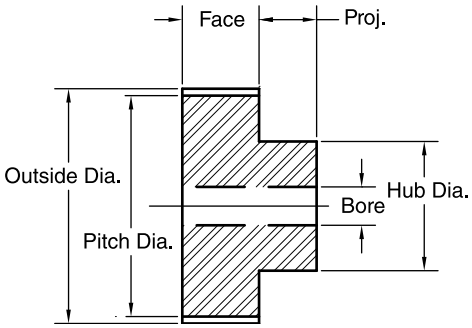
| Number of Teeth | Catalog Number | 4DP | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max.* | Diameter | Project |
| 11 | NM811 | 1.5 | 1.75 | B | 0.5 | 0.75 | 1.125 | 0.75 |
| 12 | NM812 | 1.5 | 1.75 | B | 0.5 | 0.75 | 1.125 | 0.75 |
| 13 | NM813 | 1.625 | 1.875 | B | 0.5 | 0.75 | 1.25 | 0.75 |
| 14 | NM814 | 1.75 | 2 | B | 0.5 | 0.625 | 1.375 | 0.75 |
| 15 | NM815 | 1.875 | 2.125 | B | 0.5 | 0.75 | 1.5 | 0.75 |
| 16 | NM816 | 2 | 2.25 | B | 0.5 | 0.875 | 1.625 | 0.75 |
| 17 | NM817 | 2.125 | 2.375 | B | 0.5 | 0.875 | 1.75 | 0.75 |
| 18 | NM818 | 2.25 | 2.5 | B | 0.75 | 1 | 1.875 | 0.75 |
| 19 | NM819 | 2.375 | 2.625 | B | 0.75 | 1.125 | 2 | 0.75 |
| 20 | NM820 | 2.5 | 2.75 | B | 0.75 | 1.125 | 2.125 | 0.75 |
| 21 | NM821 | 2.625 | 2.875 | B | 0.75 | 1.25 | 2.25 | 0.75 |
| 22 | NM822 | 2.75 | 3 | B | 0.75 | 1.25 | 2.375 | 0.75 |
| 24 | NM824 | 3 | 3.25 | B | 0.75 | 1.5 | 2.625 | 1 |
| 26 | NM826 | 3.25 | 3.5 | B | 0.75 | 1.5 | 2.625 | 1 |
| 28 | NM828 | 3.5 | 3.75 | B | 0.75 | 1.625 | 2.75 | 1 |
| 30 | NM830 | 3.75 | 4 | B | 0.75 | 1.75 | 2.875 | 1 |
| 32 | NM832 | 4 | 4.25 | B | 0.75 | 1.75 | 3 | 1 |
| 36 | NM836 | 4.5 | 4.75 | B | 0.75 | 1.75 | 3 | 1 |
| 40 | NM840 | 5 | 5.25 | B | 0.75 | 1.75 | 3 | 1 |
| 42 | NM842 | 5.25 | 5.5 | B | 0.75 | 1.75 | 3 | 1 |
| 44 | NM844 | 5.5 | 5.75 | B | 0.75 | 1.75 | 3 | 1 |
| 48 | NM848 | 6 | 6.25 | B | 0.75 | 1.75 | 3 | 1 |

* Recommended Maximum Bore With Keyway and Setscrew.

**14½° P.A. Gears Will Not Operate With 20° P.A.**

# 10 DP
## 1" Face

# Nylon Stock Spur Gears
### 14½°Pressure Angle



## Natural Oil-Filled Nylon Spur Gears

| Number of Teeth | Catalog Number | 4DP | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max.* | Diameter | Project |
| 11 | NM1011 | 1.2 | 1.4 | B | 0.25 | 0.5 | 0.938 | 0.625 |
| 12 | NM1012 | 1.2 | 1.4 | B | 0.25 | 0.5 | 0.938 | 0.625 |
| 13 | NM1013 | 1.3 | 1.5 | B | 0.25 | 0.5 | 1 | 0.625 |
| 14 | NM1014 | 1.4 | 1.6 | B | 0.5 | 0.5 | 1.125 | 0.625 |
| 15 | NM1015 | 1.5 | 1.7 | B | 0.5 | 0.75 | 1.219 | 0.625 |
| 16 | NM1016 | 1.6 | 1.8 | B | 0.5 | 0.75 | 1.313 | 0.625 |
| 17 | NM1017 | 1.7 | 1.9 | B | 0.5 | 0.75 | 1.375 | 0.625 |
| 18 | NM1018 | 1.8 | 2 | B | 0.5 | 0.75 | 1.531 | 0.625 |
| 19 | NM1019 | 1.9 | 2.1 | B | 0.5 | 0.75 | 1.563 | 0.625 |
| 20 | NM1020 | 2 | 2.2 | B | 0.5 | 0.875 | 1.719 | 0.625 |
| 21 | NM1021 | 2.1 | 2.3 | B | 0.5 | 0.875 | 1.75 | 0.625 |
| 22 | NM1022 | 2.2 | 2.4 | B | 0.75 | 1 | 1.875 | 0.625 |
| 24 | NM1024 | 2.4 | 2.6 | B | 0.75 | 1.125 | 2.125 | 0.625 |
| 25 | NM1025 | 2.5 | 2.7 | B | 0.75 | 1.25 | 2.219 | 0.625 |
| 26 | NM1026 | 2.6 | 2.8 | B | 0.75 | 1.25 | 2.125 | 0.625 |
| 28 | NM1028 | 2.8 | 3 | B | 0.75 | 1.25 | 2.125 | 0.875 |
| 30 | NM1030 | 3 | 3.2 | B | 0.75 | 1.25 | 2.125 | 0.875 |
| 32 | NM1032 | 3.2 | 3.4 | B | 0.75 | 1.25 | 2.125 | 0.875 |
| 35 | NM1035 | 3.5 | 3.7 | B | 0.75 | 1.25 | 2.25 | 0.875 |
| 36 | NM1036 | 3.6 | 3.8 | B | 0.75 | 1.25 | 2.25 | 0.875 |
| 38 | NM1038 | 3.8 | 4 | B | 0.75 | 1.25 | 2.25 | 0.875 |
| 40 | NM1040 | 4 | 4.2 | B | 0.75 | 1.25 | 2.25 | 0.875 |
| 42 | NM1042 | 4.2 | 4.4 | B | 0.75 | 1.25 | 2.25 | 0.875 |
| 45 | NM1045 | 4.5 | 4.7 | B | 0.75 | 1.375 | 2.5 | 0.875 |
| 48 | NM1048 | 4.8 | 5 | B | 0.75 | 1.375 | 2.5 | 0.875 |
| 50 | NM1050 | 5 | 5.2 | B | 0.75 | 1.375 | 2.5 | 0.875 |
| 54 | NM1054 | 5.4 | 5.6 | B | 0.75 | 1.375 | 2.5 | 0.875 |
| 55 | NM1055 | 5.5 | 5.7 | B | 0.75 | 1.375 | 2.5 | 0.875 |
| 60 | NM1060 | 6 | 6.2 | B | 0.75 | 1.375 | 2.5 | 0.875 |

* Recommended Maximum Bore With Keyway and Setscrew.

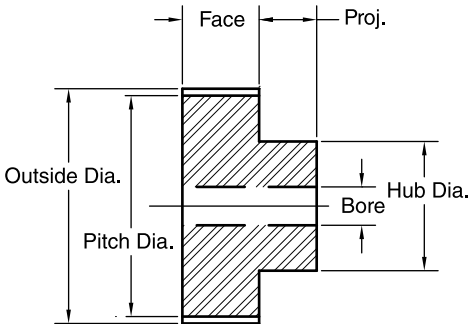
**14½° P.A. Gears Will Not Operate With 20° P.A.**

# Nylon Stock Spur Gears

**14½°Pressure Angle**

# 12 DP

## ¾" Face



## Natural Oil-Filled Nylon Spur Gears

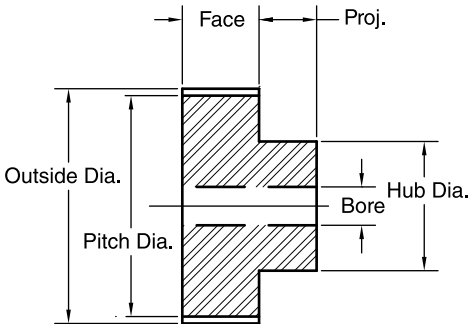
| Number of Teeth | Catalog Number | 4DP | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max.* | Diameter | Project |
| 11 | NM1211 | 1 | 1.167 | B | 0.25 | 0.5 | 0.75 | 0.5 |
| 12 | NM1212 | 1 | 1.167 | B | 0.25 | 0.5 | 0.75 | 0.5 |
| 13 | NM1213 | 1.083 | 1.25 | B | 0.25 | 0.5 | 0.813 | 0.5 |
| 14 | NM1214 | 1.167 | 1.333 | B | 0.25 | 0.5 | 0.906 | 0.5 |
| 15 | NM1215 | 1.25 | 1.417 | B | 0.25 | 0.5 | 1 | 0.5 |
| 16 | NM1216 | 1.333 | 1.5 | B | 0.5 | 0.5 | 1.063 | 0.5 |
| 17 | NM1217 | 1.413 | 1.58 | B | 0.5 | 0.5 | 1.125 | 0.5 |
| 18 | NM1218 | 1.5 | 1.667 | B | 0.5 | 0.5 | 1.25 | 0.5 |
| 19 | NM1219 | 1.583 | 1.75 | B | 0.5 | 0.75 | 1.313 | 0.5 |
| 20 | NM1220 | 1.667 | 1.833 | B | 0.5 | 0.875 | 1.813 | 0.5 |
| 21 | NM1221 | 1.75 | 1.917 | B | 0.5 | 0.75 | 1.5 | 0.5 |
| 22 | NM1222 | 1.833 | 2 | B | 0.5 | 0.875 | 1.563 | 0.5 |
| 23 | NM1223 | 1.917 | 2.083 | B | 0.5 | 0.875 | 1.625 | 0.5 |
| 24 | NM1224 | 2 | 2.166 | B | 0.5 | 0.875 | 1.75 | 0.5 |
| 25 | NM1225 | 2.083 | 2.25 | B | 0.5 | 0.875 | 1.844 | 0.5 |
| 26 | NM1226 | 2.167 | 2.333 | B | 0.5 | 1 | 1.938 | 0.625 |
| 28 | NM1228 | 2.333 | 2.5 | B | 0.5 | 1.25 | 2.063 | 0.625 |
| 30 | NM1230 | 2.5 | 2.667 | B | 0.5 | 1.25 | 2.25 | 0.625 |
| 32 | NM1232 | 2.667 | 2.833 | B | 0.5 | 1.25 | 2.25 | 0.625 |
| 34 | NM1234 | 2.833 | 3 | B | 0.5 | 1.25 | 2.25 | 0.625 |
| 36 | NM1236 | 3 | 3.167 | B | 0.5 | 1.375 | 2.5 | 0.625 |
| 39 | NM1239 | 3.167 | 3.333 | B | 0.5 | 1.375 | 2.5 | 0.625 |
| 40 | NM1240 | 3.333 | 3.5 | B | 0.5 | 1.375 | 2.5 | 0.625 |
| 42 | NM1242 | 3.5 | 3.666 | B | 0.5 | 1.375 | 2.5 | 0.625 |
| 44 | NM1244 | 3.667 | 3.833 | B | 0.5 | 1.375 | 2.5 | 0.625 |
| 48 | NM1248 | 4 | 4.166 | B | 0.5 | 1.375 | 2.5 | 0.75 |
| 54 | NM1254 | 4.5 | 4.666 | B | 0.75 | 1.625 | 2.75 | 0.75 |
| 56 | NM1256 | 4.667 | 4.833 | B | 0.75 | 1.625 | 2.75 | 0.75 |
| 60 | NM1260 | 5 | 5.166 | B | 0.75 | 1.625 | 2.75 | 0.75 |
| 64 | NM1264 | 5.333 | 5.5 | B | 0.75 | 1.625 | 2.75 | 0.75 |
| 66 | NM1266 | 5.5 | 5.666 | B | 0.75 | 1.625 | 2.75 | 0.75 |
| 72 | NM1272 | 6 | 6.166 | B | 0.75 | 1.625 | 2.75 | 0.75 |

* Recommended Maximum Bore With Keyway and Setscrew.

**14½° P.A. Gears Will Not Operate With 20° P.A.**

# 16 DP
## ½" Face

# Nylon Stock Spur Gears
### 14½°Pressure Angle



## Natural Oil-Filled Nylon Spur Gears

| Number of Teeth | Catalog Number | 4DP | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max.* | Diameter | Project |
| 11 | NM1611 | 0.75 | 0.875 | B | 0.25 | 0.375 | 0.563 | 0.438 |
| 12 | NM1612 | 0.75 | 0.875 | B | 0.25 | 0.375 | 0.563 | 0.438 |
| 13 | NM1613 | 0.812 | 0.937 | B | 0.25 | 0.375 | 0.625 | 0.438 |
| 14 | NM1614 | 0.875 | 1 | B | 0.25 | 0.375 | 0.688 | 0.438 |
| 15 | NM1615 | 0.937 | 1.062 | B | 0.25 | 0.5 | 0.75 | 0.438 |
| 16 | NM1616 | 1 | 1.125 | B | 0.25 | 0.5 | 0.813 | 0.438 |
| 17 | NM1617 | 1.062 | 1.187 | B | 0.25 | 0.5 | 0.875 | 0.438 |
| 18 | NM1618 | 1.125 | 1.25 | B | 0.25 | 0.5 | 0.938 | 0.438 |
| 19 | NM1619 | 1.187 | 1.312 | B | 0.25 | 0.5 | 1 | 0.438 |
| 20 | NM1620 | 1.25 | 1.375 | B | 0.5 | 0.5 | 1.063 | 0.438 |
| 21 | NM1621 | 1.312 | 1.438 | B | 0.5 | 0.5 | 1.125 | 0.438 |
| 22 | NM1622 | 1.375 | 1.5 | B | 0.5 | 0.5 | 1.188 | 0.438 |
| 23 | NM1623 | 1.437 | 1.562 | B | 0.5 | 0.5 | 1.25 | 0.438 |
| 24 | NM1624 | 1.5 | 1.625 | B | 0.5 | 0.625 | 1.313 | 0.438 |
| 26 | NM1626 | 1.625 | 1.75 | B | 0.5 | 0.75 | 1.438 | 0.438 |
| 28 | NM1628 | 1.75 | 1.875 | B | 0.5 | 0.75 | 1.5 | 0.5 |
| 30 | NM1630 | 1.875 | 2 | B | 0.5 | 0.875 | 1.625 | 0.5 |
| 32 | NM1632 | 2 | 2.125 | B | 0.5 | 1 | 1.75 | 0.5 |
| 34 | NM1634 | 2.125 | 2.25 | B | 0.5 | 1.125 | 1.875 | 0.5 |
| 36 | NM1636 | 2.25 | 2.375 | B | 0.5 | 1.125 | 2 | 0.5 |
| 38 | NM1638 | 2.375 | 2.5 | B | 0.5 | 1.125 | 2 | 0.5 |
| 40 | NM1640 | 2.5 | 2.626 | B | 0.75 | 1.125 | 2 | 0.5 |
| 44 | NM1644 | 2.75 | 2.875 | B | 0.5 | 1.125 | 2 | 0.5 |
| 48 | NM1648 | 3 | 3.125 | B | 0.5 | 1.125 | 2 | 0.5 |
| 52 | NM1652 | 3.25 | 3.375 | B | 0.5 | 1.125 | 2 | 0.5 |
| 54 | NM1654 | 3.375 | 3.5 | B | 0.5 | 1.125 | 2 | 0.5 |
| 56 | NM1656 | 3.5 | 3.625 | B | 0.5 | 1.125 | 2 | 0.5 |
| 60 | NM1660 | 3.75 | 3.875 | B | 0.5 | 1.125 | 2 | 0.5 |
| 64 | NM1664 | 4 | 4.125 | B | 0.5 | 1.125 | 2 | 0.625 |
| 68 | NM1668 | 4.25 | 4.375 | B | 0.5 | 1.25 | 2.25 | 0.625 |
| 72 | NM1672 | 4.5 | 4.625 | B | 0.5 | 1.25 | 2.25 | 0.625 |
| 80 | NM1680 | 5 | 5.125 | B | 0.5 | 1.25 | 2.25 | 0.625 |
| 84 | NM1684 | 5.25 | 5.375 | B | 0.5 | 1.25 | 2.25 | 0.625 |
| 88 | NM1688. | 5.5 | 5.625 | B | 0.5 | 1.25 | 2.25 | 0.625 |
| 96 | NM1696 | 6 | 6.125 | B | 0.5 | 1.25 | 2.25 | 0.625 |

* Recommended Maximum Bore With Keyway and Setscrew.

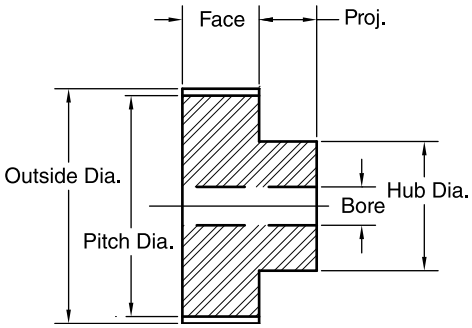
**14½° P.A. Gears Will Not Operate With 20° P.A.**

# Nylon Stock Spur Gears

**14½°Pressure Angle**

# 20 DP

## ⅜" Face



## Natural Oil-Filled Nylon Spur Gears

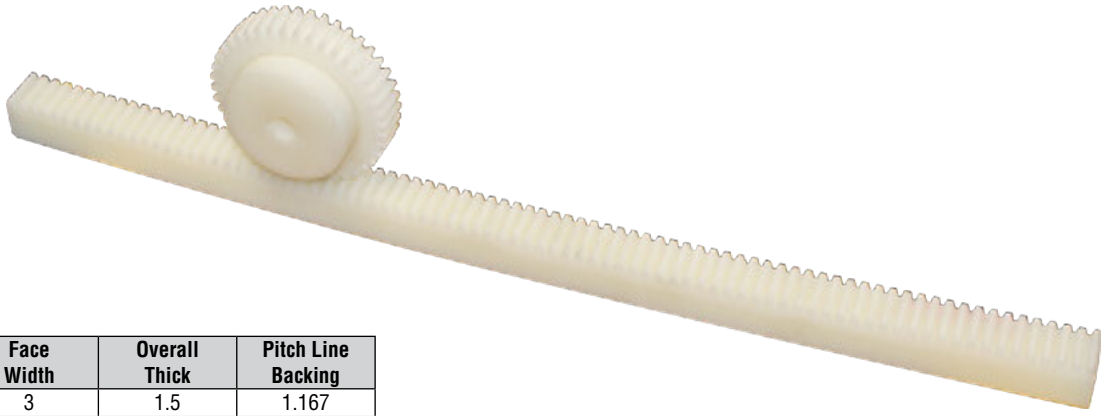
| Number of Teeth | Catalog Number | 4DP | | Type | Bore (in) | | Hub (in) | |
|---|---|---|---|---|---|---|---|---|
| | | Pitch | Outside | | Stock | Max.* | Diameter | Project |
| 11 | NM2011 | 0.55 | 0.65 | B | 0.25 | 0.313 | 0.406 | 0.375 |
| 12 | NM2012 | 0.6 | 0.7 | B | 0.25 | 0.313 | 0.469 | 0.375 |
| 14 | NM2014 | 0.7 | 0.8 | B | 0.25 | 0.313 | 0.547 | 0.375 |
| 15 | NM2015 | 0.75 | 0.85 | B | 0.25 | 0.375 | 0.609 | 0.375 |
| 18 | NM2018 | 0.9 | 1 | B | 0.25 | 0.375 | 0.75 | 0.375 |
| 20 | NM2020 | 1 | 1.1 | B | 0.25 | 0.375 | 0.859 | 0.375 |
| 24 | NM2024 | 1.2 | 1.3 | B | 0.375 | 0.563 | 1.063 | 0.375 |
| 30 | NM2030 | 1.5 | 1.6 | B | 0.375 | 0.813 | 1.359 | 0.375 |
| 32 | NM2032 | 1.6 | 1.7 | B | 0.375 | 0.875 | 1.438 | 0.5 |

* Recommended Maximum Bore With Keyway and Setscrew.

**14½° P.A. Gears Will Not Operate With 20° P.A.**

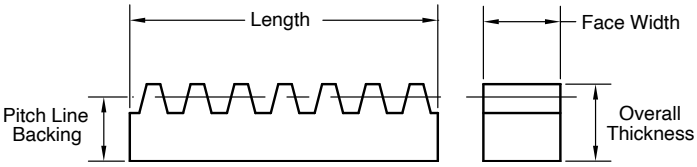
# Machined Nylon Gear Rack

- Standard material: natural oil-filled nylon
- Other dimensions available
- Supplied as nominal 48" lengths.
- Matched ends available upon request



## Gear Rack 14½° PA

| Pitch | Catalog Number | Face Width | Overall Thick | Pitch Line Backing |
|---|---|---|---|---|
| 3 | R3X4NM | 3 | 1.5 | 1.167 |
| 4 | R4X4NM | 2 | 1.5 | 1.25 |
| 4 | RA4X4NM | 2 | 2 | 1.75 |
| 5 | R5X4NM | 1.75 | 1.25 | 1.05 |
| 5 | RA5X4NM | 1.75 | 1.5 | 1.3 |
| 6 | R6X4NM | 1.5 | 1 | 0.833 |
| 6 | RA6X4NM | 1.5 | 1.5 | 1.333 |
| 8 | R8X4NM | 1.25 | 0.75 | 0.625 |
| 8 | RA8X4NM | 1.25 | 1.25 | 1.125 |
| 10 | R10X4NM | 1 | 0.625 | 0.525 |
| 10 | RA10X4NM | 1 | 1 | 0.9 |
| 12 | R12X4NM | 0.75 | 0.5 | 0.417 |
| 12 | RA12X4NM | 0.75 | 0.75 | 0.667 |
| 16 | RA16X4NM | 0.5 | 0.5 | 0.438 |
| 20 | RA20X4NM | 0.375 | 0.375 | 0.325 |



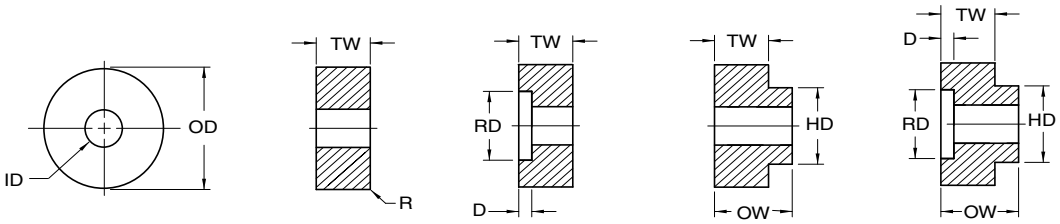

## Gear Rack 20° PA

| Pitch | Catalog Number | Face Width | Overall Thick | Pitch Line Backing |
|---|---|---|---|---|
| 3 | R3X4NM | 3 | 1.5 | 1.167 |
| 4 | R4X4NM | 2 | 1.5 | 1.25 |
| 4 | RA4X4NM | 2 | 2 | 1.75 |
| 5 | R5X4NM | 1.75 | 1.25 | 1.05 |
| 5 | RA5X4NM | 1.75 | 1.5 | 1.3 |
| 6 | R6X4NM | 1.5 | 1 | 0.833 |
| 6 | RA6X4NM | 1.5 | 1.5 | 1.333 |
| 8 | R8X4NM | 1.25 | 0.75 | 0.625 |
| 8 | RA8X4NM | 1.25 | 1.25 | 1.125 |
| 10 | R10X4NM | 1 | 0.625 | 0.525 |
| 10 | RA10X4NM | 1 | 1 | 0.9 |
| 12 | R12X4NM | 0.75 | 0.5 | 0.417 |
| 12 | RA12X4NM | 0.75 | 0.75 | 0.667 |
| 16 | RA16X4NM | 0.5 | 0.5 | 0.438 |
| 20 | RA20X4NM | 0.375 | 0.375 | 0.325 |

# Wheels & Rollers

## UHMW – White

Martin wheels may be used as a direct replacement for conventional steel or aluminum wheels in many applications. These industrial plastic wheels are quiet operating, non-marking and corrosion resistant while maintaining a high load capacity.

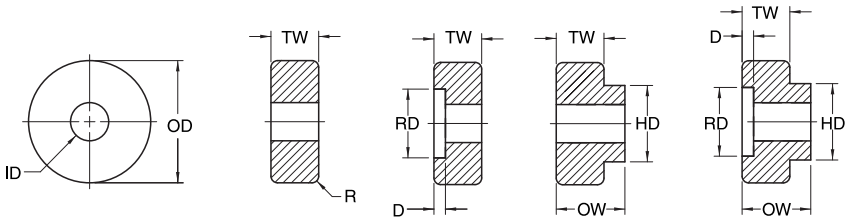



SHARP CORNER EDGE | TYPE E | TYPE F | TYPE G | TYPE H

## Wheels & Roller – Sharp Corner Edges

| Part Number | Type | Outside Diameter | Inside Diameter | TW Tread Width | OW Overall Width | HD Hub Diameter | RD Recess Diameter | D Recess Depth |
|---|---|---|---|---|---|---|---|---|
| WRS1001NM | E | 0.438 | 0.125 | 0.25 | – | – | – | – |
| WRS1002NM | G | 0.438 | 0.125 | 0.25 | 0.313 | 0.313 | – | – |
| WRS1003NM | F | 0.438 | 0.139 | 0.313 | – | – | 0.219 | 0.063 |
| WRS1004NM | F | 0.438 | 0.139 | 0.313 | – | – | 0.313 | 0.125 |
| WRS1005NM | E | 0.5 | 0.201 | 0.313 | – | – | | |
| WRS1006NM | F | 0.563 | 0.264 | 0.313 | – | – | 0.469 | 0.063 |
| WRS1007NM | E | 0.625 | 0.201 | 0.5 | – | – | | |
| WRS1008NM | H | 0.688 | 0.389 | 0.188 | 0.25 | 0.5 | 0.5 | 0.063 |
| WRS1009NM | E | 0.75 | 0.264 | 0.781 | – | – | – | – |
| WRS1010NM | E | 0.75 | 0.264 | 1 | – | – | – | – |
| WRS1011NM | E | 0.875 | 0.187 | 0.5 | – | – | – | – |
| WRS1012NM | F | 0.875 | 0.327 | 0.469 | | | 0.625 | 0.188 |
| WRS1013NM | H | 0.875 | 0.201 | 0.313 | 0.375 | 0.688 | 0.625 | 0.125 |
| WRS1014NM | F | 1 | 0.38 | 0.375 | – | – | 0.813 | 0.063 |
| WRS1015NM | E | 1.125 | 0.26 | 0.375 | – | – | – | – |
| WRS1016NM | F | 1.5 | 0.317 | 0.406 | – | | 1.25 | 0.156 |
| WRS1017NM | G | 2.5 | 0.326 | 1.375 | 1.5 | 0.75 | – | – |
| WRS1018NM | G | 3 | 0.505 | 1.375 | 1.25 | 0.875 | – | – |

NOTE: Dimensions in inches.




Radius Edge | TYPE E | TYPE F | TYPE G | TYPE H

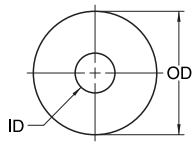
## Wheels & Roller – Radius Edges

| Part Number | Type | Outside Diameter | Inside Diameter | TW Tread Width | OW Overall Width | HD Hub Diameter | RD Recess Diameter | D Recess Depth | R Radius |
|---|---|---|---|---|---|---|---|---|---|
| WRR2001NM | F | 0.375 | 0.095 | 0.375 | – | – | 0.188 | 0.125 | 0.125 |
| WRR2002NM | F | 0.5 | 0.19 | 0.375 | – | – | 0.375 | 0.063 | 0.063 |
| WRR2003NM | F | 0.625 | 0.187 | 0.313 | – | – | 0.313 | 0.125 | 0.063 |
| WRR2004NM | H | 0.75 | 0.201 | 0.25 | 0.281 | 0.313 | 0.656 | 0.063 | 0.063 |
| WRR2005NM | E | 0.75 | 0.264 | 0.5 | – | – | – | – | 0.125 |
| WRR2006NM | G | 0.875 | 0.139 | 0.375 | 0.438 | 0.5 | – | – | 0.125 |
| WRR2007NM | F | 1 | 0.201 | 0.5 | – | – | 0.563 | 0.094 | 0.063 |
| WRR2008NM | E | 1.125 | 0.264 | 0.375 | – | – | – | – | 0.125 |
| WRR2009NM | H | 1.125 | 0.326 | 0.375 | 0.438 | 0.5 | 0.625 | 0.063 | 0.125 |
| WRR2010NM | E | 2 | 0.641 | 0.125 | – | – | – | – | 0.063 |
| WRS1018NM | G | 3 | 0.505 | 1.375 | 1.25 | 0.875 | – | | – |

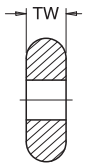
NOTE: Dimensions in inches.

# Wheels & Rollers

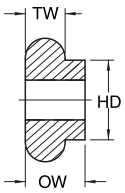
## UHMW – White




FULL RADIUS EDGES




TYPE M

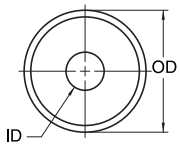



TYPE N

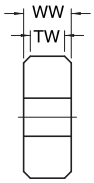
## Wheels & Roller – Full Radius Edges

| Part Number | Type | Outside Diameter | Inside Diameter | TW Tread Width | OW Overall Width | HD Hub Diameter |
|---|---|---|---|---|---|---|
| WRFR4001NM | M | 0.75 | 0.264 | 0.25 | – | – |
| WRFR4002NM | N | 0.75 | 0.264 | 0.25 | 0.313 | 0.375 |
| WRFR4003NM | N | 0.75 | 0.312 | 0.25 | 0.5 | 0.5 |
| WRFR4004NM | N | 0.938 | 0.375 | 0.188 | 0.25 | 0.5 |
| WRFR4005NM | M | 1 | 0.201 | 0.25 | – | – |
| WRFR4006NM | M | 1.5 | 0.389 | 0.75 | – | – |
| WRFR4007NM | N | 1.5 | 0.389 | 0.75 | 1 | 0.75 |
| WRFR4008NM | M | 2 | 0.389 | 1 | – | – |

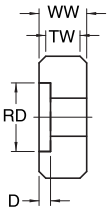
NOTE: Dimensions in inches.



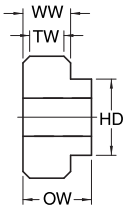

CHAMFERED EDGES



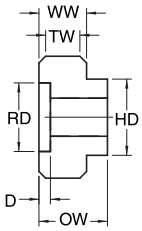

TYPE I




TYPE J




TYPE K




TYPE L

- Trolley wheels
- Guide wheels
- Spools
- Crowned wheels
- Pallet jack wheels

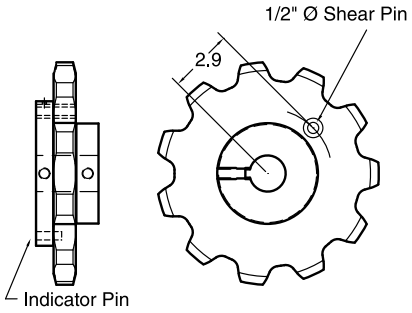
## Wheels & Roller – Chamfered Edges

| Part Number | Type | Outside Diameter | Inside Diameter | TW Tread Width | OW Overall Width | HD Hub Diameter | RD Recess Diameter | D Recess Depth | Chamfer |
|---|---|---|---|---|---|---|---|---|---|
| WRC3001NM | L | 0.75 | 0.326 | 0.219 | 0.5 | 0.5 | 0.563 | 0.031 | 45° × .031 |
| WRC3002NM | I | 0.875 | 0.326 | 0.25 | – | – | – | – | 45° × .031 |
| WRC3003NM | L | 0.875 | 0.375 | 0.188 | 0.375 | 0.5 | 0.5 | 0.031 | 45° × .031 |
| WRC3004NM | K | 0.875 | 0.389 | 0.188 | 0.375 | 0.5 | – | – | 45° × .031 |
| WRC3005NM | J | 0.938 | 0.375 | 0.313 | – | – | – | – | 45° × .031 |
| WRC3006NM | K | 0.938 | 0.389 | 0.188 | 0.375 | 0.5 | 0.5 | 0.063 | 45° × .031 |
| WRC3007NM | I | 1 | 0.75 | 0.5 | – | – | – | – | 45° × .063 |
| WRC3008NM | J | 1 | 0.389 | 0.188 | – | – | 0.813 | 0.063 | 45° × .031 |
| WRC3009NM | I | 1.063 | 0.326 | 0.25 | – | – | – | – | 45° × .063 |
| WRC3010NM | L | 1.063 | 0.389 | 0.094 | 0.563 | 0.625 | 0.625 | 0.063 | 45° × .094 |
| WRC3011NM | I | 1.5 | 0.505 | 1 | – | – | – | – | 45° × .125 |

NOTE: Dimensions in inches.
Other sizes are available upon request.
Other materials, such as Acetal, Teflon® and Nylon, are also available.

## 78 Series Shear Pin Sprocket

- Nylon body & nylon sprocket
- Includes trip indicator

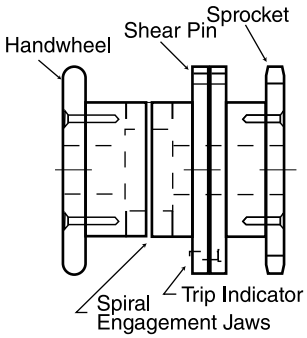



| No. Teeth | Part Number | Pitch Dia. | Type | Bore Max. | A | B | C | D |
|---|---|---|---|---|---|---|---|---|
| 10 | 78SP10NM | 8.44 | C | 2 | 4.875 | 3.25 | 3.75 | 8 |
| 11 | 78SP11NM | 9.26 | C | 2.5 | 4.875 | 3.25 | 3.75 | 8 |
| 13 | 78SP13NM | 10.9 | C | 3 | 5.875 | 3.75 | 4.438 | 9 |

NOTE: Dimensions in inches.

## 78 Series Jaw Clutch Sprocket

- Nylon Body & Nylon Sprocket
- Includes Trip Indicator



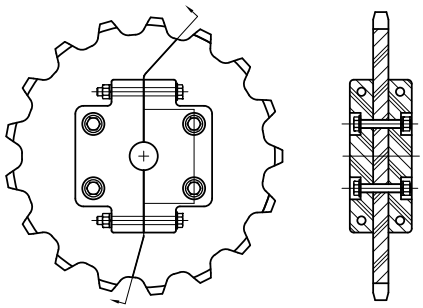

| No. Teeth | Part Number | Pitch Dia. | Type | Bore Max. | A | B | C | D |
|---|---|---|---|---|---|---|---|---|
| 11 | 78JC11 | 9.26 | C | 2.5 | 3.5 | 2.75 | 3 | 14.25 |

NOTE: Dimensions in inches.

## 720 Series Split Sprocket

- UHMW sprocket plates & hubs
- 304 Stainless steel hardware as standard
- 316 Stainless steel hardware optional
- Standard rim and chain-saver rim available
- Other numbers of teeth available

**6.0" Pitch, 1" Nominal Plate Width**
**4" Length Thru Bore, C- Hub**

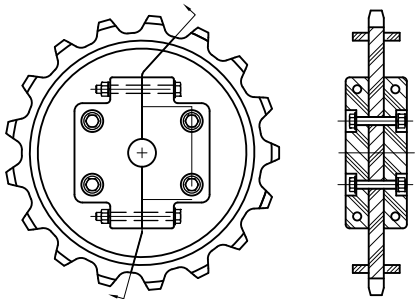


| No. Teeth | Part Number | Pitch Dia. | Outside Dia. | Bore Stock | Max Drive | Max Idler | Hub Dia. | Nom LTB |
|---|---|---|---|---|---|---|---|---|
| 13 | 720C13NMS | 12.91 | 13.5 | 1 | 3.25 | 3.625 | 7 | 4 |
| 17 | 720C17NMS | 16.59 | 17.09 | 1.75 | 3.938 | 5 | 8.875 | 4 |
| 19 | 720C19NMS | 18.45 | 18.95 | 1.75 | 3.938 | 5 | 8.875 | 4 |
| 21 | 720C21NMS | 20.33 | 20.83 | 1.75 | 3.938 | 5 | 8.875 | 4 |
| 23 | 720C23NMS | 22.21 | 22.71 | 1.75 | 3.938 | 5 | 8.875 | 4 |
| 25 | 720C25NMS | 24.1 | 24.6 | 1.75 | 4.5 | 6 | 10.5 | 4 |

NOTE: Dimensions in inches.

## 720 Series Split Sprocket

**6.0" Pitch, 1" Nominal Plate Width**
**4" Length Thru Bore, C- Hub**



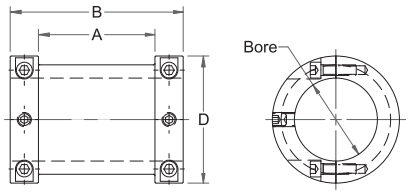
| No. Teeth | Part Number | Pitch Dia. | Outside Dia. | Chainsaver Hub Dia. | Bore Stock | Max Drive | Max Idler | Hub Dia. | Nom LTB |
|---|---|---|---|---|---|---|---|---|---|
| 13 | 720CS13NMS | 12.89 | 13.39 | 10.03 | 1 | 3.25 | 3.625 | 7 | 4 |
| 17 | 720CS17NMS | 16.59 | 17.09 | 14.07 | 1.75 | 3.938 | 5 | 8.875 | 4 |
| 19 | 720CS19NMS | 18.45 | 18.95 | 16.06 | 1.75 | 3.938 | 5 | 8.875 | 4 |
| 21 | 720CS21NMS | 20.33 | 20.83 | 18.04 | 1.75 | 3.938 | 5 | 8.875 | 4 |
| 23 | 720CS23NMS | 22.21 | 22.71 | 20 | 1.75 | 3.938 | 5 | 8.875 | 4 |
| 25 | 720CS25NMS | 24.1 | 24.6 | 22.03 | 1.75 | 4.5 | 6 | 10.5 | 4 |

NOTE: Dimensions in inches.

# Wastewater Treatment Components

## Static Shaft Bushings

These static shaft bushings protect expensive shafts from damage caused by idler sprockets. Manufactured from green oil-filled nylon with stainless steel hardware. They are as durable as stainless steel counterparts at a fraction of the cost. They are chemical, corrosion, moisture and abrasive resistant. Custom sizes and materials available.




**Static Shaft Bushing-Split**

| Part Number | Max. Shaft Size | A | B | D |
|---|---|---|---|---|
| WTB4700 | 2.938 | 4.13 | 6.125 | 4.5 |
| WTB6400 | 4 | 4.13 | 6.125 | 6 |
| WTB7200 | 4.5 | 4.13 | 6.125 | 6.25 |
| WTB8400 | 5.25 | 4.13 | 6.125 | 7 |

NOTE: Dimensions in inches.

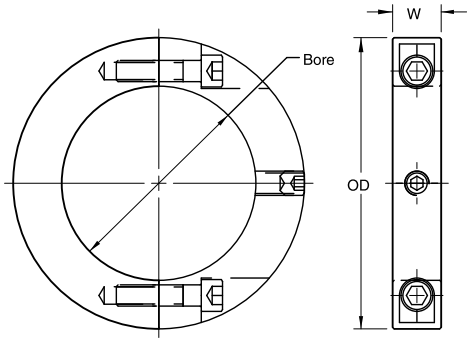
## Shaft Collars – Regular Duty

| Part Number | W | Outside Diameter | Bore | |
|---|---|---|---|---|
| | | | Stock | Max. |
| WTSC600 | 1 | 6 | 1.75 | 4 |
| WTSC800 | 1 | 8 | 3.25 | 5 |

## Shaft Collars – Heavy Duty

| Part Number | W | Outside Diameter | Bore | |
|---|---|---|---|---|
| | | | Stock | Max. |
| WTSC2600 | 2.5 | 6 | 1.75 | 4 |
| WTSC2800 | 2.5 | 8 | 3.25 | 5 |

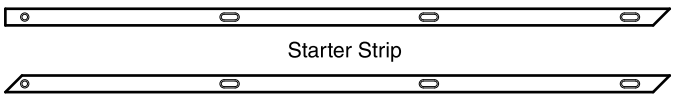
NOTE: Dimensions in inches.




**Shaft Collar**

## Wear Strips

These wear strips are easy to install and provide superior protection for rails and other moving machinery. Strips include slots for weld washer installations. We can easily accommodate any special spacing or size requirement for the strips and slots.



Starter Strip



Filler Strip

### Filler Wear Strips / Starter Wear Strips

| Part Number | Thickness | Width | Length | Center Line | Part Number | Thickness | Width | Length | Center Line |
|---|---|---|---|---|---|---|---|---|---|
| WTF1000 | 0.38 | 2.63 | 120 | 1.31 | WTS1100 | 0.38 | 2.63 | 120 | 1.31 |
| WTF1002 | 0.38 | 3 | 120 | 1.5 | WTS1102 | 0.38 | 3 | 120 | 1.5 |
| WTF1003 | 0.5 | 2.5 | 120 | 1.25 | WTS1103 | 0.5 | 2.5 | 120 | 1.25 |
| WTF1004 | 0.5 | 3 | 120 | 1.5 | WTS1104 | 0.5 | 3 | 120 | 1.5 |
| WTF1005 | 0.5 | 3.5 | 120 | 1.75 | WTS1105 | 0.5 | 3.5 | 120 | 1.75 |
| WTF1006 | 0.5 | 4 | 120 | 2 | WTS1106 | 0.5 | 4 | 120 | 2 |
| WTF1007 | 0.5 | 5 | 120 | 2.5 | WTS1107 | 0.5 | 5 | 120 | 2.5 |
| WTF1008 | 0.63 | 2.5 | 120 | 1.25 | WTS1108 | 0.63 | 2.5 | 120 | 1.25 |
| WTF1009 | 0.63 | 3 | 120 | 1.5 | WTS1109 | 0.63 | 3 | 120 | 1.5 |
| WTF1010 | 0.63 | 4 | 120 | 2 | WTS1110 | 0.63 | 4 | 120 | 2 |
| WTF1011 | 0.63 | 5 | 120 | 2.5 | WTS1111 | 0.63 | 5 | 120 | 2.5 |

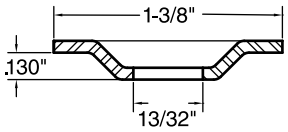
NOTE: Dimensions in inches.

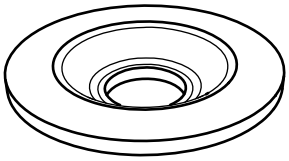
## Weld Washers

Used to fasten wear strips to rails and tank floors.

| Part Number | Material | Diameter |
|---|---|---|
| WTWW1375SS | Stainless Steel | 1.375 |

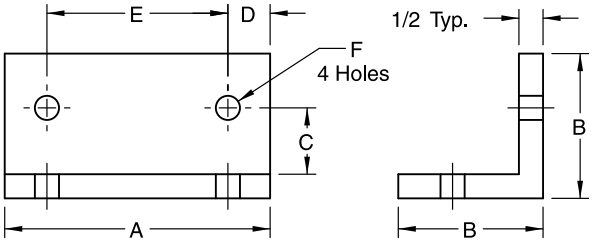
NOTE: Dimensions in inches.



## Wear Shoes

Wear shoes may be manufactured to fit your particular application. For custom wear shoes, please provide your Martin representative with specifications.

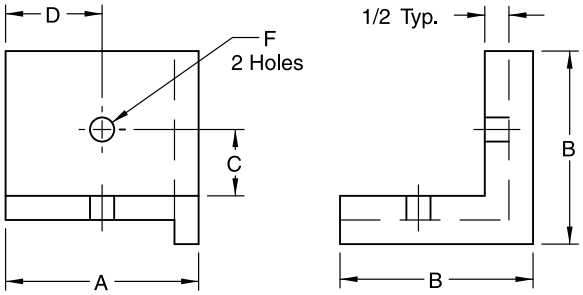



**Carrying Wear Shoes**

### Carrying Wear Shoes

| Part Number | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| WTWS1001 | 5.5 | 3 | 1.31 | 0.88 | 3.75 | 0.5 |
| WTWS1550 | 5.5 | 3 | 1.38 | 0.88 | 3.75 | 0.5 |
| WTWS1600 | 6 | 3 | 1.38 | 1.13 | 3.75 | 0.5 |

NOTE: Dimensions in inches.

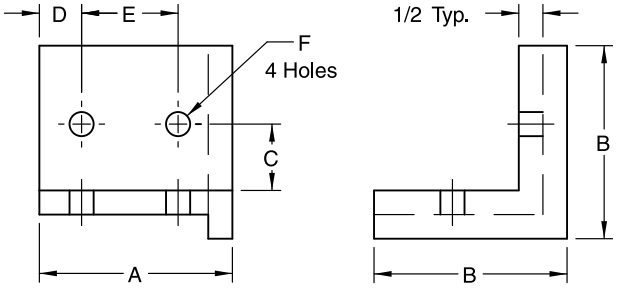



**Single Hole Return Wear Shoes**

### Single Hole Return Wear Shoes

| Part Number | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| WTWS2001 | 4 | 3.5 | 1.31 | 2 | – | 0.5 |
| WTWS2450 | 4 | 3.5 | 1.38 | 2 | – | 0.5 |
| WTWS2550 | 4.5 | 3.5 | 1.38 | 2.25 | – | 0.5 |

NOTE: Dimensions in inches.




**Double Hole Return Wear Shoes**

### Double Hole Return Wear Shoes

| Part Number | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| WTWS3400 | 4 | 3.5 | 1.38 | 0.88 | 2 | 0.5 |
| WTWS3450 | 4.5 | 3.5 | 1.38 | 0.88 | 1 | 0.5 |
| WTWS3600 | 6 | 3.5 | 1.38 | 1.13 | 3.75 | 0.5 |

NOTE: Dimensions in inches.

# Replacement Parts
# For Bottling & Packaging Plant

Martin manufactures star wheels, guides and associated components in a variety of engineering plastics as well as metals, providing you with a single source for all your processing and packaging components.

Martin's 31 branch locations and vast manufacturing capabilities mean we can provide you with the convenience of working with one manufacturer who understands your needs and can ensure all parts work together as required as well as offering fast turnaround on all custom work.

## Application:

- Beverage bottling
- Pharmaceutical packaging
- Canning
- Food processing
- Glass inspection machines
- Labeling machines
  - – Cappers
  - – Cleaners
  - – Steamers
  - – Fillers
  - – Labelers
  - – Coders
  - – Pluggers
  - – Pump placers
  - – Monoblock
  - – Cottoners

## Benefits of Plastic Components:

- Exceptional resistance to wear and abrasion
- Food grade approved material – FDA compliant
- High impact strength
- Corrosion and chemical resistance
- Self-lubricating, eliminating routine/costly maintenance
- Low co-efficient of friction
- Light weight – typically 1/7th the weight of steel
- High visibility colors for increased safety - Makes for easy identification of parts
- Significant noise reduction
- No loose hardware

## Mounting Options:

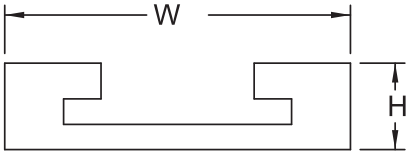
- **Standard** - Using OEM original bolt on method of securing and positioning parts.
- **Quick Change** - Requires one-time modifications to your machines to utilize quick change securing methods.

**For a fast & free quote**

**Contact your Martin distributor**

**or visit martinsprocket.com**

# SolidTrack®
# Corner Track - Tab Design

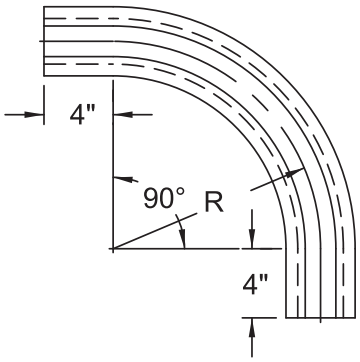



**Corner Track – Tab Design**

## SolidTrack 90º Corners
### Tab Design with Extensions — UHMW — White

| Part Number | Chain Number | Standard Radius R | W | H |
|---|---|---|---|---|
| CHNGCT1111NM | SS881T, D880T, D879T, K3-1/4 | 18", 24", 30" | 4 | 1 |
| CHNGCT1211NM | SS881T, D880T, D879T, K4-1/2 | 24", 30", 36" | 5 | 1 |
| CHNGCT1221NM | D882TLW K4-1/2 | 24", 30", 36" | 5 | 1 – 3/8 |
| CHNGCT1421NM | D882TLW K7-1/2 | 24", 30", 36" | 8 | 1 – 3/8 |
| CHNGCT1521NM | D882TLW K10 | 24", 30", 36" | 10 - _ | 1 – 3/8 |
| CHNGCT1621NM | D882TLW K12 | 24", 30", 36" | 12 - _ | 1 – 3/8 |
| CHNGCT1131NM | 1873T, 1874T, K3-1/4 | 18", 24", 30" | 4 | 1 – 3/8 |
| CHNGCT1231NM | 1873T, 1874T, K4-1/2 | 18", 24", 30" | 5 | 1 – 3/8 |
| CHNGCT1331NM | 1873T, 1874T, K6 | 18", 24", 30" | 6 - _ | 1 – 3/8 |
| CHNGCT1431NM | 1873T, 1874T, K7-1/2 | 18", 24", 30" | 8 | 1 – 3/8 |
| CHNGCT1531NM | 1873T K10 | 18", 24", 30" | 10 - _ | 1 – 3/8 |
| CHNGCT1631NM | 1873T K12 | 18", 24", 30" | 12 - _ | 1 – 3/8 |

NOTE: 4" straight extensions on each end.
Specify radius when ordering.
30" corner radius and above are furnished in two 45° segments.

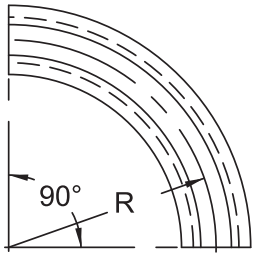



**Corner Track – Tab Design with Extensions**

## SolidTrack 90º Corners
### Tab Design without Extensions — UHMW — White

| Part Number | Chain Number | Standard Radius R | W | H |
|---|---|---|---|---|
| CHNGCT1113NM | SS881T, D880T, D879T, K3-1/4 | 18", 24", 30" | 4 | 1 |
| CHNGCT1213NM | SS881T, D880T, D879T, K4-1/2 | 24", 30", 36" | 5 | 1 |
| CHNGCT1223NM | D882TLW K4-1/2 | 24", 30", 36" | 5 | 1 – 3/8 |
| CHNGCT1423NM | D882TLW K7-1/2 | 24", 30", 36" | 8 | 1 – 3/8 |
| CHNGCT1523NM | D882TLW K10 | 24", 30", 36" | 10 - _ | 1 – 3/8 |
| CHNGCT1623NM | D882TLW K12 | 24", 30", 36" | 12 - _ | 1 – 3/8 |
| CHNGCT1133NM | 1873T, 1874T, K3-1/4 | 18", 24", 30" | 4 | 1 – 3/8 |
| CHNGCT1233NM | 1873T, 1874T, K4-1/2 | 18", 24", 30" | 5 | 1 – 3/8 |
| CHNGCT1333NM | 1873T, 1874T, K6 | 18", 24", 30" | 6 - _ | 1 – 3/8 |
| CHNGCT1433NM | 1873T, 1874T, K7-1/2 | 18", 24", 30" | 8 | 1 – 3/8 |
| CHNGCT1533NM | 1873T K10 | 18", 24", 30" | 10 - _ | 1 – 3/8 |
| CHNGCT1633NM | 1873T K12 | 18", 24", 30" | 12 - _ | 1 – 3/8 |

NOTE: Specify radius when ordering.
30" corner radius and above are furnished in two 45° segments.




**Corner Track – Tab Design without Extensions**

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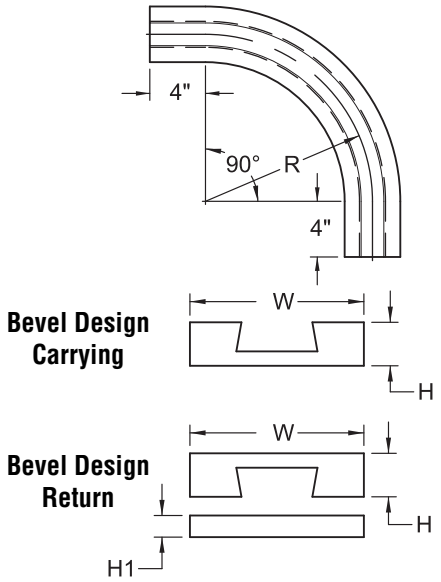
# SolidTrack®
# Corner Track - Bevel Design




**Corner Track – Bevel Design with Extensions**

## SolidTrack 90º Corners – Carrying

### Bevel Design with Extensions — UHMW — White

| Part Number | Chain Number | Standard Radius R | W | H |
|---|---|---|---|---|
| CHNGCB2111-18NM | SS881, D880, D879 K3-1/4 | 18' | 4 | 1 |
| CHNGCB2111-24NM | SS881, D880, D879 K3-1/4 | 24" | 4 | 1 |
| CHNGCB2111-30NM | SS881, D880, D879 K3-1/4 | 30" | 4 | 1 |
| CHNGCB2211-24NM | SS881, D880, D879 K4-1/2 | 24" | 5 | 1 |
| CHNGCB2211-30NM | SS881, D880, D879 K4-1/2 | 30" | 5 | 1 |
| CHNGCB2211-36NM | SS881, D880, D879 K4-1/2 | 36" | 5 | 1 |

NOTE: 4" straight extensions on each end.
30" corner radius and above are furnished in two 45° segments.

## SolidTrack 90º Corners – Return

### Bevel Design with Extensions — UHMW — White

| Part Number | Chain Number | Standard Radius R | W | H | H1 |
|---|---|---|---|---|---|
| CHNGCB311118NM | SS881, D880, D879 K3-1/4 | 18' | 4 | 1 | 0.625 |
| CHNGCB311124NM | SS881, D880, D879 K3-1/4 | 24" | 4 | 1 | 0.625 |
| CHNGCB311130NM | SS881, D880, D879 K3-1/4 | 30" | 4 | 1 | 0.625 |
| CHNGCB321124NM | SS881, D880, D879 K4-1/2 | 24" | 5 | 1 | 0.625 |
| CHNGCB321130NM | SS881, D880, D879 K4-1/2 | 30" | 5 | 1 | 0.625 |
| CHNGCB321136NM | SS881, D880, D879 K4-1/2 | 36" | 5 | 1 | 0.625 |

NOTE: 4" straight extensions on each end.
30" corner radius and above are furnished in two 45° segments.

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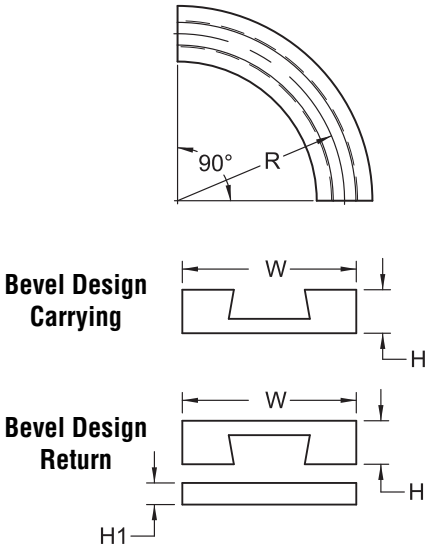
# SolidTrack®
# Corner Track - Bevel Design




**Corner Track – Bevel Design without Extensions**

## SolidTrack 90º Corners – Carrying

### Bevel Design without Extensions

**UHMW — White**

| Part Number | Chain Number | Standard Radius R | W | H |
|---|---|---|---|---|
| CHNGCB211318NM | SS881, D880, D879 K3-1/4 | 18' | 4 | 1 |
| CHNGCB211324NM | SS881, D880, D879 K3-1/4 | 24" | 4 | 1 |
| CHNGCB211330NM | SS881, D880, D879 K3-1/4 | 30" | 4 | 1 |
| CHNGCB221324NM | SS881, D880, D879 K4-1/2 | 24" | 5 | 1 |
| CHNGCB221330NM | SS881, D880, D879 K4-1/2 | 30" | 5 | 1 |
| CHNGCB221336NM | SS881, D880, D879 K4-1/2 | 36" | 5 | 1 |

NOTE: 30" corner radius and above are furnished in two 45° segments.

## SolidTrack 90º Corners – Return

### Bevel Design without Extensions

**UHMW — White**

| Part Number | Chain Number | Standard Radius R | W | H | H1 |
|---|---|---|---|---|---|
| CHNGCB311318NM | SS881, D880, D879 K3-1/4 | 18' | 4 | 1 | 0.625 |
| CHNGCB311324NM | SS881, D880, D879 K3-1/4 | 24" | 4 | 1 | 0.625 |
| CHNGCB311330NM | SS881, D880, D879 K3-1/4 | 30" | 4 | 1 | 0.625 |
| CHNGCB321324NM | SS881, D880, D879 K4-1/2 | 24" | 5 | 1 | 0.625 |
| CHNGCB321330NM | SS881, D880, D879 K4-1/2 | 30" | 5 | 1 | 0.625 |
| CHNGCB321336NM | SS881, D880, D879 K4-1/2 | 36" | 5 | 1 | 0.625 |

NOTE: 30" corner radius and above are furnished in two 45° segments.

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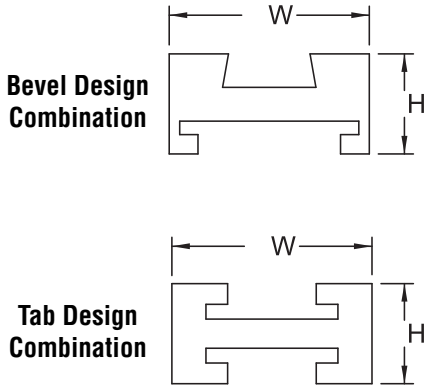
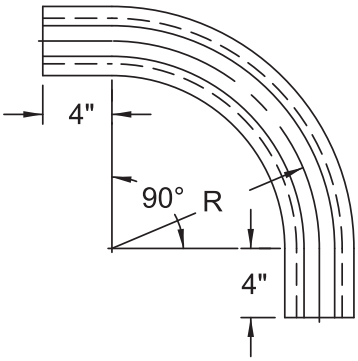
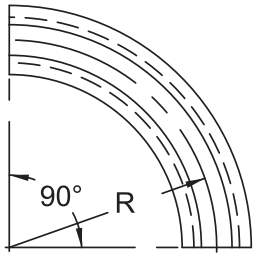
# SolidTrack®
# Corner Track - Combination Design




Corner Track Combination Design




Corner Track – Tab Design with Extensions




Corner Track – Tab Design without Extensions

## SolidTrack 90º Corners – Combination

### Tab Design without Extensions

**UHMW — White**

| Part Number | Chain Number | Standard Radius R | W | H |
|---|---|---|---|---|
| CHNGCCT1113NM | SS881T, D880T, D879T K3-1/4 | 18", 24", 30" | 4 | 2.00 |
| CHNGCCT1213NM | SS881T, D880T, D879T K4-1/2 | 24", 30", 36" | 5 | 2.00 |
| CHNGCCT1223NM | D882TLW K4-1/2 | 24", 30", 36" | 5 | 2.63 |
| CHNGCCT1423NM | D882TLW K7-1/2 | 24", 30", 36" | 8 | 2.63 |
| CHNGCCT1523NM | D882TLW K10 | 24", 30", 36" | 10 - _ | 2.63 |
| CHNGCCT1623NM | D882TLW K12 | 24", 30", 36" | 12 - _ | 2.63 |
| CHNGCCT1133NM | 1873T, 1874T K3-1/4 | 18", 24", 30" | 4 | 2.63 |
| CHNGCCT1233NM | 1873T, 1874T K4-1/2 | 18", 24", 30" | 5 | 2.63 |
| CHNGCCT1333NM | 1873T, 1874T K6 | 18", 24", 30" | 6 - _ | 2.63 |
| CHNGCCT1433NM | 1873T, 1874T K7-1/2 | 18", 24", 30" | 8 | 2.63 |
| CHNGCCT1533NM | 1873T, 1874T K10 | 18", 24", 30" | 10 - _ | 2.63 |
| CHNGCCT1633NM | 1873T, 1874T K12 | 18", 24", 30" | 12 – _ | 2.63 |

NOTE: 4" straight extensions on each end.
30" corner radius and above are furnished in two 45° segments.

## SolidTrack 90º Corners – Combination

### Bevel Design without Extensions

**UHMW — White**

| Part Number | Chain Number | Standard Radius R | W | H |
|---|---|---|---|---|
| CHNGCCB2113NM | SS881, D880, D879 K3-1/4 | 18", 24", 30" | 4 | 2.00 |
| CHNGCCB2213NM | SS881, D880, D879 K4-1/2 | 24", 30", 36" | 5 | 2.00 |

NOTE: 4" straight extensions on each end.
30" corner radius and above are furnished in two 45° segments.

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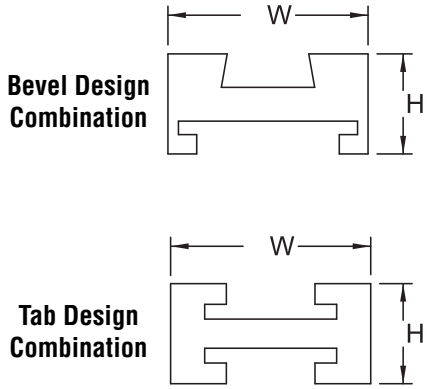
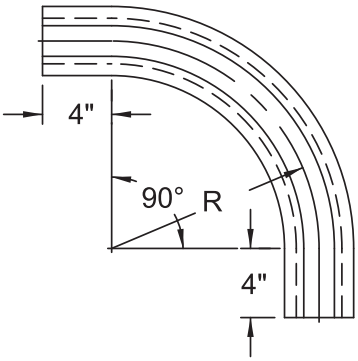
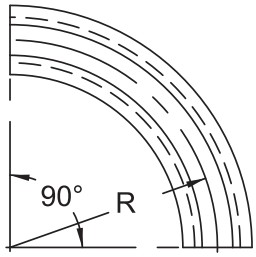
# SolidTrack®
# Corner Track - Combination Design




Corner Track Combination Design




Corner Track – Tab Design with Extensions




Corner Track – Tab Design without Extensions

## SolidTrack 90º Corners – Combination

### Tab Design with Extensions

**UHMW — White**

| Part Number | Chain Number | Standard Radius R | W | H |
|---|---|---|---|---|
| CHNGCCT1111NM | SS881T, D880T, D879T K3-1/4 | 18", 24", 30" | 4 | 2.00 |
| CHNGCCT1211NM | SS881T, D880T, D879T K4-1/2 | 24", 30", 36" | 5 | 2.00 |
| CHNGCCT1221NM | D882TLW K4-1/2 | 24", 30", 36" | 5 | 2.63 |
| CHNGCCT1421NM | D882TLW K7-1/2 | 24", 30", 36" | 8 | 2.63 |
| CHNGCCT1521NM | D882TLW K10 | 24", 30", 36" | 10 - _ | 2.63 |
| CHNGCCT1621NM | D882TLW K12 | 24", 30", 36" | 12 - _ | 2.63 |
| CHNGCCT1131NM | 1873T, 1874T K3-1/4 | 18", 24", 30" | 4 | 2.63 |
| CHNGCCT1231NM | 1873T, 1874T K4-1/2 | 18", 24", 30" | 5 | 2.63 |
| CHNGCCT1331NM | 1873T, 1874T K6 | 18", 24", 30" | 6 - _ | 2.63 |
| CHNGCCT1431NM | 1873T, 1874T K7-1/2 | 18", 24", 30" | 8 | 2.63 |
| CHNGCCT1531NM | 1873T K10 | 18", 24", 30" | 10 - _ | 2.63 |
| CHNGCCT1631NM | 1873T K12 | 18", 24", 30" | 12 – _ | 2.63 |

NOTE: 4" straight extensions on each end.
30" corner radius and above are furnished in two 45° segments.

## SolidTrack 90º Corners – Combination

### Bevel Design with Extensions

**UHMW — White**

| Part Number | Chain Number | Standard Radius R | W | H |
|---|---|---|---|---|
| CHNGCCB2111NM | SS881, D880, D879 K3-1/4 | 18", 24", 30" | 4 | 2.00 |
| CHNGCCB2211NM | SS881, D880, D879 K4-1/2 | 24", 30", 36" | 5 | 2.00 |

NOTE: 4" straight extensions on each end.
30" corner radius and above are furnished in two 45° segments.

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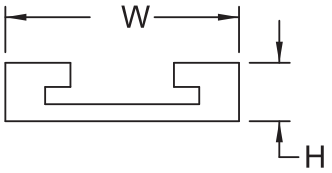
# SolidTrack® Straight Track - Tab, Bevel & Combination Design

## SolidTrack – Straight Tab Design UHMW — White

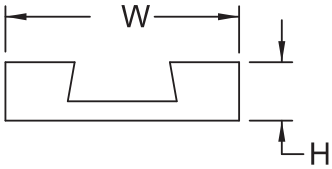
| Part Number | Chain Number | Standard Radius R | W | H |
|---|---|---|---|---|
| CHNGST1112NM | SS881T, D880T, D879T K3-1/4 | 10' | 4 | 1.00 |
| CHNGST1212NM | SS881T, D880T, D879T K4-1/2 | 10' | 5 | 1.00 |
| CHNGST1222NM | D882TLW K4-1/2 | 10' | 5 | 1.38 |
| CHNGST1422NM | D882TLW K7-1/2 | 10' | 8 | 1.38 |
| CHNGST1522NM | D882TLW K10 | 10' | 10 - _ | 1.38 |
| CHNGST1622NM | D882TLW K12 | 10' | 12 - _ | 1.38 |
| CHNGST1132NM | 1873T, 1874T, K3-1/4 | 10' | 4 | 1.38 |
| CHNGST1232NM | 1873T, 1874T, K4-1/2 | 10' | 5 | 1.38 |
| CHNGST1332NM | 1873T, 1874T, K6 | 10' | 6 - _ | 1.38 |
| CHNGST1432NM | 1873T, 1874T, K7-1/2 | 10' | 8 | 1.38 |
| CHNGST1532NM | 1873T K10 | 10' | 10 - _ | 1.38 |
| CHNGST1632NM | 1873T K12 | 10' | 12 - _ | 1.38 |




Straight Track – Tab Design

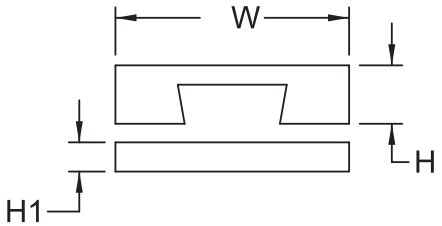
## SolidTrack Straight – Carrying Bevel Design UHMW — White

| Part Number | Chain Number | Standard Radius R | W | H |
|---|---|---|---|---|
| CHNGSB2112NM | SS881, D880, D879, K3-1/4 | 10' | 4 | 1.00 |
| CHNGSB2212NM | SS881, D880, D879, K4-1/2 | 10' | 5 | 1.00 |




## SolidTrack Straight – Return Bevel Design UHMW — White

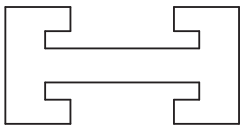
| Part Number | Chain Number | Standard Radius R | W | H | H1 |
|---|---|---|---|---|---|
| CHNGSB3112NM | SS881, D880, D879, K3-1/4 | 10' | 4 | 1.00 | 0.625 |
| CHNGSB3212NM | SS881, D880, D879, K4-1/2 | 10' | 5 | 1.00 | 0.625 |




Straight Track – Bevel Design

## SolidTrack Straight – Combination Tab Design UHMW — White

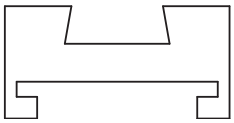
| Part Number | Chain Number | Standard Lengths |
|---|---|---|
| CHNGSC1112NM | SS881T, D880T, D879T K3-1/4 | 10' |
| CHNGSC1212NM | SS881T, D880T, D879T K4-1/2 | 10' |
| CHNGSC1222NM | D882TLW K4-1/2 | 10' |
| CHNGSC1422NM | D882TLW K7-1/2 | 10' |
| CHNGSC1522NM | D882TLW K10 | 10' |
| CHNGSC1622NM | D882TLW K12 | 10' |
| CHNGSC1132NM | 1873T, 1874T, K3-1/4 | 10' |
| CHNGSC1232NM | 1873T, 1874T, K4-1/2 | 10' |
| CHNGSC1332NM | 1873T, 1874T, K6 | 10' |
| CHNGSC1432NM | 1873T, 1874T, K7-1/2 | 10' |
| CHNGSC1532NM | 1873T K10 | 10' |
| CHNGSC1632NM | 1873T K12 | 10' |



Straight Track – Tab Design Combination

## SolidTrack Straight – Combination Bevel Design UHMW — White

| Part Number | Chain Number | Standard Lengths |
|---|---|---|
| CHNGSC2112NM | SS881, D880, D879, K3-1/4 | 10' |
| CHNGSC2212NM | SS881, D880, D879, K4-1/2 | 10' |



Straight Track – Bevel Design Combination

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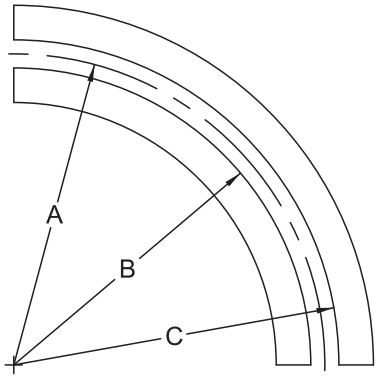
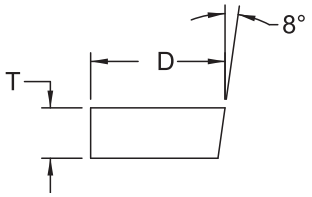
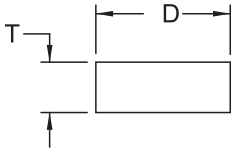
# Radius Curve Wearstrip For Flat Top Chain




Radius Curve Wearstrip




Bevel Chain Design




Tab Chain Design

## Radius Curve Wearstrip — Bevel Design — UHMW — White

| Part Number | Wearstrip No. | Chain No. | Nom. Corner Radius A | Track Radius | | Width D | Thickness T (+0, -1/16) |
|---|---|---|---|---|---|---|---|
| | | | | Inside B | Outside C | | |
| CHNGWB1813NM | U18B3 | 880, 881 | 18 | 17.1875 | 18.8125 | 1.00 | 0.375 |
| CHNGWB2413NM | U24B3 | 880, 881 | 24 | 23.1875 | 24.8125 | 1.00 | 0.375 |
| CHNGWB3013NM | U30B3 | 880, 881 | 30 | 29.1875 | 30.8125 | 1.50 | 0.375 |
| CHNGWB2415NM | U24B5 | 882 | 24 | 22.859375 | 25.140625 | 1.50 | 0.625 |
| CHNGWB3015NM | U30B5 | 882 | 30 | 28.859375 | 31.140625 | 1.50 | 0.625 |

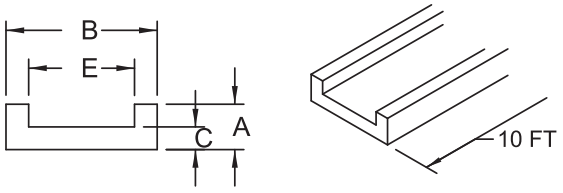
NOTE: 30" radius furnished in two 45° segments to make one 90° segment. All others are 90° segment.
Dimensions in inches.

## Radius Curve Wearstrip — Tab Design — UHMW — White

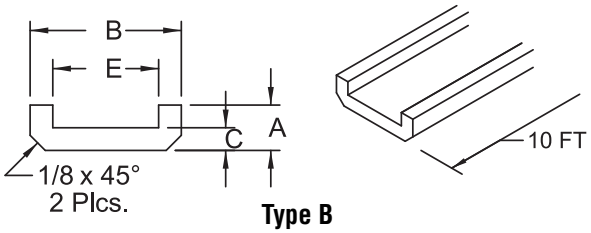
| Part Number | Wearstrip No. | Chain No. | Nom. Corner Radius A | Track Radius | | Width D | Thickness T (+0, -1/16) |
|---|---|---|---|---|---|---|---|
| | | | | Inside B | Outside C | | |
| CHNGWT1803NM | U18R3 | 880, 881 | 18 | 17.125 | 18.875 | 1.50 | 0.375 |
| CHNGWT2403NM | U24R3 | 880, 881 | 24 | 23.125 | 24.875 | 1.50 | 0.375 |
| CHNGWT3003NM | U30R3 | 880, 881 | 30 | 29.125 | 30.875 | 1.50 | 0.375 |
| CHNGWT2405NM | U24R5 | 882 | 24 | 22.859375 | 25.140625 | 1.50 | 0.625 |
| CHNGWT3005NM | U30R5 | 882 | 30 | 28.859375 | 31.140625 | 1.50 | 0.625 |
| CHNGWT1806NM | U18R6 | 1873, 1874, 3873 | 18 | 17.3125 | 18.6875 | 1.50 | 0.75 |
| CHNGWT2406NM | U24R6 | 1873, 1874, 3873 | 24 | 23.3125 | 24.6875 | 1.50 | 0.75 |
| CHNGWT3006NM | R30R6 | 1873, 1874, 3873 | 30 | 29.3125 | 30.6875 | 1.50 | 0.75 |

NOTE: 30" radius furnished in two 45° segments to make one 90° segment. All others are 90° segment.
Dimensions in inches.

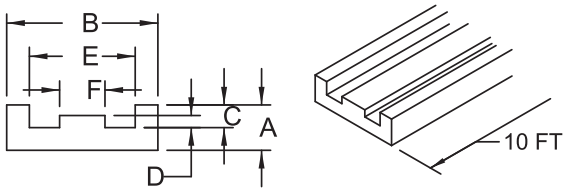
# SolidTrack® Straight Track - Tab, Bevel & Combination Design



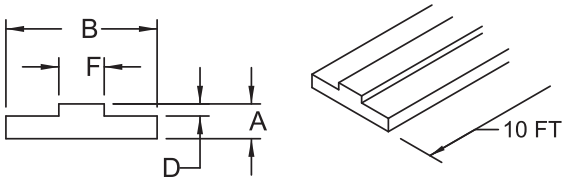

**Type A**



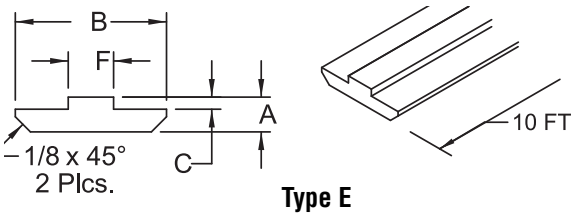

**Type B**




**Type B**




**Type D**




**Type E**
**for use with U channel**

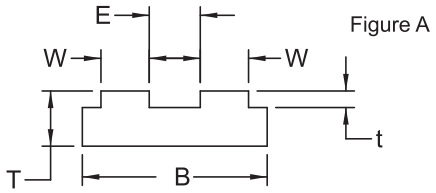
## Chain Guide Raceway

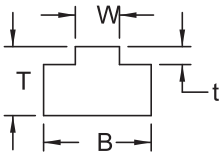
**UHMW — White**

| Part Number | Type | ANSI Chain No. | A Minimum | B Minimum | C | D | E | F |
|---|---|---|---|---|---|---|---|---|
| CHNGR1040NM | A | 2040 | 0.31 | 1.25 | 0.19 | – | 0.88 | – |
| CHNGR1050NM | A | 2050 | 0.38 | 1.25 | 0.22 | – | 1.00 | – |
| CHNGR1060NM | A | 2060 | 0.38 | 1.50 | 0.19 | – | 1.25 | – |
| CHNGR1080NM | A | 2080 | 0.50 | 2.00 | 0.25 | – | 1.56 | – |
| CHNGR1100NM | A | 2100 | 0.63 | 2.25 | 0.31 | – | 1.88 | – |
| CHNGR1120NM | A | 2120 | 0.63 | 2.75 | 0.25 | – | 2.25 | – |
| CHNGR1003NM | A | H78/S188 | 1.25 | 4.25 | 0.38 | – | 3.50 | – |
| CHNGR1004NM | A | 81X/1578 | 1.00 | 3.00 | 0.38 | – | 2.50 | – |
| CHNGR0040NM | B | 2040 | 0.31 | 1.25 | 0.19 | – | 0.88 | – |
| CHNGR0050NM | B | 2050 | 0.38 | 1.25 | 0.22 | – | 1.00 | – |
| CHNGR0060NM | B | 2060 | 0.38 | 1.50 | 0.19 | – | 1.25 | – |
| CHNGR0080NM | B | 2080 | 0.50 | 2.00 | 0.25 | – | 1.56 | – |
| CHNGR0100NM | B | 2100 | 0.63 | 2.25 | 0.31 | – | 1.88 | – |
| CHNGR0120NM | B | 2120 | 0.63 | 2.75 | 0.25 | – | 2.25 | – |
| CHNGR2040NM | C | 2040 | 0.31 | 1.00 | 0.14 | 0.08 | 0.69 | 0.25 |
| CHNGR2050NM | C | 2050 | 0.38 | 1.25 | 0.81 | 0.10 | 0.81 | 0.31 |
| CHNGR2060NM | C | 2060 | 0.50 | 1.50 | 0.21 | 0.12 | 1.13 | 0.44 |
| CHNGR2080NM | C | 2080 | 0.50 | 2.00 | 0.25 | 0.13 | 1.44 | 0.56 |
| CHNGR5040NM | D | 2040 | 0.31 | 1.00 | 0.08 | – | – | 0.25 |
| CHNGR5050NM | D | 2050 | 0.31 | 1.25 | 0.10 | – | – | 0.31 |
| CHNGR5060NM | D | 2060 | 0.31 | 1.25 | 0.12 | – | – | 0.44 |
| CHNGR5080NM | D | 2080 | 0.38 | 1.50 | 0.13 | – | – | 0.56 |
| CHNGR5100NM | D | 2100 | 0.50 | 2.00 | 0.21 | – | – | 0.69 |
| CHNGR5120NM | D | 2120 | 0.50 | 2.25 | 0.26 | – | – | 0.94 |
| CHNGR6040NM | E | 2040 | 0.31 | 1.00 | 0.80 | – | – | 0.25 |
| CHNGR6050NM | E | 2050 | 0.31 | 1.25 | 0.10 | – | – | 0.31 |
| CHNGR6060NM | E | 2060 | 0.31 | 1.25 | 0.12 | – | – | 0.44 |
| CHNGR6080NM | E | 2080 | 0.38 | 1.50 | 0.13 | – | – | 0.56 |
| CHNGR6100NM | E | 2100 | 0.50 | 2.00 | 0.21 | – | – | 0.69 |
| CHNGR6120NM | E | 2120 | 0.50 | 2.25 | 0.26 | – | – | 0.94 |

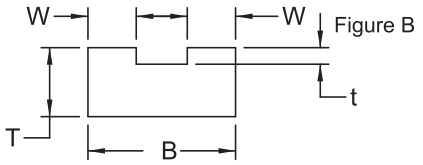
NOTE: 30" radius furnished in two 45° segments to make one 90° segment. All others are 90° segment.
Dimensions in inches.

# UltraTrac Chain Guides
# For ANSI Standard Roller Chain




UltraTrac Chain Guide – Type T




UltraTrac Chain Guide – Type TD

## Type T
### For ANSI Standard Roller Chain — UHMW — White

| Part Number | ANSI Chain No. | B | T | W | t |
|---|---|---|---|---|---|
| CHNGUTT2825NM | 25 | 0.78 | 0.59 | 0.10 | 0.09 |
| CHNGUTT2835NM | 35 | 0.78 | 0.59 | 0.17 | 0.10 |
| CHNGUTT2840NM | 40 | 0.78 | 0.59 | 0.29 | 0.10 |
| CHNGUTT2850NM | 50 | 0.78 | 0.59 | 0.36 | 0.12 |
| CHNGUTT2860NM | 60 | 1.10 | 0.59 | 0.47 | 0.15 |
| CHNGUTT2880NM | 80 | 1.34 | 0.71 | 0.60 | 0.18 |
| CHNGUTT2810NM | 100 | 1.61 | 1.00 | 0.72 | 0.26 |
| CHNGUTT2812NM | 120 | 2.01 | 1.25 | 0.96 | 0.31 |
| CHNGUTT2814NM | 140 | 2.17 | 1.50 | 0.96 | 0.36 |
| CHNGUTT2816NM | 160 | 2.61 | 1.50 | 1.21 | 0.42 |
| CHNGUTT2818NM | 180 | 2.88 | 1.50 | 1.35 | 0.47 |

NOTE: Standard guide length is 10 ft.
Diimensions in inches

## Type TD
### For Double Strand ANSI Standard Roller Chain — UHMW — White

| Part Number | ANSI Chain No. | B | T | W | t | E | Fig. |
|---|---|---|---|---|---|---|---|
| CHNGUTTD2925NM | 25-2 | 0.78 | 0.59 | 0.1 | 0.09 | 0.15 | A |
| CHNGUTTD2935NM | 35-2 | 0.78 | 0.59 | 0.17 | 0.1 | 0.23 | A |
| CHNGUTTD2940NM | 40-2 | 0.85 | 0.59 | 0.29 | 0.1 | 0.27 | B |
| CHNGUTTD2950NM | 50-2 | 1.07 | 0.59 | 0.35 | 0.12 | 0.37 | B |
| CHNGUTTD2960NM | 60-2 | 1.34 | 0.59 | 0.47 | 0.15 | 0.4 | B |
| CHNGUTTD2980NM | 80-2 | 1.75 | 0.71 | 0.6 | 0.18 | 0.55 | B |

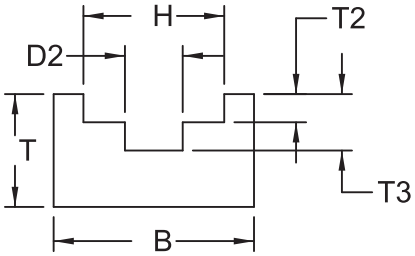
NOTE: Standard guide length is 10 ft.
Diimensions in inches

# UltraTrac Chain Guides
# For ANSI Standard Roller Chain

## Type U
### For ANSI Standard Roller Chain — UHMW — White

| Part Number | ANSI Chain No. | B | T | T2 | T3 | D2 | H |
|---|---|---|---|---|---|---|---|
| CHNGUTU3025NM | 25 | 0.78 | 0.59 | 0.09 | 0.13 | 0.12 | 0.27 |
| CHNGUTU3035NM | 35 | 0.78 | 0.59 | 0.15 | 0.22 | 0.16 | 0.39 |
| CHNGUTU3040NM | 40/2040 | 0.78 | 0.59 | 0.18 | 0.26 | 0.21 | 0.51 |
| CHNGUTU3050NM | 50/2050 | 1.10 | 0.71 | 0.24 | 0.35 | 0.28 | 0.67 |
| CHNGUTU3060NM | 60/2060 | 1.10 | 0.71 | 0.28 | 0.41 | 0.32 | 0.78 |
| CHNGUTU3080NM | 80/2080 | 1.50 | 0.79 | 0.30 | 0.47 | 0.43 | 1.04 |

NOTE: Standard guide length is 10 ft.
Diimensions in inches.

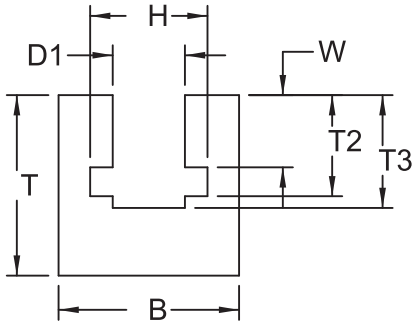


**UltraTrac Chain Guide – Type U**

## Type K
### For ANSI Standard Roller Chain — UHMW — White

| Part Number | ANSI Chain No. | B | T | T2 | T3 | D1 | H |
|---|---|---|---|---|---|---|---|
| CHNGUTK3125NM | 25 | 0.78 | 0.88 | 0.10 | 0.24 | 0.15 | 0.27 |
| CHNGUTK3135NM | 35 | 0.78 | 0.88 | 0.17 | 0.40 | 0.22 | 0.39 |
| CHNGUTK3140NM | 40/2040 | 1.10 | 1.05 | 0.29 | 0.52 | 0.33 | 0.51 |
| CHNGUTK3150NM | 50/2050 | 1.50 | 1.43 | 0.35 | 0.61 | 0.42 | 0.67 |
| CHNGUTK3160NM | 60/2060 | 1.50 | 1.85 | 0.47 | 0.88 | 0.49 | 0.78 |
| CHNGUTK3180NM | 80/2080 | 1.50 | 2.45 | 0.60 | 1.19 | 0.65 | 1.04 |

NOTE: Standard guide length is 10 ft.
Diimensions in inches.

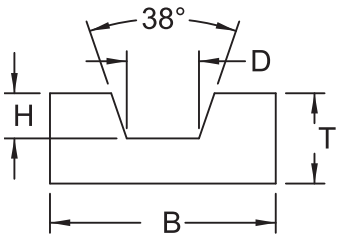


**UltraTrac Chain Guide – Type U**

## Type U
### For ANSI Standard Roller Chain — UHMW — White

| Part Number | ANSI Chain No. | B | T | T2 | T3 | D1 | H |
|---|---|---|---|---|---|---|---|
| CHNGUTU3025NM | 25 | 0.78 | 0.59 | 0.09 | 0.13 | 0.12 | 0.27 |
| CHNGUTU3035NM | 35 | 0.78 | 0.59 | 0.15 | 0.22 | 0.16 | 0.39 |
| CHNGUTU3040NM | 40/2040 | 0.78 | 0.59 | 0.18 | 0.26 | 0.21 | 0.51 |
| CHNGUTU3050NM | 50/2050 | 1.10 | 0.71 | 0.24 | 0.35 | 0.28 | 0.67 |
| CHNGUTU3060NM | 60/2060 | 1.10 | 0.71 | 0.28 | 0.41 | 0.32 | 0.78 |
| CHNGUTU3080NM | 80/2080 | 1.50 | 0.79 | 0.30 | 0.47 | 0.43 | 1.04 |

NOTE: Standard guide length is 10 ft.
Diimensions in inches.



**UltraTrac Chain Guide – Type U**

# UltraTrac Chain Guides For ANSI Standard Roller Chain

| MATERIAL | COMMON APPLICATIONS |
|---|---|
| **UHMW** | |
| • Excellent abrasion resistance<br>• Low co-efficient of friction<br>• Shear strength of approximately 3,500 psi<br>• Flexural mod. of approximately 125,000 psi<br>• Economical<br>• Floats in water<br>• Two common types:<br>» Natural virgin<br>– Food applications<br>» Black reprocessed<br>– Resistant to UV degradation<br>– Slightly less expensive<br>– May have multi-colored specks | • Wear strips<br>• Chain guide<br>• Conveyor beds<br>• Large structural components<br>• RC sprockets (usually 50 series and larger)<br>• Mill Sprockets (Engineering Class) (nearly always black reprocessed UHMW)<br>• Bushings |
| **Nylon** | |
| • Good abrasion resistance<br>• Excellent PV value for bearing applications<br>• Shear strength of approximately 10,500 psi<br>• Flexural mod. of approximately 500,000 psi<br>• Mid-priced<br>• Does not float in water<br>• Will absorb moisture resulting in dimensional changes and reduced strength<br>• Several common types:<br>» Natural<br>– Food applications<br>» MD filled (dark grey color)<br>– High load bushings<br>» Oil-filled (natural or green color)<br>– Gears, bushings, other sliding wear components | • High temperature wear strips<br>• Small structural components<br>• Bushings<br>• Spur Gears<br>• RC sprockets (usually 50 series and smaller) |
| **Acetal** | |
| • Typically used for structural components<br>• Not great for wear applications<br>• Shear strength of approximately 8,000 psi<br>• Flexural mod. of approximately 400,000 psi<br>• Mid-priced<br>• Does not float in water<br>• Does not absorb moisture, good dimensional stability<br>• Also known as DuPont® Delrin® acetal resin.<br>• Available in white, or black. | • High temperature wear strips<br>• Small structural components<br>• RC sprockets (usually 50 series and smaller).<br>• Bushings<br>• Spur gears<br>• Components of food processing equipment exposed to wet environments clamps, rollers, dies. |

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# Notes

# GENERAL ENGINEERING INFORMATION


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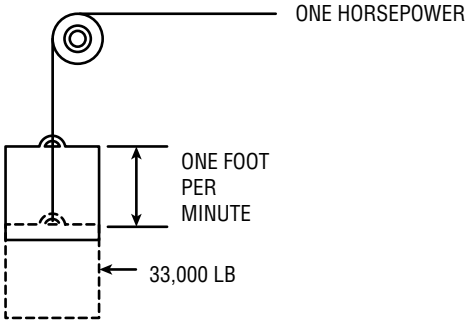
# Horsepower/Torque

## Horsepower

One HP is the rate of work required to raise 33,000 pounds one foot in one minute.




$$HP = \frac{\text{Force} \times \text{FPM}}{33{,}000}$$

$$HP = \frac{\text{Torque (in Pound-Inches)} \times \text{RPM}}{63{,}025}$$

$$HP = \frac{\text{Torque (in Pound-Feet)} \times \text{RPM}}{5{,}252}$$

**Torque:** The twisting or turning effort around a shaft tending to cause rotation. Torque is determined by multiplying the applied force times the distance from the point where force is applied to the shaft center.

TQ = F (force) × R (radius)

$$\text{Torque (in pound-inches)} = \frac{63{,}025 \times \text{HP}}{\text{RPM}}$$

$$= \text{Force} \times \text{Lever Arm (in Inches)}$$

$$\text{Torque (in pound-feet)} = \frac{5{,}252 \times \text{HP}}{\text{RPM}}$$

$$= \text{Force} \times \text{Lever Arm (in Feet)}$$

Force = Working loads in pounds
FPM = Feet per minute
RPM = Revolutions per minute
Lever Arm = Distance from the force to the center of rotation on inches or feet

**Torque Calculation Example**

20 HP at 100 RPM = 12,605 pound-inches Torque

2.0 HP at 10 RPM = 12,605 pound-inches Torque

### Overhung Loads

An overhung load is a bending force imposed on a shaft due to the torque transmitted by v-drives, chain drives, and other power transmission devices, other than flexible couplings.

Most motor and reducer manufacturers list the maximum values allowable for overhung loads. It is desirable that these figures be compared with the load actually imposed by the connected drive.

Overhung loads may be calculated as follows:

$$\text{O.H.L.} = \frac{63{,}000 \times \text{HP} \times \text{F}}{\text{N} \times \text{R}}$$

Where:
HP = Transmitted HP × Service Factor
N = RPM of shaft
R = Radius of sprocket, pulley, etc.
F = Factor

Weights of the drive components are usually negligible. The formula is based on the assumption that the load is applied at a point equal to one shaft diameter from the bearing face. Factor F depends on the type of drive used:

F =
1.00 for single chain drives
1.10 for timing belt drives
1.25 for spur or helical gear or double chain drives
1.50 for v-belt drives
2.50 for flat belt drives

**Example:** Find the overhung load imposed on a reducer by a double chain drive transmitting 7 HP @ 30 RPM. The pitch diameter of the sprocket is 10"; service factor is 1.3.

$$\text{O.H.L.} = \frac{(63{,}000)(7 \times 1.3)\ (1.25)}{(30) \times (5)} = 4{,}780 \text{ lbs}$$

**Horsepower/Speed/Torque Relationships**

| HP | Speed (RPM) | Torque |
|---|---|---|
| Constant | Increases | Decreases |
| Constant | Decreases | Increases |
| Increases | Constant | Increases |
| Decreases | Constant | Decreases |
| Increases | Increases | Constant |
| Decreases | Decreases | Constant |

# Torque (in Pound-Inches) For Horsepower/RPM

## Torque for 1-50 HP @ 50-220 RPM

| HP | Revolutions Per Minute | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 |
| 1 | 1261 | 1050 | 900 | 788 | 700 | 630 | 573 | 525 | 485 | 450 | 420 | 394 | 371 | 350 | 332 | 315 | 300 | 286 |
| 2 | 2521 | 2101 | 1801 | 1576 | 1401 | 1260 | 1145 | 1050 | 969 | 900 | 840 | 787 | 741 | 700 | 663 | 630 | 600 | 572 |
| 3 | 3782 | 3151 | 2701 | 2363 | 2101 | 1890 | 1718 | 1575 | 1454 | 1350 | 1260 | 1181 | 1112 | 1050 | 995 | 945 | 900 | 859 |
| 4 | 5042 | 4202 | 3601 | 3151 | 2801 | 2521 | 2291 | 2100 | 1939 | 1800 | 1680 | 1575 | 1482 | 1400 | 1326 | 1260 | 1200 | 1145 |
| 5 | 6303 | 5252 | 4502 | 3939 | 3501 | 3151 | 2864 | 2626 | 2424 | 2250 | 2100 | 1969 | 1853 | 1750 | 1658 | 1575 | 1500 | 1432 |
| 6 | 7563 | 6303 | 5402 | 4727 | 4202 | 3781 | 3437 | 3151 | 2908 | 2701 | 2521 | 2363 | 2224 | 2100 | 1990 | 1890 | 1800 | 1718 |
| 7 | 8824 | 7353 | 6302 | 5515 | 4902 | 4411 | 4010 | 3676 | 3393 | 3151 | 2941 | 2757 | 2595 | 2450 | 2321 | 2205 | 2100 | 2005 |
| 8 | 10084 | 8403 | 7203 | 6303 | 5602 | 5042 | 4583 | 4201 | 3878 | 3601 | 3361 | 3151 | 2965 | 2801 | 2653 | 2521 | 2400 | 2291 |
| 9 | 11345 | 9454 | 8103 | 7090 | 6303 | 5672 | 5156 | 4726 | 4363 | 4051 | 3781 | 3545 | 3336 | 3151 | 2985 | 2836 | 2701 | 2578 |
| 10 | 12605 | 10504 | 9004 | 7878 | 7003 | 6302 | 5729 | 5252 | 4848 | 4501 | 4201 | 3939 | 3707 | 3501 | 3317 | 3151 | 3001 | 2864 |
| 11 | 13866 | 11555 | 9904 | 8666 | 7703 | 6932 | 6302 | 5777 | 5332 | 4951 | 4621 | 4332 | 4078 | 3851 | 3648 | 3466 | 3301 | 3151 |
| 12 | 15126 | 12605 | 10804 | 9454 | 8403 | 7563 | 6875 | 6302 | 5817 | 5402 | 5042 | 4726 | 4448 | 4201 | 3980 | 3781 | 3601 | 3437 |
| 13 | 16387 | 13655 | 11705 | 10242 | 9104 | 8193 | 7448 | 6827 | 6302 | 5852 | 5462 | 5120 | 4819 | 4551 | 4312 | 4096 | 3901 | 3724 |
| 14 | 17647 | 14706 | 12605 | 11029 | 9804 | 8823 | 8021 | 7352 | 6787 | 6302 | 5882 | 5514 | 5190 | 4901 | 4643 | 4411 | 4201 | 4010 |
| 15 | 18908 | 15756 | 13505 | 11817 | 10504 | 9453 | 8594 | 7878 | 7272 | 6752 | 6302 | 5908 | 5561 | 5252 | 4975 | 4726 | 4501 | 4297 |
| 16 | 20168 | 16807 | 14406 | 12605 | 11204 | 10084 | 9167 | 8403 | 7756 | 7202 | 6722 | 6302 | 5931 | 5602 | 5307 | 5042 | 4801 | 4583 |
| 17 | 21429 | 17857 | 15306 | 13393 | 11905 | 10714 | 9740 | 8928 | 8241 | 7653 | 7142 | 6696 | 6302 | 5952 | 5639 | 5357 | 5102 | 4870 |
| 18 | 22689 | 18908 | 16206 | 14181 | 12605 | 11344 | 10313 | 9453 | 8726 | 8103 | 7563 | 7090 | 6673 | 6302 | 5970 | 5672 | 5402 | 5156 |
| 19 | 23950 | 19958 | 17107 | 14968 | 13305 | 11974 | 10886 | 9979 | 9211 | 8553 | 7983 | 7484 | 7044 | 6652 | 6302 | 5987 | 5702 | 5443 |
| 20 | 25210 | 21008 | 18007 | 15756 | 14006 | 12605 | 11459 | 10504 | 9696 | 9003 | 8403 | 7878 | 7414 | 7002 | 6634 | 6302 | 6002 | 5729 |
| 21 | 26471 | 22059 | 18907 | 16544 | 14706 | 13235 | 12032 | 11029 | 10181 | 9453 | 8823 | 8272 | 7785 | 7352 | 6965 | 6617 | 6302 | 6016 |
| 22 | 27731 | 23109 | 19808 | 17332 | 15406 | 13865 | 12605 | 11554 | 10665 | 9903 | 9243 | 8665 | 8156 | 7703 | 7297 | 6932 | 6602 | 6302 |
| 23 | 28992 | 24160 | 20708 | 18120 | 16106 | 14495 | 13178 | 12079 | 11150 | 10354 | 9663 | 9059 | 8526 | 8053 | 7629 | 7247 | 6902 | 6588 |
| 24 | 30252 | 25210 | 21609 | 18908 | 16807 | 15126 | 13750 | 12605 | 11635 | 10804 | 10084 | 9453 | 8897 | 8403 | 7961 | 7563 | 7202 | 6875 |
| 25 | 31513 | 26260 | 22509 | 19695 | 17507 | 15756 | 14323 | 13130 | 12120 | 11254 | 10504 | 9847 | 9268 | 8753 | 8292 | 7878 | 7503 | 7161 |
| 26 | 32773 | 27311 | 23409 | 20483 | 18207 | 16386 | 14896 | 13655 | 12605 | 11704 | 10924 | 10241 | 9639 | 9103 | 8624 | 8193 | 7803 | 7448 |
| 27 | 34034 | 28361 | 24310 | 21271 | 18908 | 17016 | 15469 | 14180 | 13089 | 12154 | 11344 | 10635 | 10009 | 9453 | 8956 | 8508 | 8103 | 7734 |
| 28 | 35294 | 29412 | 25210 | 22059 | 19608 | 17647 | 16042 | 14705 | 13574 | 12605 | 11764 | 11029 | 10380 | 9803 | 9287 | 8823 | 8403 | 8021 |
| 29 | 36555 | 30462 | 26110 | 22847 | 20308 | 18277 | 16615 | 15231 | 14059 | 13055 | 12184 | 11423 | 10751 | 10154 | 9619 | 9138 | 8703 | 8307 |
| 30 | 37815 | 31513 | 27011 | 23634 | 21008 | 18907 | 17188 | 15756 | 14544 | 13505 | 12605 | 11817 | 11122 | 10504 | 9951 | 9453 | 9003 | 8594 |
| 31 | 39076 | 32563 | 27911 | 24422 | 21709 | 19537 | 17761 | 16281 | 15029 | 13955 | 13025 | 12211 | 11492 | 10854 | 10283 | 9768 | 9303 | 8880 |
| 32 | 40336 | 33613 | 28811 | 25210 | 22409 | 20168 | 18334 | 16806 | 15513 | 14405 | 13445 | 12605 | 11863 | 11204 | 10614 | 10084 | 9603 | 9167 |
| 33 | 41597 | 34664 | 29712 | 25998 | 23109 | 20798 | 18907 | 17331 | 15998 | 14855 | 13865 | 12998 | 12234 | 11554 | 10946 | 10399 | 9903 | 9453 |
| 34 | 42857 | 35714 | 30612 | 26786 | 23809 | 21428 | 19480 | 17857 | 16483 | 15306 | 14285 | 13392 | 12605 | 11904 | 11278 | 10714 | 10204 | 9740 |
| 35 | 44118 | 36767 | 31512 | 27573 | 24510 | 22058 | 20053 | 18382 | 16968 | 15756 | 14705 | 13786 | 12975 | 12254 | 11609 | 11029 | 10504 | 10026 |
| 36 | 45378 | 37815 | 32413 | 28361 | 25210 | 22689 | 20626 | 18907 | 17453 | 16206 | 15126 | 14180 | 13346 | 12605 | 11941 | 11344 | 10804 | 10313 |
| 37 | 46639 | 38865 | 33313 | 29149 | 25910 | 23319 | 21199 | 19432 | 17937 | 16656 | 15546 | 14574 | 13717 | 12955 | 12273 | 11659 | 11104 | 10599 |
| 38 | 47889 | 39916 | 34214 | 29937 | 26611 | 23949 | 21772 | 19958 | 18422 | 17106 | 15966 | 14968 | 14088 | 13305 | 12605 | 11974 | 11404 | 10886 |
| 39 | 49160 | 40996 | 35114 | 30725 | 27311 | 24579 | 22345 | 20483 | 18907 | 17557 | 16386 | 15362 | 14458 | 13655 | 12936 | 12289 | 11704 | 11172 |
| 40 | 50420 | 42017 | 36014 | 31513 | 28011 | 25210 | 22918 | 21008 | 19392 | 18007 | 16806 | 15756 | 14829 | 14005 | 13268 | 12605 | 12004 | 11459 |
| 41 | 51681 | 43067 | 36915 | 32300 | 28711 | 25840 | 23491 | 21533 | 19877 | 18457 | 17226 | 16150 | 15200 | 14355 | 13600 | 12920 | 12304 | 11745 |
| 42 | 52941 | 44118 | 37815 | 33088 | 29412 | 26470 | 24064 | 22058 | 20362 | 18907 | 17647 | 16544 | 15570 | 14705 | 13931 | 13235 | 12605 | 12032 |
| 43 | 54202 | 45168 | 38715 | 33876 | 30112 | 27100 | 24637 | 22584 | 20846 | 19357 | 18067 | 16938 | 15941 | 15056 | 14263 | 13550 | 12905 | 12318 |
| 44 | 55462 | 46218 | 39616 | 34664 | 30812 | 27731 | 25210 | 23109 | 21331 | 19807 | 18487 | 17331 | 16312 | 15406 | 14595 | 13865 | 13205 | 12605 |
| 45 | 56723 | 47269 | 40516 | 35452 | 31513 | 28361 | 25783 | 23634 | 21816 | 20258 | 18907 | 17725 | 16683 | 15756 | 14927 | 14180 | 13505 | 12891 |
| 46 | 57383 | 48319 | 41416 | 36239 | 32213 | 28991 | 26356 | 24159 | 22301 | 20708 | 19327 | 18119 | 17053 | 16106 | 15258 | 14495 | 13805 | 13177 |
| 47 | 59244 | 49370 | 42317 | 37027 | 32913 | 29621 | 26928 | 24684 | 22786 | 21158 | 19747 | 18513 | 17424 | 16456 | 15590 | 14810 | 14105 | 13464 |
| 48 | 60504 | 50420 | 43217 | 37815 | 33613 | 30252 | 27501 | 25210 | 23270 | 21608 | 20168 | 18907 | 17795 | 16806 | 14922 | 15126 | 14405 | 13750 |
| 49 | 61764 | 51470 | 44117 | 38603 | 34314 | 30882 | 28074 | 25735 | 23755 | 22058 | 20588 | 19301 | 18166 | 17156 | 16253 | 15441 | 14705 | 14037 |
| 50 | 63025 | 52521 | 45018 | 39319 | 35014 | 31512 | 28647 | 26260 | 24240 | 22509 | 21008 | 19695 | 18536 | 17507 | 16585 | 15756 | 15006 | 14323 |

# Torque (in Pound-Inches) For Horsepower/RPM

## Torque for 1-50 HP @ 230-1000 RPM

| HP | Revolutions Per Minute | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 800 | 900 | 1000 |
| 1 | 274 | 263 | 252 | 242 | 233 | 225 | 217 | 210 | 180 | 157 | 140 | 126 | 114 | 105 | 96 | 90 | 78 | 70 | 63 |
| 2 | 548 | 525 | 504 | 484 | 466 | 450 | 434 | 420 | 360 | 315 | 280 | 252 | 229 | 210 | 193 | 180 | 157 | 140 | 126 |
| 3 | 822 | 787 | 756 | 727 | 700 | 675 | 651 | 630 | 540 | 472 | 420 | 378 | 343 | 315 | 290 | 270 | 236 | 210 | 189 |
| 4 | 1096 | 1050 | 1008 | 969 | 933 | 900 | 869 | 840 | 720 | 630 | 560 | 504 | 458 | 420 | 387 | 360 | 315 | 280 | 252 |
| 5 | 1370 | 1313 | 1260 | 1212 | 1167 | 1125 | 1087 | 1050 | 900 | 787 | 700 | 630 | 572 | 525 | 484 | 450 | 393 | 350 | 315 |
| 6 | 1644 | 1575 | 1512 | 1454 | 1401 | 1350 | 1303 | 1260 | 1080 | 945 | 840 | 756 | 687 | 630 | 581 | 540 | 472 | 420 | 378 |
| 7 | 1918 | 1838 | 1764 | 1696 | 1633 | 1575 | 1521 | 1470 | 1260 | 1102 | 980 | 882 | 802 | 735 | 678 | 630 | 551 | 490 | 441 |
| 8 | 2192 | 2100 | 2016 | 1939 | 1867 | 1800 | 1738 | 1680 | 1440 | 1260 | 1120 | 1008 | 916 | 840 | 775 | 720 | 630 | 560 | 504 |
| 9 | 2466 | 2363 | 2268 | 2181 | 2100 | 2025 | 1955 | 1890 | 1620 | 1418 | 1260 | 1134 | 1031 | 945 | 872 | 810 | 709 | 630 | 567 |
| 10 | 2740 | 2626 | 2521 | 2424 | 2334 | 2250 | 2173 | 2100 | 1800 | 1575 | 1400 | 1260 | 1145 | 1050 | 969 | 900 | 787 | 700 | 630 |
| 11 | 3014 | 2888 | 2773 | 2666 | 2567 | 2475 | 2390 | 2310 | 1980 | 1733 | 1540 | 1386 | 1260 | 1155 | 1066 | 990 | 866 | 770 | 693 |
| 12 | 3288 | 3151 | 3025 | 2908 | 2801 | 2701 | 2607 | 2521 | 2160 | 1890 | 1680 | 1512 | 1375 | 1260 | 1163 | 1080 | 945 | 840 | 756 |
| 13 | 3562 | 3413 | 3277 | 3151 | 3034 | 2926 | 2825 | 2731 | 2340 | 2048 | 1820 | 1638 | 1489 | 1365 | 1260 | 1170 | 1024 | 910 | 819 |
| 14 | 3836 | 3676 | 3529 | 3393 | 3267 | 3151 | 3042 | 2941 | 2521 | 2205 | 1960 | 1764 | 1604 | 1470 | 1357 | 1260 | 1102 | 980 | 882 |
| 15 | 4110 | 3939 | 3781 | 3636 | 3501 | 3376 | 3259 | 3151 | 2701 | 2363 | 2100 | 1890 | 1718 | 1575 | 1454 | 1350 | 1181 | 1050 | 945 |
| 16 | 4384 | 4201 | 4033 | 3878 | 3734 | 3601 | 3477 | 3361 | 2881 | 2521 | 2240 | 2016 | 1833 | 1680 | 1551 | 1440 | 1260 | 1120 | 1008 |
| 17 | 4658 | 4464 | 4285 | 4120 | 3968 | 3826 | 3694 | 3571 | 3061 | 2678 | 2380 | 2142 | 1948 | 1785 | 1648 | 1530 | 1339 | 1190 | 1071 |
| 18 | 4932 | 4726 | 4537 | 4363 | 4201 | 4051 | 3911 | 3781 | 3241 | 2836 | 2521 | 2268 | 2062 | 1890 | 1745 | 1620 | 1418 | 1260 | 1134 |
| 19 | 5206 | 4989 | 4789 | 4605 | 4435 | 4276 | 4129 | 3991 | 3421 | 2993 | 2661 | 2394 | 2177 | 1995 | 1842 | 1710 | 1496 | 1330 | 1197 |
| 20 | 5480 | 5252 | 5042 | 4848 | 4668 | 4501 | 4346 | 4201 | 3601 | 3151 | 2801 | 2521 | 2291 | 2100 | 1939 | 1800 | 1575 | 1400 | 1260 |
| 21 | 5754 | 5514 | 5294 | 5090 | 4901 | 4726 | 4563 | 4411 | 3781 | 3308 | 2941 | 2647 | 2406 | 2205 | 2036 | 1890 | 1654 | 1470 | 1323 |
| 22 | 6028 | 5777 | 5546 | 5332 | 5135 | 4951 | 4781 | 4621 | 3961 | 3466 | 3081 | 2773 | 2521 | 2310 | 2133 | 1980 | 1733 | 1540 | 1386 |
| 23 | 6302 | 6039 | 5798 | 5575 | 5368 | 5177 | 4998 | 4831 | 4141 | 3623 | 3221 | 2899 | 2635 | 2415 | 2230 | 2070 | 1811 | 1610 | 1449 |
| 24 | 6576 | 6302 | 6050 | 5817 | 5602 | 5402 | 5215 | 5042 | 4321 | 3781 | 3361 | 3025 | 2750 | 2521 | 2327 | 2160 | 1890 | 1680 | 1512 |
| 25 | 6850 | 6565 | 6302 | 6060 | 5835 | 5627 | 5433 | 5252 | 4501 | 3939 | 3501 | 3151 | 2864 | 2626 | 2424 | 2250 | 1969 | 1750 | 1575 |
| 26 | 7124 | 6827 | 6554 | 6302 | 6069 | 5852 | 5650 | 5462 | 4681 | 4096 | 3641 | 3277 | 2979 | 2731 | 2521 | 2340 | 2048 | 1820 | 1638 |
| 27 | 7398 | 7090 | 6806 | 6544 | 6302 | 6077 | 5867 | 5672 | 4861 | 4254 | 3781 | 3403 | 3093 | 2836 | 2617 | 2430 | 2127 | 1890 | 1701 |
| 28 | 7672 | 7352 | 7058 | 6787 | 6535 | 6302 | 6085 | 5882 | 5042 | 4411 | 3921 | 3529 | 3208 | 2941 | 2714 | 2521 | 2205 | 1960 | 1764 |
| 29 | 7946 | 7615 | 7310 | 7029 | 6769 | 6527 | 6302 | 6092 | 5222 | 4569 | 4061 | 3655 | 3323 | 3046 | 2811 | 2611 | 2284 | 2030 | 1827 |
| 30 | 8220 | 7878 | 7563 | 7272 | 7002 | 6752 | 6519 | 6302 | 5402 | 4726 | 4201 | 3781 | 3437 | 3151 | 2908 | 2701 | 2363 | 2100 | 1890 |
| 31 | 8494 | 8140 | 7815 | 7514 | 7236 | 6977 | 6737 | 6512 | 5582 | 4884 | 4341 | 3907 | 3552 | 3256 | 3005 | 2791 | 2442 | 2170 | 1953 |
| 32 | 8768 | 8403 | 8067 | 7756 | 7469 | 7202 | 6954 | 6722 | 5762 | 5042 | 4481 | 4033 | 3666 | 3361 | 3102 | 2881 | 2520 | 2240 | 2016 |
| 33 | 9042 | 8665 | 8319 | 7999 | 7703 | 7427 | 7171 | 6932 | 5942 | 5199 | 4621 | 4159 | 3781 | 3466 | 3199 | 2971 | 2599 | 2310 | 2079 |
| 34 | 9316 | 8928 | 8571 | 8241 | 7936 | 7653 | 7389 | 7142 | 6122 | 5357 | 4761 | 4285 | 3896 | 3571 | 3296 | 3061 | 2678 | 2380 | 2142 |
| 35 | 9590 | 9191 | 8823 | 8484 | 8169 | 7878 | 7606 | 7352 | 6302 | 5514 | 4901 | 4411 | 4010 | 3676 | 3393 | 3151 | 2757 | 2450 | 2205 |
| 36 | 9864 | 9453 | 9075 | 8726 | 8403 | 8103 | 7823 | 7563 | 6482 | 5672 | 5042 | 4537 | 4125 | 3781 | 3490 | 3241 | 2836 | 2521 | 2268 |
| 37 | 10138 | 9716 | 9327 | 8968 | 8636 | 8328 | 8041 | 7773 | 6662 | 5829 | 5182 | 4663 | 4239 | 3886 | 3587 | 3331 | 2913 | 2591 | 2331 |
| 38 | 10412 | 9978 | 9579 | 9211 | 8870 | 8553 | 8258 | 7983 | 6842 | 5987 | 5322 | 4789 | 4354 | 3991 | 3684 | 3421 | 2993 | 2661 | 2394 |
| 39 | 10686 | 10241 | 9831 | 9453 | 9103 | 8778 | 8475 | 8193 | 7022 | 6144 | 5462 | 4915 | 4469 | 4096 | 3781 | 3511 | 3072 | 2731 | 2457 |
| 40 | 10960 | 10504 | 10084 | 9696 | 9337 | 9003 | 8693 | 8403 | 7202 | 6302 | 5602 | 5042 | 4583 | 4201 | 3878 | 3601 | 3151 | 2801 | 2521 |
| 41 | 11234 | 10766 | 10336 | 9938 | 9570 | 9228 | 8910 | 8613 | 7382 | 6460 | 5742 | 5168 | 4698 | 4306 | 3975 | 3691 | 3230 | 2871 | 2584 |
| 42 | 11508 | 11029 | 10588 | 10181 | 9803 | 9453 | 9127 | 8823 | 7563 | 6617 | 5882 | 5294 | 4812 | 4411 | 4072 | 3781 | 3308 | 2941 | 2647 |
| 43 | 11782 | 11292 | 10840 | 10423 | 10037 | 9678 | 9345 | 9033 | 7743 | 6775 | 6022 | 5420 | 4927 | 4516 | 4169 | 3871 | 3387 | 3011 | 2710 |
| 44 | 12057 | 11554 | 11092 | 10665 | 10270 | 9903 | 9562 | 9243 | 7923 | 6932 | 6162 | 5546 | 5042 | 4621 | 4266 | 3961 | 3466 | 3081 | 2773 |
| 45 | 12331 | 11817 | 11344 | 10908 | 10504 | 10129 | 9779 | 9453 | 8103 | 7090 | 6302 | 5672 | 5156 | 4726 | 4363 | 4051 | 3545 | 3151 | 2836 |
| 46 | 12605 | 12079 | 11596 | 11150 | 10737 | 10354 | 9997 | 9963 | 8283 | 7247 | 6442 | 5798 | 5271 | 4831 | 4460 | 4141 | 3623 | 3221 | 2899 |
| 47 | 12879 | 12342 | 11848 | 11393 | 10971 | 10579 | 10214 | 9873 | 8463 | 7405 | 6582 | 5924 | 5385 | 4936 | 4557 | 4231 | 3702 | 3291 | 2962 |
| 48 | 13153 | 12605 | 12100 | 11635 | 11204 | 10804 | 10431 | 10084 | 8643 | 7563 | 6722 | 6050 | 5500 | 5042 | 4654 | 4321 | 3781 | 3361 | 3025 |
| 49 | 13427 | 12867 | 12352 | 11877 | 11437 | 11029 | 10649 | 10294 | 8823 | 7720 | 6862 | 6176 | 5614 | 5147 | 4751 | 4411 | 3860 | 3431 | 3088 |
| 50 | 13701 | 13130 | 12605 | 12120 | 11671 | 11254 | 10866 | 10504 | 9003 | 7878 | 7002 | 6302 | 5729 | 5252 | 4848 | 4501 | 3939 | 3501 | 3151 |

# Torque (in Pound-Inches) For Horsepower/RPM

## Torque for 51-100 HP @ 50-220 RPM

| HP | Revolutions Per Minute | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 |
| 51 | 64286 | 53571 | 45918 | 40178 | 35714 | 32142 | 29220 | 26785 | 24725 | 22959 | 21428 | 20089 | 18907 | 17857 | 16917 | 16071 | 15306 | 14610 |
| 52 | 65546 | 54622 | 46819 | 40966 | 36414 | 32773 | 29793 | 27310 | 25210 | 23409 | 21848 | 20483 | 19278 | 18207 | 17249 | 16386 | 15606 | 14896 |
| 53 | 66807 | 55672 | 47719 | 41754 | 37115 | 33403 | 30366 | 27836 | 25694 | 23859 | 22268 | 20877 | 19649 | 18557 | 17580 | 16701 | 15906 | 15183 |
| 54 | 68067 | 56723 | 48619 | 42542 | 37815 | 34033 | 30939 | 28361 | 26179 | 24309 | 22689 | 21271 | 20019 | 18907 | 17912 | 17016 | 16206 | 15469 |
| 55 | 69328 | 57773 | 49520 | 43330 | 38515 | 34663 | 31512 | 28886 | 26664 | 24760 | 23109 | 21664 | 20390 | 19257 | 18244 | 17331 | 16506 | 15756 |
| 56 | 70588 | 58823 | 50420 | 44118 | 39216 | 35294 | 32085 | 29411 | 27149 | 25210 | 23529 | 22058 | 20761 | 19607 | 18575 | 17647 | 16806 | 16042 |
| 57 | 71849 | 59874 | 51320 | 44905 | 39916 | 35924 | 32658 | 29937 | 27634 | 25660 | 23950 | 22452 | 21132 | 19957 | 18907 | 17962 | 17106 | 16329 |
| 58 | 73109 | 60924 | 52221 | 45693 | 40616 | 36554 | 33231 | 30462 | 28118 | 26110 | 24370 | 22846 | 21502 | 20308 | 19239 | 18277 | 17406 | 16615 |
| 59 | 74370 | 61975 | 53121 | 46481 | 41316 | 37184 | 33804 | 30987 | 28603 | 26560 | 24790 | 23240 | 21873 | 20658 | 19571 | 18592 | 17707 | 16902 |
| 60 | 75630 | 63025 | 54021 | 47269 | 42017 | 37815 | 34377 | 31512 | 29088 | 27010 | 25210 | 23634 | 22244 | 21008 | 19902 | 18907 | 18007 | 17188 |
| 61 | 76891 | 64075 | 54922 | 48057 | 42717 | 38445 | 34950 | 32037 | 29573 | 27461 | 25630 | 24028 | 22614 | 21358 | 20234 | 19222 | 18307 | 17475 |
| 62 | 78151 | 65126 | 55822 | 48844 | 43417 | 39075 | 35523 | 32563 | 30058 | 27911 | 26050 | 24422 | 22985 | 21708 | 20566 | 19537 | 18607 | 17761 |
| 63 | 79412 | 66176 | 56722 | 49632 | 44118 | 39705 | 36096 | 33088 | 30543 | 28361 | 26470 | 24816 | 23356 | 22058 | 20897 | 19852 | 18907 | 18048 |
| 64 | 80672 | 67227 | 57623 | 50420 | 44818 | 40336 | 36669 | 33613 | 31027 | 28811 | 26890 | 25210 | 23727 | 22408 | 21229 | 20168 | 19207 | 18334 |
| 65 | 81933 | 68277 | 58523 | 51208 | 45518 | 40966 | 37242 | 34138 | 31512 | 29261 | 27310 | 25604 | 24097 | 22759 | 21561 | 20483 | 19507 | 18621 |
| 66 | 83193 | 69328 | 59423 | 51996 | 46218 | 41596 | 37815 | 34663 | 31997 | 29711 | 27731 | 25997 | 24468 | 23109 | 21892 | 20798 | 19807 | 18907 |
| 67 | 84454 | 70378 | 60324 | 52783 | 46919 | 42226 | 38388 | 35189 | 32482 | 30162 | 28151 | 26391 | 24839 | 23459 | 22224 | 21113 | 20108 | 19194 |
| 68 | 85714 | 71428 | 61224 | 53571 | 47619 | 42857 | 38961 | 35714 | 32967 | 30612 | 28571 | 26785 | 25210 | 23809 | 22556 | 21428 | 20408 | 19480 |
| 69 | 86975 | 72479 | 72125 | 54359 | 48319 | 43487 | 39534 | 36239 | 33451 | 31062 | 28991 | 27179 | 25580 | 24159 | 22888 | 21743 | 20708 | 19766 |
| 70 | 88235 | 73529 | 63025 | 55147 | 49019 | 44117 | 40106 | 36764 | 33936 | 31512 | 29411 | 27573 | 25951 | 24509 | 23219 | 22058 | 21008 | 20053 |
| 71 | 89496 | 74580 | 63925 | 55935 | 49720 | 44747 | 40679 | 37289 | 34421 | 31962 | 29831 | 27967 | 26322 | 24859 | 23551 | 22373 | 21308 | 20339 |
| 72 | 90756 | 75630 | 64826 | 56723 | 50420 | 45378 | 41252 | 37815 | 34906 | 32413 | 30252 | 28361 | 26693 | 25210 | 23883 | 22689 | 21608 | 20626 |
| 73 | 92017 | 76680 | 65726 | 57510 | 51120 | 46008 | 41825 | 38340 | 35391 | 32863 | 30672 | 28755 | 27063 | 25560 | 24214 | 23004 | 21908 | 20912 |
| 74 | 93277 | 77731 | 66626 | 58298 | 51821 | 46638 | 42398 | 38865 | 35875 | 33313 | 31092 | 29149 | 27434 | 25910 | 24546 | 23319 | 22208 | 21199 |
| 75 | 94538 | 78781 | 67527 | 59086 | 52521 | 47268 | 42971 | 39390 | 36360 | 33763 | 31512 | 29543 | 27805 | 26260 | 24878 | 23634 | 22509 | 21485 |
| 76 | 95798 | 79832 | 68427 | 59874 | 53221 | 47899 | 43544 | 39916 | 36845 | 34213 | 31932 | 29937 | 28176 | 26610 | 25210 | 23949 | 22809 | 21772 |
| 77 | 97059 | 80882 | 69327 | 60662 | 53921 | 48529 | 44117 | 40441 | 37330 | 34663 | 32353 | 30330 | 28546 | 26960 | 25541 | 24264 | 23109 | 22058 |
| 78 | 98319 | 81933 | 70228 | 61449 | 54622 | 49159 | 44690 | 40966 | 37815 | 35114 | 32773 | 30724 | 28917 | 27310 | 25873 | 24579 | 23409 | 22345 |
| 79 | 99580 | 82983 | 71128 | 62237 | 55322 | 49789 | 45263 | 41491 | 38299 | 35564 | 33193 | 31118 | 29288 | 27661 | 26205 | 24894 | 23709 | 22631 |
| 80 | 100804 | 84033 | 72029 | 63024 | 56022 | 50420 | 45836 | 42016 | 38784 | 36014 | 33613 | 31512 | 29658 | 28011 | 26536 | 25210 | 24009 | 22918 |
| 81 | 102101 | 85084 | 72929 | 63813 | 56722 | 51050 | 46409 | 42542 | 39269 | 36464 | 34033 | 31906 | 30029 | 28361 | 26868 | 25525 | 24309 | 23204 |
| 82 | 103361 | 86134 | 73829 | 64601 | 57423 | 51680 | 46982 | 43067 | 39754 | 36914 | 34453 | 32300 | 30400 | 28711 | 27200 | 25840 | 24609 | 23491 |
| 83 | 104622 | 87185 | 74730 | 65388 | 58123 | 52310 | 47555 | 43592 | 40239 | 37365 | 34874 | 32694 | 30771 | 29061 | 27532 | 26155 | 24909 | 23777 |
| 84 | 105882 | 88235 | 75630 | 66176 | 58823 | 52941 | 48128 | 44117 | 40724 | 37815 | 35294 | 33088 | 31141 | 29411 | 27863 | 26470 | 25210 | 24064 |
| 85 | 107143 | 89285 | 76530 | 66964 | 59524 | 53571 | 48701 | 44642 | 41208 | 38265 | 35714 | 33482 | 31512 | 29761 | 28195 | 26785 | 25510 | 24350 |
| 86 | 108403 | 90336 | 77430 | 67752 | 60224 | 54201 | 49274 | 45168 | 41693 | 38715 | 36134 | 33876 | 31883 | 30112 | 28527 | 27100 | 25810 | 24637 |
| 87 | 109664 | 91386 | 78331 | 68540 | 60924 | 54831 | 49847 | 45693 | 42178 | 39165 | 36554 | 34269 | 32254 | 30462 | 28858 | 27415 | 26110 | 24923 |
| 88 | 110924 | 92437 | 79231 | 69328 | 61624 | 55462 | 50420 | 46218 | 42663 | 39615 | 36974 | 34663 | 32624 | 30812 | 29190 | 27731 | 26410 | 25210 |
| 89 | 112185 | 93487 | 80132 | 70115 | 62325 | 56092 | 50993 | 46743 | 43148 | 40066 | 37395 | 35057 | 32995 | 31163 | 29522 | 28046 | 26710 | 25496 |
| 90 | 113445 | 94538 | 81032 | 70903 | 63025 | 56722 | 51566 | 47268 | 43632 | 40516 | 37815 | 35451 | 33366 | 31512 | 29854 | 28361 | 27010 | 25783 |
| 91 | 114706 | 95588 | 81932 | 71691 | 63725 | 57352 | 52139 | 47794 | 44117 | 40966 | 38235 | 35845 | 33737 | 31862 | 30185 | 28676 | 27310 | 26069 |
| 92 | 115967 | 96638 | 82833 | 72479 | 64426 | 57983 | 52712 | 48319 | 44602 | 41416 | 38655 | 36239 | 34107 | 32212 | 30517 | 28991 | 27611 | 26355 |
| 93 | 117227 | 97689 | 83733 | 73267 | 65126 | 58613 | 53285 | 48844 | 45087 | 41866 | 39075 | 36633 | 34478 | 32563 | 30849 | 29306 | 27911 | 26642 |
| 94 | 118487 | 98739 | 84634 | 74054 | 65826 | 59243 | 53857 | 49369 | 45572 | 42317 | 39495 | 37027 | 34849 | 32913 | 31180 | 29621 | 28211 | 26928 |
| 95 | 119748 | 99790 | 85534 | 74842 | 66526 | 59873 | 54430 | 49895 | 46056 | 42767 | 39916 | 37421 | 35220 | 33263 | 31512 | 29936 | 28511 | 27215 |
| 96 | 121008 | 100840 | 86434 | 75630 | 67227 | 60504 | 55003 | 50420 | 46541 | 43217 | 40336 | 37815 | 35590 | 33613 | 31844 | 30252 | 28811 | 27501 |
| 97 | 122269 | 101890 | 87335 | 76418 | 67927 | 61134 | 55576 | 50945 | 47026 | 43667 | 40756 | 38209 | 35961 | 33963 | 32176 | 30567 | 29111 | 27788 |
| 98 | 123529 | 102941 | 88235 | 77206 | 68627 | 61764 | 56149 | 51470 | 47511 | 44117 | 41176 | 38602 | 36332 | 34313 | 32507 | 30882 | 29411 | 28074 |
| 99 | 124780 | 103991 | 89135 | 77993 | 69328 | 62394 | 56722 | 51995 | 47996 | 44567 | 41596 | 38996 | 36702 | 34663 | 32839 | 31197 | 29711 | 28361 |
| 100 | 126050 | 105042 | 90036 | 78781 | 70028 | 63025 | 57295 | 52521 | 48481 | 45018 | 42016 | 39390 | 37073 | 35014 | 33171 | 31512 | 30012 | 28647 |

# Torque (in Pound-Inches) For Horsepower/RPM

## Torque for 51-100 HP @ 230-1000 RPM

| HP | Revolutions Per Minute | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 800 | 900 | 1000 |
| 51 | 13975 | 13392 | 12857 | 12362 | 11904 | 11479 | 11083 | 10714 | 9183 | 8035 | 7141 | 6428 | 5844 | 5357 | 4945 | 4591 | 4017 | 3571 | 3314 |
| 52 | 14249 | 13655 | 13109 | 12605 | 12138 | 11704 | 11301 | 10924 | 9363 | 8193 | 7282 | 6554 | 5958 | 5462 | 5042 | 4681 | 4096 | 3641 | 3277 |
| 53 | 14523 | 13918 | 13361 | 12847 | 12371 | 11929 | 11518 | 11134 | 9543 | 8350 | 7422 | 6680 | 6073 | 5567 | 5138 | 4771 | 4175 | 3711 | 3340 |
| 54 | 14797 | 14180 | 13613 | 13089 | 12605 | 12154 | 11735 | 11344 | 9723 | 8508 | 7563 | 6806 | 6187 | 5672 | 5235 | 4861 | 4254 | 3781 | 3403 |
| 55 | 15071 | 14443 | 13865 | 13332 | 12838 | 12379 | 11953 | 11554 | 9903 | 8665 | 7703 | 6932 | 6302 | 5777 | 5332 | 4951 | 4332 | 3851 | 3466 |
| 56 | 15345 | 14705 | 14117 | 13574 | 13071 | 12605 | 12170 | 11764 | 10084 | 8823 | 7843 | 7058 | 6417 | 5882 | 5429 | 5042 | 4411 | 3921 | 3529 |
| 57 | 15619 | 14968 | 14369 | 13817 | 13305 | 12830 | 12387 | 11974 | 10264 | 8981 | 7983 | 7184 | 6531 | 5987 | 5526 | 5132 | 4490 | 3991 | 3592 |
| 58 | 15893 | 15231 | 14621 | 14059 | 13538 | 13055 | 12605 | 12184 | 10444 | 9138 | 8123 | 7310 | 6646 | 6092 | 5623 | 5222 | 4569 | 4061 | 3655 |
| 59 | 16167 | 15493 | 14873 | 14301 | 13772 | 13280 | 12822 | 12394 | 10624 | 9296 | 9263 | 7436 | 6760 | 6197 | 5720 | 5312 | 4648 | 4131 | 3718 |
| 60 | 16441 | 15756 | 15126 | 14544 | 14055 | 13505 | 13039 | 12605 | 10804 | 9453 | 8403 | 7563 | 6875 | 6302 | 5817 | 5402 | 4726 | 4201 | 3781 |
| 61 | 16715 | 16018 | 15378 | 14786 | 14239 | 13730 | 13257 | 12815 | 10984 | 9611 | 8543 | 7689 | 6990 | 6407 | 5914 | 5492 | 4805 | 4271 | 3844 |
| 62 | 16989 | 16281 | 15630 | 15029 | 14472 | 13955 | 13474 | 13025 | 11164 | 9768 | 8683 | 7815 | 7104 | 6512 | 6011 | 5582 | 4884 | 4341 | 3907 |
| 63 | 17263 | 16544 | 15882 | 15271 | 14705 | 14180 | 13691 | 13235 | 11344 | 9926 | 8823 | 7941 | 7219 | 6617 | 6108 | 5672 | 4963 | 4411 | 3970 |
| 64 | 17537 | 16806 | 16134 | 15513 | 14939 | 14405 | 13908 | 13445 | 11524 | 10084 | 8963 | 8067 | 7333 | 6722 | 6205 | 5762 | 5041 | 4481 | 4033 |
| 65 | 17811 | 17069 | 16386 | 15756 | 15172 | 14630 | 14126 | 13655 | 11704 | 10241 | 9103 | 8193 | 7448 | 6827 | 6302 | 5852 | 5120 | 4551 | 4096 |
| 66 | 18085 | 17331 | 16638 | 15998 | 15406 | 14855 | 14343 | 13865 | 11884 | 10399 | 9243 | 8319 | 7563 | 6932 | 6399 | 5942 | 5199 | 4621 | 4159 |
| 67 | 18359 | 17594 | 16890 | 16241 | 15639 | 15081 | 14560 | 14075 | 12064 | 10556 | 9383 | 8445 | 7677 | 7037 | 6496 | 6032 | 5278 | 4691 | 4222 |
| 68 | 18633 | 17857 | 17142 | 16483 | 15873 | 15306 | 14778 | 14285 | 12244 | 10714 | 9523 | 8571 | 7792 | 7142 | 6593 | 6122 | 5357 | 4761 | 4285 |
| 69 | 18907 | 18119 | 17394 | 16725 | 16106 | 15531 | 14995 | 14495 | 12424 | 10871 | 9663 | 8697 | 7906 | 7247 | 6690 | 6212 | 5435 | 4831 | 4348 |
| 70 | 19181 | 18382 | 17647 | 16968 | 16339 | 15756 | 15212 | 14705 | 12605 | 11029 | 9803 | 8823 | 8021 | 7352 | 6787 | 6302 | 5514 | 4901 | 4411 |
| 71 | 19455 | 18644 | 17899 | 17210 | 16573 | 15981 | 15430 | 14915 | 12785 | 11186 | 9943 | 8949 | 8135 | 7457 | 6884 | 6392 | 5593 | 4971 | 4474 |
| 72 | 19729 | 18907 | 18151 | 17453 | 16806 | 16206 | 15647 | 15126 | 12965 | 11344 | 10084 | 9075 | 8250 | 7563 | 6981 | 6482 | 5672 | 5042 | 4537 |
| 73 | 20003 | 19170 | 18403 | 17695 | 17040 | 16431 | 15864 | 15336 | 13145 | 11502 | 10224 | 9201 | 8365 | 7668 | 7078 | 6572 | 5751 | 5112 | 4600 |
| 74 | 20277 | 19432 | 18655 | 17937 | 17273 | 16656 | 16082 | 15546 | 13325 | 11659 | 10364 | 9327 | 8479 | 7773 | 7175 | 6662 | 5829 | 5182 | 4663 |
| 75 | 20551 | 19695 | 18907 | 18180 | 17507 | 16881 | 16299 | 15756 | 13505 | 11817 | 10504 | 9453 | 8594 | 7878 | 7272 | 6752 | 5908 | 5252 | 4726 |
| 76 | 20825 | 19957 | 19159 | 18422 | 17740 | 17106 | 16516 | 15966 | 13685 | 11974 | 10644 | 9579 | 8708 | 7983 | 7369 | 6842 | 5987 | 5322 | 4789 |
| 77 | 21099 | 20220 | 19411 | 18665 | 17973 | 17331 | 16734 | 16176 | 13865 | 12132 | 10784 | 9705 | 8823 | 8088 | 7466 | 6932 | 6066 | 5392 | 4852 |
| 78 | 21373 | 20483 | 19663 | 18907 | 18207 | 17557 | 16951 | 16386 | 14045 | 12289 | 10924 | 9831 | 8938 | 8193 | 7563 | 7022 | 6144 | 5462 | 4915 |
| 79 | 21647 | 20745 | 19915 | 19149 | 18440 | 17782 | 17168 | 16596 | 14225 | 12447 | 11064 | 9957 | 9052 | 8298 | 7659 | 7112 | 6223 | 5532 | 4978 |
| 80 | 21921 | 21008 | 20168 | 19392 | 18674 | 18007 | 17386 | 16806 | 14405 | 12605 | 11204 | 10084 | 9167 | 8403 | 7756 | 7202 | 6302 | 5602 | 5042 |
| 81 | 22195 | 21271 | 20420 | 19634 | 18907 | 18232 | 17603 | 17016 | 14585 | 12762 | 11344 | 10210 | 9281 | 8508 | 7853 | 7292 | 6381 | 5672 | 5105 |
| 82 | 22469 | 21533 | 20672 | 19877 | 19141 | 18457 | 17820 | 17226 | 14765 | 12920 | 11484 | 10336 | 9396 | 8613 | 7950 | 7382 | 6460 | 5742 | 5168 |
| 83 | 22743 | 21796 | 20924 | 20119 | 19374 | 18682 | 18038 | 17436 | 14945 | 13077 | 11624 | 10462 | 9511 | 8718 | 8047 | 7472 | 6538 | 5812 | 5231 |
| 84 | 23017 | 22058 | 21176 | 20362 | 19607 | 18907 | 18255 | 17647 | 15126 | 13235 | 11764 | 10588 | 9625 | 8823 | 8144 | 7563 | 6617 | 5882 | 5294 |
| 85 | 23291 | 22321 | 21428 | 20604 | 19841 | 19132 | 18472 | 17857 | 15306 | 13392 | 11904 | 10714 | 9740 | 8928 | 8241 | 7653 | 6696 | 5952 | 5357 |
| 86 | 23565 | 22584 | 21680 | 20846 | 20074 | 19357 | 18690 | 18067 | 15486 | 13550 | 12044 | 10840 | 9854 | 9033 | 8338 | 7743 | 6775 | 6022 | 5420 |
| 87 | 23840 | 22846 | 21932 | 21089 | 20308 | 19582 | 18907 | 18277 | 15666 | 13707 | 12184 | 10966 | 9969 | 9138 | 8435 | 7833 | 6853 | 6092 | 5483 |
| 88 | 24114 | 23109 | 22184 | 21331 | 20541 | 19807 | 19124 | 18487 | 15846 | 13865 | 12324 | 11092 | 10084 | 9243 | 8532 | 7923 | 6932 | 6162 | 5546 |
| 89 | 24388 | 23371 | 22436 | 21574 | 20775 | 20033 | 19342 | 18697 | 16026 | 14023 | 12464 | 11218 | 10198 | 9348 | 8629 | 8013 | 7011 | 6232 | 5609 |
| 90 | 24662 | 23634 | 22689 | 21816 | 21008 | 20258 | 19559 | 18907 | 16206 | 14180 | 12605 | 11344 | 10313 | 9453 | 8726 | 8103 | 7090 | 6302 | 5672 |
| 91 | 24936 | 23897 | 22941 | 22058 | 21241 | 20483 | 19776 | 19117 | 16386 | 14338 | 12745 | 11470 | 10427 | 9558 | 8823 | 8193 | 7169 | 6372 | 5735 |
| 92 | 25210 | 24159 | 23193 | 22301 | 21475 | 20708 | 19994 | 19327 | 16566 | 14495 | 12885 | 11596 | 10542 | 9663 | 8920 | 8283 | 7247 | 6442 | 5798 |
| 93 | 25484 | 24422 | 23445 | 22543 | 21708 | 20933 | 20211 | 19537 | 16746 | 14653 | 13025 | 11722 | 10656 | 9768 | 9017 | 8373 | 7326 | 6512 | 5861 |
| 94 | 25758 | 24684 | 23697 | 22786 | 21942 | 21158 | 20428 | 19747 | 16926 | 14810 | 13165 | 11848 | 10771 | 9873 | 9114 | 8463 | 7405 | 6582 | 5924 |
| 95 | 26032 | 24947 | 23949 | 23028 | 22175 | 21383 | 20646 | 19957 | 17106 | 14968 | 13305 | 11974 | 10886 | 9978 | 9211 | 8553 | 7484 | 6652 | 5987 |
| 96 | 26306 | 25210 | 24201 | 23270 | 22408 | 21608 | 20863 | 20168 | 17286 | 15126 | 13445 | 12100 | 11000 | 10084 | 9308 | 8643 | 7562 | 6722 | 6050 |
| 97 | 26580 | 25472 | 24453 | 23513 | 22642 | 21833 | 21080 | 20378 | 17466 | 15383 | 13585 | 12226 | 11115 | 10189 | 9405 | 8733 | 7641 | 6792 | 6113 |
| 98 | 26854 | 25735 | 24705 | 23755 | 22875 | 22058 | 21298 | 20588 | 17647 | 15441 | 13725 | 12352 | 11229 | 10294 | 9502 | 8823 | 7720 | 6862 | 6176 |
| 99 | 27128 | 25997 | 24957 | 23998 | 23109 | 22283 | 21515 | 20798 | 17827 | 15598 | 13865 | 12478 | 11344 | 10399 | 9599 | 8913 | 7799 | 6932 | 6239 |
| 100 | 27402 | 26260 | 25210 | 24240 | 23342 | 22509 | 21732 | 21008 | 18007 | 15756 | 14005 | 12605 | 11459 | 10504 | 9696 | 9003 | 7878 | 7002 | 6302 |

# Electrical Formulas

## Electrical Formulas

| To Find | Alternating Current | |
|---|---|---|
| | Single-Phase | Three-Phase |
| Amperes when horsepower is known | $\frac{HP \times 746}{E \times Eff. \times pf}$ | $\frac{HP \times 746}{1.73 \times E \times Eff. \times pf}$ |
| Amperes when kilowatts are known | $\frac{Kw \times 1000}{E \times pf}$ | $\frac{Kw \times 1000}{1.73 \times E \times pf}$ |
| Amperes when Kva are known | $\frac{Kva \times 1000}{E}$ | $\frac{Kva \times 1000}{1.73 \times E}$ |
| Kilowatts | $\frac{I \times E \times pf}{1000}$ | $\frac{1.73 \times I \times E \times pf}{1000}$ |
| Kva | $\frac{I \times E}{1000}$ | $\frac{1.73 \times I \times E}{1000}$ |
| Horsepower = (output) | $\frac{I \times E \times Eff. \times pf}{746}$ | $\frac{1.73 \times I \times E \times Eff. \times pf}{746}$ |

I = Amperes; E = Volts; Eff. = Efficiency; pf = power factor;
Kva = Kilovolt amperes; Kw = Kilowatts; R = Ohms

| To Find | Alternating or Direct Current |
|---|---|
| Amperes when voltage and resistance is known | $\frac{E}{R}$ |
| Voltage when resistance and current are known | IR |
| Resistance when voltage and current are known | $\frac{E}{I}$ |

General Information (Approximation)

All Values At 100% Load:

- At 1800 RPM, a motor develops 36 lb-in per hp
- At 1200 RPM, a motor develops 54 lb-in per hp
- At 575 volts, a 3-phase motor draws 1 amp per hp
- At 460 volts, a 3-phase motor draws 1.25 amp per hp
- At 230 volts, a 3-phase motor draws 2.5 amp per hp
- At 230 volts, a single-phase motor draws 5 amp per hp
- At 115 volts, a single-phase motor draws 10 amp per hp

Temperature Conversion:

Deg C = (Deg F - 32) × 5/9
Deg F = (Deg C × 9/5) + 32

## Motor Amps @ Full Load †

| HP | Alternating Current | | DC | HP | Alternating Current | | DC | HP | Alternating Current | | DC | HP | Alternating Current | | DC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Single Phase | 3-Phase | | | Single Phase | 3-Phase | | | Single Phase | 3-Phase | | | Single Phase | 3-Phase | |
| 1/2 | 4.9 | 2.0 | 2.7 | 5 | 28 | 14.4 | 20 | 25 | .... | 60 | 92 | 75 | .... | 180 | 268 |
| 1 | 8.0 | 3.4 | 4.8 | 7 1/2 | 40 | 21.0 | 29 | 30 | .... | 75 | 110 | 100 | .... | 240 | 355 |
| 1 1/2 | 10.0 | 4.8 | 6.6 | 10 | 50 | 26.0 | 38 | 40 | .... | 100 | 146 | 125 | .... | 300 | 443 |
| 2 | 12.0 | 6.2 | 8.5 | 15 | .... | 38.0 | 56 | 50 | .... | 120 | 180 | 150 | .... | 360 | 534 |
| 3 | 17.0 | 8.6 | 12.5 | 20 | .... | 50.0 | 74 | 60 | .... | 150 | 215 | 200 | .... | 480 | 712 |

† Values are for all speeds and frequencies @ 230 volts.
Amperage other than 230 volts can be figured:

$$V = \frac{230 \times \text{Amp from Table}}{\text{New Voltage}}$$

Example:

For 60 HP, 3 phase @ 550 volts: $\frac{(230 \times 150)}{550}$ = 62 amps.

Power Factor estimated @ 80% for most motors. Efficiency is usually 80-90%.

## NEMA Electrical Enclosure Types

| Type | Description |
|---|---|
| NEMA Type 1 (General Purpose) | For indoor use wherever oil, dust, or water is not a problem |
| NEMA Type 2 (Driptight) | Used indoors to exclude falling moisture and dirt |
| NEMA Type 3 (Weatherproof) | Provides protection against rain, sleet, and snow |
| NEMA Type 4 (Watertight)† | Needed when subject to great amounts of water from any angle — such as areas which are repeatedly hosed down |

| Type | Description |
|---|---|
| NEMA Type 5 Dust Tight (Non-Hazardous) | Used for excluding dust (All NEMA 12 and JIC enclosures are usually suitable for NEMA 5 use) |
| NEMA Type 9 Dust Tight (Hazardous)* | For locations where combustible dusts are present |
| NEMA Type 12 (Industrial Use) | Used for excluding oil, coolant, flying dust, lint, etc |

NOTE: Joint Industry Conference (JIC) enclosures are similar in design to NEMA 12's.
For more complete details see NEMA or JIC Standards for enclosures.
† Not designed to be submerged.
* Class II Groups E, F, and G.

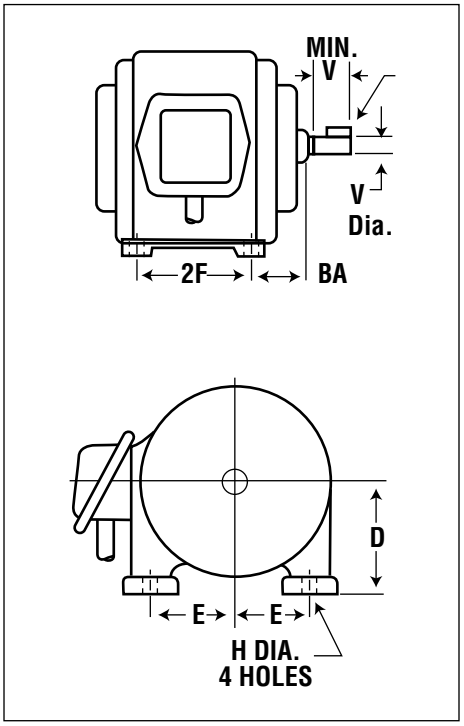
# NEMA Frame Designation

## Frame Assignments

| HP | Motor Speed, RPM | | | | HP | Motor Speed, RPM | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 3600 | 1800 | 1200 | 900 | | 3600 | 1800 | 1200 | 900 |
| 1/8 - 1/3 | — | 48 | — | — | 15 | 215T, 256U | 254T, 284U | 284T, 324U | 286T, 326U |
| 1/8 - 1/2 | 48 | — | 56 | — | 20 | 254T, 284U | 256T, 286U | 286T, 326U | 324T, 364U |
| 1/6 | — | — | 48 | — | 25 | 256T, 286U | 284T, 324U | 324T, 364U | 326T, 365U |
| 1/3 - 1 | — | 56 | — | — | 30 | 284TS, 324S | 286T, 326U | 326T, 365U | 364T, 404U |
| 3/4 - 1 | 56 | — | — | — | 40 | 286TS, 326S | 324T, 364U | 364T, 404U | 365T, 405U |
| 1/2 | — | — | — | 143T | 50 | 324TS, 364US | 326T, 365U, 365US | 365T, 405U | 404T, 444U |
| 3/4 | — | — | 143T | 145T | 60 | 326TS, 365US | 364TS▲, 404U, 404US | 404T, 444U | 405T, 445U |
| 1 | — | 143T | 145T | 182T | 75 | 364TS, 404US | 365TS▲, 405U, 405US | 405T, 445U | 444T |
| 1 1/2 | 143T | 145T | 182T | 184T | 100 | 365TS, 405US | 404TS▲, 444US | 444T | 445T |
| 2 | 145T | 145T | 184T | 213T | 125 | 404TS, 444US | 405TS▲, 445US | 445T | — |
| 3 | 145T | 182T | 213T | 215T, 254U | 150 | 405TS, 445US | 444TS▲ | — | — |
| 5 | 182T | 184T | 215T, 254U | 254T, 256U | 200 | 444TS | 445TS▲ | — | — |
| 7 1/2 | 184T | 213T, 254U | 254T, 256U | 256T, 284U | 250 | 445TS | — | — | — |
| 10 | 213T, 254U | 215T, 256U | 256T, 284U | 284T, 286U | — | — | — | — | — |

## Motor Frame Dimensions

| Frame Size | D | E | 2F | H Dia. (4) Holes | U Dia. | BA | V Min. | Key |
|---|---|---|---|---|---|---|---|---|
| 48 | 3 | 2 1/8 | 2 3/4 | 11/32 | 1/2 | 2 1/2 | ... | 3/64 FLAT |
| 56 | 3 1/2 | 2 7/16 | 3 | 11/32 | 5/8 | 2 3/4 | ... | 3/16 × 3/16 × 1 3/8 |
| 143T | 3 1/2 | 2 3/4 | 4 | 11/32 | 7/8 | 2 1/4 | 2 | 3/16 × 3/16 × 1 3/8 |
| 145T | 3 1/2 | 2 3/4 | 5 | 11/32 | 7/8 | 2 1/4 | 2 | 3/16 × 3/16 × 1 3/8 |
| 182T | 4 1/2 | 3 3/4 | 4 1/2 | 13/32 | 1 1/8 | 2 3/4 | 2 1/2 | 1/4 × 1/4 × 1 3/4 |
| 184T | 4 1/2 | 3 3/4 | 5 1/2 | 13/32 | 1 1/8 | 2 3/4 | 2 1/2 | 1/4 × 1/4 × 1 3/4 |
| 213T | 5 1/4 | 4 1/4 | 5 1/2 | 13/32 | 1 3/8 | 3 1/2 | 3 1/8 | 5/16 × 5/16 × 2 3/8 |
| 215T | 5 1/4 | 4 1/4 | 7 | 13/32 | 1 3/8 | 3 1/2 | 3 1/8 | 5/16 × 5/16 × 2 3/8 |
| 254U | 6 1/4 | 5 | 8 1/4 | 17/32 | 1 3/8 | 4 1/4 | 3 1/2 | 5/16 × 5/16 × 2 3/4 |
| 254T | 6 1/4 | 5 | 8 1/4 | 17/32 | 1 5/8 | 4 1/4 | 3 3/4 | 3/8 × 3/8 × 2 7/8 |
| 256U | 6 1/4 | 5 | 10 | 17/32 | 1 3/8 | 4 1/4 | 3 1/2 | 5/16 × 5/16 × 2 3/4 |
| 256T | 6 1/4 | 5 | 10 | 17/32 | 1 5/8 | 4 1/4 | 3 3/4 | 3/8 × 3/8 × 2 7/8 |
| 284U | 7 | 5 1/2 | 9 1/2 | 17/32 | 1 5/8 | 4 3/4 | 4 5/8 | 3/8 × 3/8 × 3 3/4 |
| 284T | 7 | 5 1/2 | 9 1/2 | 17/32 | 1 7/8 | 4 3/4 | 4 3/8 | 1/2 × 1/2 × 3 1/4 |
| 284TS | 7 | 5 1/2 | 9 1/2 | 17/32 | 1 5/8 | 4 3/4 | 3 | 3/8 × 3/8 × 1 7/8 |
| 286U | 7 | 5 1/2 | 11 | 17/32 | 1 5/8 | 4 3/4 | 4 5/8 | 3/8 × 3/8 × 3 3/4 |
| 286T | 7 | 5 1/2 | 11 | 17/32 | 1 7/8 | 4 3/4 | 4 3/8 | 1/2 × 1/2 × 3 1/4 |
| 286TS | 7 | 5 1/2 | 11 | 17/32 | 1 5/8 | 4 3/4 | 3 | 3/8 × 3/8 × 1 7/8 |
| 324U | 8 | 6 1/4 | 10 1/2 | 21/32 | 1 7/8 | 5 1/4 | 5 3/8 | 1/2 × 1/2 × 4 1/4 |
| 324T | 8 | 6 1/4 | 10 1/2 | 21/32 | 2 1/8 | 5 1/4 | 5 | 1/2 × 1/2 × 3 7/8 |
| 324TS | 8 | 6 1/4 | 10 1/2 | 21/32 | 1 7/8 | 5 1/4 | 3 1/2 | 1/2 × 1/2 × 2 |
| 326U | 8 | 6 1/4 | 12 | 21/32 | 1 7/8 | 5 1/4 | 5 3/8 | 1/2 × 1/2 × 4 1/4 |
| 326T | 8 | 6 1/4 | 12 | 21/32 | 2 1/8 | 5 1/4 | 5 | 1/2 × 1/2 × 3 7/8 |
| 326TS | 8 | 6 1/4 | 12 | 21/32 | 1 7/8 | 5 1/4 | 3 1/2 | 1/2 × 1/2 × 2 |
| 364U | 9 | 7 | 11 1/4 | 21/32 | 2 1/8 | 5 7/8 | 6 1/8 | 1/2 × 1/2 × 5 |
| 364US | 9 | 7 | 11 1/4 | 21/32 | 1 7/8 | 5 7/8 | 3 1/2 | 1/2 × 1/2 × 2 |
| 364T | 9 | 7 | 11 1/4 | 21/32 | 2 3/8 | 5 7/8 | 5 5/8 | 5/8 × 5/8 × 4 1/4 |
| 364TS | 9 | 7 | 11 1/4 | 21/32 | 1 7/8 | 5 7/8 | 3 1/2 | 1/2 × 1/2 × 2 |
| 365U | 9 | 7 | 12 1/4 | 21/32 | 2 1/8 | 5 7/8 | 6 1/8 | 1/2 × 1/2 × 5 |
| 365US | 9 | 7 | 12 1/4 | 21/32 | 1 7/8 | 5 7/8 | 3 1/2 | 1/2 × 1/2 × 2 |
| 365T | 9 | 7 | 12 1/4 | 21/32 | 2 3/8 | 5 7/8 | 5 5/8 | 5/8 × 5/8 × 4 1/4 |
| 365TS | 9 | 7 | 12 1/4 | 21/32 | 1 7/8 | 5 7/8 | 3 1/2 | 1/2 × 1/2 × 2 |
| 404U | 10 | 8 | 12 1/4 | 13/16 | 2 3/8 | 6 5/8 | 6 7/8 | 5/8 × 5/8 × 5 1/2 |
| 404US | 10 | 8 | 12 1/4 | 13/16 | 2 1/8 | 6 5/8 | 4 | 1/2 × 1/2 × 2 3/4 |
| 404T | 10 | 8 | 12 1/4 | 13/16 | 2 7/8 | 6 5/8 | 7 | 3/4 × 3/4 × 5 5/8 |
| 404TS | 10 | 8 | 12 1/4 | 13/16 | 2 1/8 | 6 5/8 | 4 | 1/2 × 1/2 × 2 3/4 |
| 405U | 10 | 8 | 13 3/4 | 13/16 | 2 3/8 | 6 5/8 | 6 7/8 | 5/8 × 5/8 × 5 1/2 |
| 405US | 10 | 8 | 13 3/4 | 13/16 | 2 1/8 | 6 5/8 | 4 | 1/2 × 1/2 × 2 3/4 |
| 405T | 10 | 8 | 13 3/4 | 13/16 | 2 7/8 | 6 5/8 | 7 | 3/4 × 3/4 × 5 5/8 |
| 405TS | 10 | 8 | 13 3/4 | 13/16 | 2 1/8 | 6 5/8 | 4 | 1/2 × 1/2 × 2 3/4 |
| 444U | 11 | 9 | 14 1/2 | 13/16 | 2 7/8 | 7 1/2 | 8 3/8 | 3/4 × 3/4 × 7 |
| 444US | 11 | 9 | 14 1/2 | 13/16 | 2 1/8 | 7 1/2 | 4 | 1/2 × 1/2 × 2 3/4 |
| 444T | 11 | 9 | 14 1/2 | 13/16 | 3 3/8 | 7 1/2 | 8 1/4 | 7/8 × 7/8 × 6 7/8 |
| 444TS | 11 | 9 | 14 1/2 | 13/16 | 2 3/8 | 7 1/2 | 4 1/2 | 5/8 × 5/8 × 3 |
| 445U | 11 | 9 | 16 1/2 | 13/16 | 2 7/8 | 7 1/2 | 8 3/8 | 3/4 × 3/4 × 7 |
| 445US | 11 | 9 | 16 1/2 | 13/16 | 2 1/8 | 7 1/2 | 4 | 1/2 × 1/2 × 2 3/4 |
| 445T | 11 | 9 | 16 1/2 | 13/16 | 3 3/8 | 7 1/2 | 8 1/4 | 7/8 × 7/8 × 6 7/8 |




**Shaded area** indicates typical single phase standard squirreM-cage, open type, a-c motors. Balance of table same except three phase, design A and B.

▲ When these motors are used with v-belt or chain drives, the correct frame size is the one with the suffix "S" omitted — consult manufacturer.

## Shaft Selection

**Important factors to consider when calculating shaft size**

(a) Shafting is subject to a **bending moment** and a **torsional moment.**

(b) Bending moment is that force which tends to **bend** a shaft.

(c) Torsional moment is that force which tends to **twist** a shaft.

(d) Shaft size is determined by the **combined action** of the bending and torsional moments.

Refer to Shaft Selection Charts 2 and 3 developed by the American Society of Mechanical Engineers to simplify selection. The charts should be used in conjunction with Service Factors (Table 1) to modify the selection for conditions under which the shaft will operate.

A = Shaft length from center of bearing to center of load

L = Unbalanced load in pounds

W = Suspended weight of elevator (chain, buckets, etc.) in pounds

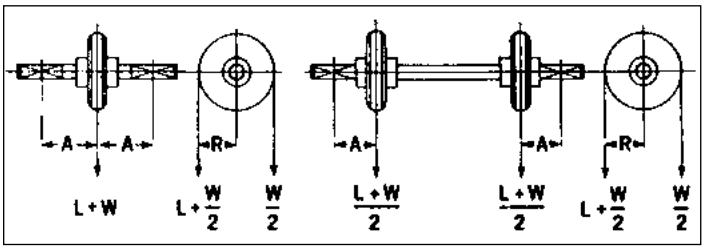
R = Radius of wheel in inches

B = Bending moment

T = Torsional moment

$$B = A \frac{L + W}{2} \text{ inch pounds}$$

$$T = R \times L \text{ inch pounds}$$




## Selection Procedure

1. Compute the bending moment from the above formula.
2. Determine the service factor for bending that will suit conditions from table 1.
3. Compute the torsional moment from the above formula.
4. Determine the service factor for torsion that will suit conditions from table 1.
5. Draw a horizontal line across selection chart 2 or 3 on pages M-10 and M-11, from the point where the **torsional moment intersects** its selected service factor line.
6. Draw a vertical lineup selection chart 2 or 3 from the point where the **bending moment intersects** its selected factor line.
7. Intersection of above lines will give required shaft size.
8. For shafts not weakened by keyways, multiply the shaft size obtained by .91 For the corrected shaft size. See note at the bottom of Selection Chart 3.

Horsepower required may be computed directly from the righthand side of Selection Charts by correcting the figure in line with the horizontal torsional moment line by the speed in RPM.

## Table 1 • Service Factors

| Type of Loading | Service Factor | |
|---|---|---|
| | For Bending | For Torsion |
| Stationary Shafts – | | |
| Gradually applied loads | 1.0 | 1.0 |
| Suddenly applied loads | 1.5 to 2.0 | 1.5 to 2.0 |
| Rotating Shafts – | | |
| Gradually applied or steady loads | 1.5 | 1.0 |
| Suddenly applied loads – | | |
| Minor shock only | 1.5 to 2.0 | 1.0 to 1.5 |
| Suddenly applied loads – | | |
| Heavy shock | 2.0 to 2.5 | 1.5 to 2.5 |

## Selection Example:

Select shaft size for head shaft of chain conveyor subject to following requirements:

(a) Torsion (inch/lbs) — 20,500

(b) Bending moment (inch/lbs) — 13,300

(c) Service Factors:
Torsion — 1.0
Bending — 1.5

At the extreme left on Selection Chart 2, the torsion moment may be found for the Service Factor of 1.0. Draw a horizontal line to the right from the 20,500 point. The bending moment is given at the bottom of the chart. Find the 13,300 point; draw a line from this point to the right on the diagonal until it intersects the 1.5 Service Factor line, then project the line upward vertically until it intersects the horizontal line drawn from the 20,500 torsion point. At this intersection point, it is found that a shaft of approximately 2 13/16" diameter is required.

Select the nearest standard size shaft which is 2 15/16".

For a shaft subjected to the same conditions, but not weakened by keyways, the size of the shaft required would be (.91 × 2.8125) or 2.56 (29/16"). See note at the bottom of the charts.

On this same chart at the right, the horsepower ratings at 100 RPM are given based on the formula:

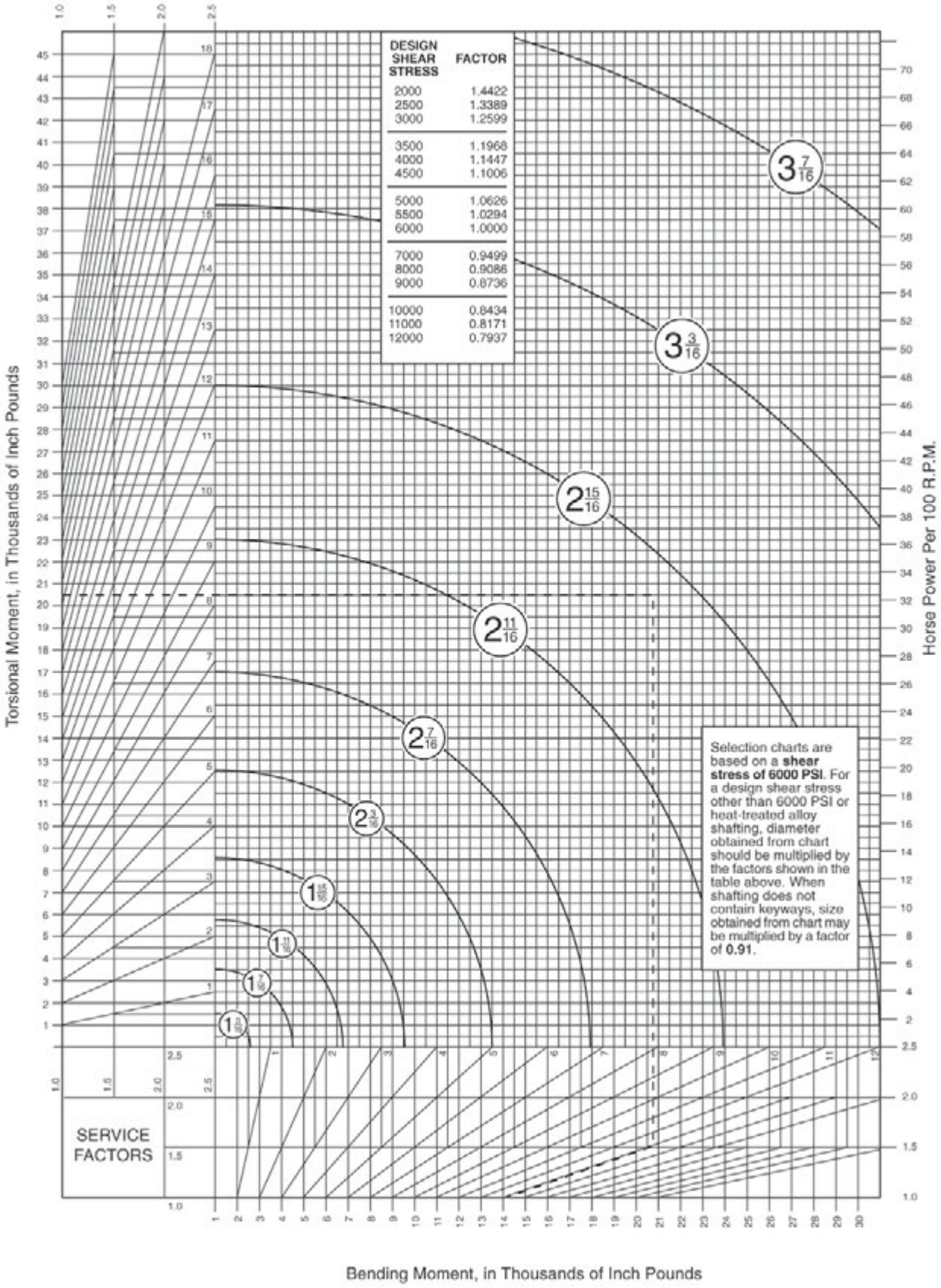
$$HP = \frac{TS}{63{,}000}$$

T = Torque in inch-pounds

S = Speed in RPM

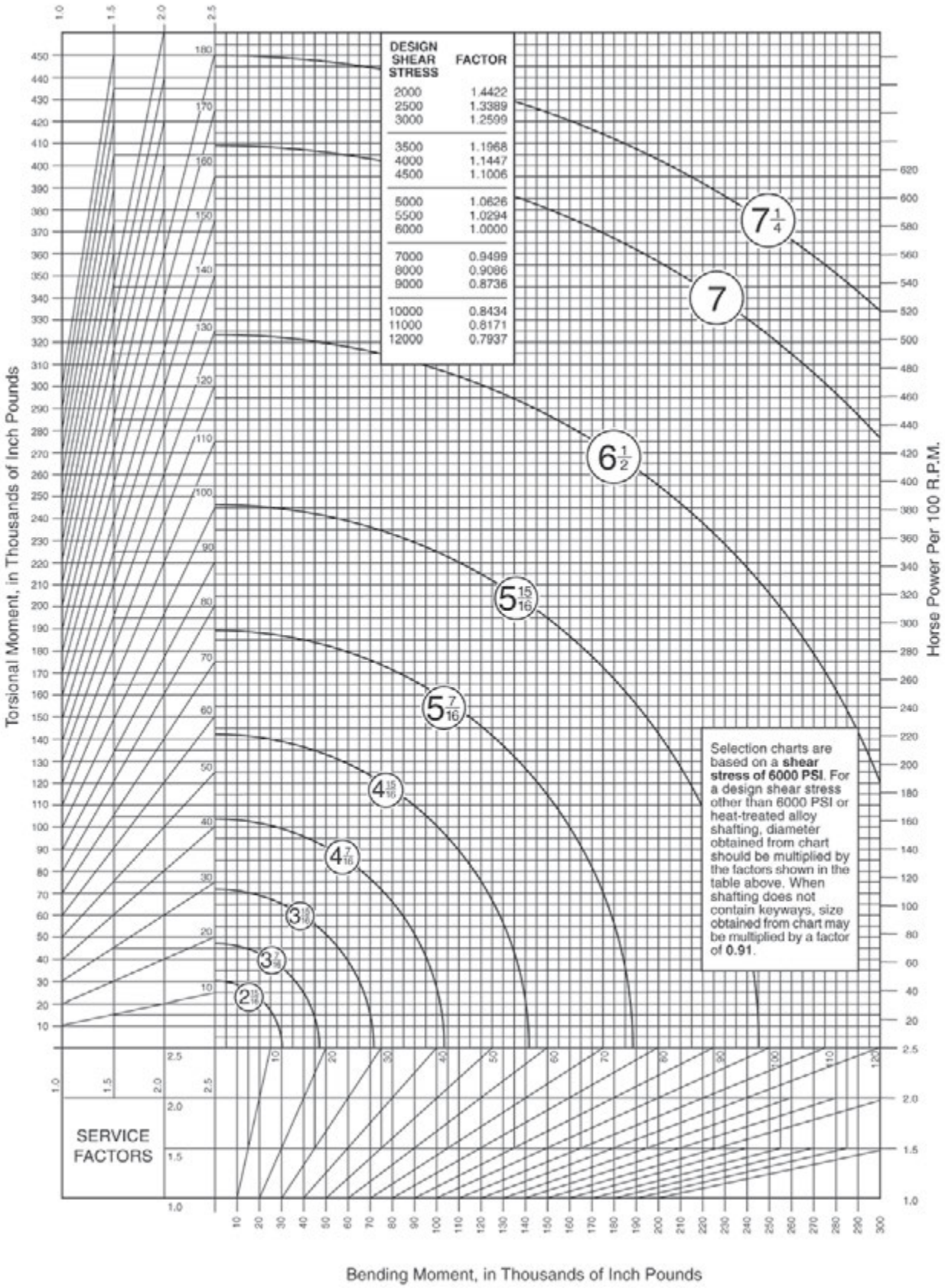
The horsepower is directly proportional to the speed of the shaft in RPM.

# Shaft Tables




| DESIGN SHEAR STRESS | FACTOR |
|---|---|
| 2000 | 1.4422 |
| 2500 | 1.3389 |
| 3000 | 1.2599 |
| 3500 | 1.1968 |
| 4000 | 1.1447 |
| 4500 | 1.1006 |
| 5000 | 1.0626 |
| 5500 | 1.0294 |
| 6000 | 1.0000 |
| 7000 | 0.9499 |
| 8000 | 0.9086 |
| 9000 | 0.8736 |
| 10000 | 0.8434 |
| 11000 | 0.8171 |
| 12000 | 0.7937 |

Selection charts are based on a **shear stress of 6000 PSI**. For a design shear stress other than 6000 PSI or heat-treated alloy shafting, diameter obtained from chart should be multiplied by the factors shown in the table above. When shafting does not contain keyways, size obtained from chart may be multiplied by a factor of **0.91**.




| DESIGN SHEAR STRESS | FACTOR |
|---|---|
| 2000 | 1.4422 |
| 2500 | 1.3389 |
| 3000 | 1.2599 |
| 3500 | 1.1968 |
| 4000 | 1.1447 |
| 4500 | 1.1006 |
| 5000 | 1.0626 |
| 5500 | 1.0294 |
| 6000 | 1.0000 |
| 7000 | 0.9499 |
| 8000 | 0.9086 |
| 9000 | 0.8736 |
| 10000 | 0.8434 |
| 11000 | 0.8171 |
| 12000 | 0.7937 |

Selection charts are based on a **shear stress of 6000 PSI**. For a design shear stress other than 6000 PSI or heat-treated alloy shafting, diameter obtained from chart should be multiplied by the factors shown in the table above. When shafting does not contain keyways, size obtained from chart may be multiplied by a factor of **0.91**.

# Flywheel Formulas

Flywheels are occasionally used on a few machines, such as air compressors, to even out load pulsations. These formulas are useful in designing entire flywheel rims. It is also possible to use V-Belt sheaves as a flywheel thus eliminating the need for a separate flywheel in the system. Consult Martin with specific requirements.

## Formulas for Entire Flywheel

W = weight (pounds)

R = radius of gyration (feet)

N = speed (RPM)

t = time to change from N1 to N2 (seconds)

F = face of rim (inches)

D = outside diameter of rim (inches)

d = inside diameter of rim (inches)

P = weight per cubic inch of material (pounds)

Kinetic energy of rotation of a flywheel (foot pounds) = $.0001705\ N^2(WR^2)^*$.

Torque to accelerate or decelerate a flywheel uniformly (pound-inches) $= \dfrac{.03908(N_2 - N_1)(WR^2)^*}{t}$

Where $N_2$ = final RPM and $N_1$ = initial RPM

Velocity at outside diameter (feet per minute) = 0.2618 ND

*$WR^2$ = flywheel effect (pounds × feet$^2$). See table below for $WR^2$ of rims. Ordinarily the $WR^2$ of the rim only is considered. In unusual instances the relatively small $WR^2$ values of the hub and arms or web can be added directly to the $WR2^2$of the rim if desired. To find the $WR^2$ of a hub or web use the $WR^2$ formula for rims, substituting the hub or web outside diameter, inside diameter, and width for D, d, and F respectively. When arms are used instead of a web an approximate $WR^2$ value of the arms is the total weight of the arms in pounds times the square of the radius in feet from the shaft center line to the mid-point of the arms between hub and rim.

## Table 1 • Service Factors

| Property | Cast Iron Rim (Based on .26 lb per cubic inch) | Steel Rim (Based on .283 lbs per cubic inch) | Rim of any Material (Weighing P Pounds per cubic inch) |
|---|---|---|---|
| Volume (Cubic Inches) | $.7854F(D^2 - d^2)$ | $.7854F(D^2 - d^2)$ | $.7854F(D^2 - d^2)$ |
| W Weight (Pounds) | $.2042F(D^2 - d^2)$ | $.2223F(D^2 - d^2)$ | $.7854FP(D^2 - d^2)$ |
| Radius of Gyration (Feet) | $\sqrt{\dfrac{.8681(D^2 + d^2)}{1000}}$ | $\sqrt{\dfrac{.8681(D^2 + d^2)}{1000}}$ | $\sqrt{\dfrac{.8681(D^2 + d^2)}{1000}}$ |
| $WR^2$ Wt. × Sq. of Radius of Gyration (lb × Ft$^2$) | $\dfrac{.1773F(D^4 - d^4)}{1000}$ | $\dfrac{.1929F(D^4 - d^4)}{1000}$ | $\dfrac{.6818FP(D^4 - d^4)}{1000}$ |
| T▲ Tensile Load in Rim (lb) | $\dfrac{.3078FN^2(D^3 - d^3)}{1000}$ | $\dfrac{.3350FN^2(D^3 - d^3)}{1000}$ | $\dfrac{1.184PFN^2(D^3 - d^3)}{1000}$ |

▲ Centrifugal force causes this tensile load at each and every section of the rim. Thus on rims split into two or more sections, the fastening at each joint should be designed to take the full load as calculated from the formula below.

## Electrical Formulas

R = Distance from the axis of rotation to the center of gravity of the body (feet)

N = Revolutions per minute (RPM)

v = Velocity of the center of gravity of the body (feet per second)

g = Acceleration due to gravity (32.16 commonly)

$$F = \frac{Wv^2}{gR} = \frac{WRN^2}{2933} = .000341\ WRN^2$$

F = Centrifugal force tending to move the body outward from the axis of rotation (pounds)

W = Weight of body (pounds)

# Weights of Steel

NOTE: The steel weights in this section are nominal and are based on an approximate weight of 40.80 pounds per square foot, one inch thick. There may be differences between nominal weights and actual scale weights because of variation in manufacturing practices.

## Hot Rolled and Cold Finished Steel Products Nominal Weight

| Product | Thickness | Width | Length | Formulas |
|---|---|---|---|---|
| Plates, Strip and Flats | Inches | Inches | Inches | .2833 × T × W × L |
| | Inches | Inches | Feet | 3.4 × T × W × L |
| | Inches | Feet | Feet | 40.8 × T × W × L |
| | USS. Ga No. | Feet | Feet | Wt./Sq. Ft. × W × L |
| | Wt. per Sq. Ft. | Feet | Feet | Wt./Sq. Ft. × W × L |
| Hot and C.R. Sheets | Inches | Inches | Inches | .2904 × T × W × L |
| | Inches | Inches | Feet | 3.485 × T × W × L |
| | Inches | Feet | Feet | 41.82 × T × W × L |
| | USS. Ga No. | Feet | Feet | Wt./Sq. Ft. × W × L |
| | Wt. per Sq. Ft. | Feet | Feet | Wt./Sq. Ft. × W × L |

| Product | | Thickness | Diameter | Formulas |
|---|---|---|---|---|
| Plate Circles | | Inches | Inches | .2225 × T × D2 |
| | | Inches | Feet | 32.05 × T × D2 |
| Sheet Circles | | Inches | Inches | .228 × T × D2 |
| | | Inches | Feet | 32.85 × T × D2 |
| | | **Diameter** | **Length** | **Formulas** |
| Bars | Square | Inches | Feet | 3.4 × D2 × L |
| | Round | Inches | Feet | 2.67 × D2 × L |
| | Hexagon | Inches | Feet | 2.945 × D2 × L |
| | Octagon | Inches | Feet | 2.817 × D2 × L |

T = thickness L = length W = width D = diameter

## Steel Rounds

| Size in Inches | Pounds Per Foot | Size in Inches | Pounds Per Foot |
|---|---|---|---|
| 7/8 | 2.04 | 2 15/16 | 23.04 |
| 15/16 | 2.35 | 3 | 24.03 |
| 1 | 2.67 | 3 1/16 | 25.05 |
| 1 1/16 | 3.01 | 3 1/8 | 26.08 |
| 1 1/8 | 3.38 | 3 3/16 | 27.13 |
| 1 3/16 | 3.77 | 3 1/4 | 28.20 |
| 1 1/4 | 4.17 | 3 5/16 | 29.30 |
| 1 5/16 | 4.60 | 3 3/8 | 30.42 |
| 1 3/8 | 5.05 | 3 7/16 | 31.55 |
| 1 7/16 | 5.52 | 3 1/2 | 32.71 |
| 1 1/2 | 6.01 | 3 9/16 | 33.89 |
| 1 9/16 | 6.52 | 3 5/8 | 35.09 |
| 1 5/8 | 7.05 | 3 11/16 | 36.31 |
| 1 11/16 | 7.60 | 3 3/4 | 37.55 |
| 1 3/4 | 8.18 | 3 15/16 | 38.81 |
| 1 13/16 | 8.77 | 3 7/8 | 40.10 |
| 1 7/8 | 9.39 | 3 15/16 | 41.40 |
| 1 15/16 | 10.02 | 4 | 42.73 |
| 2 | 10.68 | 4 1/16 | 44.07 |
| 2 1/16 | 11.36 | 4 1/8 | 45.44 |
| 2 1/8 | 12.06 | 4 3/16 | 46.83 |
| 2 3/16 | 12.78 | 4 1/4 | 48.23 |
| 2 1/4 | 13.52 | 4 5/16 | 49.66 |
| 2 3/16 | 14.28 | 4 3/8 | 51.11 |
| 2 3/8 | 15.06 | 4 7/16 | 52.58 |
| 2 7/16 | 15.87 | 4 1/2 | 54.08 |
| 2 1/2 | 16.69 | 4 9/16 | 55.59 |
| 2 9/16 | 17.53 | 4 5/8 | 57.12 |
| 2 5/8 | 18.40 | 4 11/16 | 58.68 |
| 2 11/16 | 19.29 | 4 3/4 | 60.25 |
| 2 3/4 | 20.19 | 4 13/16 | 61.85 |
| 2 13/16 | 21.12 | 4 7/8 | 63.46 |
| 2 7/8 | 22.07 | 4 15/16 | 65.10 |

## Standard Sheet Weights

| Ga. Number | Thickness in Inches | Weight Per Square Foot in Pounds |
|---|---|---|
| Over 3/16" are plates | | |
| 7 | .1793 | 7.500 |
| 8 | .1644 | 6.875 |
| 9 | .1494 | 6.250 |
| 10 | .1345 | 5.625 |
| 11 | .1196 | 5.000 |
| 12 | .1046 | 4.375 |
| 13 | .0897 | 3.750 |
| 14 | .0747 | 3.125 |
| 15 | .0673 | 2.812 |
| 16 | .0598 | 2.500 |

## Carbon Steel Plates

| Size in Inches | Weight Per Square Foot in Pounds |
|---|---|
| 3/16 | 7.76 |
| 1/4 | 10.20 |
| 5/16 | 12.75 |
| 3/8 | 15.30 |
| 7/16 | 17.85 |
| 1/2 | 20.40 |
| 9/16 | 22.95 |
| 5/8 | 25.50 |
| 3/4 | 30.60 |
| 13/16 | 33.15 |
| 7/8 | 35.70 |
| 1 | 40.80 |
| 1 1/8 | 45.90 |
| 1 1/4 | 51.00 |
| 1 3/8 | 56.10 |
| 1 1/2 | 61.20 |

Note: Stainless steel weighs approximately 10% more than carbon steel.

# Steel Properties

The information shown below is offered as a general guide to physical properties of steel in common use. Lower tensile properties are to be expected in large sections; the values of strength decrease as the size of the section increases. These values are not guaranteed and must **NOT** be used in specifying the raw materials or as a basis for acceptance or rejection of material. It must not be assumed that these properties will be obtained in all cases as they vary widely with permissible variations in analysis, size of section, rolling conditions, grain size, and methods of heat treatment. Dependable physical properties can only be obtained through carefully controlled analysis and heat treatment.

## Average Properties of Standard Steel

| AISI Number | SAE Number | Condition of Steel | Strength in 1000 PSI | | % Elong. in 2" | % Red. of Area | Hardness | | Machinability % of B1112 CD |
|---|---|---|---|---|---|---|---|---|---|
| | | | Tensile | Yield | | | Brinell | Rockwell | |
| B1112 | 1112 | COLD DRAWN BESSEMER | 75-90 | 60-70 | 12-16 | 40-50 | 170-185 | 80-95B | 100 |
| C1018 | 1018 | NATURAL HOT ROLLED | 55-70 | 40-50 | 25-35 | 50-65 | 120-140 | - | 55 |
| | | COLD DRAWN | 70-85 | 50-70 | 18-25 | 45-55 | 160-180 | 80-90B | 65 |
| | | 1" RD. CARBURIZED AT 1700°F, COOLED IN BOX, REHEATED, QUENCHED – CORE PROPERTIES | 90-100 | 60-80 | 10-22 | 35-50 | 200-230 | 93-98B | - |
| C1020 | 1020 | NATURAL HOT ROLLED | 60-80 | 40-50 | 25-35 | 50-65 | 120-145 | 60-98B | 50 |
| | | COLD DRAWN | 70-80 | 45-70 | 15-25 | 45-60 | 120-160 | 70-85B | 60 |
| C1117 | 1117 | NATURAL HOT ROLLED | 60-70 | 37-47 | 20-30 | 45-60 | 135-150 | - | 80 |
| | | COLD DRAWN | 80-90 | 60-75 | 15-20 | 40-50 | 160-190 | 80-90B | 90 |
| | | 1" RD. CARBURIZED AT 1700°F, COOLED IN BOX, REHEATED, QUENCHED – CORE PROPERTIES | 95-110 | 60-85 | 10-25 | 35-50 | 210-240 | 15-22C | - |
| C1035 | 1035 | NATURAL HOT ROLLED | 75-85 | 40-55 | 18-25 | 40-55 | 155-175 | - | 60 |
| | | COLD DRAWN | 85-95 | 65-80 | 15-25 | 40-50 | 170-200 | 85-95B | 65 |
| | | 1" RD. QUENCHED, TEMPERED 1000°F | 95-105 | 70-80 | 20-25 | 55-60 | 195-220 | 93-98B | 55 |
| C1040 | 1040 | NATURAL HOT ROLLED | 80-90 | 45-55 | 18-25 | 35-50 | 165-185 | - | 60 |
| | | COLD DRAWN | 90-100 | 70-85 | 14-20 | 35-50 | 190-215 | 91-98B | 62 |
| | | 1" RD. QUENCHED, TEMPERED 1000°F | 100-110 | 75-85 | 15-25 | 45-60 | 210-240 | 17-23C | 52 |
| C1042 | 1042 | NATURAL HOT ROLLED | 85-95 | 50-60 | 15-25 | 35-50 | 175-205 | - | 58 |
| | | COLD DRAWN | 90-105 | 75-90 | 12-20 | 30-45 | 185-215 | - | 60 |
| | | 1" RD. QUENCHED, TEMPERED 1000°F | 105-120 | 80-90 | 15-25 | 40-60 | 215-250 | - | - |
| C1045 | 1045 | NATURAL HOT ROLLED | 85-105 | 50-65 | 15-25 | 35-45 | 175-215 | - | 55 |
| | | COLD DRAWN | 90-110 | 75-90 | 12-20 | 30-45 | 195-230 | 95-99B | 58 |
| | | 1" RD. QUENCHED, TEMPERED 1000°F | 110-130 | 80-95 | 12-25 | 40-55 | 235-260 | 22-26C | 47 |
| C1141 | 1141 | NATURAL HOT ROLLED | 90-110 | 60-80 | 15-25 | 25-45 | 180-220 | - | 65 |
| | | COLD DRAWN | 100-120 | 85-105 | 8-18 | 20-50 | 195-230 | - | 70 |
| | | 1" RD. QUENCHED, TEMPERED 1000°F | 120-145 | 100-130 | 10-20 | 35-50 | 270-310 | - | - |
| C1144 | 1144 | NATURAL HOT ROLLED | 95-110 | 60-85 | 15-25 | 30-45 | 200-240 | - | 75 |
| | | COLD DRAWN | 100-120 | 90-115 | 7-17 | 20-45 | 210-245 | 17-23C | 85 |
| | | 1" RD. QUENCHED, TEMPERED 1000°F | 130-150 | 110-130 | 15 | 45 | 286-302 | 29-31C | - |
| C1050 | 1050 | NATURAL HOT ROLLED | 95-110 | 55-70 | 15-20 | 25-40 | 210-325 | - | 50 |
| | | 1" RD. QUENCHED, TEMPERED 1000°F | 115-135 | 85-100 | 10-22 | 35-50 | 240-265 | 23-27C | - |
| 4140 | 4140 | HOT ROLLED, ANNEALED | 90-100 | 60-70 | 20-30 | 50-60 | 185-210 | 91-95B | 55 |
| | | COLD DRAWN, ANNEALED | 110-120 | 85-95 | 15-25 | 45-55 | 230-250 | 20-25C | 65 |
| | | HEAT TREATED, COLD DRAWN. | 140-155 | 125-140 | 12-20 | 45-55 | 270-300 | 26-30C | 45 |
| | | 1" RD. QUENCHED, TEMPERED 1000°F | 150-160 | 130-140 | 15-20 | 50-60 | 320-350 | 34-37C | - |
| | | 2" RD. QUENCHED, TEMPERED 1000°F | 145-155 | 125-135 | 15-20 | 50-60 | 320-345 | 33-36C | - |
| | | 3" RD. QUENCHED, TEMPERED 1000°F | 130-145 | 115-125 | 15-20 | 55-65 | 280-310 | 28-32C | - |
| E52100 | 52100 | HOT ROLLED, ANNEALED . | 100-110 | 75-85 | 20-25 | 50-60 | 210-235 | - | 45 |
| | | 1"" RD. QUENCHED, TEMPERED 1000°F | 180-195 | 65-80 | 10-15 | 35-45 | 375-415 | 40-43C | - |
| 8620 | 8620 | NATURAL HOT ROLLED | 90-95 | 55-65 | 18-25 | 45-60 | 160-200 | 85-95B | 55 |
| | | COLD DRAWN | 90-105 | 65-80 | 15-25 | 40-50 | 185-215 | 90-96B | 60-70 |
| | | 1" RD. CARBURIZED 1700°F., COOLED IN BOX, REHEATED, QUENCHED – CORE PROPERTIES | 120-135 | 90-110 | 15-20 | 40-50 | 285-350 | 28-40C | - |
| 8645 | 8645 | NATURAL HOT ROLLED | 105-125 | 55-75 | 15-25 | 35-50 | 220-270 | 20-28C | 48-55 |
| | | HOT ROLLED, ANNEALED | 100-110 | 50-60 | 20-25 | 40-55 | 210-230 | 17-21C | 54 |
| | | 2" RD. QUENCHED, TEMPERED 1000°F | 140-150 | 110-125 | 15-20 | 45-55 | 300-320 | 30-34C | - |
| | | 3" RD. QUENCHED, TEMPERED 1000°F | 130-140 | 105-115 | 15-20 | 50-60 | 285-310 | 29-32C | - |
| 8742 | 8742 | NATURAL HOT ROLLED | 110-125 | 50-70 | 15-25 | 35-50 | 230-270 | 22-28C | 45-50 |
| | | COLD DRAWN, ANNEALED | 105-120 | 95-105 | 10-18 | 35-45 | 210-235 | 95-99B | 60 |
| | | 1" RD. QUENCHED, TEMPERED 1000°F | 155-165 | 135-145 | 15-20 | 45-52 | 330-335 | 35-38C | - |
| | | 2" RD. QUENCHED, TEMPERED 1000°F | 135-145 | 110-120 | 15-20 | 50-60 | 290-320 | 30-33C | - |

## Physical Properties of Various Metals

| Metals and Alloys | Stress in Thousands of Pounds per Square Inch | | | | Modulus of Elasticity 1,000,000 lb | Elongation % |
|---|---|---|---|---|---|---|
| | Tension Ultimate | Tension Yield Point | Compression Ultimate | Shea Ultimate | | |
| ALUMINUM, TYPE 3003-0, ANNEALED | 16 | 6 | - | 11 | 10 | 40 |
| ALUMINUM, TYPE 3003-H18, HARD. | 29 | 27 | - | 16 | 10 | 10 |
| ALUMINUM, TYPE 5052-0, ANNEALED | 28 | 13 | - | 18 | 10.2 | 30 |
| ALUMINUM, TYPE 5052-H38, HARD. | 42 | 37 | - | 24 | 10.2 | 8 |
| ALUMINUM, TYPE 5056-0, ANNEALED | 42 | 22 | - | 26 | 10.3 | 35 |
| ALUMINUM, TYPE 2014-0, ANNEALED. | 27 | 14 | - | 18 | 10.6 | 18 |
| ALUMINUM, TYPE 2014-T4, HEAT TREATED | 62 | 42 | - | 38 | 10.6 | 20 |
| ALUMINUM, TYPE C4A, CASTING, SOLUTION HEAT TREAT | 32 | 16 | 16▲ | 24 | - | 8.5 |
| ALUMINUM, TYPE S5C, AS DIE CAST | 30 | 16 | 16▲ | 19 | - | 9 |
| BRASS, ALUMINUM, ANNEALED | 60 | 27 | - | - | 16 | 55 |
| BRASS, RED, 15% ZN, ANNEALED. | 39 | 10 | - | 31 | 17 | 48 |
| BRASS, RED, 15% ZN, HARD | 70 | 57 | - | 42 | 17 | 5 |
| BRASS, RED, LEADED, CAST, GRADE 4A | 33-46 | 17-24 | 10-12▲ | - | 9.1-14.8 | 20-35 |
| BRASS, RED, LEADED, CAST, GRADE 4B | 30-38 | 12-17 | 11-12▲ | - | - | 15-27 |
| BRASS, YELLOW, 35% ZN, ANNEALED | 46 | 14 | - | 32 | 15 | 65 |
| BRASS, YELLOW, 35% ZN, HARD. | 74 | 60 | - | 43 | 15 | 8 |
| BRONZE, ALUMINUM, AS CAST | 67-95 | 27-45 | - | - | 15-18 | 5-35 |
| BRONZE, COMMERCIAL, 10% ZN, ANNEALED. | 37† | 10† | - | 28† | 17 | 45† |
| BRONZE, MANGANESE, ANNEALED. | 65† | 30† | - | 42† | 15 | 33† |
| BRONZE, PHOSPHOR, ANNEALED | 40-66 | 14-24 | - | - | 16-17 | 48-70 |
| BRONZE, TIN, HIGH LEADED, CAST | 23-38 | 11-22 | 12-16▲ | - | 8.5-13 | 7-20 |
| BRONZE, TIN, LEADED, CAST | 33-48 | 16-26 | 9-15▲ | - | 10.6-16 | 15-40 |
| COPPER, BERYLLIUM, ANNEALED | 60-80† | 25-35† | - | 50-60† | 19 | 35-50† |
| INCONEL, CAST. | 65-90 | - | - | - | 23 | 10-20 |
| INCONEL, S, CAST | 90-120 | 80-100 | - | - | 25 | 1-3 |
| IRON, CAST, CLASS 30 | 30-34 | - | 115 | 44 | 15 | - |
| IRON, CAST, CLASS 35 | 35-40 | - | 125 | 43 | 16 | - |
| IRON, MALLEABLE, CLASS 32510 | 50 | 33 | 90 | 46 | 25 | 10-18 |
| IRON, MALLEABLE, CLASS 35018 | 55 | 37 | 90 | 51 | 25 | 18-25 |
| IRON, NODULAR (DUCTILE) CLASS 60-45-10. | 60 | 45 | 120 | - | 22-25 | 10-25 |
| IRON, NODULAR (DUCTILE) CLASS 80-60-3. | 80 | 60 | 160 | - | 22-25 | 3-10 |
| IRON, PEARLITIC, MALLEABLE | 60-90 | 40-70 | - | - | 28 | 3-12 |
| IRON, WROUGHT, HOT ROLLED | 34-47 | 23-24 | - | - | 29 | 7-35 |
| LEAD, HARD, ROLLED. | 4.0-4.6 | - | - | - | - | 31-48 |
| MONEL, CAST | 65-90 | 32-45 | - | - | 23 | 20-50 |
| MONEL, S, CAST | 120-145 | 80-130 | - | - | 24.2 | 1-4 |
| MONEL, SHAPES, PLATE, ETC., ANNEALED | 70-85† | 25-45† | - | - | 26 | 35-50† |
| NICKEL, CAST | 50-65 | 15-30 | - | - | 21.5 | 15-30 |
| NICKEL, SILVER, ANNEALED | 49-63† | 18-30† | - | - | 17-18 | 35-60† |
| STEEL, CAST CARBON, CLASS 70,000 NORMALIZED. | 70 | 38 | - | - | 30 | 28 |
| STEEL, CAST LOW ALLOY, CLASS 100,000, NORMALIZE & TEMPERED | 100 | 68 | - | - | 29-30 | 20 |
| STEEL, CAST LOW ALLOY, CLASS 120,000, QUENCHED AND TEMPERED | 120 | 95 | - | - | 29-30 | 16 |
| STEEL, CAST LOW ALLOY, CLASS 200,000, QUENCHED AND TEMPERED | 200 | 170 | - | - | 29-30 | 5 |
| STEEL, SHEETS | 48 | 25 | - | - | 29-30 | 18-27 |
| STEEL, STAINLESS, AUSTENITIC, TYPES 304, 316 | 85 | 35 | - | - | 28 | 55-60 |
| STEEL, STAINLESS, MARTENSITIC, TYPE 416 | 75 | 40 | - | - | 29 | 30 |
| STEEL, STRUCTURAL, BRIDGE AND BUILDING, ASTM A7 | 60-72 | 33 | 33▲ | 45-54 | 29-30 | 21 |
| STEEL, STRUCTURAL, HIGH STRENGTH, LOW ALLOY, ASTM A242 | 63-72 | 42-50 | 42-50▲ | 47-53 | 29-30 | 18-24 |
| ZINC, DIE CAST ALLOY, XXIII. | 41 | - | 60▲ | 31 | - | 10 |

† When hardened, strength values are higher, elongation less.

▲ Compression yield point.

# Hardness Conversion Chart

## Brinell, Rockwell, and Scleroscope Hardness Numbers with Corresponding Tensile Strength

| Brinell 10 MM Ball 3000 Kg | Rockwell "C" 120 Cone 150 Kg | Scleroscope Shore Model C | Tensile Strength 1000 Pound Per Square Inch |
|---|---|---|---|
| 745 | 68 | 100 | 368 |
| 712 | 66 | 95 | 352 |
| 682 | 64 | 91 | 337 |
| 653 | 62 | 87 | 324 |
| 627 | 60 | 84 | 311 |
| 601 | 58 | 81 | 298 |
| 578 | 57 | 78 | 287 |
| 555 | 55 | 75 | 276 |
| 534 | 53 | 72 | 266 |
| 514 | 52 | 70 | 256 |
| 495 | 50 | 67 | 247 |
| 477 | 49 | 65 | 238 |
| 461 | 47 | 63 | 229 |
| 444 | 46 | 61 | 220 |
| 429 | 45 | 59 | 212 |
| 415 | 44 | 57 | 204 |
| 401 | 42 | 55 | 196 |
| 388 | 41 | 54 | 189 |
| 375 | 40 | 52 | 182 |
| 362 | 38 | 51 | 176 |
| 351 | 37 | 49 | 170 |
| 341 | 36 | 48 | 165 |
| 331 | 35 | 46 | 160 |
| 321 | 34 | 45 | 155 |
| 311 | 33 | 44 | 150 |
| 302 | 32 | 43 | 146 |
| 293 | 31 | 42 | 142 |
| 285 | 30 | 40 | 138 |
| 277 | 29 | 39 | 134 |
| 269 | 28 | 38 | 131 |
| 262 | 26 | 37 | 128 |
| 255 | 25 | 37 | 125 |
| 248 | 24 | 36 | 122 |
| 241 | 23 | 35 | 119 |
| 235 | 22 | 34 | 116 |
| 229 | 21 | 33 | 113 |
| 223 | 20 | 32 | 110 |
| | Rockwell "B" 1/16" Ball 100 Kg. | | |
| 217 | 97 | 31 | 107 |
| 212 | 96 | 31 | 104 |
| 207 | 95 | 30 | 101 |
| 202 | 94 | 30 | 99 |
| 197 | 93 | 29 | 97 |
| 192 | 92 | 28 | 95 |
| 187 | 91 | 28 | 93 |
| 183 | 90 | 27 | 91 |
| 179 | 89 | 27 | 89 |
| 174 | 88 | 26 | 87 |

# Decimal Equivalent Table

## Decimal and Millimeter Equivalents of Fractions

| Inches | | Millimeters | Inches | | Millimeters | Inches | | Millimeters |
|---|---|---|---|---|---|---|---|---|
| Fractions | Decimals | | Fractions | Decimals | | Fractions | Decimals | |
| 1/64 | 0.015625 | 0.397 | 23/64 | 0.359375 | 9.128 | 45/64 | 0.703125 | 17.859 |
| 1/32 | 0.03125 | 0.794 | 3/8 | 0.375 | 9.525 | 23/32 | 0.71875 | 18.256 |
| 3/64 | 0.406875 | 1.191 | 25/64 | 0.390625 | 9.922 | 47/64 | 0.734375 | 18.653 |
| 1/16 | 0.0625 | 1.588 | 13/32 | 0.40625 | 10.319 | 3/4 | 0.750 | 19.050 |
| 5/64 | 0.078125 | 1.984 | 27/64 | 0.421875 | 10.716 | 49/64 | 0.765625 | 19.447 |
| 3/32 | 0.09375 | 2.381 | 7/16 | 0.4375 | 11.113 | 25/32 | 0.78125 | 19.844 |
| 7/64 | 0.109375 | 2.778 | 29/64 | 0.453125 | 11.509 | 51/64 | 0.796875 | 20.241 |
| 1/8 | 0.125 | 3.175 | 15/32 | 0.46875 | 11.906 | 13/16 | 0.8125 | 20.638 |
| 9/64 | 0.140625 | 3.572 | 31/64 | 0.484375 | 12.303 | 53/64 | 0.828125 | 21.034 |
| 5/32 | 0.15625 | 3.969 | 1/2 | 0.500 | 12.700 | 27/32 | 0.84375 | 21.431 |
| 11/64 | 0.171875 | 4.366 | 33/64 | 0.515625 | 13.097 | 55/64 | 0.859375 | 21.828 |
| 3/16 | 0.1875 | 4.763 | 17/32 | 0.53125 | 13.494 | 7/8 | 0.875 | 22.225 |
| 13/64 | 0.203125 | 5.159 | 35/64 | 0.546875 | 13.891 | 57/64 | 0.890625 | 22.622 |
| 7/32 | 0.21875 | 5.556 | 9/16 | 0.5625 | 14.288 | 29/32 | 0.90625 | 23.019 |
| 15/64 | 0.234375 | 5.953 | 37/64 | 0.578125 | 14.684 | 59/64 | 0.921875 | 23.416 |
| 1/4 | 0.250 | 6.350 | 19/32 | 0.59375 | 15.081 | 15/16 | 0.9375 | 23.813 |
| 17/64 | 0.265625 | 6.747 | 39/64 | 0.609375 | 15.478 | 61/64 | 0.953125 | 24.209 |
| 9/32 | 0.28125 | 7.144 | 5/8 | 0.625 | 15.875 | 31/32 | 0.96875 | 24.606 |
| 19/64 | 0.296875 | 7.541 | 41/64 | 0.640625 | 16.272 | 63/64 | 0.984375 | 25.003 |
| 5/16 | 0.3125 | 7.938 | 21/32 | 0.65625 | 16.669 | 1 | 1.000 | 25.400 |
| 21/64 | 0.328125 | 8.334 | 43/64 | 0.671875 | 17.066 | | | |
| 11/32 | 0.34375 | 8.731 | 11/16 | 0.6875 | 17.463 | | | |

## Decimal Equivalents of Millimeters

| MM | Inches | MM | Inches | MM | Inches | MM | Inches | MM | Inches | MM | Inches | MM | Inches | MM | Inches |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.1 | .00394 | 9.5 | 0.37401 | 22.5 | 0.88582 | 35.5 | 1.39763 | 48.5 | 1.90944 | 61.5 | 2.42125 | 74.5 | 2.93306 | 87.5 | 3.44487 |
| 0.2 | .00787 | 10.0 | 0.39370 | 23.0 | 0.90551 | 36.0 | 1.41732 | 49.0 | 1.92913 | 62.0 | 2.44094 | 75.0 | 2.95275 | 88.0 | 3.46456 |
| 0.3 | .01181 | 10.5 | 0.41338 | 23.5 | 0.92519 | 36.5 | 1.43700 | 49.5 | 1.94881 | 62.5 | 2.46062 | 75.5 | 2.97243 | 88.5 | 3.48424 |
| 0.4 | .01575 | 11.0 | 0.43307 | 24.0 | 0.94488 | 37.0 | 1.45669 | 50.0 | 1.96850 | 63.0 | 2.48031 | 76.0 | 2.99212 | 89.0 | 3.50393 |
| 0.5 | .01968 | 11.5 | 0.45275 | 24.5 | 0.96456 | 37.5 | 1.47637 | 50.5 | 1.98818 | 63.5 | 2.49999 | 76.5 | 3.01180 | 89.5 | 3.52361 |
| 0.6 | .02362 | 12.0 | 0.47244 | 25.0 | 0.98425 | 38.0 | 1.49606 | 51.0 | 2.00787 | 64.0 | 2.51968 | 77.0 | 3.03149 | 90.0 | 3.54330 |
| 0.7 | .02756 | 12.5 | 0.49212 | 25.5 | 1.00393 | 38.5 | 1.51574 | 51.5 | 2.02755 | 64.5 | 2.53936 | 77.5 | 3.05117 | 90.5 | 3.56298 |
| 0.8 | .03149 | 13.0 | 0.51181 | 26.0 | 1.02362 | 39.0 | 1.53543 | 52.0 | 2.04724 | 65.0 | 2.55905 | 78.0 | 3.07086 | 91.0 | 3.58267 |
| 0.9 | .03543 | 13.5 | 0.53149 | 26.5 | 1.04330 | 39.5 | 1.55511 | 52.5 | 2.06692 | 65.5 | 2.57873 | 78.5 | 3.09054 | 91.5 | 3.60235 |
| 1.0 | .03937 | 14.0 | 0.55118 | 27.0 | 1.06299 | 40.0 | 1.57480 | 53.0 | 2.08661 | 66.0 | 2.59842 | 79.0 | 3.11023 | 92.0 | 3.62204 |
| 1.5 | .05905 | 14.5 | 0.57086 | 27.5 | 1.08267 | 40.5 | 1.59488 | 53.5 | 2.10629 | 66.5 | 2.61810 | 79.5 | 3.12991 | 92.5 | 3.64172 |
| 2.0 | .07874 | 15.0 | 0.59055 | 28.0 | 1.10236 | 41.0 | 1.61417 | 54.0 | 2.12598 | 67.0 | 2.63779 | 80.0 | 3.14960 | 93.0 | 3.66141 |
| 2.5 | .09842 | 15.5 | 0.61023 | 28.5 | 1.12204 | 41.5 | 1.63385 | 54.5 | 2.14566 | 67.5 | 2.65747 | 80.5 | 3.16928 | 93.5 | 3.68109 |
| 3.0 | .11811 | 16.0 | 0.62992 | 29.0 | 1.14173 | 42.0 | 1.65354 | 55.0 | 2.16535 | 68.0 | 2.67716 | 81.0 | 3.18897 | 94.0 | 3.70078 |
| 3.5 | .13779 | 16.5 | 0.64960 | 29.5 | 1.16141 | 42.5 | 1.67322 | 55.5 | 2.18503 | 68.5 | 2.69684 | 81.5 | 3.20865 | 94.5 | 3.72046 |
| 4.0 | .15748 | 17.0 | 0.66929 | 30.0 | 1.18110 | 43.0 | 1.69291 | 56.0 | 2.20472 | 69.0 | 2.71653 | 82.0 | 3.22834 | 95.0 | 3.74015 |
| 4.5 | .17716 | 17.5 | 0.68897 | 30.5 | 1.20078 | 43.5 | 1.71259 | 56.5 | 2.22440 | 69.5 | 2.73621 | 82.5 | 3.24802 | 95.5 | 3.75983 |
| 5.0 | .19685 | 18.0 | 0.70866 | 31.0 | 1.22047 | 44.0 | 1.73228 | 57.0 | 2.24409 | 70.0 | 2.75590 | 83.0 | 3.26771 | 96.0 | 3.77952 |
| 5.5 | .21653 | 18.5 | 0.72834 | 31.5 | 1.24015 | 44.5 | 1.75196 | 57.5 | 2.26377 | 70.5 | 2.77558 | 83.5 | 3.28739 | 96.5 | 3.79920 |
| 6.0 | .23622 | 19.0 | 0.74803 | 32.0 | 1.25984 | 45.0 | 1.77165 | 58.0 | 2.28346 | 71.0 | 2.79527 | 84.0 | 3.30708 | 97.0 | 3.81889 |
| 6.5 | .25590 | 19.5 | 0.76771 | 32.5 | 1.27952 | 45.5 | 1.79133 | 58.5 | 2.30314 | 71.5 | 2.81495 | 84.5 | 3.32676 | 97.5 | 3.83857 |
| 7.0 | .27559 | 20.0 | 0.78740 | 33.0 | 1.29921 | 46.0 | 1.81102 | 59.0 | 2.32283 | 72.0 | 2.83464 | 85.0 | 3.34645 | 98.0 | 3.85826 |
| 7.5 | .29527 | 20.5 | 0.80708 | 33.5 | 1.31889 | 46.5 | 1.83070 | 59.5 | 2.34251 | 72.5 | 2.85432 | 85.5 | 3.36613 | 98.5 | 3.87794 |
| 8.0 | .31496 | 21.0 | 0.82677 | 34.0 | 1.33858 | 47.0 | 1.85039 | 60.0 | 2.36220 | 73.0 | 2.87401 | 86.0 | 3.38682 | 99.0 | 3.89763 |
| 8.5 | .34464 | 21.5 | 0.84645 | 34.5 | 1.35826 | 47.5 | 1.87007 | 60.5 | 2.38188 | 73.5 | 2.89369 | 86.5 | 3.40550 | 99.5 | 3.91731 |
| 9.0 | .35433 | 22.0 | 0.86614 | 35.0 | 1.37795 | 48.0 | 1.88976 | 61.0 | 2.40157 | 74.0 | 2.91338 | 87.0 | 3.42519 | 100.0 | 3.93700 |

# English Metric System Equivalents

## Decimal Equivalents of Millimeters

| Unit | Millimeters | Centimeters | Inches | Feet | Yards | Meters |
|---|---|---|---|---|---|---|
| 1 MILLIMETER = | 1 | .1 | .03937 | .003281 | .001094 | .001 |
| 1 CENTIMETER = | 10 | 1 | .3937 | .032808 | .010936 | .01 |
| 1 INCH = | 25.4001 | 2.54001 | 1 | .083333 | .027778 | .025400 |
| 1 FOOT = | 304.801 | 30.4801 | 12 | 1 | .333333 | .304801 |
| 1 YARD = | 914.402 | 91.4402 | 36 | 3 | 1 | .914402 |
| 1 METER = | 1000 | 100 | 39.37 | 3.28083 | 1.09361 | 1 |

| Unit | Feet | Yards | Meters | Rods | Furlongs | Miles (Statute) |
|---|---|---|---|---|---|---|
| 1 ROD = | 16.5 | 5.5 | 5.02921 | 1 | .025 (1/40) | .003125 (1/320) |
| 1 FURLONG = | 660 | 220 | 201.168 | 40 | 1 | .125 (1/8) |
| 1 KILOMETER = | 3280.8 | 1093.6 | 1000 | 199 | 4.971 | .62137 |
| 1 MILE (STATUTE) = | 5280 | 1760 | 1609.35 | 320 | 8 | 1 |

1 NAUTICAL MILE = 6080.2 FEET = 1.15155 STATUTE MILES = 1/3 LEAGUE.
1 LIGHT YEAR = 5.879 TRILLION MILES = 9.46 TRILLION KILOMETERS.

## Weight Equivalents

| Unit | Grains | Grams | Ounces (Troy) | Ounces (Avoir.) | Pounds (Troy) | Pounds (Avoir.) | Kilograms |
|---|---|---|---|---|---|---|---|
| 1 MILLIMETER = | 1 | .064799 | .002083 | .002286 | .000174 | .000143 | .000065 |
| 1 OUNCE (TROY) = | 480 | 31.1035 | 1 | 1.09714 | .083333 | .068571 | .031104 |
| 1 OUNCE (AVOIR.) = | 437.5 | 28.3495 | .911458 | 1 | .075955 | .0625 | .028350 |
| 1 POUND (TROY) = | 5760 | 373.242 | 12 | 13.1657 | 1 | .822857 | .373242 |
| 1 POUND (AVOIR.) = | 7000 | 453.592 | 14.5833 | 16 | 1.21528 | 1 | .453592 |
| 1 KILOGRAM = | 15432.4 | 1000 | 32.1507 | 35.2740 | 2.67923 | 2.20462 | 1 |

| Unit | Kilograms | Pounds (Troy) | Pounds (Avoir.) | Metric Tons | Net (Short) Tons | Gross (Long) Tons |
|---|---|---|---|---|---|---|
| 1 METRIC TON = | 1000 | 2679.23 | 2204.62 | 1 | 1.10231 | .984206 |
| 1 NET (SHORT) TON = | 907.185 | 2430.56 | 2000 | .907185 | 1 | .892857 |
| 1 GROSS (LONG) TON = | 1016.05 | 2722.22 | 2240 | 1.01605 | 1.12 | 1 |

## Volume and Capacity Equivalents

| Unit | Cubic Centimeters | Cubic Inches | Liters | Quarts (Liquid) | Quarts (Dry) | Gallons (Liquid) | Gallons (Dry) | Cubic Feet |
|---|---|---|---|---|---|---|---|---|
| 1 CU. CENTIMETER = | 1 | .06102 | .001 | .00106 | .00091 | .00026 | .00023 | .00004 |
| 1 CU. INCH = | 16.387 | 1 | .01639 | .01732 | .01488 | .00433 | .00372 | .00058 |
| 1 GILL = | 118.29 | 7.2188 | .11829 | .125 | .10742 | .03125 | .02686 | .00418 |
| 1 PINT (LIQUID) = | 473.18 | 28.875 | .47318 | .5 | .42968 | .125 | .10742 | .01671 |
| 1 PINT (DRY) = | 550.62 | 33.600 | .55062 | .58182 | .5 | .14546 | .125 | .01945 |
| 1 LITER = | 1000 | 61.023 | 1 | 1.0567 | .90808 | .26417 | .22702 | .03531 |
| 1 QUART (LIQUID) = | 946.36 | 57.75 | .94636 | 1 | .85937 | .25 | .21484 | .03342 |
| 1 QUART (DRY) = | 1101.2 | 67.201 | 1.1012 | 1.1637 | 1 | .29091 | .25 | .03889 |
| 1 GALLON (LIQUID) = | 3785.4 | 231 | 3.7854 | 4 | 3.4375 | 1 | .85937 | .13368 |
| 1 GALLON (DRY) = | 4404.9 | 268.80 | 4.4049 | 4.6546 | 4 | 1.1636 | 1 | .15556 |
| 1 PECK = | 8809.8 | 537.61 | 8.8098 | 9.3092 | 8 | 2.3273 | 2 | .31111 |
| 1 CU. FOOT = | 28317.0 | 1728 | 28.317 | 29.922 | 25.714 | 7.4805 | 6.4285 | 1 |
| 1 BUSHEL = | 35239.3 | 2150.4 | 35.239 | 37.237 | 32 | 9.3092 | 8 | 1.2445 |
| 1 BARREL = | 119241.2 | 7276.5 | 119.24 | 126 | 108.28 | 31.5 | 27.070 | 4.2109 |
| 1 CU. YARD = | 764559.4 | 46656 | 764.56 | 807.90 | 694.28 | 201.97 | 173.57 | 27 |
| 1 CU. METER = | 1000000 | 61023.4 | 1000 | 1056.7 | 908.08 | 264.17 | 227.02 | 35.314 |

# English Metric System Equivalents

## Area Equivalents

| Unit | Cubic Centimeters | Cubic Inches | Liters | Quarts (Liquid) |
|---|---|---|---|---|
| 1 SQUARE FOOT = | 144 | 1 | .1111 | .09290 |
| 1 SQUARE YARD = | 1296 | 9 | 1 | .83613 |
| 1 SQUARE METER = | 1550 | 10.7639 | 1.19599 | 1 |
| 1 SQUARE ROD = | 39204 | 272.25 | 30.25 | 25.293 |
| 1 ARE = | 155000 | 1076.39 | 119.599 | 100 |
| 1 ACRE = | 6272640 | 43560 | 4840 | 4046.86 |
| 1 SQUARE MILE (640 ACRES) = | – | 27878400 | 3097600 | 2589999 |
| 1 SQUARE KILOMETER = | – | 10763867 | 1195985 | 1000000 |

## Power Equivalents

| Unit | BTU/Hour | Foot-Pound/Hour | Foot-Pound/ Minute | HP | HP (Metric) | Watt | Kilowatt |
|---|---|---|---|---|---|---|---|
| 1 BTU/HR. = | 1 | 778.1688 | 12.96948 | .000393 | .000398 | .293071 | .000293 |
| 1 FT.LB./HR. = | .001285 | 1 | – | $5.05\times10^{-7}$ | $5.12\times10^{-7}$ | .0003766 | $3.766\times10^{-7}$ |
| 1 FT.LB./MIN. = | .077104 | – | 1 | $3.0303\times10^{-5}$ | $3.072\times10^{-7}$ | .022597 | $2.26\times10^{-5}$ |
| 1 HP = | 2544.43 | 1980000 | 33000 | 1 | 1.01387 | 745.699 | .7457 |
| 1 HP MET. = | 2509.622 | 1952914 | 32548.56 | .986320 | 1 | 735.499 | .735499 |
| 1 WATT = | 3.41214 | 2655.224 | 44.2537 | .0013410 | .0013596 | 1 | .001 |

NOTE: Foot-Pounds indicates energy.
Pound-Feet indicates torque (Page M-2).

## Metric System

**Length**

1 meter (m) = 10 decimeters(dm)
100 centimeters(cm)
1,000 millimeters(mm)

1 dekameter (dkm) = 10 meters (m)
1 hectometer (hm) = 100 meters (m)
1 kilometer (km) = 1,000 meters (m)

**Weight**

1 gram (g) = 10 decigrams (dg)
100 centigrams (cg)
1,000 milligrams (mg)

1 dekagram (dkg) = 10 grams (g)
1 hectogram (hg) = 100 grams (g)
1 kilogram (kg = 1000 grams (g)

1 metric ton = 1000 kilograms (kg)
1,000,000 grams (g)

**Volume & Capacity**

1 liter (l) = 1 cubic decimeter($dm^3$)
10 deciliters (dl)
100 centiliters(cl)
1,000 milliliters (ml)
1,000 cubic centimeters ($cm^3$ or cc)

1 dekaliter (dkl) = 10 liters (l)
1 hectoliter (hl) = 100 liters (l)

1 kiloliter (kl) = 1 cubic meter ($m^3$)
1 stere (s)
1,000 liters (l)

**Area**

1 centare (ca) = 1 square meter ($m^2$)
100 square decimeters ($dm^2$)
10,000 square centimeters ($cm^2$)
1,000,000 square millimeters ($mm^2$)

1 are (a) = 1 square dekameter ($dkm^2$)
100 square meters ($m^2$)

1 hectare (ha) = 100 ares (a)
10,000 square meters ($m^2$)

1 square kilometer ($km^2$) = 10 meters (m)

**Other prefixes commonly used:**

micro — one millionth
deca — 10 times (same as deka)
myria — 10,000 times
mega — 1,000,000 times

# Engineering Formulas and Constants

## Circle

**Area** = Square of Diameter × .7854
**or** square of Radius × 3.1416

**Circumference** = Diameter × 3.1416

**Diameter** = Circumference × .3183

Doubling diameter increases area four times; tripling diameter increases area nine times, etc.

## Square

**Area** = Square of Side

**Diagonal** = Side × 1.4142

**Side** = Diagonal × .7071

## Square Inscribed in Circle

**Side of Square** = Diameter of Circle × .7071
**or** Circumference of Circle × .2251

**Diameter of Circle** = Side of Square × 1.4142

**Circumference of Circle** = Side of Square × 4.4429

## Square and Circle with Equal Area

**Side of Square** = Diameter of Circle × .8862

**Diameter of Circle** = Side of Square × 1.128

**Circumference of Circle** = Side of Square × 3.545

## Rectangle

**Area** = Length × Width

**Diagonal** = Square root of sum of squares of width and length

## Triangle

**Area** = Base × 1/2 of Perpendicular Height

## Sphere

**Area of Surface** = Square of Diameter × 3.1416

**Volume** = Cube of Diameter × .5236

## Cube

**Area of Surface** = Square of Side × 6

**Volume** = Cube of Side

**Diagonal** = Side × 1.732

## Cylinder

**Area of Curved Surface** = Diameter × Length × 3.1416

**Volume** = Square of Diameter × Length × .7854

## Cone

**Area of Curved Surface** = Diameter of Base × Slant Height × 1.5708

**Volume** = Diameter of Base Squared × Perpindicular Height × .2618 or Area of Base × 1/3 Perpendicular Height

---

1 HP = 33,000 Foot-pounds of work per minute.

1 BTU = Heat required to raise 1 pound of water °F.

1 Kilowatt Hour = 3415 BTU

1 Radian = 57.296 degrees.

1 Register Ton = 100 cubic feet

1 U.S. Shipping Ton = 40 cubic feet

1 British Shipping Ton = 42 cubic feet

1 Cubic Foot/Minute = 471.9474 cubic cm/second

1 Cubic Foot/Minute = .1246753 gallons (U.S.)/second

1 Cubic Foot/Second = 2.2222 cubic yards/minute

1 Gallon (U.S.)/Minute = 8.020834 cubic feet/hour

1 Gallon (U.S.)/Minute = 3.785412 liter/minute

1 Liter/Minute = 2.118880 cubic feet/hour

1 Cubic Mitre/Minute = 264.1720 Gallons (U.S.)/Minute

1 Pound/Gallon (U.S.) = 7.480519 pound/cubic feet

1 Mile/Hour = 88 feet/minute

1 Foot/Minute = .01136364 miles/hour

1 Pound per Square Inch Pressure (PSI) = 144 pounds/square foot = 2.3095 feet fresh water at 62°F = 2.0355 inches mercury at 32°F = 2.0416 inches mercury at 62°F = .068 atmospheres.

Water Pressure (pounds per square inch) = .433 × height of water in feet (Fresh water at 62°F).

Weight of 1 cubic foot of fresh water = 62.355 pounds at 62°F = 59.76 pounds at 212°F.

Weight of 1 gallon (U.S.) water = 8.34 pounds

Weight of 1 cubic foot of Air at 14.7 lbs per square inch Pressure = .07608 pounds at 62°F = .08703 pounds at 32°F.

Watts = Amperes × Volts

1 Watt-Hour = 3.41214 BTU = 859.845 Calorie = 3600 Joule.

g = Acceleration due to gravity at Sea Level, Latitude 45° = 32.1726 Feet/Second squared.

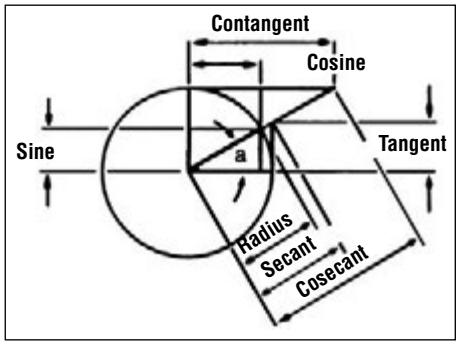
1 pound-foot (torque) = 1.355818 Newton-Metre

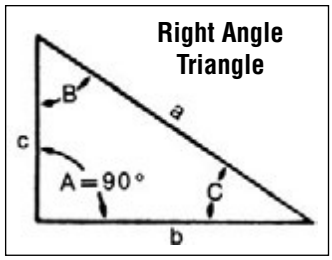
# Area/Circumference Table

## Circumferences and Areas of Circles (1 — 31 7/8 Diameters)

| Diameter | Circumference | Area | Diameter | Circumference | Area | Diameter | Circumference | Area | Diameter | Circumference | Area |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.1416 | 0.7854 | 5 1/2 | 17.2788 | 23.758 | 14 | 43.9823 | 153.94 | 23 | 72.2566 | 415.48 |
| 1 1/16 | 3.3379 | 0.8866 | 5 9/16 | 17.4751 | 24.301 | 14 1/8 | 44.3750 | 156.70 | 23 1/8 | 72.6493 | 420.00 |
| 1 1/8 | 3.5343 | 0.9940 | 5 5/8 | 17.6715 | 24.850 | 14 1/4 | 44.7677 | 159.48 | 23 1/4 | 73.0420 | 424.56 |
| 1 3/16 | 3.7306 | 1.1075 | 5 11/16 | 17.8678 | 25.406 | 14 3/8 | 45.1604 | 162.30 | 23 3/8 | 73.4347 | 429.13 |
| 1 1/4 | 3.9270 | 1.2272 | 5 3/4 | 18.0642 | 25.967 | 14 1/2 | 45.5531 | 165.13 | 23 1/2 | 73.8274 | 433.74 |
| 1 5/16 | 4.1233 | 1.3530 | 5 13/16 | 18.2605 | 26.535 | 14 5/8 | 45.9458 | 167.99 | 23 5/8 | 74.2201 | 438.36 |
| 1 3/8 | 4.3197 | 1.4849 | 5 7/8 | 18.4569 | 27.100 | 14 3/4 | 46.3385 | 170.87 | 23 3/4 | 74.6128 | 443.01 |
| 1 7/16 | 4.5160 | 1.6230 | 5 15/16 | 18.6532 | 27.688 | 14 7/8 | 46.7312 | 173.78 | 23 7/8 | 75.0055 | 447.69 |
| 1 1/2 | 4.7124 | 1.7671 | 6 | 18.8496 | 28.274 | 15 | 47.1239 | 176.71 | 24 | 75.3982 | 452.39 |
| 1 9/16 | 4.9087 | 1.9175 | 6 1/8 | 19.2423 | 29.465 | 15 1/8 | 47.5166 | 179.67 | 24 1/8 | 75.7909 | 457.11 |
| 1 5/8 | 5.1051 | 2.0739 | 6 1/4 | 19.6350 | 30.680 | 15 1/4 | 47.9093 | 182.65 | 24 1/4 | 76.1836 | 461.86 |
| 1 11/16 | 5.3014 | 2.2365 | 6 3/8 | 20.0277 | 31.919 | 15 3/8 | 48.3020 | 185.66 | 24 3/8 | 76.5763 | 466.64 |
| 1 3/4 | 5.4978 | 2.4053 | 6 1/2 | 20.4204 | 33.183 | 15 1/2 | 48.6947 | 188.69 | 24 1/2 | 76.9690 | 471.44 |
| 1 13/16 | 5.6941 | 2.5802 | 6 5/8 | 20.8131 | 34.472 | 15 5/8 | 49.0874 | 191.75 | 24 5/8 | 77.3617 | 476.26 |
| 1 7/8 | 5.8905 | 2.7612 | 6 3/4 | 21.2058 | 35.785 | 15 3/4 | 49.4801 | 194.83 | 24 3/4 | 77.7544 | 481.11 |
| 1 15/16 | 6.0868 | 2.9483 | 6 7/8 | 21.5984 | 37.122 | 15 7/8 | 49.8728 | 197.93 | 24 7/8 | 78.1471 | 485.98 |
| 2 | 6.2832 | 3.1416 | 7 | 21.9911 | 38.485 | 16 | 50.2655 | 201.06 | 25 | 78.5398 | 490.87 |
| 2 1/16 | 6.4795 | 3.3410 | 7 1/8 | 22.3838 | 39.871 | 16 1/8 | 50.6582 | 204.22 | 25 1/8 | 78.9325 | 495.79 |
| 2 1/8 | 6.6759 | 3.5466 | 7 1/4 | 22.7765 | 41.282 | 16 1/4 | 51.0509 | 207.39 | 25 1/4 | 79.3252 | 500.74 |
| 2 3/16 | 6.8722 | 3.7583 | 7 3/8 | 23.1692 | 42.718 | 16 3/8 | 51.4436 | 210.60 | 25 3/8 | 79.7179 | 505.71 |
| 2 1/4 | 7.0686 | 3.9761 | 7 1/2 | 23.5619 | 44.179 | 16 1/2 | 51.8363 | 213.82 | 25 1/2 | 80.1106 | 510.71 |
| 2 5/16 | 7.2649 | 4.2000 | 7 5/8 | 23.9546 | 45.664 | 16 5/8 | 52.2290 | 217.08 | 25 5/8 | 80.5033 | 515.72 |
| 2 3/8 | 7.4613 | 4.4301 | 7 3/4 | 24.3473 | 47.173 | 16 3/4 | 52.6217 | 220.35 | 25 3/4 | 80.9060 | 520.77 |
| 2 7/16 | 7.6576 | 4.6664 | 7 7/8 | 24.7400 | 48.707 | 16 7/8 | 53.0144 | 223.65 | 25 7/8 | 81.2887 | 525.84 |
| 2 1/2 | 7.8540 | 4.9087 | 8 | 25.1327 | 50.265 | 17 | 53.4071 | 226.98 | 26 | 81.6814 | 530.93 |
| 2 9/16 | 8.0503 | 5.1572 | 8 1/8 | 25.5254 | 51.849 | 17 1/8 | 53.7998 | 230.33 | 26 1/8 | 82.0741 | 536.05 |
| 2 5/8 | 8.2467 | 5.4119 | 8 1/4 | 25.9181 | 53.456 | 17 1/4 | 54.1925 | 233.71 | 26 1/4 | 82.4668 | 541.19 |
| 2 11/16 | 8.4430 | 5.6727 | 8 3/8 | 26.3108 | 55.088 | 17 3/8 | 54.5852 | 237.10 | 26 3/8 | 82.8595 | 546.35 |
| 2 3/4 | 8.6394 | 5.9396 | 8 1/2 | 26.7035 | 56.745 | 17 1/2 | 54.9779 | 240.53 | 26 1/2 | 83.2522 | 551.55 |
| 2 13/16 | 8.8357 | 6.2126 | 8 5/8 | 27.0962 | 58.426 | 17 5/8 | 55.3706 | 243.98 | 26 5/8 | 83.6449 | 556.76 |
| 2 7/8 | 9.0321 | 6.4918 | 8 3/4 | 27.4889 | 60.132 | 17 3/4 | 55.7633 | 247.45 | 26 3/4 | 84.0376 | 562.00 |
| 2 15/16 | 9.2284 | 6.7771 | 8 7/8 | 27.8816 | 61.862 | 17 7/8 | 56.1560 | 250.95 | 26 7/8 | 84.4303 | 567.27 |
| 3 | 9.4248 | 7.0686 | 9 | 28.2743 | 63.617 | 18 | 56.5487 | 254.47 | 27 | 84.8230 | 572.56 |
| 3 1/16 | 9.6211 | 7.3662 | 9 1/8 | 28.6670 | 65.397 | 18 1/8 | 56.9414 | 258.02 | 27 1/8 | 85.2157 | 577.87 |
| 3 1/8 | 9.8175 | 7.6699 | 9 1/4 | 29.0597 | 67.201 | 18 1/4 | 57.3341 | 261.59 | 27 1/4 | 85.6084 | 583.21 |
| 3 3/16 | 10.0138 | 7.9798 | 9 3/8 | 29.4524 | 69.029 | 18 3/8 | 57.7268 | 265.18 | 27 3/8 | 86.0011 | 588.57 |
| 3 1/4 | 10.2102 | 8.2958 | 9 1/2 | 29.8451 | 70.882 | 18 1/2 | 58.1195 | 268.80 | 27 1/2 | 86.3938 | 593.96 |
| 3 5/16 | 10.4065 | 8.6179 | 9 5/8 | 30.2378 | 72.760 | 18 5/8 | 58.5122 | 272.45 | 27 5/8 | 86.7865 | 599.37 |
| 3 3/8 | 10.6029 | 8.9462 | 9 3/4 | 30.6305 | 74.662 | 18 3/4 | 58.9049 | 276.12 | 27 3/4 | 87.1792 | 604.81 |
| 3 7/16 | 10.7992 | 9.2806 | 9 7/8 | 31.0232 | 76.589 | 18 7/8 | 59.2976 | 279.81 | 27 7/8 | 87.5719 | 610.27 |
| 3 1/2 | 10.9956 | 9.6211 | 10 | 31.4159 | 78.540 | 19 | 59.6903 | 283.53 | 28 | 87.965 | 615.75 |
| 3 9/16 | 11.1919 | 9.9678 | 10 1/8 | 31.8086 | 80.516 | 19 1/8 | 60.0830 | 287.27 | 28 1/8 | 88.357 | 621.26 |
| 3 5/8 | 11.3883 | 10.321 | 10 1/4 | 32.2013 | 82.516 | 19 1/4 | 60.4757 | 291.04 | 28 1/4 | 88.750 | 626.80 |
| 3 11/16 | 11.5846 | 10.680 | 10 3/8 | 32.5940 | 84.541 | 19 3/8 | 60.8684 | 294.83 | 28 3/8 | 89.143 | 632.36 |
| 3 3/4 | 11.7810 | 11.045 | 10 1/2 | 32.9867 | 86.590 | 19 1/2 | 61.2611 | 298.65 | 28 1/2 | 89.535 | 637.94 |
| 3 13/16 | 11.9773 | 11.416 | 10 5/8 | 33.3794 | 88.664 | 19 5/8 | 61.6538 | 302.49 | 28 5/8 | 89.928 | 643.55 |
| 3 7/8 | 12.1737 | 11.793 | 10 3/4 | 33.7721 | 90.763 | 19 3/4 | 62.0465 | 306.35 | 28 3/4 | 90.321 | 649.18 |
| 3 15/16 | 12.3700 | 12.177 | 10 7/8 | 34.1648 | 92.886 | 19 7/8 | 62.4392 | 310.24 | 28 7/8 | 90.713 | 654.84 |
| 4 | 12.5664 | 12.566 | 11 | 34.5575 | 95.033 | 20 | 62.8319 | 314.16 | 29 | 91.106 | 660.52 |
| 4 1/16 | 12.7627 | 12.962 | 11 1/8 | 34.9502 | 97.205 | 20 1/8 | 63.2246 | 318.10 | 29 1/8 | 91.499 | 666.23 |
| 4 1/8 | 12.9591 | 13.364 | 11 1/4 | 35.3429 | 99.402 | 20 1/4 | 63.6173 | 322.06 | 29 1/4 | 91.892 | 671.96 |
| 4 3/16 | 13.1554 | 13.772 | 11 3/8 | 35.7356 | 101.62 | 20 3/8 | 64.0100 | 326.05 | 29 3/8 | 92.284 | 677.71 |
| 4 1/4 | 13.3518 | 14.185 | 11 1/2 | 36.1283 | 103.87 | 20 1/2 | 64.4026 | 330.06 | 29 1/2 | 92.677 | 683.49 |
| 4 5/16 | 13.5481 | 14.607 | 11 5/8 | 36.5210 | 106.14 | 20 5/8 | 64.7953 | 334.10 | 29 5/8 | 93.070 | 689.30 |
| 4 3/8 | 13.7445 | 15.033 | 11 3/4 | 36.9137 | 108.43 | 20 3/4 | 65.1880 | 338.16 | 29 3/4 | 93.462 | 695.13 |
| 4 7/16 | 13.9408 | 15.466 | 11 7/8 | 37.3064 | 110.75 | 20 7/8 | 65.5807 | 342.25 | 29 7/8 | 93.855 | 700.98 |
| 4 1/2 | 14.1372 | 15.904 | 12 | 37.6991 | 113.10 | 21 | 65.9734 | 346.36 | 30 | 94.248 | 706.86 |
| 4 9/16 | 14.3335 | 16.349 | 12 1/8 | 38.0918 | 115.47 | 21 1/8 | 66.3661 | 350.50 | 30 1/8 | 94.640 | 712.70 |
| 4 5/8 | 14.5299 | 16.800 | 12 1/4 | 38.4845 | 117.86 | 21 1/4 | 66.7588 | 354.66 | 30 1/4 | 95.033 | 718.69 |
| 4 11/16 | 14.7262 | 17.257 | 12 3/8 | 38.8772 | 120.28 | 21 3/8 | 67.1515 | 358.84 | 30 3/8 | 95.426 | 724.64 |
| 4 3/4 | 14.9226 | 17.721 | 12 1/2 | 39.2699 | 122.72 | 21 1/2 | 67.5442 | 363.05 | 30 1/2 | 95.819 | 730.62 |
| 4 13/16 | 15.1189 | 18.190 | 12 5/8 | 39.6626 | 125.19 | 21 5/8 | 67.9369 | 367.28 | 30 5/8 | 96.211 | 736.62 |
| 4 7/8 | 15.3153 | 18.665 | 12 3/4 | 40.0553 | 127.68 | 21 3/4 | 68.3296 | 371.54 | 30 3/4 | 96.604 | 742.64 |
| 4 15/16 | 15.5116 | 19.147 | 12 7/8 | 40.4480 | 130.19 | 21 7/8 | 68.7223 | 375.83 | 30 7/8 | 96.997 | 748.69 |
| 5 | 15.7080 | 19.635 | 13 | 40.8407 | 132.73 | 22 | 69.1150 | 380.13 | 31 | 97.389 | 754.77 |
| 5 1/16 | 15.9043 | 20.129 | 13 1/8 | 41.2334 | 135.30 | 22 1/8 | 69.5077 | 384.46 | 311/8 | 97.782 | 760.87 |
| 5 1/8 | 16.1007 | 20.629 | 13 1/4 | 41.6261 | 137.89 | 22 1/4 | 69.9004 | 388.82 | 311/4 | 98.175 | 766.99 |
| 5 3/16 | 16.2970 | 21.135 | 13 3/8 | 42.0188 | 140.50 | 22 3/8 | 70.2931 | 393.20 | 313/8 | 98.567 | 773.14 |
| 5 1/4 | 16.4934 | 21.648 | 13 1/2 | 42.4115 | 143.14 | 22 1/2 | 70.6858 | 397.61 | 311/2 | 98.960 | 779.31 |
| 5 5/16 | 16.6897 | 22.166 | 13 5/8 | 42.8042 | 145.80 | 22 5/8 | 71.0785 | 402.04 | 315/8 | 99.353 | 785.51 |
| 5 3/8 | 16.8861 | 22.691 | 13 3/4 | 43.1969 | 148.49 | 22 3/4 | 71.4712 | 406.49 | 313/4 | 99.746 | 791.73 |
| 5 7/16 | 17.0824 | 23.221 | 13 7/8 | 43.5896 | 151.20 | 22 7/8 | 71.8639 | 410.97 | 317/8 | 100.138 | 797.98 |

# Trigonometric Functions




**(See pages that follow for functions)**

**Formulas for Finding Functions of Angles**

$$\frac{\text{Side Opposite}}{\text{Hypotenuse}} = \text{Sine}$$

$$\frac{\text{Side Adjacent}}{\text{Hypotenuse}} = \text{Cosine}$$

$$\frac{\text{Side Opposite}}{\text{Side Adjacent}} = \text{Tangent}$$

$$\frac{\text{Side Adjacent}}{\text{Side Opposite}} = \text{Cotangent}$$

$$\frac{\text{Hypotenuse}}{\text{Side Adjacent}} = \text{Secant}$$

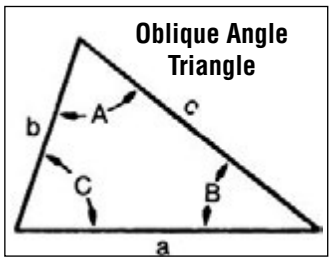
$$\frac{\text{Hypotenuse}}{\text{Side Opposite}} = \text{Cosecant}$$

**Formulas for Finding Sides of Right Angle Triangles with an Angle and Side Known**

To Find: Length of side opposite =
- Hypotenuse × Sine
- Hypotenuse ÷ Cosecant
- Side Adjacent × Tangent
- Side Adjacent ÷ Cotangent

To Find: Length of side adjacent =
- Hypotenuse × Cosine
- Hypotenuse ÷ Secant
- Side Opposite × Cotangent
- Side Opposite ÷ Tangent

To Find: Length of hypotenuse =
- Side Opposite × Cosecant
- Side Opposite ÷ Sine
- Side Adjacent × Secant
- Side Adjacent ÷ Cosine




## To Find Angles and Sides of Right Angle Triangles

| To Find Angles | | To Find Sides | | |
|---|---|---|---|---|
| **To Find:** | **Formulas** | **To Find:** | **Formulas** | |
| C | $\frac{c}{a} = \sin C$ | a | $\sqrt{b^2 + c^2}$ | — |
| C | $\frac{b}{a} = \cos C$ | a | $c \times \text{cosec } C$ | $\frac{c}{\sin C}$ |
| C | $\frac{c}{b} = \tan C$ | a | $c \times \sec B$ | $\frac{c}{\cos B}$ |
| C | $\frac{b}{c} = \text{cotan } C$ | a | $b \times \text{cosec } B$ | $\frac{b}{\sin B}$ |
| C | $\frac{a}{b} = \sec C$ | a | $b \times \sec C$ | $\frac{b}{\cos C}$ |
| C | $\frac{a}{c} = \text{cosec } C$ | b | $\sqrt{a^2 + c^2}$ | — |
| B | $\frac{b}{a} = \cos B$ | b | $a \times \sin B$ | $\frac{a}{\text{cosec } B}$ |
| B | $\frac{c}{a} = \cos B$ | b | $c \times \cos C$ | $\frac{a}{\sec C}$ |
| B | $\frac{b}{c} = \tan B$ | b | $c \times \tan B$ | $\frac{c}{\text{cotan } B}$ |
| B | $\frac{c}{b} = \text{cotan } B$ | b | $c \times \cot C$ | $\frac{c}{\tan C}$ |
| B | $\frac{a}{c} = \sec B$ | c | $\sqrt{a^2 + b^2}$ | — |
| B | $\frac{a}{b} = \text{cosec } B$ | c | $a \times \cos B$ | $\frac{a}{\sec B}$ |
| | | c | $a \times \sin C$ | $\frac{a}{\text{cosec } C}$ |
| | | c | $b \times \cot B$ | $\frac{b}{\tan B}$ |
| | | c | $b \times \tan C$ | $\frac{b}{\text{cotan } C}$ |

## To Find Angles and Sides of Oblique Angle Triangles

| To Find | Known | Formulas | To Find | Known | Formulas |
|---|---|---|---|---|---|
| C | A, B | 180° – (A + B) | A | B, C | 180° – (B + C) |
| b | a, B, A | $\frac{a \times \sin B}{\sin A}$ | cos A | a, b, c | $\frac{b^2 + c^2 - a^2}{2bc}$ |
| c | a, A, C | $\frac{a \times \sin C}{\sin A}$ | sin C | c, A, a | $\frac{c \times \text{Sin. } A}{a}$ |
| tan A | a, C, b | $\frac{a \times \sin C}{b - (a \times \cos C)}$ | cot B | a, C, b | $\frac{a \times \text{cosec } C}{b}$ **– cot C** |
| B | A, C | 180° – (A + C) | c | b, C, B | $b \times \sin C \times \text{cosec } B$ |
| sin B | b, A, a | $\frac{b \times \text{cin } A}{a}$ | | | |

## Trigonometric Functions

| ° | ' | Sine | Tangent | Cotangent | Cosine | ' | ° | ° | ' | Sine | Tangent | Cotangent | Cosine | ' | ° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0.000000 | 0.000000 | INFINITE | 1.000000 | 0 | 90 | 11 | 0 | 0.190809 | 0.194380 | 5.1445540 | 0.981627 | 0 | 79 |
| | 10 | 0.002909 | 0.002909 | 343.77371 | 0.999996 | 50 | | | 10 | 0.913664 | 0.197401 | 5.0658352 | 0.981068 | 50 | |
| | 20 | 0.005818 | 0.005818 | 171.88540 | 0.999983 | 40 | | | 20 | 0.196517 | 0.200425 | 4.9894027 | 0.980500 | 40 | |
| | 30 | 0.008727 | 0.008727 | 114.58865 | 0.999962 | 30 | | | 30 | 0.199368 | 0.203452 | 4.9151570 | 0.979925 | 30 | |
| | 40 | 0.011635 | 0.011636 | 85.939791 | 0.999932 | 20 | | | 40 | 0.202218 | 0.206483 | 4.8430045 | 0.979341 | 20 | |
| | 50 | 0.014544 | 0.014545 | 68.750087 | 0.999894 | 10 | | | 50 | 0.205065 | 0.209518 | 4.7728568 | 0.978748 | 10 | |
| 1 | 0 | 0.017452 | 0.017455 | 57.289962 | 0.999848 | 0 | 89 | 12 | 0 | 0.207912 | 0.212557 | 4.7046301 | 0.978148 | 0 | 78 |
| | 10 | 0.020361 | 0.020365 | 49.103881 | 0.999793 | 50 | | | 10 | 0.210756 | 0.215599 | 4.6382457 | 0.977539 | 50 | |
| | 20 | 0.023269 | 0.023275 | 42.964077 | 0.999729 | 40 | | | 20 | 0.213599 | 0.218645 | 4.5736287 | 0.976921 | 40 | |
| | 30 | 0.026177 | 0.026186 | 38.188459 | 0.999657 | 30 | | | 30 | 0.216440 | 0.221695 | 4.5107085 | 0.976296 | 30 | |
| | 40 | 0.029085 | 0.029097 | 34.367771 | 0.999577 | 20 | | | 40 | 0.219279 | 0.224748 | 4.4494181 | 0.975662 | 20 | |
| | 50 | 0.031992 | 0.032009 | 31.241577 | 0.999488 | 10 | | | 50 | 0.222116 | 0.227806 | 4.3896940 | 0.975020 | 10 | |
| 2 | 0 | 0.034899 | 0.034921 | 28.636253 | 0.999391 | 0 | 88 | 13 | 0 | 0.224951 | 0.230868 | 4.3314759 | 0.974370 | 0 | 77 |
| | 10 | 0.037806 | 0.037834 | 26.431600 | 0.999285 | 50 | | | 10 | 0.227784 | 0.233934 | 4.2747066 | 0.973712 | 50 | |
| | 20 | 0.040713 | 0.040747 | 24.541758 | 0.999171 | 40 | | | 20 | 0.230616 | 0.237004 | 4.2193318 | 0.973045 | 40 | |
| | 30 | 0.043619 | 0.043661 | 22.903766 | 0.999048 | 30 | | | 30 | 0.233445 | 0.240079 | 4.1652998 | 0.927370 | 30 | |
| | 40 | 0.046525 | 0.046576 | 21.470401 | 0.998917 | 20 | | | 40 | 0.236273 | 0.243158 | 4.1125614 | 0.971687 | 20 | |
| | 50 | 0.049431 | 0.049491 | 20.205553 | 0.998778 | 10 | | | 50 | 0.239098 | 0.246241 | 4.0610700 | 0.970995 | 10 | |
| 3 | 0 | 0.052336 | 0.052408 | 19.081137 | 0.998630 | 0 | 87 | 14 | 0 | 0.241922 | 0.249328 | 4.0107809 | 0.970296 | 0 | 76 |
| | 10 | 0.055241 | 0.055325 | 18.074977 | 0.998473 | 50 | | | 10 | 0.244743 | 0.252420 | 3.9616518 | 0.969588 | 50 | |
| | 20 | 0.058145 | 0.058243 | 17.169337 | 0.998308 | 40 | | | 20 | 0.247563 | 0.255517 | 3.9136420 | 0.968872 | 40 | |
| | 30 | 0.061049 | 0.061163 | 16.349855 | 0.998135 | 30 | | | 30 | 0.250380 | 0.258618 | 3.8667131 | 0.968148 | 30 | |
| | 40 | 0.063952 | 0.064083 | 15.604784 | 0.997957 | 20 | | | 40 | 0.253195 | 0.261723 | 3.8208281 | 0.967415 | 20 | |
| | 50 | 0.066854 | 0.067004 | 14.924417 | 0.997763 | 10 | | | 50 | 0.256008 | 0.264834 | 3.7759519 | 0.966675 | 10 | |
| 4 | 0 | 0.069756 | 0.069927 | 14.300666 | 0.997564 | 0 | 86 | 15 | 0 | 0.258819 | 0.267949 | 3.7320508 | 0.965926 | 0 | 75 |
| | 10 | 0.072658 | 0.072851 | 13.726738 | 0.997357 | 50 | | | 10 | 0.261628 | 0.271069 | 3.6890927 | 0.965169 | 50 | |
| | 20 | 0.075559 | 0.075776 | 13.196888 | 0.997141 | 40 | | | 20 | 0.264434 | 0.274195 | 3.6470467 | 0.964404 | 40 | |
| | 30 | 0.078459 | 0.078702 | 12.706205 | 0.996917 | 30 | | | 30 | 0.267238 | 0.277325 | 3.6058835 | 0.963630 | 30 | |
| | 40 | 0.081359 | 0.081629 | 12.250505 | 0.996685 | 20 | | | 40 | 0.270040 | 0.280460 | 3.5655749 | 0.962849 | 20 | |
| | 50 | 0.084258 | 0.084558 | 11.826167 | 0.996444 | 10 | | | 50 | 0.272840 | 0.283600 | 3.5260938 | 0.962059 | 10 | |
| 5 | 0 | 0.087156 | 0.087489 | 11.430052 | 0.996195 | 0 | 85 | 16 | 0 | 0.275637 | 0.286745 | 3.4874144 | 0.961262 | 0 | 74 |
| | 10 | 0.090053 | 0.090421 | 11.059431 | 0.995937 | 50 | | | 10 | 0.278432 | 0.289896 | 3.4495120 | 0.960456 | 50 | |
| | 20 | 0.092950 | 0.093354 | 10.711913 | 0.995671 | 40 | | | 20 | 0.281225 | 0.293052 | 3.4123626 | 0.959642 | 40 | |
| | 30 | 0.095846 | 0.096289 | 10.385397 | 0.995396 | 30 | | | 30 | 0.284015 | 0.296214 | 3.3759434 | 0.958820 | 30 | |
| | 40 | 0.098741 | 0.099226 | 10.078031 | 0.995113 | 20 | | | 40 | 0.286803 | 0.299380 | 3.3402326 | 0.957990 | 20 | |
| | 50 | 0.101635 | 0.102164 | 9.7881732 | 0.994822 | 10 | | | 50 | 0.289589 | 0.302553 | 3.3052091 | 0.957151 | 10 | |
| 6 | 0 | 0.104528 | 0.105104 | 9.5143645 | 0.994522 | 0 | 84 | 17 | 0 | 0.292372 | 0.305731 | 3.2708526 | 0.956305 | 0 | 73 |
| | 10 | 0.107421 | 0.108046 | 9.2553035 | 0.994214 | 50 | | | 10 | 0.295152 | 0.308914 | 3.2371438 | 0.955450 | 50 | |
| | 20 | 0.110313 | 0.110990 | 9.0098261 | 0.993897 | 40 | | | 20 | 0.297930 | 0.312104 | 3.2040638 | 0.954588 | 40 | |
| | 30 | 0.113203 | 0.113936 | 8.7768874 | 0.993572 | 30 | | | 30 | 0.300706 | 0.315299 | 3.1715948 | 0.953717 | 30 | |
| | 40 | 0.116093 | 0.116883 | 8.5555468 | 0.993238 | 20 | | | 40 | 0.303479 | 0.318500 | 3.1397194 | 0.952838 | 20 | |
| | 50 | 0.118982 | 0.119833 | 8.3449558 | 0.922896 | 10 | | | 50 | 0.306249 | 0.321707 | 3.1084210 | 0.951951 | 10 | |
| 7 | 0 | 0.121869 | 0.122785 | 8.1443464 | 0.992546 | 0 | 83 | 18 | 0 | 0.309017 | 0.324920 | 3.0776835 | 0.951057 | 0 | 72 |
| | 10 | 0.124756 | 0.125738 | 7.9530224 | 0.992187 | 50 | | | 10 | 0.311782 | 0.328139 | 3.0474915 | 0.950154 | 50 | |
| | 20 | 0.127642 | 0.128694 | 7.7703506 | 0.991820 | 40 | | | 20 | 0.314545 | 0.331364 | 3.0178301 | 0.949243 | 40 | |
| | 30 | 0.130526 | 0.131653 | 7.5957541 | 0.991445 | 30 | | | 30 | 0.317305 | 0.334595 | 2.9886850 | 0.948324 | 30 | |
| | 40 | 0.133410 | 0.134613 | 7.4287064 | 0.991061 | 20 | | | 40 | 0.320062 | 0.337833 | 2.9600422 | 0.947397 | 20 | |
| | 50 | 0.136292 | 0.137576 | 7.2687255 | 0.990669 | 10 | | | 50 | 0.322816 | 0.341077 | 2.9318885 | 0.946462 | 10 | |
| 8 | 0 | 0.139173 | 0.140541 | 7.1153697 | 0.990268 | 0 | 82 | 19 | 0 | 0.325568 | 0.344328 | 2.9042109 | 0.945519 | 0 | 71 |
| | 10 | 0.142053 | 0.143508 | 6.9682335 | 0.989859 | 50 | | | 10 | 0.328317 | 0.347585 | 2.8769970 | 0.944568 | 50 | |
| | 20 | 0.144932 | 0.146478 | 6.8269437 | 0.989442 | 40 | | | 20 | 0.331063 | 0.350848 | 2.8502349 | 0.943609 | 40 | |
| | 30 | 0.147809 | 0.149451 | 6.6911562 | 0.959016 | 30 | | | 30 | 0.333807 | 0.354119 | 2.8239129 | 0.942641 | 30 | |
| | 40 | 0.150686 | 0.152426 | 6.5605538 | 0.988582 | 20 | | | 40 | 0.336547 | 0.357396 | 2.7980198 | 0.941666 | 20 | |
| | 50 | 0.153561 | 0.155404 | 6.4348428 | 0.988139 | 10 | | | 50 | 0.339285 | 0.360680 | 2.7725448 | 0.940684 | 10 | |
| 9 | 0 | 0.156434 | 0.158384 | 6.3137515 | 0.987688 | 0 | 81 | 20 | 0 | 0.342020 | 0.363970 | 2.7474774 | 0.939693 | 0 | 70 |
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| | 20 | 0.162178 | 0.164354 | 6.0844381 | 0.986762 | 40 | | | 20 | 0.347481 | 0.370573 | 2.6985254 | 0.937687 | 40 | |
| | 30 | 0.165048 | 0.167343 | 5.9757644 | 0.986286 | 30 | | | 30 | 0.350207 | 0.373885 | 2.6746215 | 0.936672 | 30 | |
| | 40 | 0.167916 | 0.170334 | 5.8708042 | 0.985801 | 20 | | | 40 | 0.352931 | 0.377204 | 2.6510867 | 0.935650 | 20 | |
| | 50 | 0.170783 | 0.173329 | 5.7693688 | 0.985309 | 10 | | | 50 | 0.355651 | 0.380530 | 2.6279121 | 0.934619 | 10 | |
| 10 | 0 | 0.173648 | 0.176327 | 5.6712818 | 0.984808 | 0 | 80 | 21 | 0 | 0.358368 | 0.383864 | 2.6050891 | 0.933580 | 0 | 69 |
| | 10 | 0.176512 | 0.179328 | 5.5763786 | 0.984298 | 50 | | | 10 | 0.361082 | 0.387205 | 2.5826094 | 0.932534 | 50 | |
| | 20 | 0.179375 | 0.182332 | 5.4845052 | 0.983781 | 40 | | | 20 | 0.363793 | 0.390554 | 2.5604649 | 0.931480 | 40 | |
| | 30 | 0.182236 | 0.185339 | 5.3955172 | 0.983255 | 30 | | | 30 | 0.366501 | 0.393911 | 2.5386479 | 0.930418 | 30 | |
| | 40 | 0.185095 | 0.188359 | 5.3092793 | 0.982721 | 20 | | | 40 | 0.369206 | 0.397275 | 2.5171507 | 0.929348 | 20 | |
| | 50 | 0.187953 | 0.191363 | 5.2256647 | 0.982178 | 10 | 79 | | 50 | 0.371908 | 0.400647 | 2.4959661 | 0.928270 | 10 | 68 |
| ° | ' | Sine | Tangent | Cotangent | Cosine | ' | ° | ° | ' | Sine | Tangent | Cotangent | Cosine | ' | ° |

NOTE: For functions from 45°-0' to 68° read from bottom of table upward.

# Trigonometric Tables

## Trigonometric Functions

| ° | ' | Sine | Tangent | Cotangent | Cosine | ' | ° | ° | ' | Sine | Tangent | Cotangent | Cosine | ' | ° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 22 | 0 | 0.374607 | 0.404026 | 2.4750869 | 0.927184 | 0 | 68 | 34 | 0 | 0.559193 | 0.674509 | 1.4825610 | 0.829038 | 0 | 56 |
| | 10 | 0.377302 | 0.407414 | 2.4545061 | 0.926090 | 50 | | | 10 | 0.561602 | 0.678749 | 1.4732983 | 0.827407 | 50 | |
| | 20 | 0.379994 | 0.410810 | 2.4342172 | 0.924980 | 40 | | | 20 | 0.564007 | 0.683007 | 1.4641147 | 0.825770 | 40 | |
| | 30 | 0.382683 | 0.414214 | 2.4142136 | 0.923880 | 30 | | | 30 | 0.566406 | 0.687281 | 1.4550090 | 0.824126 | 30 | |
| | 40 | 0.385369 | 0.417626 | 2.3944889 | 0.922762 | 20 | | | 40 | 0.568801 | 0.691573 | 1.4459801 | 0.822475 | 20 | |
| | 50 | 0.388052 | 0.421046 | 2.3750372 | 0.921638 | 10 | | | 50 | 0.571191 | 0.695881 | 1.4370268 | 0.820817 | 10 | |
| 23 | 0 | 0.390731 | 0.424475 | 2.3558524 | 0.920505 | 0 | 67 | 35 | 0 | 0.573576 | 0.700208 | 1.4281480 | 0.819152 | 0 | 55 |
| | 10 | 0.393407 | 0.427912 | 2.3369287 | 0.919364 | 50 | | | 10 | 0.575957 | 0.704552 | 1.4193427 | 0.817480 | 50 | |
| | 20 | 0.396080 | 0.431358 | 2.3182606 | 0.918216 | 40 | | | 20 | 0.578332 | 0.708913 | 1.4106098 | 0.815801 | 40 | |
| | 30 | 0.398749 | 0.434812 | 2.2998425 | 0.917060 | 30 | | | 30 | 0.580703 | 0.713293 | 1.4019483 | 0.814116 | 30 | |
| | 40 | 0.401415 | 0.438276 | 2.2816693 | 0.915896 | 20 | | | 40 | 0.583069 | 0.717691 | 1.3933571 | 0.812423 | 20 | |
| | 50 | 0.404078 | 0.441748 | 2.2637357 | 0.914725 | 10 | | | 50 | 0.585429 | 0.722108 | 1.3848355 | 0.810723 | 10 | |
| 24 | 0 | 0.406737 | 0.445229 | 2.2460368 | 0.913545 | 0 | 66 | 36 | 0 | 0.587785 | 0.726543 | 1.3763810 | 0.809017 | 0 | 54 |
| | 10 | 0.409392 | 0.448719 | 2.2285676 | 0.912358 | 50 | | | 10 | 0.590136 | 0.730996 | 1.3679959 | 0.807304 | 50 | |
| | 20 | 0.412045 | 0.452218 | 2.2113234 | 0.911164 | 40 | | | 20 | 0.592482 | 0.735469 | 1.3596764 | 0.805584 | 40 | |
| | 30 | 0.414693 | 0.455726 | 2.1942997 | 0.909961 | 30 | | | 30 | 0.594823 | 0.739961 | 1.3514224 | 0.803857 | 30 | |
| | 40 | 0.417338 | 0.459244 | 2.1774920 | 0.908751 | 20 | | | 40 | 0.597159 | 0.744472 | 1.3432331 | 0.802123 | 20 | |
| | 50 | 0.419980 | 0.462771 | 2.1608958 | 0.907533 | 10 | | | 50 | 0.599489 | 0.749003 | 1.3351075 | 0.800383 | 10 | |
| 25 | 0 | 0.422618 | 0.466308 | 2.1445069 | 0.906308 | 0 | 65 | 37 | 0 | 0.601815 | 0.753554 | 1.3270448 | 0.798636 | 0 | 53 |
| | 10 | 0.425253 | 0.469854 | 2.1283213 | 0.905075 | 50 | | | 10 | 0.604136 | 0.758125 | 1.3190441 | 0.796882 | 50 | |
| | 20 | 0.427884 | 0.473410 | 2.1123348 | 0.903834 | 40 | | | 20 | 0.606451 | 0.762716 | 1.3111046 | 0.795121 | 40 | |
| | 30 | 0.430511 | 0.476976 | 2.0965436 | 0.902585 | 30 | | | 30 | 0.608761 | 0.767327 | 1.3032254 | 0.793353 | 30 | |
| | 40 | 0.433125 | 0.480551 | 2.0809438 | 0.901329 | 20 | | | 40 | 0.611067 | 0.771959 | 1.2954057 | 0.791579 | 20 | |
| | 50 | 0.435755 | 0.484137 | 2.0655318 | 0.900065 | 10 | | | 50 | 0.613367 | 0.776612 | 1.2876447 | 0.789798 | 10 | |
| 26 | 0 | 0.438371 | 0.487733 | 2.0503038 | 0.898794 | 0 | 64 | 38 | 0 | 0.615661 | 0.781286 | 1.2799416 | 0.788011 | 0 | 52 |
| | 10 | 0.440984 | 0.491339 | 2.0352565 | 0.897515 | 50 | | | 10 | 0.617951 | 0.785981 | 1.2722957 | 0.786217 | 50 | |
| | 20 | 0.443593 | 0.494955 | 2.0203862 | 0.896229 | 40 | | | 20 | 0.620235 | 0.790698 | 1.2647062 | 0.784416 | 40 | |
| | 30 | 0.446197 | 0.498582 | 2.0056897 | 0.894934 | 30 | | | 30 | 0.622515 | 0.795436 | 1.2571723 | 0.782608 | 30 | |
| | 40 | 0.448799 | 0.502219 | 1.9911637 | 0.893633 | 20 | | | 40 | 0.624789 | 0.800196 | 1.2496933 | 0.780794 | 20 | |
| | 50 | 0.451397 | 0.505867 | 1.9768050 | 0.892323 | 10 | | | 50 | 0.627057 | 0.804980 | 1.2422685 | 0.778973 | 10 | |
| 27 | 0 | 0.453990 | 0.509525 | 1.9626105 | 0.891007 | 0 | 63 | 39 | 0 | 0.692320 | 0.809784 | 1.2348972 | 0.777146 | 0 | 51 |
| | 10 | 0.456580 | 0.513195 | 1.9485772 | 0.889682 | 50 | | | 10 | 0.631578 | 0.814612 | 1.2275786 | 0.775312 | 50 | |
| | 20 | 0.459166 | 0.516876 | 1.9347020 | 0.888350 | 40 | | | 20 | 0.633831 | 0.819463 | 1.2203121 | 0.773472 | 40 | |
| | 30 | 0.461749 | 0.520567 | 1.9209821 | 0.887011 | 30 | | | 30 | 0.636078 | 0.824336 | 1.2130970 | 0.771625 | 30 | |
| | 40 | 0.464327 | 0.524270 | 1.9074147 | 0.885664 | 20 | | | 40 | 0.638320 | 0.829234 | 1.2059327 | 0.769771 | 20 | |
| | 50 | 0.466901 | 0.527984 | 1.8939971 | 0.884309 | 10 | | | 50 | 0.640557 | 0.834155 | 1.1988184 | 0.767911 | 10 | |
| 28 | 0 | 0.469472 | 0.531709 | 1.8807265 | 0.882948 | 0 | 62 | 40 | 0 | 0.642788 | 0.839100 | 1.1917536 | 0.766044 | 0 | 50 |
| | 10 | 0.472038 | 0.535547 | 1.8676003 | 0.881578 | 50 | | | 10 | 0.645013 | 0.844069 | 1.1847376 | 0.764171 | 50 | |
| | 20 | 0.474600 | 0.539195 | 1.8546159 | 0.880201 | 40 | | | 20 | 0.647233 | 0.849062 | 1.1777698 | 0.762292 | 40 | |
| | 30 | 0.477149 | 0.542956 | 1.8417709 | 0.878817 | 30 | | | 30 | 0.649448 | 0.854081 | 1.1708496 | 0.760406 | 30 | |
| | 40 | 0.479713 | 0.546728 | 1.8290628 | 0.877425 | 20 | | | 40 | 0.651657 | 0.859124 | 1.1639763 | 0.758514 | 20 | |
| | 50 | 0.482263 | 0.550515 | 1.8164892 | 0.876026 | 10 | | | 50 | 0.653861 | 0.864193 | 1.1571495 | 0.756615 | 10 | |
| 29 | 0 | 0.484810 | 0.554309 | 1.8040478 | 0.874620 | 0 | 61 | 41 | 0 | 0.656059 | 0.869287 | 1.1503684 | 0.754710 | 0 | 49 |
| | 10 | 0.487352 | 0.558118 | 1.7917362 | 0.873206 | 50 | | | 10 | 0.658252 | 0.874407 | 1.1436326 | 0.752798 | 50 | |
| | 20 | 0.489890 | 0.561939 | 1.7795524 | 0.871784 | 40 | | | 20 | 0.660439 | 0.879553 | 1.1369414 | 0.750880 | 40 | |
| | 30 | 0.492424 | 0.565773 | 1.7674940 | 0.870356 | 30 | | | 30 | 0.662620 | 0.884725 | 1.1302944 | 0.748956 | 30 | |
| | 40 | 0.494953 | 0.569619 | 1.7555590 | 0.868920 | 20 | | | 40 | 0.664796 | 0.889924 | 1.1236909 | 0.747025 | 20 | |
| | 50 | 0.497479 | 0.573478 | 1.7437453 | 0.867476 | 10 | | | 50 | 0.666966 | 0.895151 | 1.1171305 | 0.745088 | 10 | |
| 30 | 0 | 0.500000 | 0.577350 | 1.7320508 | 0.866025 | 0 | 60 | 42 | 0 | 0.669131 | 0.900404 | 1.1106125 | 0.743145 | 0 | 48 |
| | 10 | 0.502517 | 0.581235 | 1.7204736 | 0.864567 | 50 | | | 10 | 0.671289 | 0.905685 | 1.1041365 | 0.741195 | 50 | |
| | 20 | 0.505030 | 0.585134 | 1.7090116 | 0.863102 | 40 | | | 20 | 0.673443 | 0.910994 | 1.0977020 | 0.739239 | 40 | |
| | 30 | 0.507538 | 0.589045 | 1.6976631 | 0.861629 | 30 | | | 30 | 0.675590 | 0.916331 | 1.0913085 | 0.737277 | 30 | |
| | 40 | 0.510043 | 0.592970 | 1.6864261 | 0.860149 | 20 | | | 40 | 0.677732 | 0.921697 | 1.0849554 | 0.735309 | 20 | |
| | 50 | 0.512543 | 0.596908 | 1.6752988 | 0.858662 | 10 | | | 50 | 0.679868 | 0.927021 | 1.0786423 | 0.733335 | 10 | |
| 31 | 0 | 0.515038 | 0.600861 | 1.6642795 | 0.857167 | 0 | 59 | 43 | 0 | 0.681998 | 0.932515 | 1.0723687 | 0.731354 | 0 | 47 |
| | 10 | 0.517529 | 0.604827 | 1.6533663 | 0.855665 | 50 | | | 10 | 0.684123 | 0.937968 | 1.0661341 | 0.729367 | 50 | |
| | 20 | 0.520016 | 0.608807 | 1.6425576 | 0.854156 | 40 | | | 20 | 0.686242 | 0.943451 | 1.0599381 | 0.727374 | 40 | |
| | 30 | 0.522499 | 0.612801 | 1.6318517 | 0.852640 | 30 | | | 30 | 0.688355 | 0.948965 | 1.0537801 | 0.725374 | 30 | |
| | 40 | 0.524977 | 0.616809 | 1.6212469 | 0.851117 | 20 | | | 40 | 0.690462 | 0.954508 | 1.0476598 | 0.723369 | 20 | |
| | 50 | 0.527450 | 0.620832 | 1.6107417 | 0.849586 | 10 | | | 50 | 0.692563 | 0.960083 | 1.0415767 | 0.721357 | 10 | |
| 32 | 0 | 0.529919 | 0.624869 | 1.6003345 | 0.848048 | 0 | 58 | 44 | 0 | 0.694658 | 0.965689 | 1.0355303 | 0.719340 | 0 | 46 |
| | 10 | 0.532384 | 0.628921 | 1.5900238 | 0.846503 | 50 | | | 10 | 0.696748 | 0.971326 | 1.0295203 | 0.717316 | 50 | |
| | 20 | 0.534844 | 0.632988 | 1.5798079 | 0.844951 | 40 | | | 20 | 0.698832 | 0.976996 | 1.0235461 | 0.715286 | 40 | |
| | 30 | 0.537300 | 0.637079 | 1.5696856 | 0.843391 | 30 | | | 30 | 0.700909 | 0.982697 | 1.0176074 | 0.713251 | 30 | |
| | 40 | 0.539751 | 0.641167 | 1.5596552 | 0.841825 | 20 | | | 40 | 0.702981 | 0.988432 | 1.0117088 | 0.711209 | 20 | |
| | 50 | 0.542197 | 0.645280 | 1.4597155 | 0.840251 | 10 | | | 50 | 0.705047 | 0.994199 | 1.0058348 | 0.709161 | 10 | |
| 33 | 0 | 0.544639 | 0.649408 | 1.5398650 | 0.838671 | 0 | 57 | 45 | 0 | 0.707107 | 1.000000 | 1.0000000 | 0.707107 | 0 | 45 |
| | 10 | 0.547076 | 0.653551 | 1.5301025 | 0.837083 | 50 | | | — | — | — | — | — | — | |
| | 20 | 0.549509 | 0.657710 | 1.5204261 | 0.835488 | 40 | | | — | — | — | — | — | — | |
| | 30 | 0.551937 | 0.661886 | 1.5108352 | 0.833886 | 30 | | | — | — | — | — | — | — | |
| | 40 | 0.554360 | 0.666077 | 1.5013282 | 0.832277 | 20 | | | — | — | — | — | — | — | |
| | 50 | 0.556769 | 0.670285 | 1.4919039 | 0.830661 | 10 | 56 | — | — | — | — | — | — | — | |
| ° | ' | Sine | Tangent | Cotangent | Cosine | ' | ° | ° | ' | Sine | Tangent | Cotangent | Cosine | ' | ° |

NOTE: For functions from 45°-0' to 68° read from bottom of table upward.

# Conversion Tables

| Given | Multiply | By |
|---|---|---|
| ABAMPERE | 10 | AMPERE |
| ACRES | 0.4046856 | HECTARE |
| ACRES | 43560 | SQUARE FEET |
| ACRES | 4046.8564 | SQUARE METERS |
| ACRES | $1.562\times10^{-3}$ | SQUARE MILES |
| ARE | 1076.391 | SQUARE FEET |
| ATMOSPHERES | 76 | CMS. OF MERCURY |
| ATMOSPHERES | 33.89854 | FEET OF WATER |
| ATMOSPHERES | 29.92 | INCHES OF MERCURY |
| ATMOSPHERES | 14.69595 | POUNDS/SQUARE INCH |
| BAGS - CEMENT | 94 | POUNDS - CEMENT |
| BARRELS - OIL | 5.614583 | CUBIC FOOT |
| BARRELS - OIL | 158.9873 | LITER |
| BARRELS - OIL | 42 | GALLONS - OIL |
| BARRELS (US DRY) | 3.281219 | BUSHELS (US) |
| BARRELS (US DRY) | 4.083333 | CUBIC FEET |
| BARRELS (US DRY) | 115.6271 | LITER |
| BARRELS (US LIQ.) | 4.2109375 | CUBIC FEET |
| BARRELS (US LIQ.) | 0.1192405 | CUBIC METERS |
| BARRELS (US LIQ.) | 26.22925 | GALLONS (BRIT.) |
| BARRELS (US LIQ.) | 31.5 | GALLONS (US) |
| BARRELS – CEMENT | 376 | POUNDS – CEMENT |
| BTU | 251.996 | CALORIE |
| BTU | 778.169 | FOOT – POUNDS – FORCE |
| BTU | $3.9302\times10^{-4}$ | HORSEPOWER – HOURS |
| BTU | 0.252 | KILOGRAM – CALORIES |
| BTU | 107.586 | KILOGRAM - METERS |
| BTU | $2.9307\times10^{-4}$ | KILOWATT - HOURS |
| BTU | 1055.056 | JOULE |
| BTU/MIN. | 12.96 | FOOT - POUNDS/SEC. |
| BTU/MIN. | 0.0235809 | HORSEPOWER |
| BTU/MIN. | 0.0175843 | KILOWATTS |
| BTU/MIN. | 17.5796 | WATTS |
| BUSHELS (BRIT.) | 1.032057 | BUSHELS (US) |
| BUSHELS (BRIT.) | 8 | GALLONS (BRIT.) |
| BUSHELS (US) | 0.3047647 | BARRELS (US DRY) |
| BUSHELS (US) | 1.244456 | CUBIC FEET |
| BUSHELS (US) | 9.309177 | GALLONS (US LIQ.) |
| CALORIE | 4.1868 | JOULE |
| CALORIE | $3.96832\times10^{-3}$ | BTU |
| CALORIE | 3.08803 | FOOT - POUND - FORCE |
| CENTARES (CENTIARES) | 1 | SQUARE METERS |
| CENTIMETERS | 0.3937008 | INCHES |
| CENTIMETERS | 0.3937008 | INCH |
| CENTIMETERS | 0.01 | METERS |
| CENTIMETERS | 10 | MILLIMETERS |
| CENTIMTRS. OF MERCURY | 0.01316 | ATMOSPHERES |
| CENTIMTRS. OF MERCURY | 0.4461 | FEET OF WATER |
| CENTIMTRS. OF MERCURY | 136 | KGS./SQUARE METER |
| CENTIMTRS. OF MERCURY | 27.85 | POUNDS/SQUARE FT. |
| CENTIMTRS. OF MERCURY | 0.1934 | POUNDS/SQUARE INCH |
| CENTIPOISE | 0.001 | PASCAL - SECOND |
| CHAIN (RAMSDEN'S) | 100 | FEET |
| CHAIN (GUNTER'S) | 66 | FEET |
| CORD | 128 | CUBIC FEET |
| CORD | 3.624 | STERE |
| COULOMB | 1 | AMPERE - SECOND |
| CUBIC CENTIMETER | 0.06102 | CUBIC INCHES |
| CUBIC CENTIMETER | 0.001 | LITER |
| CUBIC CENTIMETER | 1 | MILLILETER |
| CUBIC DECIMETER | 0.0353 | CUBIC FEET |
| CUBIC FEET | 12 | BOARD FEET |
| CUBIC FEET | 0.803564 | BUSHELS (US) |
| CUBIC FEET | 1728 | CUBIC INCHES |
| CUBIC FEET | 0.0283168 | CUBIC METERS |
| CUBIC FEET | 28.317 | CUBIC DECIMETERS |
| CUBIC FEET | 0.037037 | CUBIC YARD |
| CUBIC FEET | 6.228835 | GALLONS (BRIT.) |
| CUBIC FEET | 7.480519 | GALLONS (US) |
| CUBIC FEET | 28.316847 | LITERS |
| CUBIC FEET | 25.71405 | QUARTS (US DRY) |
| CUBIC FEET/HOUR | 7.865791 | CUBIC CM./SEC. |
| CUBIC FEET/HOUR | 0.4719474 | LITER/MIN. |
| CUBIC FEET/MIN. | 0.1246753 | GALLONS (US)/SEC. |
| CUBIC FEET/POUND | 0.0624279 | CUBIC METER/KILOGRAM |
| CUBIC METER | 8.64849 | BARREL (US DRY) |
| CUBIC METER | 8.386414 | BARREL (US LIQ.) |
| CUBIC METER | 35.31467 | CUBIC FEET |
| CUBIC METER | 1.307951 | CUBIC YARDS |
| CUBIC METER | 264.1721 | GALLONS (US) |
| CUBIC METER | 1000 | LITER |
| CUBIC YARDS | 27 | CUBIC FEET |

| Given | Multiply | By |
|---|---|---|
| CUBIC YARDS | 0.7645548 | CUBIC METER |
| CUBIC YARDS | 201.974 | GALLONS (US) |
| CUBIC YARDS/MIN. | 0.45 | CUBIC FEET/SEC. |
| CUBIC YARDS/MIN. | 3.366234 | GALLONS (US)/SEC. |
| CUBIT | 18 | INCH |
| CUP | 236.588 | MILLILITER |
| CUP (METRIC) | 200 | MILLILITER |
| DEGREE | 0.017453 | RADIAN |
| DEGREE/SEC. | 0.166667 | REVOLUTION/MIN. |
| DENIER | 0.11111(1/9) | TEX |
| DRACHM (BRIT. FLUID) | 0.9607599 | DRAM (U.S. FLUID) |
| DRAM (APOTH) | 60 | GRAINS |
| DRAM (AVOIR) | 27.34375 | GRAINS |
| DRAM (U.S. FLUID) | 0.2255859 | CUBIC INCHES |
| ELL | 45 | INCH |
| ERG | $1\times10^{-7}$ | JOULE |
| FATHOM | 6 | FEET |
| FEET OF WATER | 0.0295 | ATMOSPHERES |
| FEET OF WATER | 0.8826 | INCHES OF MERCURY |
| FEET OF WATER | 304.8 | KGS./SQUARE METER |
| FEET OF WATER | 62.43 | POUNDS/SQUARE FT. |
| FEET OF WATER | 0.4335 | POUNDS/SQUARE INCH |
| FEET/MIN. | 0.508 | CENTIMETERS/SEC. |
| FEET/MIN. | 0.01667 | FEET/SEC. |
| FEET/MIN. | 0.01829 | KILOMETERS/HOUR |
| FEET/MIN. | 0.3048 | METERS/MIN |
| FEET/MIN. | 0.01136 | MILES/HOUR |
| FEET/SEC. | 30.48 | CENTIMETERS/SEC. |
| FEET/SEC. | 1.097 | KILOMETERS/HOUR |
| FEET/SEC. | 0.5921 | KNOTS |
| FEET/SEC. | 18.29 | METERS/MIN. |
| FEET/SEC. | 0.6818 | MILES/HOUR |
| FEET/SEC. | 0.01136 | MILES/MIN. |
| FERKIN (US) | 9 | GALLONS (US) DRY |
| FOOT | 30.48 | CENTIMETER |
| FOOT | 12 | INCH |
| FOOT/MINUTE | 0.3048 | METER |
| FOOT/MINUTE | 0.018288 | KILOMETER/HOUR |
| FOOT/SECOND | 0.01136364 | MILE/HOUR |
| FOOT/SECOND | 0.3048 | METER/SECOND |
| FOOT - POUNDS - FORCE | 0.6818182 | MILE/HOUR |
| FOOT - POUNDS - FORCE | $5.050\times10^{-7}$ | HORSEPOWER - HOURS |
| FOOT - POUNDS - FORCE | 1.35582 | JOULES |
| FOOT - POUNDS - FORCE | $3.241\times10^{-4}$ | KILOGRAM - CALORIES |
| FOOT - POUNDS - FORCE | 0.1383 | KILOGRAM - METERS |
| FOOT - POUNDS - FORCE | $.766\times10^{-5}$ | KILOWATT - HOURS |
| FOOT - POUNDS - FORCE | $1.286\times10^{-3}$ | BTU |
| FOOT - POUNDS/MIN. | $1.286\times10^{-3}$ | BTU/MIN. |
| FOOT - POUNDS/MIN. | 0.01667 | FOOT - POUNDS/SEC. |
| FOOT - POUNDS/MIN. | $3.030\times10^{-4}$ | HORSEPOWER |
| FOOT - POUNDS/MIN. | $3.241\times10^{-4}$ | KG. - CALORIES/MIN. |
| FOOT - POUNDS/MIN. | $2.260\times10^{-5}$ | KILOWATTS |
| FOOT - POUNDS/SEC. | 7.717×10-2 | BTU/MIN. |
| FOOT - POUNDS/SEC. | $1.818\times10^{-3}$ | HORSEPOWER |
| FOOT - POUNDS/SEC. | 1.945×10-2 | KG. - CALORIES/MIN. |
| FOOT - POUNDS/SEC. | 1.355818 | WATTS |
| FURLONG | 660 | FEET |
| FURLONG | 10 | CHAIN |
| GALLON (BRIT.) | 9.632619 | CUBIC FT./HOUR |
| GALLON (BRIT.) | 0.2727654 | CUBIC METER/HOUR |
| GALLONS (US)/MIN. | 8.020834 | CUBIC FEET/HOUR |
| GALLONS (US)/MIN. | 0.2271247 | CUBIC METER/HOUR |
| GALLON (DRY) | 268.8025 | CUBIC INCH |
| GALLONS (LIQ.) | 3785.412 | CUBIC CENTIMETERS |
| GALLONS (LIQ.) | 0.1336805 | CUBIC FEET |
| GALLONS (LIQ.) | 231 | CUBIC INCHES |
| GALLONS (LIQ.) | $3.785\times10^{-3}$ | CUBIC METERS |
| GALLONS (LIQ.) | $4.951\times10^{-3}$ | CUBIC YARDS |
| GALLONS (LIQ.) | 0.8326742 | GALLONS (BRIT.) |
| GALLONS (LIQ.) | 3.785412 | LITERS |
| GALLONS (LIQ.) | 8 | PINTS (LIQ.) |
| GALLONS (LIQ.) | 4 | QUARTS (LIQ.) |
| GALLONS WATER | 8.3453 | POUNDS OF WATER |
| GALLONS WATER/MIN. | 6.0086 | TONS WATER/24 HOURS |
| GALLONS - IMPERIAL | 1.20095 | U.S. GALLONS |
| GALLONS - U.S. | 0.83267 | IMPERIAL GALLONS |
| GALLONS (US)/MIN. | $2.228\times10^{-3}$ | CUBIC FEET/SEC. |
| GALLONS (US)/MIN. | 8.020834 | CUBIC FEET/HOUR |
| GALLONS (US)/MIN. | 0.06308 | Litros/SEC. |
| GILL | 7.21875 | CUBIC INCH |
| GILL | 4 | OUNCE (U.S.) |
| GILL (BRIT.) | 1.20095 | GILL (U.S.) |

# Conversion Tables

| Given | Multiply | By |
|---|---|---|
| GRAINS (TROY) | 0.0648 | GRAMS |
| GRAINS/U.S. GAL. | 17.118 | PARTS/MILLION |
| GRAINS/U.S. GAL. | 142.86 | POUNDS/MILLION GAL. |
| GRAINS/U.S. GAL. | 14.254 | PARTS/MILLION |
| GRAMS | 980.7 | DYNES |
| GRAMS | 15.432358 | GRAINS |
| GRAMS | $10^{-3}$ | KILOGRAMS |
| GRAMS | $10^{3}$ | MILLIGRAMS |
| GRAMS | 0.0352739 | OUNCES |
| GRAMS | 0.03215 | OUNCES (TROY) |
| GRAMS | $2.205\times10^{-3}$ | POUNDS |
| GRAMS | 0.7716179 | SCRUPLE |
| GRAMS (TROY) | $2.0833\times10^{-3}$ | OUNCES (TROY) |
| GRAMS/CM. | $5.600\times10^{-3}$ | POUNDS/INCH |
| GRAMS/CU. CM. | 62.43 | POUNDS/CUBIC FOOT |
| GRAMS/CU. CM. | 0.03613 | POUNDS/CUBIC INCH |
| GRAMS/LITER | 58.417 | GRAINS/GAL. |
| GRAMS/LITER | 8.345 | POUNDS/1000 GALS. |
| GRAMS/LITER | 0.062427 | POUNDS/CUBIC FOOT |
| GRAMS/LITER | 1000 | PARTS/MILLION |
| GROSS | 12 | DOZEN |
| HAND | 4 | INCH |
| HECTARE | 2.471054 | ACRE |
| HECTARE | 107639.1 | SQUARE FT. |
| HOGSHEAD | 63 | GALLONS |
| HORSEPOWER | 42.4072 | BTU/MIN. |
| HORSEPOWER | 33000 | FOOT – POUNDS/MIN. |
| HORSEPOWER | 550 | FOOT – POUNDS/SEC. |
| HORSEPOWER | 1.014 | HORSEPOWER (METRIC) |
| HORSEPOWER | 10.7 | KG. – CALORIES/MIN. |
| HORSEPOWER | 0.7457 | KILOWATTS |
| HORSEPOWER | 745.7 | WATTS |
| HORSEPOWER (BOILER) | 33479 | BTU/HOUR |
| HORSEPOWER (BOILER) | 9.8095 | KILOWATT |
| HORSEPOWER – HOURS | 2547 | BTU |
| HORSEPOWER – HOURS | $1.98\times10^{6}$ | FOOT – POUNDS |
| HORSEPOWER – HOURS | 641.7 | KILOGRAM – CALORIES |
| HORSEPOWER – HOURS | $2.737\times10^{5}$ | KILOGRAM – METERS |
| HORSEPOWER – HOURS | 0.7457 | KILOWATT – HOURS |
| INCH | 1000 | MILS |
| INCH | 25.4 | MILLIMETERS |
| INCHES OF MERCURY | 0.03342 | ATMOSPHERES |
| INCHES OF MERCURY | 1.133 | FEET OF WATER |
| INCHES OF MERCURY | 345.3 | KGS./SQUARE METER |
| INCHES OF MERCURY | 70.73 | LBS./SQUARE FT. |
| INCHES OF MERCURY | 0.4912 | LBS./SQUARE INCH |
| INCHES OF WATER | 0.002458 | ATMOSPHERES |
| INCHES OF WATER | 0.07355 | INCHES OF MERCURY |
| INCHES OF WATER | 25.4 | KGS./SQUARE METER |
| INCHES OF WATER | 0.5781 | OUNCES/SQUARE INCH |
| INCHES OF WATER | 5.202 | POUNDS/SQUARE FOOT |
| INCHES OF WATER | 0.03613 | POUNDS/SQUARE INCH |
| JOULE | 0.000948 | BTU |
| JOULE | 0.238846 | CALORIE |
| KILOGRAMS | 980665 | DYNES |
| KILOGRAMS | 2.2046226 | POUNDS |
| KILOGRAMS | $1.102\times10^{-3}$ | TONS (SHORT) |
| KILOGRAMS | 103 | GRAMS |
| KILOGRAMS – CALORIES | 3.968 | BTU |
| KILOGRAMS – CALORIES | 3086 | FOOT – POUNDS |
| KILOGRAMS – CALORIES | $1.558\times10^{-3}$ | HORSEPOWER – HOURS |
| KILOGRAMS – CALORIES | $1.162\times10^{-3}$ | KILOWATT – HOURS |
| KILOMETERS | 105 | CENTIMETERS |
| KILOMETERS | 3280.84 | FEET |
| KILOMETERS | 103 | METERS |
| KILOMETERS | 0.6213712 | MILES |
| KILOMETROS | 1094 | YARDS |
| KILOMETERS/HOUR | 27.78 | CENTIMETERS/SEC. |
| KILOMETERS/HOUR | 54.68 | FEET/MIN. |
| KILOMETERS/HOUR | 0.9113 | FEET/SEC. |
| KILOMETERS/HOUR | 0.5396 | KNOTS |
| KILOMETERS/HOUR | 16.67 | METERS/MIN. |
| KILOMETROS/HOUR | 0.6214 | MILES/HOUR |
| KILOWATT – HOURS | 3415 | BTU |
| KILOWATT – HOURS | $2.655\times10^{6}$ | FOOT – POUNDS |
| KILOWATT – HOURS | 1.341 | HORSEPOWER – HOURS |
| KILOWATT – HOURS | $3.6\times10^{6}$ | JOULE |
| KILOWATT – HOURS | 860.5 | KILOGRAM – CALORIES |
| KILOWATT – HOURS | $3.671\times10^{5}$ | KILOGRAM – METERS |
| KILOWATTS | 56.869 | BTU/MIN. |
| KILOWATTS | 44253.7 | FOOT – POUNDS/MIN. |
| KILOWATTS | 737.6 | FOOT – POUNDS/SEC. |

| Given | Multiply | By |
|---|---|---|
| KILOWATTS | 1.34102 | HORSEPOWER |
| KILOWATTS | 14.3308 | KG. – CALORIES/MIN. |
| KILOWATTS | $10^{-3}$ | WATTS |
| KNOTS | 1.150779 | MILES (STATUTE)/HOUR |
| LEAGUE (STATUTE) | 3 | MILES (STATUTE) |
| LIGHT YEAR | $5.8785\times10^{12}$ | MILES |
| LINK | 0.01 | CHAIN |
| LINK | 7.92 | INCHES |
| LITERS | 103 | CUBIC CENTIMETERS |
| LITERS | 0.03531 | CUBIC FEET |
| LITERS | 61.02 | CUBIC INCHES |
| LITERS | $10^{-3}$ | CUBIC METERS |
| LITERS | $1.308\times10^{-3}$ | CUBIC YARDS |
| LITERS | 0.2642 | GALLONS |
| LITERS | 2.113 | PINTS (LIQ.) |
| LITERS | 0.908 | QUARTS (DRY) |
| LITERS | 1.0567 | QUARTS (LIQ.) |
| LITERS/MIN. | $5.886\times10^{-4}$ | CUBIC FT./SEC. |
| LITERS/MIN. | 13.19815 | GALLON (BRIT.)/HOUR |
| LITERS/MIN. | $4.403\times10^{-3}$ | GALLONS/SEC. |
| LITERS/SEC. | 2.11888 | CUBIC FT./MIN. |
| METERS | 100 | CENTIMETERS |
| METERS | 3.2808399 | FEET |
| METERS | 39.37 | INCHES |
| METERS | $10^{-3}$ | KILOMETROS |
| METERS | $10^{3}$ | MILLIMETERS |
| METERS | 1.093613 | YARDS |
| METERS/MIN. | 1.667 | CENTIMETERS/SEC. |
| METERS/MIN. | 3.281 | FEET/MIN. |
| METERS/MIN. | 0.05468 | FEET/SEC. |
| METERS/MIN. | 0.06 | KILOMETROS/HOUR |
| METERS/MIN. | 0.03728 | MILES/HOUR |
| METERS/SEC. | 196.8 | FEET/MIN. |
| METERS/SEC. | 3.281 | FEET/SEC. |
| METERS/SEC. | 3.6 | KILOMETER/HOUR |
| METERS/SEC. | 0.06 | KILOMETROS/MIN. |
| METERS/SEC. | 2.236936 | MILES/HOUR |
| METERS/SEC. | 0.03728 | MILES/MIN. |
| MIL | 0.001 | INCH |
| MIL | 0.0254 | MILLIMETER |
| MILES | 320 | ROD |
| MILES | $1.609\times10^{5}$ | CENTIMETERS |
| MILES | 5280 | FEET |
| MILES | 1.609 | KILOMETROS |
| MILES | 1760 | YARDS |
| MILES/HOUR | 44.7 | CENTIMETERS/SEC. |
| MILES/HOUR | 88 | FEET/MIN. |
| MILES/HOUR | 1.467 | FEET/SEC. |
| MILES/HOUR | 1.609 | KILOMETROS/HOUR |
| MILES/HOUR | 0.8684 | KNOTS |
| MILES/HOUR | 26.82 | Metros/MIN. |
| MILES/HOUR | 1.609344 | KILOMETROS/HOUR |
| MILES/HOUR | 0.8689762 | KNOTS |
| MILES/MIN. | 2682 | CENTIMETERS/SEC. |
| MILES/MIN. | 88 | FEET/SEC. |
| MILES/MIN. | 1.609 | KILOMETROS/MIN. |
| MILES/MIN. | 60 | MILES/HOUR |
| MILLIGRAMS | $10^{-3}$ | GRAMS |
| MILLIGRAMS/LITER | 1 | PARTS/MILLION |
| MILLILITERS | 0.0610237 | CUBIC INCH |
| MILLILITERS | 0.0338142 | FLUID OUNCES |
| MILLILITERS | $10^{-3}$ | LITERS |
| MILLIMETERS | 0.1 | CENTIMETERS |
| MILLIMETERS | 0.03937 | INCHES |
| MILLION GALS./DAY | 1.54723 | CUBIC FT./SEC. |
| MINER'S INCHES | 1.5 | CUBIC FT./MIN. |
| MINUTES (ANGLE) | $2.909\times10^{-4}$ | RADIANS |
| NEWTON – METER | 0.737562 | FOOT – POUNDS – FORCE |
| OUNCES | 16 | DRAMS |
| OUNCES | 437.5 | GRAINS |
| OUNCES | 0.0625 | POUNDS |
| OUNCES | 28.349527 | GRAMS |
| OUNCES | 0.9115 | OUNCES (TROY) |
| OUNCES | $2.790\times10^{-5}$ | TONS (LONG) |
| OUNCES | $2.835\times10^{-5}$ | TONS (METRIC) |
| OUNCES (FLUID) | 1.805 | CUBIC INCHES |
| OUNCES (FLUID) | 0.02957 | LITERS |
| OUNCES (FLUID) | 30 | MILLILITERS |
| OUNCES (FLUID) | 1.040843 | OUNCES (BRIT. FLUID) |
| OUNCES (TROY) | 480 | GRAINS |
| OUNCES (TROY) | 20 | PENNYWEIGHTS (TROY) |
| OUNCES (TROY) | 0.08333 | POUNDS (TROY) |

# Conversion Tables

| Given | Multiply | By |
|---|---|---|
| OUNCES (TROY) | 31.103481 | GRAMS |
| OUNCES (TROY) | 1.09714 | OUNCES (AVOIR.) |
| OUNCES/SQUARE INCH | 0.0625 | POUNDS/SQUARE INCH |
| PACE | 2.5 | FEET |
| PALM | 3 | INCH |
| PARTS/MILLION | 0.0584 | GRAINS/U.S. GAL. |
| PARTS/MILLION | 0.07016 | GRAINS/IMP. GAL. |
| PARTS/MILLION | 8.345 | POUNDS/MILLION GAL. |
| PASCAL | 0.0208854 | POUNDS – FORCE/SQ. FT. |
| PECK (BRIT.) | 2 | GALLON (BRIT) |
| PECKS (US) | 8 | QUARTS (US DRY) |
| PENNYWEIGHTS (TROY) | 24 | GRAINS |
| PENNYWEIGHTS (TROY) | 1.55517 | GRAMS |
| PENNYWEIGHTS (TROY) | 0.05 | OUNCES (TROY) |
| PENNYWEIGHTS (TROY) | $4.1667\times10^{-3}$ | POUNDS (TROY) |
| PERCH (MASONRY) | 24.75 | CUBIC FEET |
| POINT (U.S.-PRINT) | 0.013837 | INCH |
| POLE (BRIT.) | 16.5 | FEET |
| POTTLE (BRIT.) | .5 | GALLONS |
| POUNDS | 16 | OUNCES |
| POUNDS | 256 | DRAMS |
| POUNDS | 7000 | GRAINS |
| POUNDS | 0.0005 | TONS (SHORT) |
| POUNDS | 453.5924 | GRAMS |
| POUNDS | 1.21528 | POUNDS (TROY) |
| POUNDS | 14.5833 | OUNCES (TROY) |
| POUNDS OF WATER | 0.01602 | CUBIC FEET |
| POUNDS OF WATER | 27.68 | CUBIC INCHES |
| POUNDS OF WATER | 0.1198 | GALLONS |
| POUNDS OF WATER/MIN. | $2.670\times10^{-4}$ | CUBIC FT./SEC. |
| POUNDS (TROY) | 5760 | GRAINS |
| POUNDS (TROY) | 140 | PENNYWEIGHTS (TROY) |
| POUNDS (TROY) | 12 | OUNCES (TROY) |
| POUNDS (TROY) | 373.24177 | GRAMS |
| POUNDS (TROY) | 0.822857 | POUNDS (AVOIR.) |
| POUNDS (TROY) | 13.1657 | OUNCES (AVOIR.) |
| POUNDS (TROY) | $3.6735\times10^{-4}$ | TONS (LONG) |
| POUNDS (TROY) | $4.1143\times10^{-4}$ | TONS (SHORT) |
| POUNDS (TROY) | $4.1667\times10^{-3}$ | TONS (METRIC) |
| POUNDS/CUBIC FOOT | 0.01602 | GRAMS/CUBIC CM. |
| POUNDS/CUBIC FOOT | 16.02 | KGS./CUBIC METERS |
| POUNDS/CUBIC FOOT | $5.787\times10^{-4}$ | POUNDS/CUBIC INCH |
| POUNDS/CUBIC INCH | 27.68 | GRAMS/CUBIC CM. |
| POUNDS/CUBIC INCH | $2.768\times10^{4}$ | KGS./CUBIC METER |
| POUNDS/CUBIC INCH | 1728 | POUNDS/CUBIC FOOT |
| POUNDS/FOOT | 1.488 | KGS./METER |
| POUNDS/INCH | 178.6 | GRAMS/CM. |
| POUNDS/SQUARE FOOT | 0.01602 | FEET OF WATER |
| POUNDS/SQUARE FOOT | 4.883 | KGS./SQUARE METER |
| POUNDS/SQUARE FOOT | $6.945\times10^{-3}$ | POUNDS/SQUARE INCH |
| POUNDS/SQUARE INCH | 0.068046 | ATMOSPHERES |
| POUNDS/SQUARE INCH | 2.307 | FEET OF WATER |
| POUNDS/SQUARE INCH | 2.03602 | INCHES OF MERCURY |
| POUNDS/SQUARE INCH | 703.1 | KGS./SQUARE METER |
| PSI | 1 | POUND – FORCE/SQ. IN. |
| PUNCHEON | 84 | GALLONS |
| PUNCHEON (BRIT.) | 70 | GALLON (BRIT.) |
| QUARTS (DRY) | 0.03125 | BUSHEL |
| QUARTS (DRY) | 67.200625 | CUBIC INCHES |
| QUARTS (DRY) | 1.101 | LITERS |
| QUARTS (LIQ) | 57.75 | CUBIC INCHES |
| QUARTS (LIQ) | 0.9463 | LITER |
| QUARTS (LIQ) | 0.8326742 | QUART (BRIT.) |
| QUARTS (LIQ) | 0.859367 | QUART (DRY) |
| QUINTAL, ARGENTINE | 101.28 | POUNDS |
| QUINTAL, BRAZIL | 129.54 | POUNDS |
| QUINTAL, CASTILE, PERU | 101.43 | POUNDS |
| QUINTAL, CHILE | 101.41 | POUNDS |
| QUINTAL, METRIC | 220.46 | POUNDS |
| QUINTAL, MEXICO | 101.47 | POUNDS |
| RADIANS | 57.29578 | DEGREES |
| RADIANS | 3437.747 | MINUTES |
| RADIANS | 0.63662 | QUADRANTS |
| RADIANS/SEC. | 57.3 | DEGREES/SEC. |
| RADIANS/SEC. | 0.1592 | REVOLUTIONS/SEC. |
| RADIANS/SEC. | 9.549297 | REVOLUTIONS/MIN. |
| REAMS | 500 | SHEETS |
| REVOLUTIONS | 360 | DEGREES |
| REVOLUTIONS | 4 | QUADRANTS |
| REVOLUTIONS | 6.283 | RADIANS |
| REVOLUTIONS/MIN. | 6 | DEGREES/SEC. |
| REVOLUTIONS/MIN. | 0.1047 | RADIANS/SEC. |

| Given | Multiply | By |
|---|---|---|
| REVOLUTIONS/MIN. | 0.01667 | REVOLUTIONS/SEC. |
| REVOLUTIONS/SEC. | 360 | DEGREES/SEC. |
| REVOLUTIONS/SEC. | 6.283 | RADIANS/SEC. |
| REVOLUTIONS/SEC. | 60 | REVOLUTIONS/MIN. |
| RODS | 16.5 | FEET |
| ROPE | 20 | FEET |
| SCRUPLE | 20 | GRAINS |
| SEAM (BRIT.) | 64 | GALLON (BRIT.) |
| SLUG | 14.5939 | KILOGRAMS |
| SPAN | 9 | INCHES |
| SQUARE CM. | $10^{-4}$ | SQUARE METERS |
| SQUARE CM. | 100 | SQUARE MILLIMETERS |
| SQUARE FEET | $2.296\times10^{-5}$ | ACRES |
| SQUARE FEET | 929 | SQUARE CENTIMETERS |
| SQUARE FEET | 144 | SQUARE INCHES |
| SQUARE FEET | 0.0929 | SQUARE METERS |
| SQUARE FEET | $3.587\times10^{-3}$ | SQUARE MILES |
| SQUARE FEET | 1/9 | SQUARE YARDS |
| SQUARE INCHES | 6.452 | SQUARE CENTIMETERS |
| SQUARE INCHES | $6.944\times10^{-3}$ | SQUARE FEET |
| SQUARE INCHES | 645.2 | SQUARE MILLIMETERS |
| SQUARE KILOMETERS | 247.1 | ACRES |
| SQUARE KILOMETERS | $10.76\times10^{6}$ | SQUARE FEET |
| SQUARE KILOMETERS | $10^{6}$ | SQUARE METERS |
| SQUARE KILOMETERS | 0.3861 | SQUARE MILES |
| SQUARE KILOMETERS | $1.196\times10^{6}$ | SQUARE YARDS |
| SQUARE METERS | $2.471\times10^{-4}$ | ACRES |
| SQUARE METERS | 10.76 | SQUARE FEET |
| SQUARE METERS | $3.861\times10^{-7}$ | SQUARE MILES |
| SQUARE METERS | 1.196 | SQUARE YARDS |
| SQUARE MILES | 640 | ACRES |
| SQUARE MILES | $27.88\times10^{6}$ | SQUARE FEET |
| SQUARE MILES | 2.59 | SQUARE KILOMETERS |
| SQUARE MILES | $3.098\times10^{6}$ | SQUARE YARDS |
| SQUARE MILLIMETERS | 0.01 | SQUARE CENTIMETERS |
| SQUARE MILLIMETERS | $1.550\times10^{-3}$ | SQUARE INCHES |
| SQUARE YARDS | $2.066\times10^{-4}$ | ACRES |
| SQUARE YARDS | 9 | SQUARE FEET |
| SQUARE YARDS | 0.8361 | SQUARE METERS |
| SQUARE YARDS | $3.228\times10^{-7}$ | SQUARE MILES |
| STERE | 1 | CUBIC METER |
| STERE | 0.2759 | CORD |
| STONE | 14 | POUNDS |
| TABLESPOON | 14.79 | MILLILITERS |
| TEASPOON | 5 | MILLILITERS |
| TEMP.(°C.)+17.78 | 1.8 | TEMP.(°F.) |
| TEMP.(°F)-32 | .555 | TEMP.(°C.) |
| THERM | 100,000 | BTU |
| TONS OF WATER/24 HRS. | 83.333 | POUNDS WATER/HOUR |
| TONS OF WATER/24 HRS. | 0.16643 | GALLONS/MIN. |
| TONS OF WATER/24 HRS. | 1.3349 | CUBIC FT./HOUR |
| TONS (LONG) | 1016.0469 | KILOGRAMS |
| TONS (LONG) | 1.016047 | TONS (METRIC) |
| TONS (LONG) | 2240 | POUNDS |
| TONS (LONG) | 1.12 | TONS (SHORT) |
| TONS (METRIC) | 103 | KILOGRAMS |
| TONS (METRIC) | 2205 | POUNDS |
| TONS (SHORT) | 2000 | POUNDS |
| TONS (SHORT) | 32000 | OUNCES |
| TONS (SHORT) | 907.18486 | KILOGRAMS |
| TONS (SHORT) | 2430.56 | POUNDS (TROY) |
| TONS (SHORT) | 0.89287 | TONS (LONG) |
| TONS (SHORT) | 29166 | OUNCES (TROY) |
| TONS (SHORT) | 0.90718 | TONS (METRIC) |
| WATT – HOUR | 3600 | JOULE |
| WATTS | 0.05692 | BTU/MIN. |
| WATTS | 44.26 | FOOT – POUNDS/MIN. |
| WATTS | 0.7376 | FOOT – POUNDS/SEC. |
| WATTS | $1.341\times10^{-3}$ | HORSEPOWER |
| WATTS | 0.01434 | KG. – CALORIES/MIN. |
| WATTS | 10-3 | KILOWATTS |
| WATTS – HOURS | 3.41214 | BTU |
| WATTS – HOURS | 2655 | FOOT – POUNDS – FORCE |
| WATTS – HOURS | $1.341\times10^{-3}$ | HORSEPOWER – HOURS |
| WATTS – HOURS | 3600 | JOULES |
| WATTS – HOURS | 0.8605 | KILOGRAM – CALORIES |
| WATTS – HOURS | 367.1 | KILOGRAM – METROS |
| WATTS – HOURS | 10-3 | KILOWATT – HOURS |
| YARDS | 91.44 | CENTIMETERS |
| YARDS | 36 | INCHES |
| YARDS | 0.9144 | METROS |

# Notes

# Limited Warranty and Additional Terms & Conditions

## LIMITED WARRANTY

Revised September 16, 2021

Subject to the limitation expressed in subsequent paragraphs, Martin Sprocket & Gear, Inc. and Martin Sprocket & Gear Canada Inc., and Martin Sprocket & Gear de Mexico, S.A. de C.V., make the following warranties: We warrant that each of our products of manufacture will be free from defects in material and workmanship under normal use, and service and stored, installed and maintained properly for twelve months from the date of delivery to the original user. We will correct any such defects in material or workmanship by repair or replacement of the product F.O.B. our plant. Tools will carry the following lifetime warranty: If a Martin tool fails to satisfactorily perform its designated use, it may be returned to the Martin distributor from which such tool was purchased and will be repaired or replaced without cost.

**THE FOREGOING WARRANTIES ARE EXPRESSLY IN LIEU OF ANY AND ALL REPRESENTATIONS, WARRANTIES AND CONDITIONS EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHETHER ARISING FROM STATUTE, COMMON LAW, CUSTOM, OR OTHERWISE. THE REMEDY OF REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT OR TOOL SET FORTH IN THE FOREGOING WARRANTIES SHALL BE THE EXCLUSIVE REMEDY AVAILABLE TO ANY PERSON.**

Charges for correcting defects will not be allowed, nor can we accept goods returned to us for repair or replacement, unless we are previously notified of the defect in writing and the return or correction is authorized by us in writing. All warranty claims alleging defects of materials or workmanship must be submitted in writing within thirty days of the discovery of a defect or such claim shall be considered waived. (This paragraph is subject to the provisions of the Consumer Protection laws of Mexico.)

The foregoing warranties shall not apply to any products or tools which have been subjected to misuse, neglect or accident, or have been altered or tampered with, or have been used beyond their normal useful or expected life, or which have had corrective work done thereon without our written consent. WE SHALL NOT BE LIABLE FOR ANY LOSS, INJURY, EXPENSE, OR DAMAGE, WHETHER DIRECT, CONSEQUENTIAL, INCIDENTAL, OR OTHERWISE, RESULTING FROM THE USE OF OUR PRODUCTS OR TOOLS OR CAUSED BY ANY DEFECT, FAILURE, OR MALFUNCTION OF ANY PRODUCT OR TOOL, WHETHER A CLAIM FOR SUCH DAMAGES IS BASED UPON WARRANTY, CONTRACT, NEGLIGENCE, OR OTHERWISE. Equipment manufactured by others, and included in our proposal, is not warranted in any way by us but carries only the manufacturer's warranty, if any. No person has the authority to bind us to any representation or warranty other than the foregoing limited warranties as disclaimed.

Sale of Martin products and tools shall be governed by the laws of the State of Texas and of the United States of America. The provisions of the United Nations Convention on Contracts for the International Sale of Goods or any local statute declaring it to have the force of law in the jurisdiction of one of the parties shall not apply to products or tools supplied hereunder.

"YOU ARE HEREBY NOTIFIED THAT ANY ADDITIONAL OR DIFFERENT TERMS FROM THOSE CONTAINED IN THIS LIMITED WARRANTY ARE OBJECTIONABLE. NO ADDITIONS OR CHANGES ARE BINDING ON MARTIN UNLESS THEY ARE IN WRITING AND SIGNED BY AN AUTHORIZED OFFICER."

NOTE: All past due invoices shall be payable to Martin Sprocket & Gear, Inc., at P.O. Box 91588, Arlington, Tarrant County, Texas 76015-0088. All past due invoices of Martin Sprocket & Gear Canada Inc., shall be payable at 896 Meyerside Drive, Mississauga, Ontario, Canada L5T 1R9. All past due Invoices of Martin Sprocket & Gear de Mexico, SA dee. C.V., shall be payable at Km. 52 Carretera, Naucalpan-Toluca, Calle 3 Mz.7 Lt. 11, Parque Industrial, Toluca 2000, Toluca, Edo. de Mexico, C.P. 50200. Reasonable attorneys' fees will be added if collection is forced.

## ADDITIONAL TERMS & CONDITIONS APPLICABLE TO ORDERS OF MARTIN STOCK PARTS

**TAXES:** Any sales, use, consumption, or other similar tax applicable to the sale, purchase, or use of any Product is not included in quoted price and shall be paid by the Purchaser.

**RETURNED PRODUCT:** When it is desired to return Product for credit or exchange, it is necessary that permission in writing first be obtained from the nearest Martin Sprocket & Gear sales office. .

**SHIPMENTS:** If Seller is not able to meet Purchaser's shipment requirements and/or expected dates of shipment, Seller will not accept liability for delays beyond Seller's control, nor will Seller accept cancellations unless a settlement has been agreed upon between all parties.

**FREIGHT ALLOWANCE:** Freight allowances are shown on the different product discount sheets. In cases where a Purchaser's specified routing of any Order is more costly than the routing selected by Seller, the excess charges will be added to the net amount of the invoice. Weights shown in supplier's publications are approximate, and may not be used to determine qualifications for freight allowance.

**CASH DISCOUNT:** Unless modified in the Order or Invoice, payment shall be: A 1% cash discount will be allowed on invoices paid net 15 days. All invoices are due in 30 days. Cash discount does not apply to other charges such as freight, postage, or delivery charges.

**PUBLISHED DIMENSIONAL DATA:** Due to changes in engineering and manufacturing processes and procedures, it becomes necessary, from time to time, to make alterations to products. Such alterations may not be reflected in supplier's publications. Therefore, if dimensions, specifications or appearances represented by pictures or drawings or tables are critical in their applications, please consult the factory for clarification or certified drawings.

# What would Joe do?

**OWN** your own territory and take care of our customers

**RUN** your facility and take care of our people

**ADD** something to the ballgame

**MAKE SURE** you have your priorities right

**ALWAYS** back to the basics – quality, service, low-cost producer

**HOW** to get big and stay small


**Phone: 817.258.3000**

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