

PIC Design has increased its range of belts and pulleys to provide users with the most complete line for motion control and light power transmission. Designers are no longer confined to the use of one type of drive system. PIC Design offers No-Slip™ Positioning Timing Belts, No-Slide™, E*P*S, E*P*S HTD® (Metric), Round Belts, and Miniature Chain. All come with appropriate pulleys or sprockets in various materials.

PIC Design Belts and Pulleys — A Brief Overview

NO-SLIP™ POSITIONING BELTS

No-Slip series timing belts feature many design elements. The polyurethane belts operate backlash free without lubrication and have excellent chemical and abrasion resistance for use in medical and food processing applications. Positive tooth engagement offers silent No-Slip drive. No-Slip belts are available with Aramid (Kevlar) or stainless steel cable cores in single or twin core configurations. Sprockets are available in either aluminum or stainless steel. Belts are available in lengths up to 100 feet and can be spliced in the field for added versatility.

NO-SLIDE™ TIMING BELTS

A new series of synchronous belts, combined with a grooved flangeless pulley, offers high performance timing. No-flange pulleys allow air to escape and prevents it from being trapped between the belt and flange. No-Slide belts are

molded in polyurethane with a stainless steel core (cable). They require no lubrication, handle higher load capacities than standard timing belts, are available in lengths up to 100 feet, and can be spliced in the field for added versatility.

No-Slide belts are excellent for medical, packaging, and labeling applications, and where higher load capacity is required. No-Slide pulleys are available in aluminum.

E*P*S TIMING BELTS

The E*P*S synchronous timing belt is the classical timing belt that provides positive, non-slip power transmission. These belts are available in neoprene rubber with nylon facing and a fiberglass tensile member, or urethane with a polyester tensile member as shown. A Kevlar tensile member is also available as an option. These belts are directly interchangeable with each other. The urethane belts have excellent flex characteristics which allows them to operate on pulleys with as few as 10 teeth, and ratios of 8:1 on smaller center distances. The E*P*S line is recommended for use on office, mailing, and data processing equipment, printers, plotters, robotics, optical, and photographic equipment.

E*P*S HTD® TIMING BELTS

The E*P*S HTD® timing belts provide positive non-slip transmission at both low and high speeds and offer a higher load carrying capabil-

ity than the E*P*S trapezoidal design, due to the deeper curvilinear shape of the belt tooth. E*P*S HTD® belts can transmit more power with a more compact package as compared to E*P*S belts, and can be used in applications where shock load is evident, such as vacuum cleaners, floor polishers, sanders, centrifuges and power tools, as well as office equipment drive systems. Pulleys are available in machined aluminum.

ROUND BELTS

Round belt or O-ring drive belt systems are used in a wide variety of applications such as vibration dampening in precision mechanisms and reduction of distortion in audio equipment. Round belts also provide overload protection and can act as a clutch in certain applications. Grooved pulleys are available in stainless steel and aluminum.

MINIATURE PITCH CHAIN

Miniature pitch chains are made of non-magnetic grade stainless steel. The large joint bearing area construction permits greater loads and speeds. Precision control of chain length allows for positioning accuracy between the driver and driven sprockets. Continuous and positive lubrication is recommended for maximum life and efficiency. Sprockets are available in stainless steel and aluminum.

No-Slip and No-Slide are trademarks of Precision Industrial Components Corporation. HTD is a Registered Trademark of Gates Rubber Co., Denver, CO.

TECHNICAL SECTION

Application Information

To assist customers in selecting the most appropriate flexible drive system in particular applications, PIC Design has included an Application Guide along with a Flexible Drive System Comparison Chart.

The Application Guide assists in determining the drive system suitable for your application. If your specific applications are not listed, use ones which are most similar.

The Comparison Chart will enable users to choose the drive system that will best suit a particular application. The features of these drive systems are listed so that the drive system selected will provide the most economical, maintenance-free and longest life for a particular application.

No-Slip Series belts fulfill the need for the most accurate and smoothest running drive system, while the **E*P*S Series** provides an economical solution to positive power transmission. **No-Slide timing belts** offer higher load capacities, run on no-flange pulleys, offer quiet operation, and can be used in smaller areas. **Miniature chains** offer a positive drive system for heavier duty applications, while **Round Belts** are most suitable for low-load applications not requiring positioning accuracy.

Users are encouraged to request advice or answers to questions not covered here — please don't hesitate to consult PIC Design directly.

Application Guide

| | Flexible Drive Systems | | | | |
|---|------------------------|----------------|--------------|-------|-------|
| | No-Slip Belts | No-Slide Belts | Timing Belts | Chain | Round |
| CNC Positioning Devices | X | X | X | | |
| Magnification & Focusing Adjustment Devices | X | | | | |
| Laser Alignment Mechanisms | X | | | | |
| Gear Boxes | X | X | X | X | |
| Paper Feeds | | X | X | | X |
| Household Appliances | | X | X | | X |
| Centrifuges | | X | X | | |
| Encoders — High Resolution Std. Resolution | X X | X | X | | |
| Plotters | X | | | | |
| Plating Room Equipment | X | X | X | | X |
| High Speed Printers | | X | X | | |
| Manual Positioning Mechanisms | X | X | X | X | X |
| Power Tools, Sanders, etc. | | X | X | | |
| Machinery Drives | | X | X | X | X |
| Advertising Displays | X | X | X | X | X |
| Stepper Motor Drives | X | X | X | | |
| Business Machines | X | X | X | X | X |
| Audio & Visual Equipment | X | X | X | X | X |

Flexible Drive System Feature Comparison

| Drive Type | No-Slip | No-Slide | E*P*S (Timing) | | E*P*S HTD® | Chain | Round |
|--|--|--|--|--|----------------------|---------------------------|---|
| Catalog Series and Pitch | F, F32 - 32DP, F24C - .1309CP, FR - .1475CP, FL, FM, F20TS - 20DP, F25C - .250CP | F8B-40DP (.0816CP), F20B-.200CP, F37B-.375CP | EPS-A-.080CP, EPS-D-.200CP, EPS-J-.375CP | EPS-A-.080CP, EPS-D-.200CP, EPS-C-.0816CP (40DP) | EPS-F-3mm, EPS-G-5mm | EL-.1475CP EL25-.250CP | AF2-1/16" Thick AF3-3/32" Thick AF4-1/8" Thick AF5-3/16" Thick AF6-1/4" Thick |
| Body Material | Polyurethane | Polyurethane | Neoprene | Polyurethane | Neoprene | Stainless Steel | Polyurethane |
| Reinforcement | Stainless Steel or Aramid Fiber | Stainless Steel or Aramid Fiber | Fiber Glass | Polyester Fiber | Fiber Glass | — | None |
| Drive Both Sides of Belt | Yes ¹ | No | No | No | No | Yes | Yes |
| Right Angle Drive | FS & FA ² | No | No | No | No | No | Yes |
| Resistance to Oils and Chemicals | Stainless Steel - Excellent Aramid - Good | Stainless Steel - Excellent Aramid - Good | Good | No | No | No | Yes |
| Pulley to Pulley ³ Misalignment | Single Core — up to 5° Double Core — up to 1/10° | Up to 1/10° | Up to 1/4° | Up to 1/4° | Up to 1/4° | No | Yes |
| Pulley Tooth Form | 32DP — Involute 20DP, 24DP, .1475CP, .250CP — Precision Sprocket | Trapezoidal | Trapezoidal | Trapezoidal | HTD® Curvilinear | Precision Sprocket | Radius Groove |
| Abrasion Resistance | Excellent | Excellent | Good | Excellent | Good | Good | Excellent |
| Pulleys Mesh With Standard Spur Gears | 32DP — Yes 20DP, 24DP — Option Available .1475CP, .250CP — No | No | No | No | No | No | No |
| Ability to Withstand Shock Loads | Fair | Fair | Limited | Good | Fair | Limited | Excellent |
| Temperature (°F) | -65 to +180 ⁴ | -65 to +180 ⁴ | -30 to +185 | -65 to +180 | -30 to +185 | — | -40 to +180 |

Notes: Note¹ Driving stainless steel reinforced belts on both sides, results in a reduction of belt life due to reverse bending.

Note² Twisting of the belt may cause the belt to wear excessively and reduce belt life. Shafts at right angles require a center distance at least 5 1/2 times the larger pulley diameter.

Note³ Misalignment of pulleys will cause abrasive wear on the belt and reduce belt life.

Note⁴ Practical operating temperatures are -10°F to +140°F.

NO-SLIP AND NO-SLIDE DRIVE SYSTEMS

PIC Design Guide For No-Slip and No-Slide Drive Systems

| No-Slip / No-Slide | Catalog Belt Series | Pitch | Reinforcement Cable Diameter (Inch) | Positional Accuracy | Recommended Minimum Pulley Diameter (Inch) | Recommended Minimum Number Of Teeth In Mesh | Recommended Maximum Belt Operating Speed (No Load / Load) (Feet per Min.) | Recommended Maximum Operating Belt Tension (LBS) | Ultimate Static Tensile Strength For Endless Belt (LBS) |
|--------------------|---------------------|---------------------------------|-------------------------------------|---------------------|--|---|---|--|---|
| No-Slip | FA | 32DP .0982CP Single Core | .032 Aramid Fiber | Excellent | .500 | 8 | 900 / 300 | 4-5 | 25 |
| | FS | | .032 Stainless Steel | | .750 | 8 | 900 / 350 | 6-8 | 50 |
| | F32BS18 | | .018 Stainless Steel | | .500 | 8 | 800 / 350 | 4-5 | 20 |
| | F32CS | 32DP / .0982CP Double Core | .018 Stainless Steel | Very Good | .750 | 8 | 850 / 350 | 6-7 | 50 |
| | FLA | 20DP .15708CP Single Core | .032 Aramid Fiber | Good | .750 | 6 | 1100 / 500 | 5-6 | 25 |
| | FLS | | .032 Stainless Steel | | .750 | 6 | 1100 / 600 | 10-12 | 50 |
| | FMA | 20DP .15708CP Double Core | .032 Aramid Fiber | Good | .750 | 6 | 1300 / 550 | 10-12 | 50 |
| | FMS | | .032 Stainless Steel | | .750 | 6 | 1300 / 700 | 20-25 | 100 |
| | F20TS | 20DP Triple Core | .032 Stainless Steel | Good | .750 | 6 | 1300 / 700 | 20-25 | 100 |
| | FRA | .1475CP Double Core | .032 Aramid Fiber | Good | .750 | 6 | 1300 / 550 | 10-12 | 50 |
| | FRS | | .032 Stainless Steel | | .750 | 6 | 1300 / 700 | 20-25 | 100 |
| | F24CA | 24DP .1309CP Double Core | .032 Aramid Fiber | Good | .750 | 6 | 1300 / 550 | 10-12 | 50 |
| | F24CS | | .032 Stainless Steel | | .750 | 6 | 1300 / 700 | 20-25 | 100 |
| | F25CA | .250CP Double Core | .032 Aramid Fiber | Good | .750 | 5 | 1300 / 550 | 10-12 | 50 |
| | F25CS | | .032 Stainless Steel | | .750 | 5 | 1300 / 700 | 20-25 | 100 |
| No-Slide | F8BS | 40DP, .0816CP Single Core | .018 Stainless Steel | Good | .500 | 8 | 700 / 300 | 4-5 | 20 |
| | F20BA | .200CP Single Core | .032 Aramid Fiber | Very Good | .750 | 6 | 1200 / 550 | 5-6 | 25 |
| | F20BS | | .032 Stainless Steel | | .750 | 6 | 1200 / 650 | 10-12 | 50 |
| | F37BS | .375CP Single Core | .047 Stainless Steel | Good | 1.375 | 6 | 800 / 450 | 25-30 | 125 |

NO-SLIP SERIES

PIC's No-Slip and No-Slide High Performance Positioning Drive Systems

The No-Slip principle was introduced by PIC over 25 years ago. The No-Slip principle allows the drive system to function primarily as a precise positioning device by locating the drive pins on the belt pitch line, allowing them to mesh smoothly with the pulleys without the clearance required for standard belts and pulleys. The elimination of the clearance makes the drive system "backlash free" and an excellent means of maintaining the accuracy for precision positioning applications.

No-Slip belts utilize round drive pins which are molded perpendicularly to one or more molded tensile members. These molded tensile members are larger than the drive pins, which are located on the pitch line of the tensile member. The molded tensile member(s) surround a reinforcing cable(s) providing strength and minimal stretch while the loads are transferred through the tensile members to the pulley shoulders or grooves.

The 32DP (diametral pitch) No-Slip drive system is an industry standard. The single core belt runs on pulleys that are generated with precision involute form teeth. This fine pitch results in a greater number of teeth engaged, which produces the highest positioning devices. The involute form of the pulleys allows a spur gear to be driven by the belt or pulley. The 32DP twin core design No-Slip drive system offers additional strength for higher loads.

The .1475CP and .2500 CP No-Slip drive systems are twin core belts that are an economical solution to miniature pitch stainless steel chain. These belts are for high load carrying applications requiring No-Slip accuracy. These belts have replaced miniature pitch stainless steel chain in many existing applications.

The No-Slide principle allows the drive system to operate using pulleys without flanges. The belt stays on the center of the pulley due to an encapsulated stainless steel or Aramid cable in the center of the belt and a matching groove in the pulley.

The elimination of a flange results in two major benefits. It produces a more compact drive system and it also eliminates the air trapped by the flanges found on conventional synchronous belts — therefore making it a quieter running belt.

No-Slide belts are produced by a continuous polyurethane molding process with either a stainless steel or Aramid core. The finished belt is joined by crimping the cable ends within a stainless steel ferrule, which is then overmolded for added strength and protection of the pulley.

These polyurethane belts have inherent chemical and abrasion resistance that allow operation in applications where carbon dusting encountered with neoprene belts cannot be tolerated. The No-Slide series of belts are excellent for medical and packaging applications.

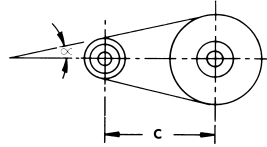
The design guide (shown on previous page) enables users to select the appropriate system for a particular application. The belt length calculations are included to insure that the proper belt length has been selected for the center distance and ratio of your drive system.

BELT LENGTH CALCULATIONS

D = Pitch Diameter Large Pulley (inches)
d = Pitch Diameter Small Pulley (inches)
C = Center Distance (inches)

α = Angle Between Belt and Centerline
L = Belt Pitch Length (inches — approx.)

For Parallel Shafts:



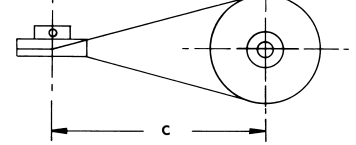
$$\alpha = \sin^{-1} \left[\frac{D-d}{2C} \right]$$

$$L = 2C \cos \alpha + \frac{\pi(D+d)}{2} + \frac{\pi\alpha(D-d)}{180}$$

or

$$L_{APPROX} = 2C + 1.57(D+d) + \frac{(D-d)^2}{4C}$$

For Right Angle Shafts FA & FS Only:



$$L = \frac{\pi}{2} (D + d) + \sqrt{4C^2 + D^2 + d^2}$$

BELT SPEED CALCULATIONS

$$BS \text{ (fpm)} = (.262) \times PD \times \text{RPM}$$

CENTER DISTANCE CALCULATIONS

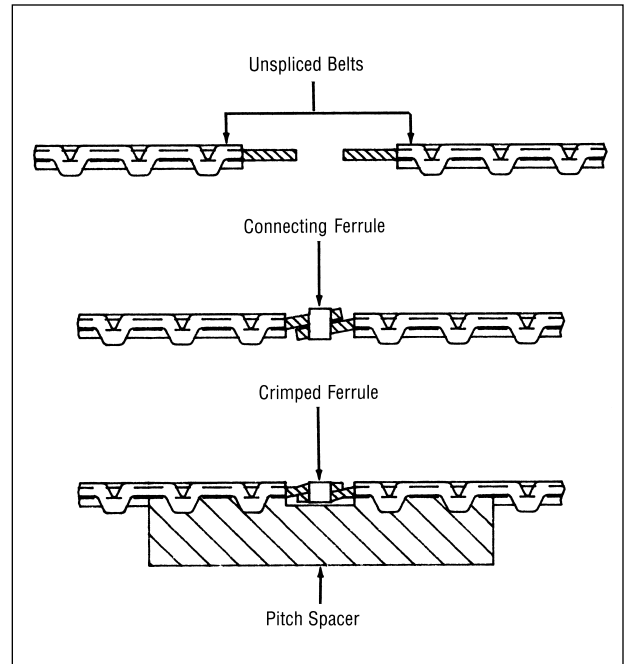
$$C = \frac{K + \sqrt{K^2 - 32(D-d)^2}}{16}$$

$$\text{Where } K = 4L - 2\pi(D+d)$$

STANDARD CALCULATIONS

| Required | Given | Formula |
|----------------------------------|--|--|
| Speed ratio (R) | Shaft speeds (rpm) | $R = \frac{\text{rpm (faster shaft speed)}}{\text{rpm (slower shaft speed)}}$ |
| | Pulley Diameters (D & d) | $R = \frac{D \text{ (larger pulley diameter)}}{d \text{ (smaller pulley diameter)}}$ |
| | Number of pulley grooves (N & n) | $R = \frac{N \text{ (larger pulley groove no.)}}{n \text{ (smaller pulley groove no.)}}$ |
| Horsepower (hp) | Torque (T) in in.- lbs. Shaft speed (rpm) | $hp = \frac{T \times \text{rpm}}{63,025}$ |
| Torque (T) in in.- lbs. | Shaft horsepower (hp) Shaft speed (rpm) | $T = \frac{63,025 \times hp}{\text{rpm}}$ |
| Effective tension (Te) | Shaft horsepower (hp) Belt speed (BS) | $Te = \frac{33,000 \times hp}{BS}$ |
| Effective tension (Te) in pounds | Torque (T) in in.- lbs. Pulley pd in inches | $Te = \frac{2 \times T}{pd}$ |

BELT SPLICING KIT



Belt splicing in the field is possible for NO-SLIP & NO-SLIDE positioning and timing belts when the appropriate splicing kit is used. Part numbers for these kits can be found on each No-Slip — No-Slide belt specification page or in the table below. In addition to containing a crimp tool & die set, positioning holddown rack and cable cutter; detailed procedures define the five basic steps to assure a correct splice. These steps are:

1. Cut belt to desired length
2. Remove polyurethane from each end
3. Insert ends into ferrule
4. Position belt into holddown feature
5. Crimp

When extra ferrules are required they may be ordered as follows:

| Cable Size | Ferrule Part Number |
|----------------|---------------------|
| .018" Diameter | FER018 |
| .032" Diameter | FER032 |
| .047" Diameter | FER047 |

Note: Because factory crimps use highly controlled pneumatic equipment and, in some cases polyurethane overmolding, field crimps result in loads that are 50% of the catalog ratings.

Field Belt Splicing Kit

| Belt Series Number | Kit Part Number | Crimp Plier Part Number | Crimp Die Part Number | Hobby Knife Part Number | Stripper Cutter Part Number | Ferrules* Part Number | Position Rack & Hold Down Part Number | Flush** Cutter Part Number |
|--------------------|-----------------|-------------------------|-----------------------|-------------------------|-----------------------------|-----------------------|---------------------------------------|----------------------------|
| FS / FA | F-SK | TL-91 | TL-89 | TL-86 | TL-87 | FER032 | TL-70-71 | — |
| FLS / FLA | FL-SK | TL-91 | TL-89 | TL-86 | TL-87 | FER032 | TL-76-77 | — |
| FMS / FMA | FM-SK | TL-91 | TL-89 | TL-86 | TL-87 | FER032 | TL-78-79 | — |
| FRS / FRA | FR-SK | TL-91 | TL-89 | TL-86 | TL-87 | FER032 | TL-80-81 | — |
| F8BS | F8B-SK | TL-91 | TL-90 | TL-86 | TL-87 | FER018 | TL-62-63 | — |
| F20BS / F20BA | F20B-SK | TL-91 | TL-89 | TL-86 | TL-87 | FER032 | TL-60-61 | TL-32 |
| F20TS | F20T-SK | TL-91 | TL-89 | TL-86 | TL-87 | FER032 | TL-66-67 | — |
| F24CS / F24CA | F24C-SK | TL-91 | TL-89 | TL-86 | TL-87 | FER032 | TL-72-73 | — |
| F25CS / F25CA | F25C-SK | TL-91 | TL-89 | TL-86 | TL-87 | FER032 | TL-74-75 | TL-32 |
| F32BS18 | F32B18-SK | TL-91 | TL-90 | TL-86 | TL-87 | FER018 | TL-70-71 | — |
| F32CS / F32CA | F32C-SK | TL-91 | TL-90 | TL-86 | TL-87 | FER018 | TL-68-69 | — |
| F37BS | F37B-SK | TL-91 | TL-88 | TL-86 | TL-87 | FER047 | TL-64-65 | TL-32 |

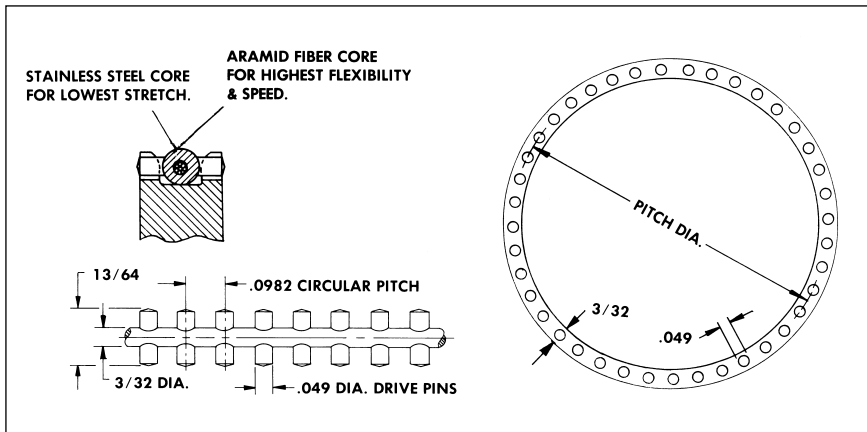
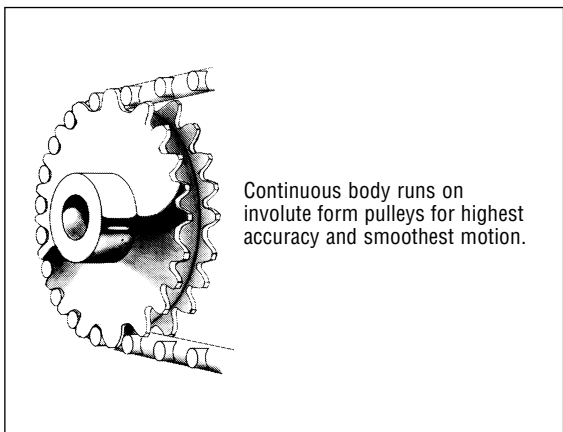
Notes:

* Twenty (20) ferrules included in each kit.

** Heavy duty cutter supplied as indicated - can be ordered as option for other kits.

NO-SLIP POSITIVE DRIVE BELT - ULTRA PRECISION

32DP, .0982CP — Single Core



Material:

FA Series: Molded Polyurethane, .032" diameter Aramid Fiber Core (Kevlar). Color: Blue

FS Series: Molded Polyurethane, .032" diameter Stainless Steel Core. Color: Blue

| Number of Drive Pins | Length (Ref.) | Part No. Aramid Core | Part No. Steel Core |
|----------------------|---------------|----------------------|---------------------|
| 64 | 6.283 | FA-64 | FS-64 |
| 80 | 7.854 | FA-80 | FS-80 |
| 95 | 9.327 | FA-95 | FS-95 |
| 112 | 10.996 | FA-112 | FS-112 |
| 126 | 12.370 | FA-126 | FS-126 |
| 128 | 12.566 | FA-128 | FS-128 |
| 144 | 14.137 | FA-144 | FS-144 |
| 158 | 15.512 | FA-158 | FS-158 |
| 176 | 17.279 | FA-176 | FS-176 |
| 189 | 18.557 | FA-189 | FS-189 |
| 208 | 20.420 | FA-208 | FS-208 |
| 220 | 21.598 | FA-220 | FS-220 |
| 240 | 23.562 | FA-240 | FS-240 |
| 252 | 24.740 | FA-252 | FS-252 |
| 272 | 26.704 | FA-272 | FS-272 |
| 283 | 27.784 | FA-283 | FS-283 |
| 304 | 29.845 | FA-304 | FS-304 |
| 315 | 30.923 | FA-315 | FS-315 |
| 336 | 32.987 | FA-336 | FS-336 |
| 346 | 33.967 | FA-346 | FS-346 |
| 368 | 36.128 | FA-368 | FS-368 |
| 377 | 37.011 | FA-377 | FS-377 |
| 400 | 39.270 | FA-400 | FS-400 |
| 408 | 40.055 | FA-408 | FS-408 |
| 432 | 42.412 | FA-432 | FS-432 |

| Number of Drive Pins | Length (Ref.) | Part No. Aramid Core | Part No. Steel Core |
|----------------------|---------------|----------------------|---------------------|
| 440 | 43.197 | FA-440 | FS-440 |
| 464 | 45.553 | FA-464 | FS-464 |
| 471 | 46.238 | FA-471 | FS-471 |
| 480 | 47.124 | FA-480 | FS-480 |
| 496 | 48.695 | FA-496 | FS-496 |
| 512 | 50.265 | FA-512 | FS-512 |
| 528 | 51.836 | FA-528 | FS-528 |
| 544 | 53.407 | FA-544 | FS-544 |
| 560 | 54.978 | FA-560 | FS-560 |
| 576 | 56.549 | FA-576 | FS-576 |
| 592 | 58.120 | FA-592 | FS-592 |
| 608 | 59.690 | FA-608 | FS-608 |
| 624 | 61.261 | FA-624 | FS-624 |
| 640 | 62.832 | FA-640 | FS-640 |
| 656 | 64.402 | FA-656 | FS-656 |
| 672 | 65.973 | FA-672 | FS-672 |
| 688 | 67.544 | FA-688 | FS-688 |
| 704 | 69.115 | FA-704 | FS-704 |
| 720 | 70.686 | FA-720 | FS-720 |
| 736 | 72.257 | FA-736 | FS-736 |
| 752 | 73.827 | FA-752 | FS-752 |
| 768 | 75.398 | FA-768 | FS-768 |
| 784 | 76.969 | FA-784 | FS-784 |
| 800 | 78.540 | FA-800 | FS-800 |
| — | — | — | — |

For other length belts longer than the minimum listed, substitute the desired number of drive pins at the end of the part number.

32DP (.0982 CP) ORIGINAL SINGLE CORE NO-SLIP BELTS — SERIES FA & FS

Smoothest motion, highest accuracy. Continuous molded body runs on precision, involute form pulleys. Fine pitch results in greatest number of teeth engaged. Single core permits non-parallel or right angle shafts position. Recommended for highest accuracy, lower load applications such as encoders and measuring devices.

INCREASED FLEXIBILITY OPTION

For those applications requiring the greatest flexibility at a reduced load, PIC Design has this belt available with a .018" diameter stainless steel core. The part number is F32BS18-□□□. Where □□□ is the number of drive pins. Example: Part Number for 144 drive pins is F32BS18-144.

Bulk Lengths — Not Spliced

| Length | Aramid Core Part Number | Steel Core Part Number |
|--------|-------------------------|------------------------|
| 5 Ft | FA-5FT | FS-5FT |
| 10 Ft | FA-10FT | FS-10FT |
| 25 Ft | FA-25FT | FS-25FT |
| 50 Ft | FA-50FT | FS-50FT |

For field splicing use Kit F-SK. See page 5-5.

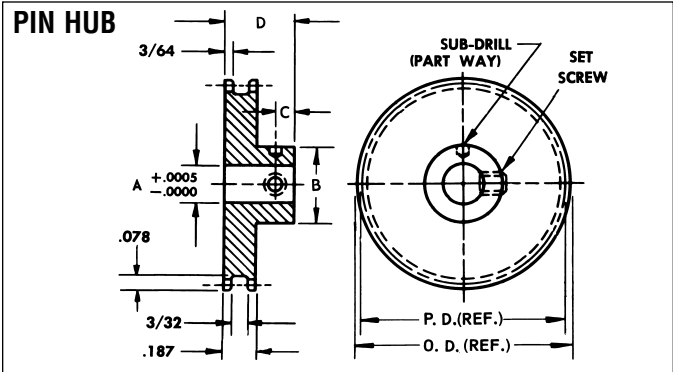
Bulk Lengths — Not Spliced

| Length | Steel Core Part Number |
|--------|------------------------|
| 5 Ft | F32BS18-5FT |
| 10 Ft | F32BS18-10FT |
| 25 Ft | F32BS18-25FT |
| 50 Ft | F32BS18-50FT |

For field splicing use Kit F-SK. See page 5-5.

NO-SLIP PULLEYS

32DP, .0982CP — For FA, FS & F32BS18 No-Slip Single Core Drive Belts



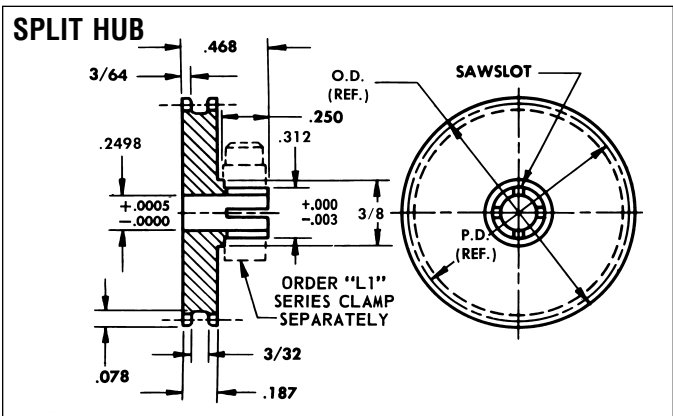
| Dimen. | Bore | | | | |
|-----------|-------|-------|-------|---------|---------|
| | 1/8 | 3/16 | 1/4 | 4 mm | 6 mm |
| A | .1248 | .1873 | .2498 | .1573 | .2360 |
| B | .312 | .375 | .500 | .375 | .500 |
| C | .09 | .11 | .12 | .11 | .12 |
| D | .375 | .406 | .437 | .406 | .437 |
| Set Screw | #2-56 | #4-40 | #6-32 | M2 x .4 | M3 x .5 |

Material: 303 Stainless Steel
2024-T4 Aluminum (Anodized before cutting)

| Geared Pulley Data | | | Stainless Steel Bore Size / Part Number | | | | | Aluminum Bore Size / Part Number | | | | |
|--------------------|--------|-------|---|---------|---------|----------|----------|----------------------------------|---------|---------|----------|----------|
| No. Teeth | P.D. | O.D. | .1248 | .1873 | .2498 | 4mm | 6mm | .1248 | .1873 | .2498 | 4mm | 6mm |
| 14 * | .4375 | .500 | FC1-14 | — | — | — | — | FC2-14 | — | — | — | — |
| 15 * | .4687 | .531 | FC1-15 | FC3-15 | — | MGP1-15 | — | FC2-15 | FC4-15 | — | MGP2-15 | — |
| 16 | .5000 | .563 | FC1-16 | FC3-16 | — | MGP1-16 | — | FC2-16 | FC4-16 | — | MGP2-16 | — |
| 18 | .5625 | .625 | FC1-18 | FC3-18 | — | MGP1-18 | — | FC2-18 | FC4-18 | — | MGP2-18 | — |
| 20 | .6250 | .688 | FC1-20 | FC3-20 | FC5-20 | MGP1-20 | MGP3-20 | FC2-20 | FC4-20 | FC6-20 | MGP2-20 | MGP4-20 |
| 22 | .6875 | .750 | FC1-22 | FC3-22 | FC5-22 | MGP1-22 | MGP3-22 | FC2-22 | FC4-22 | FC6-22 | MGP2-22 | MGP4-22 |
| 24 | .7500 | .813 | FC1-24 | FC3-24 | FC5-24 | MGP1-24 | MGP3-24 | FC2-24 | FC4-24 | FC6-24 | MGP2-24 | MGP4-24 |
| 26 | .8125 | .875 | FC1-26 | FC3-26 | FC5-26 | MGP1-26 | MGP3-26 | FC2-26 | FC4-26 | FC6-26 | MGP2-26 | MGP4-26 |
| 28 | .8750 | .938 | FC1-28 | FC3-28 | FC5-28 | MGP1-28 | MGP3-28 | FC2-28 | FC4-28 | FC6-28 | MGP2-28 | MGP4-28 |
| 30 | .9375 | 1.000 | FC1-30 | FC3-30 | FC5-30 | MGP1-30 | MGP3-30 | FC2-30 | FC4-30 | FC6-30 | MGP2-30 | MGP4-30 |
| 32 | 1.0000 | 1.063 | FC1-32 | FC3-32 | FC5-32 | MGP1-32 | MGP3-32 | FC2-32 | FC4-32 | FC6-32 | MGP2-32 | MGP4-32 |
| 36 | 1.1250 | 1.188 | FC1-36 | FC3-36 | FC5-36 | MGP1-36 | MGP3-36 | FC2-36 | FC4-36 | FC6-36 | MGP2-36 | MGP4-36 |
| 40 | 1.2500 | 1.313 | FC1-40 | FC3-40 | FC5-40 | MGP1-40 | MGP3-40 | FC2-40 | FC4-40 | FC6-40 | MGP2-40 | MGP4-40 |
| 48 | 1.5000 | 1.563 | FC1-48 | FC3-48 | FC5-48 | MGP1-48 | MGP3-48 | FC2-48 | FC4-48 | FC6-48 | MGP2-48 | MGP4-48 |
| 56 | 1.7500 | 1.813 | FC1-56 | FC3-56 | FC5-56 | MGP1-56 | MGP3-56 | FC2-56 | FC4-56 | FC6-56 | MGP2-56 | MGP4-56 |
| 64 | 2.0000 | 2.063 | FC1-64 | FC3-64 | FC5-64 | MGP1-64 | MGP3-64 | FC2-64 | FC4-64 | FC6-64 | MGP2-64 | MGP4-64 |
| 72 | 2.2500 | 2.313 | FC1-72 | FC3-72 | FC5-72 | MGP1-72 | MGP3-72 | FC2-72 | FC4-72 | FC6-72 | MGP2-72 | MGP4-72 |
| 80 | 2.5000 | 2.563 | — | FC3-80 | FC5-80 | MGP1-80 | MGP3-80 | — | FC4-80 | FC6-80 | MGP2-80 | MGP4-80 |
| 88 | 2.7500 | 2.813 | — | FC3-88 | FC5-88 | MGP1-88 | MGP3-88 | — | FC4-88 | FC6-88 | MGP2-88 | MGP4-88 |
| 96 | 3.0000 | 3.063 | — | FC3-96 | FC5-96 | MGP1-96 | MGP3-96 | — | FC4-96 | FC6-96 | MGP2-96 | MGP4-96 |
| 112 | 3.5000 | 3.563 | — | FC3-112 | FC5-112 | MGP1-112 | MGP3-112 | — | FC4-112 | FC6-112 | MGP2-112 | MGP4-112 |
| 128 | 4.0000 | 4.063 | — | FC3-128 | FC5-128 | MGP1-128 | MGP3-128 | — | FC4-128 | FC6-128 | MGP2-128 | MGP4-128 |

* Recommended for use as an idler only

See Note Below.



Note:

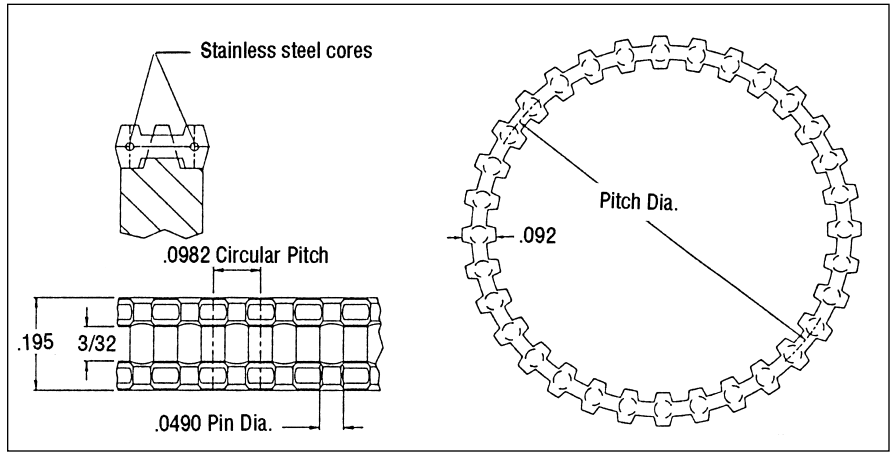
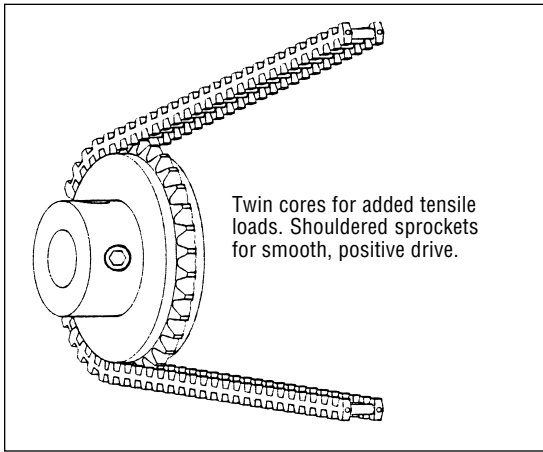
Other Size Bores Available, Consult Factory.
For unlisted number of teeth, specify the number of teeth desired as the last figure in the part number.
EXAMPLE: For a 52-tooth stainless steel pulley, specify Part Number: FD5-52.
For number of teeth above or below listed sizes, consult factory.

| Pully Data | | | Stainless Steel .2498 Bore Part No. | Aluminum .2498 Bore Part No. |
|------------|--------|-------|-------------------------------------|------------------------------|
| No. Teeth | P.D. | O.D. | | |
| 14 * | .4375 | .500 | FD5-14 | FD6-14 |
| 15 * | .4687 | .531 | FD5-15 | FD6-15 |
| 16 | .5000 | .563 | FD5-16 | FD6-16 |
| 18 | .5625 | .625 | FD5-18 | FD6-18 |
| 20 | .6250 | .688 | FD5-20 | FD6-20 |
| 22 | .6875 | .750 | FD5-22 | FD6-22 |
| 24 | .7500 | .813 | FD5-24 | FD6-24 |
| 26 | .8125 | .875 | FD5-26 | FD6-26 |
| 28 | .8750 | .938 | FD5-28 | FD6-28 |
| 30 | .9375 | 1.000 | FD5-30 | FD6-30 |
| 32 | 1.0000 | 1.063 | FD5-32 | FD6-32 |
| 36 | 1.1250 | 1.188 | FD5-36 | FD6-36 |
| 40 | 1.2500 | 1.313 | FD5-40 | FD6-40 |
| 48 | 1.5000 | 1.563 | FD5-48 | FD6-48 |
| 56 | 1.7500 | 1.813 | FD5-56 | FD6-56 |
| 64 | 2.0000 | 2.063 | FD5-64 | FD6-64 |
| 72 | 2.2500 | 2.313 | FD5-72 | FD6-72 |

* Recommended for use as an idler only

NO-SLIP POSITIVE DRIVE BELT

32DP, .0982 CP — Twin Core



Material: F32CS Series: Molded Polyurethane, .018" diameter Stainless Steel Cores.

Color: Blue

| Number of Drive Pins | Length (Ref.) | Part No. | Number of Drive Pins | Length (Ref.) | Part No. |
|----------------------|---------------|-----------|----------------------|---------------|-----------|
| 42 | 4.124 | F32CS-42 | 252 | 24.746 | F32CS-252 |
| 49 | 4.812 | F32CS-49 | 272 | 26.710 | F32CS-272 |
| 52 | 5.106 | F32CS-52 | 283 | 27.791 | F32CS-283 |
| 53 | 5.205 | F32CS-53 | 304 | 29.853 | F32CS-304 |
| 64 | 6.285 | F32CS-64 | 315 | 30.933 | F32CS-315 |
| 67 | 6.579 | F32CS-67 | 336 | 32.955 | F32CS-336 |
| 75 | 7.365 | F32CS-75 | 346 | 33.977 | F32CS-346 |
| 80 | 7.856 | F32CS-80 | 377 | 37.021 | F32CS-377 |
| 95 | 9.329 | F32CS-95 | 400 | 39.280 | F32CS-400 |
| 112 | 10.998 | F32CS-112 | 408 | 40.066 | F32CS-408 |
| 126 | 12.373 | F32CS-126 | 432 | 42.422 | F32CS-432 |
| 128 | 12.570 | F32CS-128 | 440 | 43.208 | F32CS-440 |
| 144 | 14.141 | F32CS-144 | 464 | 45.565 | F32CS-464 |
| 158 | 15.516 | F32CS-158 | 471 | 46.252 | F32CS-471 |
| 176 | 17.283 | F32CS-176 | 480 | 47.136 | F32CS-480 |
| 189 | 18.560 | F32CS-189 | 512 | 50.278 | F32CS-512 |
| 208 | 20.426 | F32CS-208 | 544 | 53.421 | F32CS-544 |
| 220 | 21.604 | F32CS-220 | 592 | 58.134 | F32CS-592 |
| 240 | 23.568 | F32CS-240 | 608 | 59.706 | F32CS-608 |

Bulk Lengths — Not Spliced

| Length | Part Number |
|--------|-------------|
| 5 Ft | F32CS-5FT |
| 10 Ft | F32CS-10FT |
| 25 Ft | F32CS-25FT |
| 50 Ft | F32CS-50FT |
| 100 Ft | F32CS-100FT |

For field splicing use Kit F32C-SK. See page 5-5.

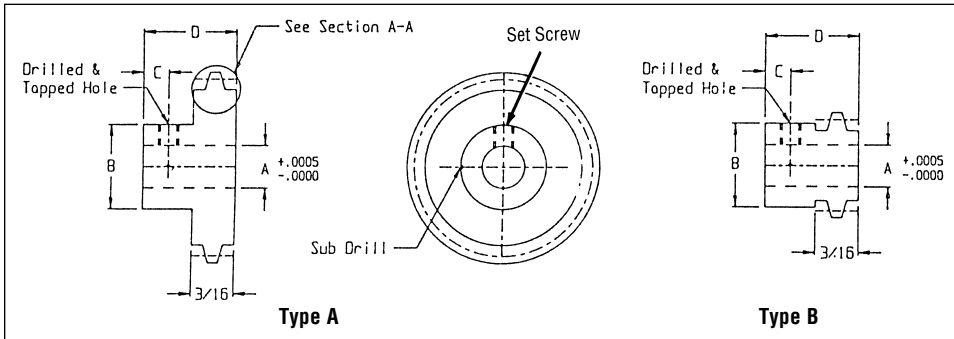
For other length belts longer than the minimum listed, substitute the desired number of drive pins at the end of the part number.

32DP (.0982 CP) TWIN CORE NO-SLIP BELTS — SERIES F32CS

Smoothest motion, highest accuracy. This belt runs on precision sprockets. Fine pitch results in greatest number of teeth engaged. Twin core offers added strength for higher loads.

NO-SLIP SPROCKETS

32DP, .0982CP — For F32 No-Slip Drive Belts



| Dimen. | Bore Size | | | | |
|-----------|-----------|-------|-------|-------|-------|
| | 1/8" | 3/16" | 1/4" | 4 mm | 6 mm |
| A | .1248 | .1873 | .2498 | .1573 | .2360 |
| B | .312 | .375 | .500 | .375 | .500 |
| C | .09 | .11 | .12 | .11 | .12 |
| D | .375 | .406 | .437 | .406 | .437 |
| Set Screw | #2-56 | #4-40 | #6-32 | M2X.4 | M3X.5 |

Material: 303 Stainless Steel
2024-T4 Aluminum
(Anodized Before Cutting)

Hub Style

| Type | No. of Teeth | Pitch Dia. | Outside Dia. | Stainless Steel Part No. | | | Aluminum Part No. | | |
|------|--------------|------------|--------------|--------------------------|-----------|------------|-------------------|-----------|------------|
| | | | | .1248 | .1873 | .2498 | .1248 | .1873 | .2498 |
| B | 12 * | .3750 | .437 | F32G1-12 | — | — | F32G2-12 | — | — |
| B | 13 * | .4062 | .468 | F32G1-13 | F32G3-13 | — | F32G2-13 | F32G4-13 | — |
| B | 14 * | .4375 | .500 | F32G1-14 | F32G3-14 | F32G5-14** | F32G2-14 | F32G4-14 | F32G6-14** |
| A | 15 * | .4687 | .531 | F32G1-15 | F32G3-15 | F32G5-15** | F32G2-15 | F32G4-15 | F32G6-15** |
| A | 16 * | .5000 | .562 | F32G1-16 | F32G3-16 | F32G5-16** | F32G2-16 | F32G4-16 | F32G6-16** |
| A | 18 | .5625 | .625 | F32G1-18 | F32G3-18 | F32G5-18** | F32G2-18 | F32G4-18 | F32G6-18** |
| A | 20 | .6250 | .687 | F32G1-20 | F32G3-20 | F32G5-20 | F32G2-20 | F32G4-20 | F32G6-20 |
| A | 22 | .6875 | .750 | F32G1-22 | F32G3-22 | F32G5-22 | F32G2-22 | F32G4-22 | F32G6-22 |
| A | 24 | .7500 | .812 | F32G1-24 | F32G3-24 | F32G5-24 | F32G2-24 | F32G4-24 | F32G6-24 |
| A | 26 | .8125 | .875 | F32G1-26 | F32G3-26 | F32G5-26 | F32G2-26 | F32G4-26 | F32G6-26 |
| A | 28 | .8750 | .937 | F32G1-28 | F32G3-28 | F32G5-28 | F32G2-28 | F32G4-28 | F32G6-28 |
| A | 30 | .9375 | 1.000 | F32G1-30 | F32G3-30 | F32G5-30 | F32G2-30 | F32G4-30 | F32G6-30 |
| A | 32 | 1.0000 | 1.062 | F32G1-32 | F32G3-32 | F32G5-32 | F32G2-32 | F32G4-32 | F32G6-32 |
| A | 36 | 1.1250 | 1.187 | F32G1-36 | F32G3-36 | F32G5-36 | F32G2-36 | F32G4-36 | F32G6-36 |
| A | 40 | 1.2500 | 1.312 | F32G1-40 | F32G3-40 | F32G5-40 | F32G2-40 | F32G4-40 | F32G6-40 |
| A | 48 | 1.5000 | 1.562 | F32G1-48 | F32G3-48 | F32G5-48 | F32G2-48 | F32G4-48 | F32G6-48 |
| A | 56 | 1.7500 | 1.812 | F32G1-56 | F32G3-56 | F32G5-56 | F32G2-56 | F32G4-56 | F32G6-56 |
| A | 64 | 2.0000 | 2.062 | F32G1-64 | F32G3-64 | F32G5-64 | F32G2-64 | F32G4-64 | F32G6-64 |
| A | 72 | 2.2500 | 2.312 | F32G1-72 | F32G3-72 | F32G5-72 | F32G2-72 | F32G4-72 | F32G6-72 |
| A | 80 | 2.5000 | 2.562 | F32G1-80 | F32G3-80 | F32G5-80 | F32G2-80 | F32G4-80 | F32G6-80 |
| A | 88 | 2.7500 | 2.812 | F32G1-88 | F32G3-88 | F32G5-88 | F32G2-88 | F32G4-88 | F32G6-88 |
| A | 96 | 3.0000 | 3.062 | F32G1-96 | F32G3-96 | F32G5-96 | F32G2-96 | F32G4-96 | F32G6-96 |
| A | 112 | 3.5000 | 3.562 | F32G1-112 | F32G3-112 | F32G5-112 | F32G2-112 | F32G4-112 | F32G6-112 |
| A | 128 | 4.0000 | 4.062 | F32G1-128 | F32G3-128 | F32G5-128 | F32G2-128 | F32G4-128 | F32G6-128 |

* Recommended for use as an idler only

** Type "B" Sprocket Style

See Note Below.

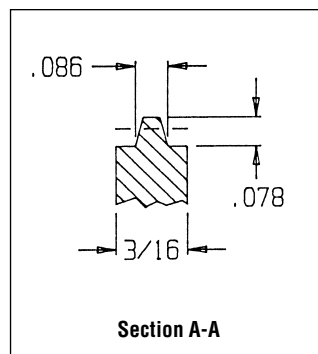
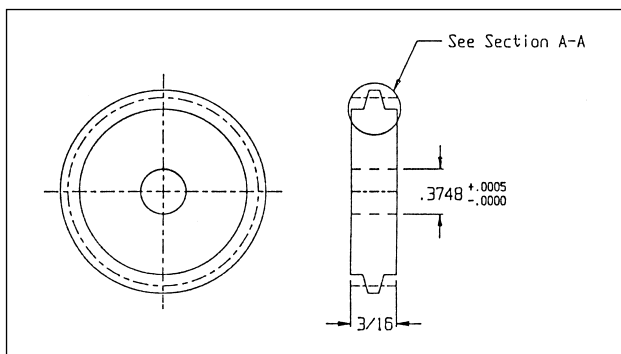
For Metric Bores:

| Bore | Stainless Steel | Aluminum |
|------|-----------------|-----------|
| 4 mm | MF32G1-XX | MF32G2-XX |
| 6 mm | MF32G3-XX | MF32G4-XX |

XX = Number of grooves

Hubless Style

| No of Teeth | Pitch Dia. | Outside Dia. | Stainless Steel Part No. | Aluminum Part No. |
|-------------|------------|--------------|--------------------------|-------------------|
| 32 | 1.0000 | 1.062 | F32J1-32 | F32J2-32 |
| 36 | 1.1250 | 1.187 | F32J1-36 | F32J2-36 |
| 40 | 1.2500 | 1.312 | F32J1-40 | F32J2-40 |
| 48 | 1.5000 | 1.562 | F32J1-48 | F32J2-48 |
| 50 | 1.5625 | 1.625 | F32J1-50 | F32J2-50 |
| 56 | 1.7500 | 1.812 | F32J1-56 | F32J2-56 |
| 64 | 2.0000 | 2.062 | F32J1-64 | F32J2-64 |
| 72 | 2.2500 | 2.312 | F32J1-72 | F32J2-72 |
| 80 | 2.5000 | 2.562 | F32J1-80 | F32J2-80 |
| 88 | 2.7500 | 2.812 | F32J1-88 | F32J2-88 |
| 90 | 2.8125 | 2.875 | F32J1-90 | F32J2-90 |
| 96 | 3.0000 | 3.062 | F32J1-96 | F32J2-96 |
| 100 | 3.1250 | 3.187 | F32J1-100 | F32J2-100 |
| 112 | 3.5000 | 3.562 | F32J1-112 | F32J2-112 |
| 120 | 3.7500 | 3.812 | F32J1-120 | F32J2-120 |
| 128 | 4.0000 | 4.062 | F32J1-128 | F32J2-128 |



Note:

Other Size Bores Available, Consult Factory.

For unlisted number of teeth, specify the number of teeth desired as the last figure in the part number.

EXAMPLE: For a 52-tooth stainless steel sprocket, specify Part Number: F32G5-52.

For number of teeth above or below listed sizes, consult factory.

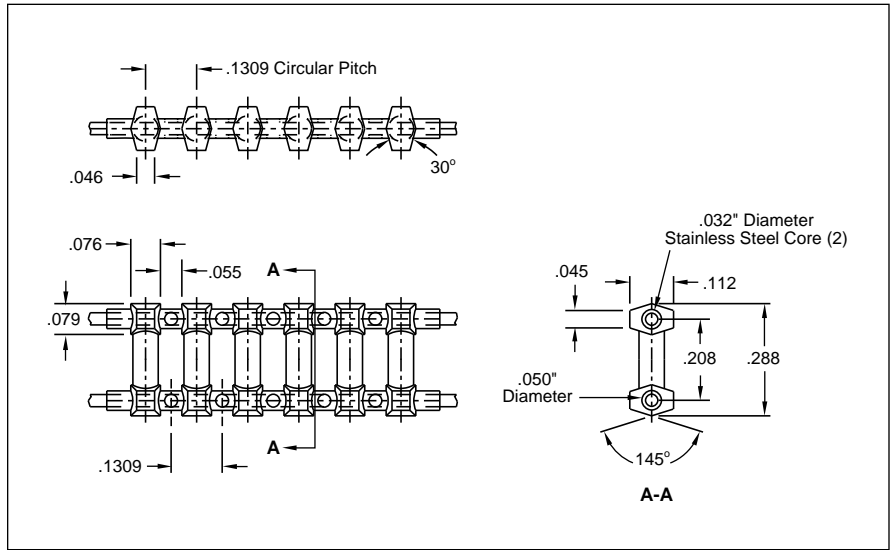
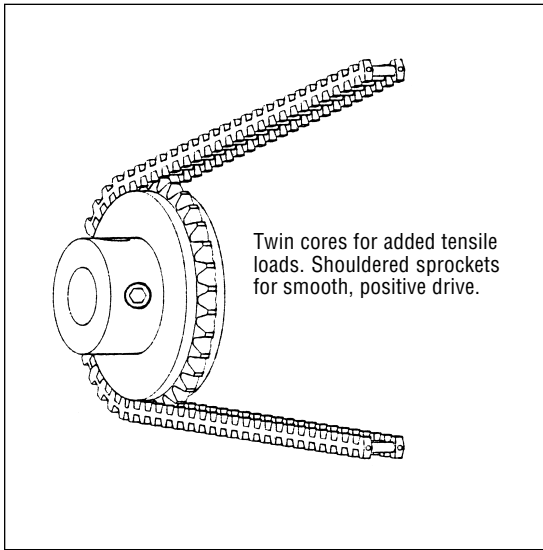
Phone: 800-243-6125 ■ FAX: 203-758-8271

E-Mail: info@pic-design.com

PIC DESIGN®

NO-SLIP POSITIVE DRIVE BELT

24 DP .1309 CP Twin Core



Material: F24CS-Series: Molded Polyurethane, .032" diameter Stainless Steel Cores. Color Red, Red Core
 F24CA-Series: Molded Polyurethane, .032" diameter Aramid Fiber (Kevlar) Cores. Color Red, Yellow Core

| Number Of Drive Pins | Length (Ref.) | Part Number* | Number Of Drive Pins | Length (Ref.) | Part Number* |
|----------------------|---------------|--------------|----------------------|---------------|--------------|
| 50 | 6.545 | F24CS-50 | 120 | 15.708 | F24CS-120 |
| 52 | 6.807 | F24CS-52 | 130 | 17.017 | F24CS-130 |
| 54 | 7.069 | F24CS-54 | 140 | 18.326 | F24CS-140 |
| 56 | 7.330 | F24CS-56 | 150 | 19.635 | F24CS-150 |
| 58 | 7.592 | F24CS-58 | 160 | 20.944 | F24CS-160 |
| 60 | 7.854 | F24CS-60 | 170 | 22.253 | F24CS-170 |
| 62 | 8.116 | F24CS-62 | 180 | 23.562 | F24CS-180 |
| 64 | 8.378 | F24CS-64 | 190 | 24.871 | F24CS-190 |
| 66 | 8.639 | F24CS-66 | 200 | 26.180 | F24CS-200 |
| 68 | 8.901 | F24CS-68 | 220 | 28.798 | F24CS-220 |
| 70 | 9.163 | F24CS-70 | 240 | 31.416 | F24CS-240 |
| 75 | 9.818 | F24CS-75 | 260 | 34.034 | F24CS-260 |
| 80 | 10.472 | F24CS-80 | 280 | 36.652 | F24CS-280 |
| 85 | 11.127 | F24CS-85 | 300 | 39.270 | F24CS-300 |
| 90 | 11.781 | F24CS-90 | 320 | 41.888 | F24CS-320 |
| 95 | 12.436 | F24CS-95 | 340 | 44.506 | F24CS-340 |
| 100 | 13.090 | F24CS-100 | 360 | 47.124 | F24CS-360 |
| 105 | 13.745 | F24CS-105 | 380 | 49.742 | F24CS-380 |
| 110 | 14.399 | F24CS-110 | 400 | 52.360 | F24CS-400 |
| 115 | 15.054 | F24CS-115 | 420 | 54.978 | F24CS-420 |

* For Aramid Cores, substitute A for S in the part number
 For other length belts longer than the minimum listed, substitute the desired number of drive pins at the end of the part number.

Bulk Footage — Not Spliced

| Length | Part Number* |
|--------|--------------|
| 5 Ft | F24CS-5FT |
| 10 Ft | F24CS-10FT |
| 25 Ft | F24CS-25FT |
| 50 Ft | F24CS-50FT |
| 100 Ft | F24CS-100FT |

Special length belts and other bulk lengths available. Consult factory.

For field splicing use Kit F24C-SK. See page 5-5.

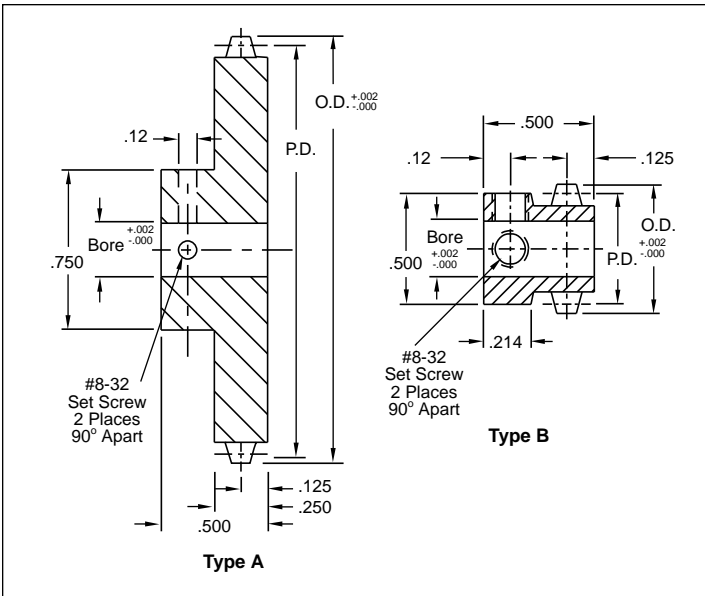
* For Aramid Cores, substitute A for S in the part number

24 DP (.1309CP) Twin Core No-Slip Belts — Series F24CS

Smooth motion, excellent accuracy. Use F24G and MF24G sprockets. Operates with 24-pitch spur gears.

NO-SLIP SPROCKETS

24 DP, .1309 CP-1/4, 3/8, 1/2 — 8 mm, 10 mm & 12 mm Bores for No-Slip, Twin Core Drive Belts

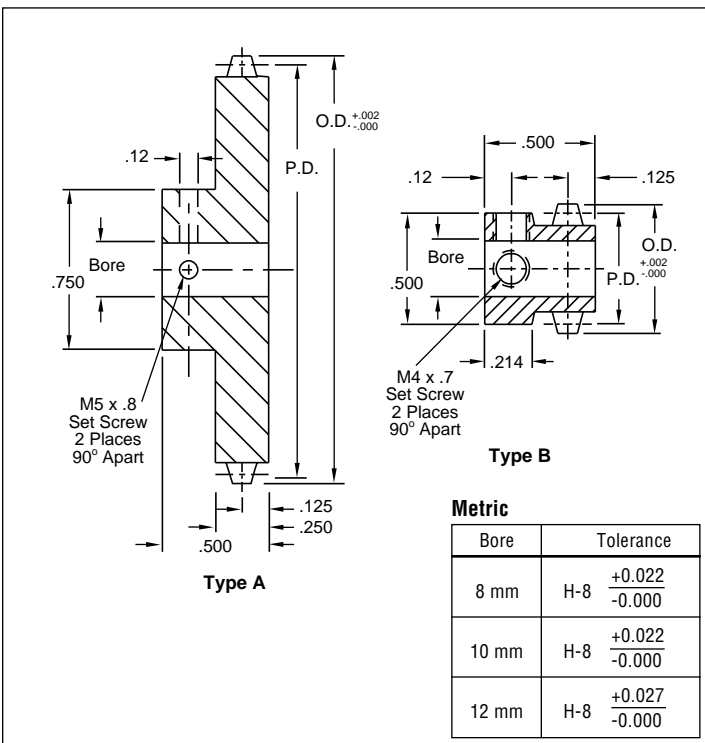


| Number Of Teeth | Type | P.D. (Inches) | O.D. (Inches) | Bore Size / Part Number | | |
|-----------------|------|---------------|---------------|-------------------------|-----------|-----------|
| | | | | .250 | .375 | .500 |
| 12 * | B | .4994 | .582 | F24G4-12 | — | — |
| 14 * | B | .5827 | .665 | F24G4-14 | — | — |
| 15 * | B | .6243 | .707 | F24G4-15 | F24G6-15 | — |
| 16 * | A | .6659 | .749 | F24G4-16 | F24G6-16 | F24G8-16 |
| 18 * | A | .7492 | .832 | F24G4-18 | F24G6-18 | F24G8-18 |
| 20 | A | .8324 | .915 | F24G4-20 | F24G6-20 | F24G8-20 |
| 21 | A | .8740 | .957 | F24G4-21 | F24G6-21 | F24G8-21 |
| 24 | A | .9989 | 1.082 | F24G4-24 | F24G6-24 | F24G8-24 |
| 30 | A | 1.2486 | 1.331 | F24G4-30 | F24G6-30 | F24G8-30 |
| 36 | A | 1.4983 | 1.581 | F24G4-36 | F24G6-36 | F24G8-36 |
| 42 | A | 1.7480 | 1.831 | F24G4-42 | F24G6-42 | F24G8-42 |
| 48 | A | 1.9978 | 2.081 | F24G4-48 | F24G6-48 | F24G8-48 |
| 60 | A | 2.4972 | 2.580 | F24G4-60 | F24G6-60 | F24G8-60 |
| 72 | A | 2.9966 | 3.079 | F24G4-72 | F24G6-72 | F24G8-72 |
| 96 | A | 3.9955 | 4.078 | F24G4-96 | F24G6-96 | F24G8-96 |
| 120 | A | 4.9944 | 5.077 | F24G4-120 | F24G6-120 | F24G8-120 |
| 144 | A | 5.9933 | 6.076 | F24G4-144 | F24G6-144 | F24G8-144 |

* Recommended for use as an idler only

See Note Below.

Material: 2024-T4 Aluminum (anodized before cutting)



| Number Of Teeth | Type | P.D. (Inches) | O.D. (Inches) | Bore Size / Part Number (Metric) | | |
|-----------------|------|---------------|---------------|----------------------------------|-------------|-------------|
| | | | | 8 mm | 10 mm | 12 mm |
| 12 * | B | .4994 | .582 | MF24G8-12 | — | — |
| 14 * | B | .5827 | .665 | MF24G8-14 | — | — |
| 15 * | B | .6243 | .707 | MF24G8-15 | MF24G10-15 | — |
| 16 * | A | .6659 | .749 | MF24G8-16 | MF24G10-16 | MF24G12-16 |
| 18 * | A | .7492 | .832 | MF24G8-18 | MF24G10-18 | MF24G12-18 |
| 20 | A | .8324 | .915 | MF24G8-20 | MF24G10-20 | MF24G12-20 |
| 21 | A | .8740 | .957 | MF24G8-21 | MF24G10-21 | MF24G12-21 |
| 24 | A | .9989 | 1.082 | MF24G8-24 | MF24G10-24 | MF24G12-24 |
| 30 | A | 1.2486 | 1.331 | MF24G8-30 | MF24G10-30 | MF24G12-30 |
| 36 | A | 1.4983 | 1.581 | MF24G8-36 | MF24G10-36 | MF24G12-36 |
| 42 | A | 1.7480 | 1.831 | MF24G8-42 | MF24G10-42 | MF24G12-42 |
| 48 | A | 1.9978 | 2.081 | MF24G8-48 | MF24G10-48 | MF24G12-48 |
| 60 | A | 2.4972 | 2.580 | MF24G8-60 | MF24G10-60 | MF24G12-60 |
| 72 | A | 2.9966 | 3.079 | MF24G8-72 | MF24G10-72 | MF24G12-72 |
| 96 | A | 3.9955 | 4.078 | MF24G8-96 | MF24G10-96 | MF24G12-96 |
| 120 | A | 4.9944 | 5.077 | MF24G8-120 | MF24G10-120 | MF24G12-120 |
| 144 | A | 5.9933 | 6.076 | MF24G8-144 | MF24G10-144 | MF24G12-144 |

* Recommended for use as an idler only

Material: 2024-T4 Aluminum (anodized before cutting)

Note:

Other Size Bores Available, Consult Factory.

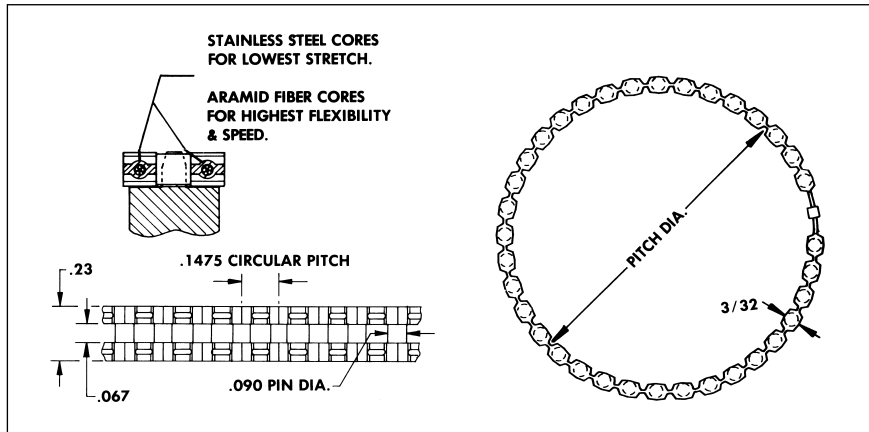
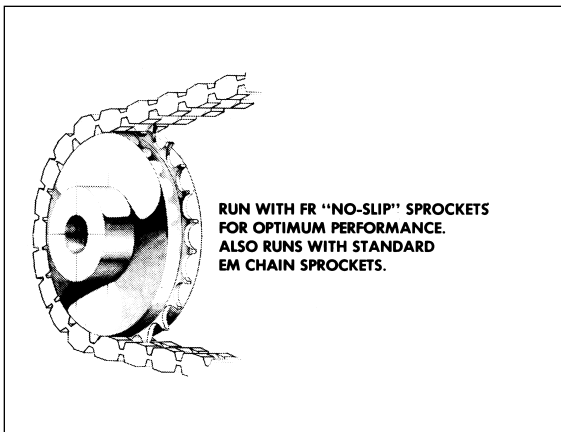
For unlisted number of teeth, specify the number of teeth desired as the last digits in the part number.

EXAMPLE: For a 52-tooth 1/4" bore sprocket, specify Part Number: F24G4-52

For number of teeth above or below listed sizes, consult factory.

NO-SLIP POSITIVE DRIVE BELT

.1475CP, Twin Core Economical High Performance Miniature Steel Chain Replacement



Material:

FRA - Series: Molded Polyurethane, .032" diameter Aramid Fiber Cores. Color: Clear, Green Cores.

FRS - Series: Molded Polyurethane, .032" diameter Stainless Steel Cores. Color: Clear, Red Cores.

| Number of Drive Pins | Length (Ref.) | Part No. Aramid Core | Part No. Steel Core |
|----------------------|---------------|----------------------|---------------------|
| 40 | 5.900 | FRA-040 | FRS-040 |
| 50 | 7.375 | FRA-050 | FRS-050 |
| 60 | 8.850 | FRA-060 | FRS-060 |
| 70 | 10.325 | FRA-070 | FRS-070 |
| 80 | 11.800 | FRA-080 | FRS-080 |
| 90 | 13.275 | FRA-090 | FRS-090 |
| 100 | 14.750 | FRA-100 | FRS-100 |
| 110 | 16.225 | FRA-110 | FRS-110 |
| 120 | 17.700 | FRA-120 | FRS-120 |
| 130 | 19.175 | FRA-130 | FRS-130 |
| 140 | 20.650 | FRA-140 | FRS-140 |
| 150 | 22.125 | FRA-150 | FRS-150 |
| 160 | 23.600 | FRA-160 | FRS-160 |
| 170 | 25.075 | FRA-170 | FRS-170 |
| 180 | 26.550 | FRA-180 | FRS-180 |
| 190 | 28.025 | FRA-190 | FRS-190 |
| 200 | 29.500 | FRA-200 | FRS-200 |
| 210 | 30.975 | FRA-210 | FRS-210 |

| Number of Drive Pins | Length (Ref.) | Part No. Aramid Core | Part No. Steel Core |
|----------------------|---------------|----------------------|---------------------|
| 220 | 32.450 | FRA-220 | FRS-220 |
| 230 | 33.925 | FRA-230 | FRS-230 |
| 240 | 35.400 | FRA-240 | FRS-240 |
| 250 | 36.825 | FRA-250 | FRS-250 |
| 260 | 38.350 | FRA-260 | FRS-260 |
| 270 | 39.825 | FRA-270 | FRS-270 |
| 280 | 41.300 | FRA-280 | FRS-280 |
| 290 | 42.775 | FRA-290 | FRS-290 |
| 300 | 44.250 | FRA-300 | FRS-300 |
| 310 | 45.725 | FRA-310 | FRS-310 |
| 320 | 47.200 | FRA-320 | FRS-320 |
| 330 | 48.675 | FRA-330 | FRS-330 |
| 340 | 50.150 | FRA-340 | FRS-340 |
| 350 | 51.625 | FRA-350 | FRS-350 |
| 360 | 53.100 | FRA-360 | FRS-360 |
| 370 | 54.575 | FRA-370 | FRS-370 |
| 380 | 56.050 | FRA-380 | FRS-380 |
| 390 | 57.525 | FRA-390 | FRS-390 |

Bulk Lengths — Not Spliced

| Length | Aramid Core Part Number | Steel Core Part Number |
|--------|-------------------------|------------------------|
| 5 Ft | FRA-5FT | FRS-5FT |
| 10 Ft | FRA-10FT | FRS-10FT |
| 25 Ft | FRA-25FT | FRS-25FT |
| 50 Ft | FRA-50FT | FRS-50FT |
| 100 Ft | FRA-100FT | FRS-100FT |

For field splicing use Kit FR-SK.
See page 5-5.

For other length belts longer than the minimum listed, substitute the desired number of drive pins at the end of the part number.

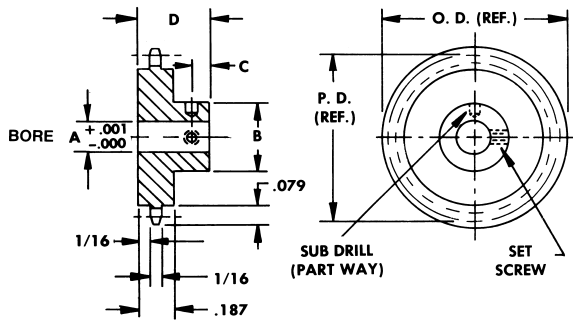
.1475 CP TWIN CORE NO-SLIP BELTS. SERIES FRA & FRS

The workhorse of the No-Slip line. Designed to provide an economical alternative to miniature pitch stainless steel chain. Smoother motion than possible with chain. FRA & FRS belts operate without the chordal rise and fall (camming effect) of chain. Will not continually grow in length as chain does. Drive pins are 30% larger in diameter than the FM series for additional strength. Recommended as a cost saving alternative to chain and for the highest load belt applications requiring No-Slip accuracy. Will replace miniature pitch steel chain in many existing applications.

NO-SLIP SPROCKETS

.1475CP, 1/8, 3/16, 1/4, Bores For FRA & FRS No-Slip, Twin Core Drive Belts

PIN HUB



Material: 303 Stainless Steel
2024-T4 Aluminum
(Anodized Before Cutting)

| Dimen. | Bore Size | | | | |
|-----------|-----------|-------|-------|-------|-------|
| | 1/8" | 3/16" | 1/4" | 4 mm | 6 mm |
| A | .1248 | .1873 | .2498 | .1573 | .2360 |
| B | .312 | .375 | .500 | .375 | .500 |
| C | .09 | .11 | .12 | .11 | .12 |
| D | .375 | .406 | .437 | .406 | .437 |
| Set Screw | #2-56 | #4-40 | #6-32 | M2X.4 | M3X.5 |

For Metric Bores:

| Bore | Stainless Steel | Aluminum |
|------|-----------------|----------|
| 4 mm | MFRG1-XX | MFRG2-XX |
| 6 mm | MFRG3-XX | MFRG4-XX |

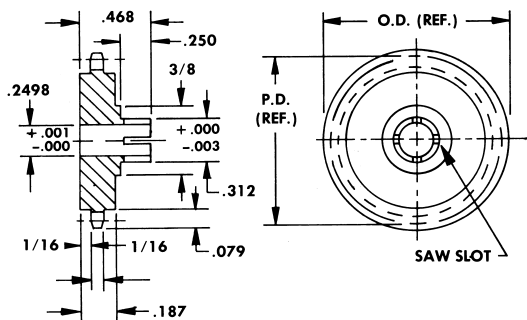
XX = Number of grooves

| Sprocket Data | | | Stainless Steel Bore Size Part Number | | | Aluminum Bore Size Part Number | | |
|---------------|-------|-------|---------------------------------------|----------|----------|--------------------------------|----------|----------|
| No. Teeth | P.D. | O.D. | .1248 | .1873 | .2498 | .1248 | .1873 | .2498 |
| 10* | .477 | .529 | FRG1-010 | FRG3-010 | — | FRG2-010 | FRG4-010 | — |
| 11* | .524 | .579 | FRG1-011 | FRG3-011 | — | FRG2-011 | FRG4-011 | — |
| 12* | .570 | .622 | FRG1-012 | FRG3-012 | — | FRG2-012 | FRG4-012 | — |
| 13* | .616 | .668 | FRG1-013 | FRG3-013 | FRG5-013 | FRG2-013 | FRG4-013 | FRG6-013 |
| 14* | .663 | .715 | FRG1-014 | FRG3-014 | FRG5-014 | FRG2-014 | FRG4-014 | FRG6-014 |
| 15* | .709 | .761 | FRG1-015 | FRG3-015 | FRG5-015 | FRG2-015 | FRG4-015 | FRG6-015 |
| 16 | .756 | .808 | FRG1-016 | FRG3-016 | FRG5-016 | FRG2-016 | FRG4-016 | FRG6-016 |
| 17 | .803 | .855 | FRG1-017 | FRG3-017 | FRG5-017 | FRG2-017 | FRG4-017 | FRG6-017 |
| 18 | .849 | .901 | FRG1-018 | FRG3-018 | FRG5-018 | FRG2-018 | FRG4-018 | FRG6-018 |
| 19 | .896 | .948 | FRG1-019 | FRG3-019 | FRG5-019 | FRG2-019 | FRG4-019 | FRG6-019 |
| 20 | .943 | .995 | FRG1-020 | FRG3-020 | FRG5-020 | FRG2-020 | FRG4-020 | FRG6-020 |
| 22 | 1.036 | 1.088 | FRG1-022 | FRG3-022 | FRG5-022 | FRG2-022 | FRG4-022 | FRG6-022 |
| 24 | 1.130 | 1.182 | FRG1-024 | FRG3-024 | FRG5-024 | FRG2-024 | FRG4-024 | FRG6-024 |
| 25 | 1.177 | 1.228 | FRG1-025 | FRG3-025 | FRG5-025 | FRG2-025 | FRG4-025 | FRG6-025 |
| 26 | 1.224 | 1.276 | FRG1-026 | FRG3-026 | FRG5-026 | FRG2-026 | FRG4-026 | FRG6-026 |
| 28 | 1.317 | 1.369 | FRG1-028 | FRG3-028 | FRG5-028 | FRG2-028 | FRG4-028 | FRG6-028 |
| 30 | 1.411 | 1.463 | FRG1-030 | FRG3-030 | FRG5-030 | FRG2-030 | FRG4-030 | FRG6-030 |
| 32 | 1.505 | 1.557 | FRG1-032 | FRG3-032 | FRG5-032 | FRG2-032 | FRG4-032 | FRG6-032 |
| 35 | 1.645 | 1.697 | FRG1-035 | FRG3-035 | FRG5-035 | FRG2-035 | FRG4-035 | FRG6-035 |
| 36 | 1.692 | 1.744 | FRG1-036 | FRG3-036 | FRG5-036 | FRG2-036 | FRG4-036 | FRG6-036 |
| 40 | 1.880 | 1.932 | FRG1-040 | FRG3-040 | FRG5-040 | FRG2-040 | FRG4-040 | FRG6-040 |
| 45 | 2.114 | 2.166 | FRG1-045 | FRG3-045 | FRG5-045 | FRG2-045 | FRG4-045 | FRG6-045 |
| 48 | 2.255 | 2.307 | FRG1-048 | FRG3-048 | FRG5-048 | FRG2-048 | FRG4-048 | FRG6-048 |
| 50 | 2.349 | 2.401 | — | FRG3-050 | FRG5-050 | — | FRG4-050 | FRG6-050 |
| 55 | 2.584 | 2.636 | — | FRG3-055 | FRG5-055 | — | FRG4-055 | FRG6-055 |
| 60 | 2.818 | 2.870 | — | FRG3-060 | FRG5-060 | — | FRG4-060 | FRG6-060 |
| 65 | 3.053 | 3.105 | — | FRG3-065 | FRG5-065 | — | FRG4-065 | FRG6-065 |
| 85 | 3.992 | 4.044 | — | FRG3-085 | FRG5-085 | — | FRG4-085 | FRG6-085 |

* Recommended for use as an idler only

See Note Below.

SPLIT HUB



Note:

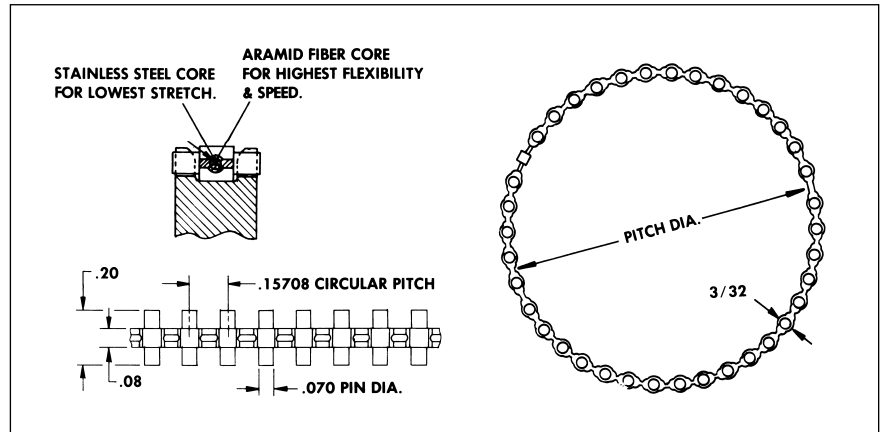
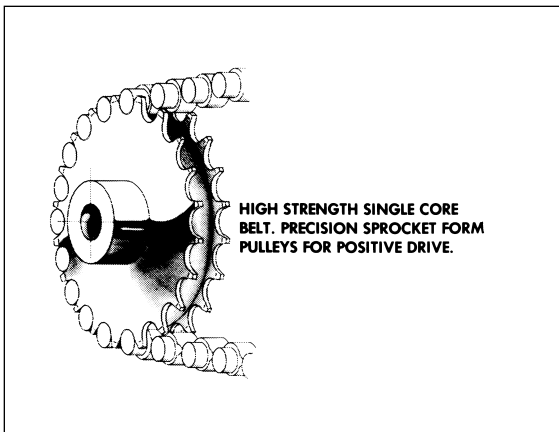
Other Size Bores Available, Consult Factory.
For unlisted number of teeth, specify the number of teeth desired as the last digits in the part number.
EXAMPLE: For a 52-tooth stainless steel sprocket, specify Part Number: FRH5-052
For number of teeth above or below listed sizes, consult factory.

| Sprocket Data | | | Stainless Steel Part Number | Aluminum Part Number |
|---------------|-------|-------|-----------------------------|----------------------|
| No. Teeth | P.D. | O.D. | .2498 Bore Size | .2498 Bore Size |
| 13* | .616 | .668 | FRH5-013 | FRH6-013 |
| 14* | .663 | .715 | FRH5-014 | FRH6-014 |
| 15* | .709 | .761 | FRH5-015 | FRH6-015 |
| 16 | .756 | .808 | FRH5-016 | FRH6-016 |
| 17 | .803 | .855 | FRH5-017 | FRH6-017 |
| 18 | .849 | .901 | FRH5-018 | FRH6-018 |
| 19 | .896 | .948 | FRH5-019 | FRH6-019 |
| 20 | .943 | .995 | FRH5-020 | FRH6-020 |
| 22 | 1.036 | 1.088 | FRH5-022 | FRH6-022 |
| 24 | 1.130 | 1.182 | FRH5-024 | FRH6-024 |
| 25 | 1.177 | 1.228 | FRH5-025 | FRH6-025 |
| 26 | 1.224 | 1.276 | FRH5-026 | FRH6-026 |
| 28 | 1.317 | 1.369 | FRH5-028 | FRH6-028 |
| 30 | 1.411 | 1.463 | FRH5-030 | FRH6-030 |
| 32 | 1.505 | 1.557 | FRH5-032 | FRH6-032 |
| 35 | 1.645 | 1.697 | FRH5-035 | FRH6-035 |
| 36 | 1.692 | 1.744 | FRH5-036 | FRH6-036 |
| 40 | 1.880 | 1.932 | FRH5-040 | FRH6-040 |
| 45 | 2.114 | 2.166 | FRH5-045 | FRH6-045 |
| 48 | 2.255 | 2.307 | FRH5-048 | FRH6-048 |

* Recommended for use as an idler only

NO-SLIP POSITIVE DRIVE BELT

20DP, .15708CP Single Core and Triple Core



Material:

FLA-Series: Molded Polyurethane, .032" diameter Aramid Fiber Kevlar Core.

Color: Clear, Orange Core.

FLS-Series: Molded Polyurethane, .032" diameter Stainless Steel Core.

Color: Clear, Blue Core.

| Number of Drive Pins | Length (Ref.) | Part No. Aramid Core | Part No. Steel Core |
|----------------------|---------------|----------------------|---------------------|
| 30 | 4.712 | FLA-030 | FLS-030 |
| 35 | 5.498 | FLA-035 | FLS-035 |
| 40 | 6.283 | FLA-040 | FLS-040 |
| 45 | 7.068 | FLA-045 | FLS-045 |
| 50 | 7.854 | FLA-050 | FLS-050 |
| 55 | 8.639 | FLA-055 | FLS-055 |
| 60 | 9.424 | FLA-060 | FLS-060 |
| 70 | 10.995 | FLA-070 | FLS-070 |
| 80 | 12.566 | FLA-080 | FLS-080 |
| 90 | 14.137 | FLA-090 | FLS-090 |
| 100 | 15.708 | FLA-100 | FLS-100 |
| 110 | 17.278 | FLA-110 | FLS-110 |
| 120 | 18.849 | FLA-120 | FLS-120 |
| 130 | 20.420 | FLA-130 | FLS-130 |
| 140 | 21.991 | FLA-140 | FLS-140 |
| 150 | 23.562 | FLA-150 | FLS-150 |
| 160 | 25.132 | FLA-160 | FLS-160 |
| 170 | 26.703 | FLA-170 | FLS-170 |
| 180 | 28.274 | FLA-180 | FLS-180 |
| 190 | 29.845 | FLA-190 | FLS-190 |
| 200 | 31.416 | FLA-200 | FLS-200 |

| Number of Drive Pins | Length (Ref.) | Part No. Aramid Core | Part No. Steel Core |
|----------------------|---------------|----------------------|---------------------|
| 210 | 32.986 | FLA-210 | FLS-210 |
| 220 | 34.557 | FLA-220 | FLS-220 |
| 230 | 36.128 | FLA-230 | FLS-230 |
| 240 | 37.699 | FLA-240 | FLS-240 |
| 250 | 39.270 | FLA-250 | FLS-250 |
| 260 | 40.840 | FLA-260 | FLS-260 |
| 270 | 42.411 | FLA-270 | FLS-270 |
| 280 | 43.982 | FLA-280 | FLS-280 |
| 290 | 45.553 | FLA-290 | FLS-290 |
| 300 | 47.124 | FLA-300 | FLS-300 |
| 310 | 48.694 | FLA-310 | FLS-310 |
| 320 | 50.265 | FLA-320 | FLS-320 |
| 330 | 51.836 | FLA-330 | FLS-330 |
| 340 | 53.407 | FLA-340 | FLS-340 |
| 350 | 54.978 | FLA-350 | FLS-350 |
| 360 | 56.548 | FLA-360 | FLS-360 |
| 370 | 58.119 | FLA-370 | FLS-370 |
| 380 | 59.690 | FLA-380 | FLS-380 |
| 400 | 62.832 | FLA-400 | FLS-400 |
| 420 | 65.973 | FLA-420 | FLS-420 |
| 440 | 69.115 | FLA-440 | FLS-440 |

For other length belts longer than the minimum listed, substitute the desired number of drive pins at the end of the part number.

Bulk Lengths — Not Spliced

| Length | Single Core | | Triple Core |
|--------|-------------------------|------------------------|------------------------|
| | Aramid Core Part Number | Steel Core Part Number | Steel Core Part Number |
| 5 Ft | FLA-5FT | FLS-5FT | F20TS-5FT |
| 10 Ft | FLA-10FT | FLS-10FT | F20TS-10FT |
| 25 Ft | FLA-25FT | FLS-25FT | F20TS-25FT |
| 50 Ft | FLA-50FT | FLS-50FT | F20TS-50FT |
| 100 Ft | FLA-100FT | FLS-100FT | F20TS-100FT |

For field splicing use Kit FL-SK. See page 5-5.

20DP (.15708 CP) SINGLE CORE NO-SLIP BELTS, SERIES FLA & FLS

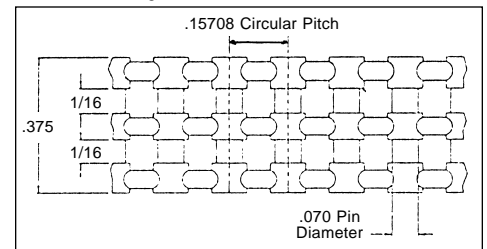
High strength, hi-flex version of the 32DP NO-SLIP belt. Drive pins have 50% larger diameter than the 32DP series. The belt body is relieved between the pins providing ultimate flexibility over small pulleys. The continuous body web is designed to flex laterally to permit shaft misalignment and turning of corners. Run on precision sprocket form pulleys for positive power. Recommended for higher load, speed, and flex applications requiring a single core belt.

Triple Core Belts

Material:

F20TS-Series: Molded Polyurethane, Stainless Steel Core.

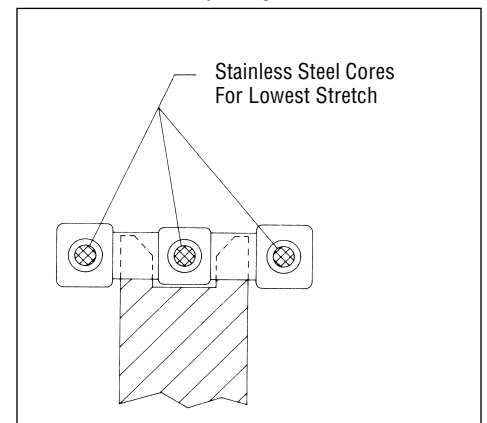
Color: Light Brown, Red Core



For Triple Core Belts use:

F20TS-XX for Steel Core

Standard triple core belts have been established utilizing the same number of drive pins as shown on the adjoining tabulation.

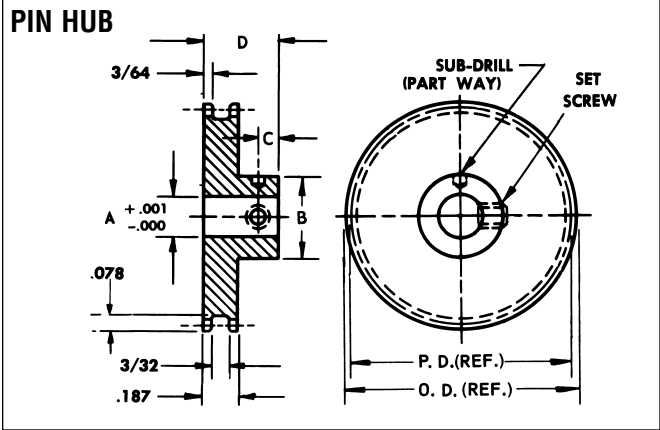


Note: Triple core belt used the same pulleys as the single core belts FLG and FLH Series.

For field splicing triple core, use Kit F20T-SK. See page 5-5.

NO-SLIP PULLEYS

20DP, .15708CP — 1/8, 3/16, 1/4, Bores For FLA, FLS and F20TS No-Slip, Single and Triple Core Drive Belts



Material: 303 Stainless Steel
2024-T4 Aluminum
(Anodized Before Cutting)

| Dimen. | Bore Size | | | | |
|-----------|-----------|-------|-------|-------|-------|
| | 1/8" | 3/16" | 1/4" | 4 mm | 6 mm |
| A | .1248 | .1873 | .2498 | .1573 | .2360 |
| B | .312 | .375 | .500 | .375 | .500 |
| C | .09 | .11 | .12 | .11 | .12 |
| D | .375 | .406 | .437 | .406 | .437 |
| Set Screw | #2-56 | #4-40 | #6-32 | M2X.4 | M3X.5 |

For Metric Bores:

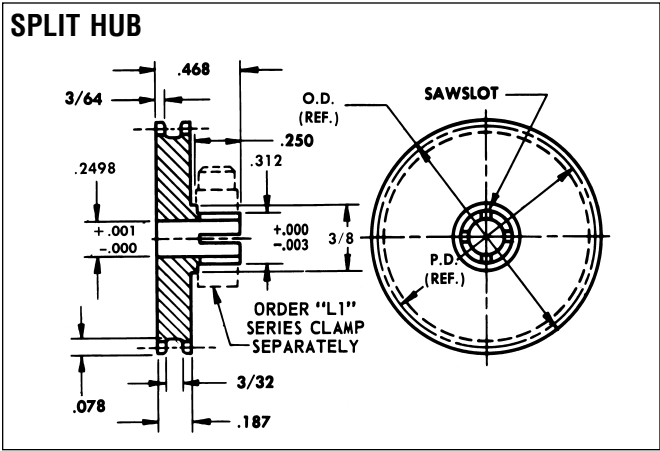
| Bore | Stainless Steel | Aluminum |
|------|-----------------|-----------|
| 4 mm | MF20G1-XX | MF20G2-XX |
| 6 mm | MF20G3-XX | MF20G4-XX |

XX = Number of grooves

| Pulley Data | | | Stainless Steel Bore Size Part Number | | | Aluminum Bore Size Part Number | | |
|-------------|-------|-------|---------------------------------------|----------|----------|--------------------------------|----------|----------|
| No. Teeth | P.D. | O.D. | .1248 | .1873 | .2498 | .1248 | .1873 | .2498 |
| 10* | .500 | .562 | FLG1-010 | FLG3-010 | — | FLG2-010 | FLG4-010 | — |
| 11* | .550 | .612 | FLG1-011 | FLG3-011 | — | FLG2-011 | FLG4-011 | — |
| 12* | .600 | .662 | FLG1-012 | FLG3-012 | FLG5-012 | FLG2-012 | FLG4-012 | FLG6-012 |
| 13* | .650 | .712 | FLG1-013 | FLG3-013 | FLG5-013 | FLG2-013 | FLG4-013 | FLG6-013 |
| 14* | .700 | .762 | FLG1-014 | FLG3-014 | FLG5-014 | FLG2-014 | FLG4-014 | FLG6-014 |
| 15* | .750 | .812 | FLG1-015 | FLG3-015 | FLG5-015 | FLG2-015 | FLG4-015 | FLG6-015 |
| 16 | .800 | .862 | FLG1-016 | FLG3-016 | FLG5-016 | FLG2-016 | FLG4-016 | FLG6-016 |
| 17 | .850 | .912 | FLG1-017 | FLG3-017 | FLG5-017 | FLG2-017 | FLG4-017 | FLG6-017 |
| 18 | .900 | .962 | FLG1-018 | FLG3-018 | FLG5-018 | FLG2-018 | FLG4-018 | FLG6-018 |
| 19 | .950 | 1.012 | FLG1-019 | FLG3-019 | FLG5-019 | FLG2-019 | FLG4-019 | FLG6-019 |
| 20 | 1.000 | 1.062 | FLG1-020 | FLG3-020 | FLG5-020 | FLG2-020 | FLG4-020 | FLG6-020 |
| 22 | 1.100 | 1.162 | FLG1-022 | FLG3-022 | FLG5-022 | FLG2-022 | FLG4-022 | FLG6-022 |
| 24 | 1.200 | 1.262 | FLG1-024 | FLG3-024 | FLG5-024 | FLG2-024 | FLG4-024 | FLG6-024 |
| 25 | 1.250 | 1.312 | FLG1-025 | FLG3-025 | FLG5-025 | FLG2-025 | FLG4-025 | FLG6-025 |
| 26 | 1.300 | 1.362 | FLG1-026 | FLG3-026 | FLG5-026 | FLG2-026 | FLG4-026 | FLG6-026 |
| 28 | 1.400 | 1.462 | FLG1-028 | FLG3-028 | FLG5-028 | FLG2-028 | FLG4-028 | FLG6-028 |
| 30 | 1.500 | 1.562 | FLG1-030 | FLG3-030 | FLG5-030 | FLG2-030 | FLG4-030 | FLG6-030 |
| 32 | 1.600 | 1.662 | FLG1-032 | FLG3-032 | FLG5-032 | FLG2-032 | FLG4-032 | FLG6-032 |
| 35 | 1.750 | 1.812 | FLG1-035 | FLG3-035 | FLG5-035 | FLG2-035 | FLG4-035 | FLG6-035 |
| 36 | 1.800 | 1.862 | FLG1-036 | FLG3-036 | FLG5-036 | FLG2-036 | FLG4-036 | FLG6-036 |
| 40 | 2.000 | 2.062 | FLG1-040 | FLG3-040 | FLG5-040 | FLG2-040 | FLG4-040 | FLG6-040 |
| 45 | 2.250 | 2.312 | FLG1-045 | FLG3-045 | FLG5-045 | FLG2-045 | FLG4-045 | FLG6-045 |
| 50 | 2.500 | 2.562 | — | FLG3-050 | FLG5-050 | — | FLG4-050 | FLG6-050 |
| 60 | 3.000 | 3.062 | — | FLG3-060 | FLG5-060 | — | FLG4-060 | FLG6-060 |
| 70 | 3.500 | 3.562 | — | FLG3-070 | FLG5-070 | — | FLG4-070 | FLG6-070 |
| 80 | 4.000 | 4.062 | — | FLG3-080 | FLG5-080 | — | FLG4-080 | FLG6-080 |

* Recommended for use as an idler only

See Note Below.



Note:

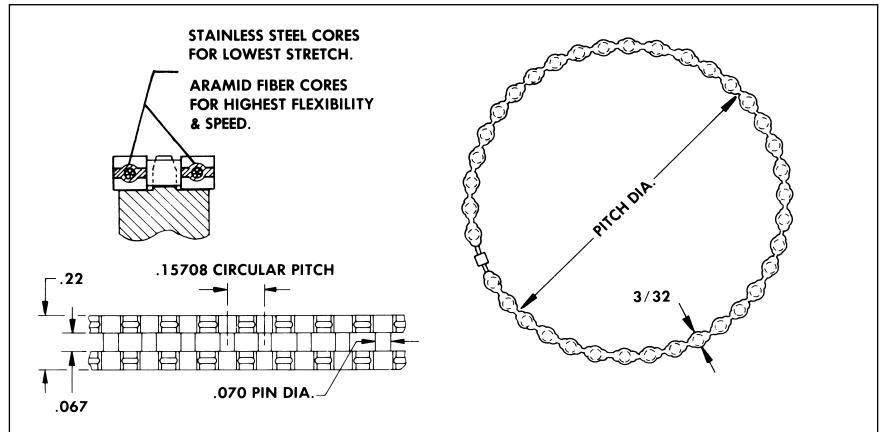
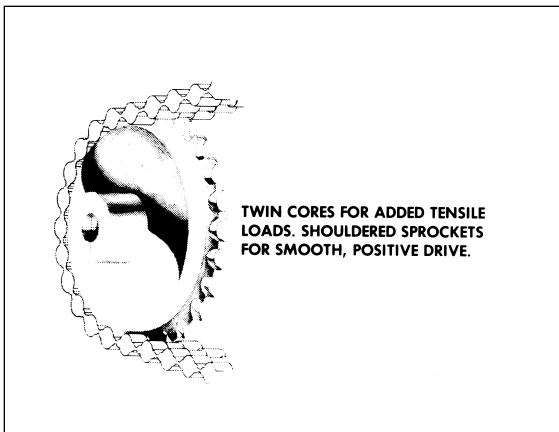
Other Size Bores Available, Consult Factory.
For unlisted number of teeth, specify the number of teeth desired as the last digits in the part number.
EXAMPLE: For a 52-tooth stainless steel pulley, specify Part Number: FLH5-052.
For number of teeth above or below listed sizes, consult factory.

| Pulley Data | | | Stainless Steel Part Number | Aluminum Part Number |
|-------------|-------|-------|-----------------------------|----------------------|
| No. Teeth | P.D. | O.D. | .2498 Bore Size | .2498 Bore Size |
| 12* | .600 | .662 | FLH5-012 | FLH6-012 |
| 13* | .650 | .712 | FLH5-013 | FLH6-013 |
| 14* | .700 | .762 | FLH5-014 | FLH6-014 |
| 15* | .750 | .812 | FLH5-015 | FLH6-015 |
| 16 | .800 | .862 | FLH5-016 | FLH6-016 |
| 17 | .850 | .912 | FLH5-017 | FLH6-017 |
| 18 | .900 | .962 | FLH5-018 | FLH6-018 |
| 19 | .950 | 1.012 | FLH5-019 | FLH6-019 |
| 20 | 1.000 | 1.062 | FLH5-020 | FLH6-020 |
| 22 | 1.100 | 1.162 | FLH5-022 | FLH6-022 |
| 24 | 1.200 | 1.262 | FLH5-024 | FLH6-024 |
| 25 | 1.250 | 1.312 | FLH5-025 | FLH6-025 |
| 26 | 1.300 | 1.362 | FLH5-026 | FLH6-026 |
| 28 | 1.400 | 1.462 | FLH5-028 | FLH6-028 |
| 30 | 1.500 | 1.562 | FLH5-030 | FLH6-030 |
| 32 | 1.600 | 1.662 | FLH5-032 | FLH6-032 |
| 35 | 1.750 | 1.812 | FLH5-035 | FLH6-035 |
| 36 | 1.800 | 1.862 | FLH5-036 | FLH6-036 |
| 40 | 2.000 | 2.062 | FLH5-040 | FLH6-040 |
| 45 | 2.250 | 2.312 | FLH5-045 | FLH6-045 |

* Recommended for use as an idler only

NO-SLIP POSITIVE DRIVE BELT

20DP, .15708CP — Twin Core



Material:

FMA Series: Molded Polyurethane, .032 diameter Aramid Fiber (Kevlar) Cores.

Color: Clear, Orange Cores.

FMS Series: Molded Polyurethane, .032 diameter Stainless Steel Cores.

Color: Clear, Blue Cores.

| Number of Drive Pins | Length (Ref.) | Part No. Aramid Core | Part No. Steel Core |
|----------------------|---------------|----------------------|---------------------|
| 30 | 4.712 | FMA-030 | FMS-030 |
| 35 | 5.498 | FMA-035 | FMS-035 |
| 40 | 6.283 | FMA-040 | FMS-040 |
| 45 | 7.068 | FMA-045 | FMS-045 |
| 50 | 7.854 | FMA-050 | FMS-050 |
| 55 | 8.639 | FMA-055 | FMS-055 |
| 60 | 9.424 | FMA-060 | FMS-060 |
| 70 | 10.995 | FMA-070 | FMS-070 |
| 80 | 12.566 | FMA-080 | FMS-080 |
| 90 | 14.137 | FMA-090 | FMS-090 |
| 100 | 15.708 | FMA-100 | FMS-100 |
| 110 | 17.278 | FMA-110 | FMS-110 |
| 120 | 18.849 | FMA-120 | FMS-120 |
| 130 | 20.420 | FMA-130 | FMS-130 |
| 140 | 21.991 | FMA-140 | FMS-140 |
| 150 | 23.562 | FMA-150 | FMS-150 |
| 160 | 25.132 | FMA-160 | FMS-160 |
| 170 | 26.703 | FMA-170 | FMS-170 |
| 180 | 28.274 | FMA-180 | FMS-180 |
| 190 | 29.845 | FMA-190 | FMS-190 |
| 200 | 31.416 | FMA-200 | FMS-200 |

| Number of Drive Pins | Length (Ref.) | Part No. Aramid Core | Part No. Steel Core |
|----------------------|---------------|----------------------|---------------------|
| 210 | 32.986 | FMA-210 | FMS-210 |
| 220 | 34.557 | FMA-220 | FMS-220 |
| 230 | 36.128 | FMA-230 | FMS-230 |
| 240 | 37.699 | FMA-240 | FMS-240 |
| 250 | 39.270 | FMA-250 | FMS-250 |
| 260 | 40.840 | FMA-260 | FMS-260 |
| 270 | 42.411 | FMA-270 | FMS-270 |
| 280 | 43.982 | FMA-280 | FMS-280 |
| 290 | 45.553 | FMA-290 | FMS-290 |
| 300 | 47.124 | FMA-300 | FMS-300 |
| 310 | 48.694 | FMA-310 | FMS-310 |
| 320 | 50.265 | FMA-320 | FMS-320 |
| 330 | 51.836 | FMA-330 | FMS-330 |
| 340 | 53.407 | FMA-340 | FMS-340 |
| 350 | 54.978 | FMA-350 | FMS-350 |
| 360 | 56.548 | FMA-360 | FMS-360 |
| 370 | 58.119 | FMA-370 | FMS-370 |
| 380 | 59.690 | FMA-380 | FMS-380 |
| 400 | 62.832 | FMA-400 | FMS-400 |
| 420 | 65.973 | FMA-420 | FMS-420 |
| 440 | 69.115 | FMA-440 | FMS-440 |

Bulk Lengths — Not Spliced

| Length | Aramid Core Part Number | Steel Core Part Number |
|--------|-------------------------|------------------------|
| 5 Ft | FMA-5FT | FMS-5FT |
| 10 Ft | FMA-10FT | FMS-10FT |
| 25 Ft | FMA-25FT | FMS-25FT |
| 50 Ft | FMA-50FT | FMS-50FT |
| 100 Ft | FMA-100FT | FMS-100FT |

For field splicing use Kit FM-SK.
 See page 5-5.

For other length belts longer than the minimum listed, substitute the desired number of drive pins at the end of the part number.

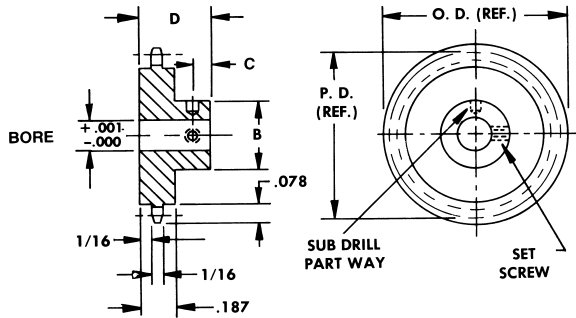
20DP (.15708 CP) SINGLE CORE NO-SLIP BELTS, SERIES FLA & FLS

Similar high strength, hi-flex design as "FL" series, but with twin cores providing added strength for higher tensile loads. Loads are carried by two cores, reducing stretch by a factor of two. Sprockets have only one row of teeth, resulting in cost savings vs pulleys with two rows of teeth. Recommended for higher load applications where twisting of the belt is not required.

NO-SLIP SPROCKETS

20DP, .15708CP — 1/8, 3/16, 1/4, Bores For FMA & FMS No-Slip, Twin Core Drive Belts

PIN HUB



Material: 303 Stainless Steel
2024-T4 Aluminum
(Anodized Before Cutting)

| Dimen. | Bore Size | | | | |
|-----------|-----------|-------|-------|-------|-------|
| | 1/8" | 3/16" | 1/4" | 4 mm | 6 mm |
| A | .1248 | .1873 | .2498 | .1573 | .2360 |
| B | .312 | .375 | .500 | .375 | .500 |
| C | .09 | .11 | .12 | .11 | .12 |
| D | .375 | .406 | .437 | .406 | .437 |
| Set Screw | #2-56 | #4-40 | #6-32 | M2X.4 | M3X.5 |

| Sprocket Data | | | Stainless Steel Bore Size Part Number | | | Aluminum Bore Size Part Number | | |
|---------------|-------|-------|---------------------------------------|----------|----------|--------------------------------|----------|----------|
| No. Teeth | P.D. | O.D. | .1248 | .1873 | .2498 | .1248 | .1873 | .2498 |
| 10* | .500 | .562 | FMG1-010 | FMG3-010 | — | FMG2-010 | FMG4-010 | — |
| 11* | .550 | .612 | FMG1-011 | FMG3-011 | — | FMG2-011 | FMG4-011 | — |
| 12* | .600 | .662 | FMG1-012 | FMG3-012 | FMG5-012 | FMG2-012 | FMG4-012 | FMG6-012 |
| 13* | .650 | .712 | FMG1-013 | FMG3-013 | FMG5-013 | FMG2-013 | FMG4-013 | FMG6-013 |
| 14* | .700 | .762 | FMG1-014 | FMG3-014 | FMG5-014 | FMG2-014 | FMG4-014 | FMG6-014 |
| 15* | .750 | .812 | FMG1-015 | FMG3-015 | FMG5-015 | FMG2-015 | FMG4-015 | FMG6-015 |
| 16 | .800 | .862 | FMG1-016 | FMG3-016 | FMG5-016 | FMG2-016 | FMG4-016 | FMG6-016 |
| 17 | .850 | .912 | FMG1-017 | FMG3-017 | FMG5-017 | FMG2-017 | FMG4-017 | FMG6-017 |
| 18 | .900 | .962 | FMG1-018 | FMG3-018 | FMG5-018 | FMG2-018 | FMG4-018 | FMG6-018 |
| 19 | .950 | 1.012 | FMG1-019 | FMG3-019 | FMG5-019 | FMG2-019 | FMG4-019 | FMG6-019 |
| 20 | 1.000 | 1.062 | FMG1-020 | FMG3-020 | FMG5-020 | FMG2-020 | FMG4-020 | FMG6-020 |
| 22 | 1.100 | 1.162 | FMG1-022 | FMG3-022 | FMG5-022 | FMG2-022 | FMG4-022 | FMG6-022 |
| 24 | 1.200 | 1.262 | FMG1-024 | FMG3-024 | FMG5-024 | FMG2-024 | FMG4-024 | FMG6-024 |
| 25 | 1.250 | 1.312 | FMG1-025 | FMG3-025 | FMG5-025 | FMG2-025 | FMG4-025 | FMG6-025 |
| 26 | 1.300 | 1.362 | FMG1-026 | FMG3-026 | FMG5-026 | FMG2-026 | FMG4-026 | FMG6-026 |
| 28 | 1.400 | 1.462 | FMG1-028 | FMG3-028 | FMG5-028 | FMG2-028 | FMG4-028 | FMG6-028 |
| 30 | 1.500 | 1.562 | FMG1-030 | FMG3-030 | FMG5-030 | FMG2-030 | FMG4-030 | FMG6-030 |
| 32 | 1.600 | 1.662 | FMG1-032 | FMG3-032 | FMG5-032 | FMG2-032 | FMG4-032 | FMG6-032 |
| 35 | 1.750 | 1.812 | FMG1-035 | FMG3-035 | FMG5-035 | FMG2-035 | FMG4-035 | FMG6-035 |
| 36 | 1.800 | 1.862 | FMG1-036 | FMG3-036 | FMG5-036 | FMG2-036 | FMG4-036 | FMG6-036 |
| 40 | 2.000 | 2.062 | FMG1-040 | FMG3-040 | FMG5-040 | FMG2-040 | FMG4-040 | FMG6-040 |
| 45 | 2.250 | 2.312 | FMG1-045 | FMG3-045 | FMG5-045 | FMG2-045 | FMG4-045 | FMG6-045 |
| 50 | 2.500 | 2.562 | — | FMG3-050 | FMG5-050 | — | FMG4-050 | FMG6-050 |
| 60 | 3.000 | 3.062 | — | FMG3-060 | FMG5-060 | — | FMG4-060 | FMG6-060 |
| 70 | 3.500 | 3.562 | — | FMG3-070 | FMG5-070 | — | FMG4-070 | FMG6-070 |
| 80 | 4.000 | 4.062 | — | FMG3-080 | FMG5-080 | — | FMG4-080 | FMG6-080 |

* Recommended for use as an idler only

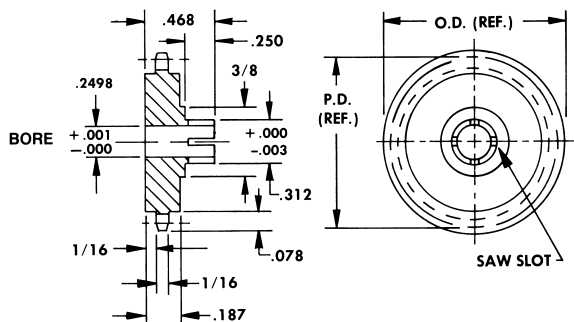
For Metric Bores:

| Bore | Stainless Steel | Aluminum |
|------|-----------------|----------|
| 4 mm | MFMG1-XX | MFMG2-XX |
| 6 mm | MFMG3-XX | MFMG4-XX |

XX = Number of grooves

See Note Below.

SPLIT HUB



Note:

Other Size Bores Available, Consult Factory.
For unlisted number of teeth, specify the number of teeth desired as the last digits in the part number.

EXAMPLE: For a 52-tooth stainless steel sprocket, specify Part Number: FMH5-052

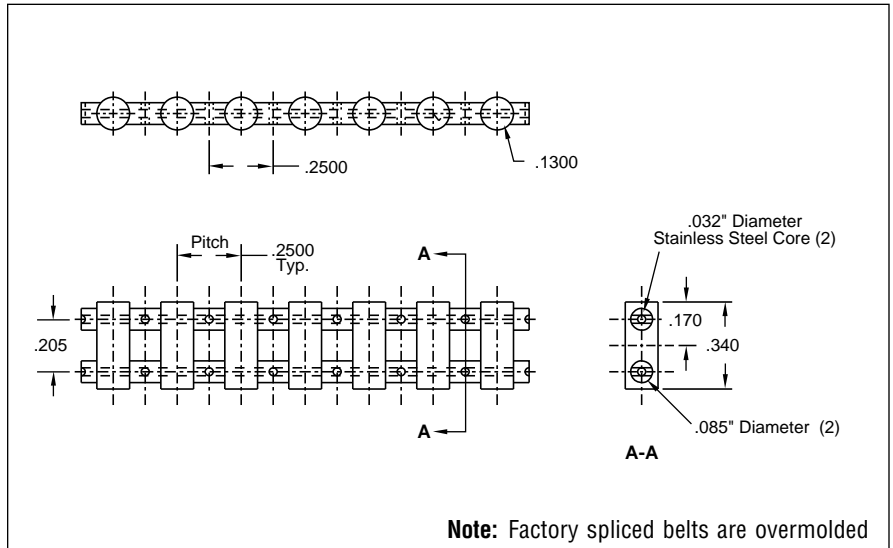
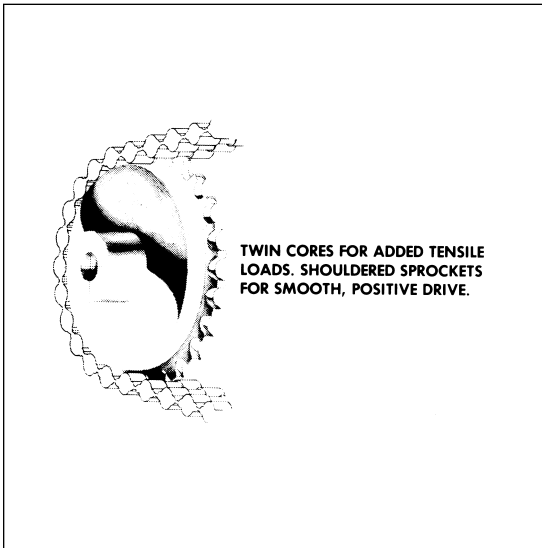
For number of teeth above or below listed sizes, consult factory.

| Sprocket Data | | | Stainless Steel Part Number | Aluminum Part Number |
|---------------|-------|-------|-----------------------------|----------------------|
| No. Teeth | P.D. | O.D. | .2498 Bore Size | .2498 Bore Size |
| 12* | .600 | .662 | FMH5-012 | FMH6-012 |
| 13* | .650 | .712 | FMH5-013 | FMH6-013 |
| 14* | .700 | .762 | FMH5-014 | FMH6-014 |
| 15* | .750 | .812 | FMH5-015 | FMH6-015 |
| 16 | .800 | .862 | FMH5-016 | FMH6-016 |
| 17 | .850 | .912 | FMH5-017 | FMH6-017 |
| 18 | .900 | .962 | FMH5-018 | FMH6-018 |
| 19 | .950 | 1.012 | FMH5-019 | FMH6-019 |
| 20 | 1.000 | 1.062 | FMH5-020 | FMH6-020 |
| 22 | 1.100 | 1.162 | FMH5-022 | FMH6-022 |
| 24 | 1.200 | 1.262 | FMH5-024 | FMH6-024 |
| 25 | 1.250 | 1.312 | FMH5-025 | FMH6-025 |
| 26 | 1.300 | 1.362 | FMH5-026 | FMH6-026 |
| 28 | 1.400 | 1.462 | FMH5-028 | FMH6-028 |
| 30 | 1.500 | 1.562 | FMH5-030 | FMH6-030 |
| 32 | 1.600 | 1.662 | FMH5-032 | FMH6-032 |
| 35 | 1.750 | 1.812 | FMH5-035 | FMH6-035 |
| 36 | 1.800 | 1.862 | FMH5-036 | FMH6-036 |
| 40 | 2.000 | 2.062 | FMH5-040 | FMH6-040 |
| 45 | 2.250 | 2.312 | FMH5-045 | FMH6-045 |

* Recommended for use as an idler only

NO-SLIP POSITIVE DRIVE BELT "CHAIN"

.25 (1/4") Pitch



Material:

F25CS Series: Molded Polyurethane, .032 diameter Stainless Steel Cores.
Color: Light Brown, Core Red

F25CA Series: Molded Polyurethane, .032 diameter Aramid (Kevlar) Cores.
Color: Light Brown, Core Orange

| Number Of Drive Pins | Length (Ref.) | Part Number * | Number Of Drive Pins | Length (Ref.) | Part Number * |
|----------------------|---------------|---------------|----------------------|---------------|---------------|
| 40 | 10.000 | F25CS-40 | 220 | 55.000 | F25CS-220 |
| 50 | 12.500 | F25CS-50 | 230 | 57.500 | F25CS-230 |
| 60 | 15.000 | F25CS-60 | 240 | 60.000 | F25CS-240 |
| 70 | 17.500 | F25CS-70 | 250 | 62.500 | F25CS-250 |
| 80 | 20.000 | F25CS-80 | 260 | 65.000 | F25CS-260 |
| 90 | 22.500 | F25CS-90 | 270 | 67.500 | F25CS-270 |
| 100 | 25.000 | F25CS-100 | 280 | 70.000 | F25CS-280 |
| 110 | 27.500 | F25CS-110 | 290 | 72.500 | F25CS-290 |
| 120 | 30.000 | F25CS-120 | 300 | 75.000 | F25CS-300 |
| 130 | 32.500 | F25CS-130 | 310 | 77.500 | F25CS-310 |
| 140 | 35.000 | F25CS-140 | 320 | 80.000 | F25CS-320 |
| 150 | 37.500 | F25CS-150 | 330 | 82.500 | F25CS-330 |
| 160 | 40.000 | F25CS-160 | 340 | 85.000 | F25CS-340 |
| 170 | 42.500 | F25CS-170 | 350 | 87.500 | F25CS-350 |
| 180 | 45.000 | F25CS-180 | 370 | 92.500 | F25CS-370 |
| 190 | 47.500 | F25CS-190 | 380 | 95.000 | F25CS-380 |
| 200 | 50.000 | F25CS-200 | 390 | 97.500 | F25CS-390 |
| 210 | 52.500 | F25CS-210 | | | |

* For Aramid Cores, substitute A for S in the part number

For other length belts longer than the minimum listed, substitute the desired number of drive pins at the end of the part number.

Bulk Footage — Not Spliced

| Length | Part Number |
|--------|-------------|
| 5 Ft | F25CS-5FT |
| 10 Ft | F25CS-10FT |
| 25 Ft | F25CS-25FT |
| 50 Ft | F25CS-50FT |
| 100 Ft | F25CS-100FT |

Special length belts and other bulk lengths available. Consult factory.

For field splicing use Kit F25C-SK. See page 5-5.

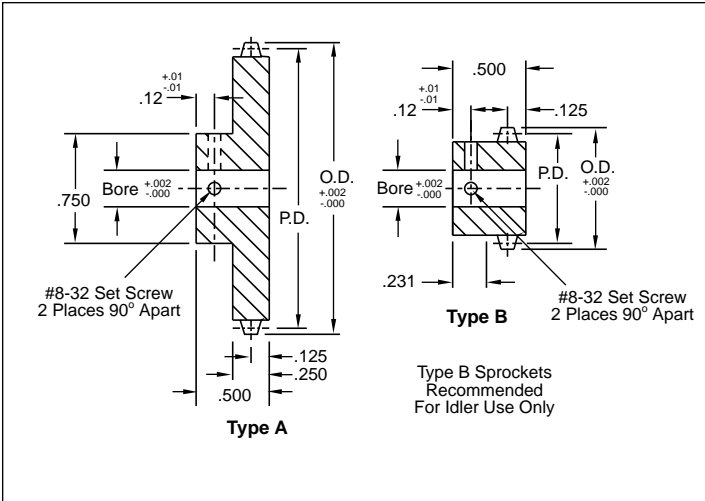
* For Aramid Cores, substitute A for S in the part number

.25 Pitch Twin Core No-Slip Belts — Series F25CS

Designed to provide an economical alternative to 25-pitch roller chain, with smoother motion. Drive pins are 44% larger in diameter than FRA & FRS series.

NO-SLIP SPROCKETS

.25 (1/4") Pitch 1/4, 3/8, 1/2 — 8 mm, 10 mm & 12 mm Bores for F25 Twin Core Drive Belts

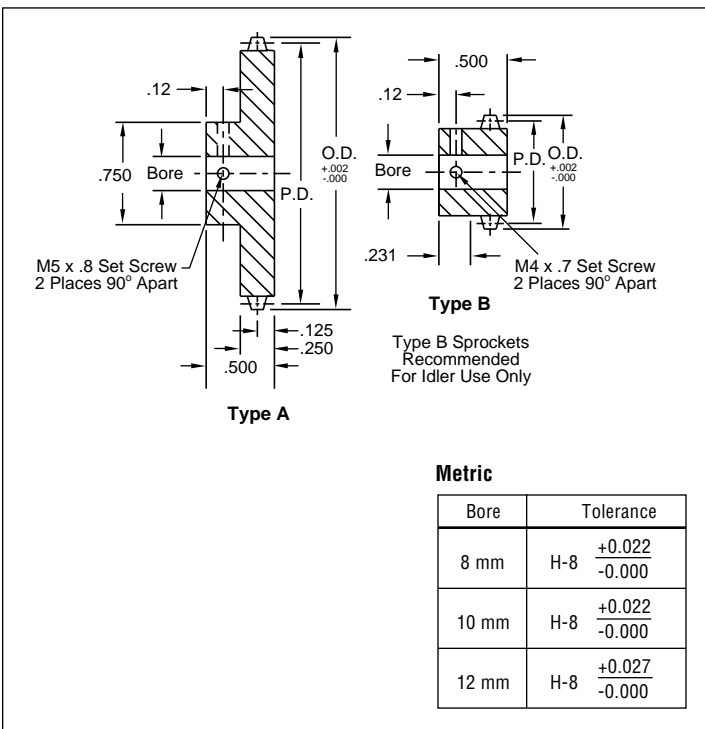


| Number Of Teeth | Type | P.D. (Inches) | O.D. (Inches) | Bore Size / Part Number | | |
|-----------------|------|---------------|---------------|-------------------------|----------|----------|
| | | | | .250 | .375 | .500 |
| 9 * | B | .7162 | .836 | F25G4-9 | F25G6-9 | F25G8-9 |
| 10 | B | .7958 | .915 | F25G4-10 | F25G6-10 | F25G8-10 |
| 12 | A | .9549 | 1.074 | F25G4-12 | F25G6-12 | F25G8-12 |
| 13 | A | 1.0345 | 1.154 | F25G4-13 | F25G6-13 | F25G8-13 |
| 14 | A | 1.1141 | 1.234 | F25G4-14 | F25G6-14 | F25G8-14 |
| 15 | A | 1.1936 | 1.313 | F25G4-15 | F25G6-15 | F25G8-15 |
| 16 | A | 1.2732 | 1.393 | F25G4-16 | F25G6-16 | F25G8-16 |
| 18 | A | 1.4324 | 1.552 | F25G4-18 | F25G6-18 | F25G8-18 |
| 20 | A | 1.5915 | 1.711 | F25G4-20 | F25G6-20 | F25G8-20 |
| 24 | A | 1.9098 | 2.029 | F25G4-24 | F25G6-24 | F25G8-24 |
| 25 | A | 1.9894 | 2.109 | F25G4-25 | F25G6-25 | F25G8-25 |
| 28 | A | 2.2281 | 2.348 | F25G4-28 | F25G6-28 | F25G8-28 |
| 30 | A | 2.3873 | 2.507 | F25G4-30 | F25G6-30 | F25G8-30 |
| 36 | A | 2.8648 | 2.984 | F25G4-36 | F25G6-36 | F25G8-36 |
| 40 | A | 3.1831 | 3.303 | F25G4-40 | F25G6-40 | F25G8-40 |
| 48 | A | 3.8197 | 3.939 | F25G4-48 | F25G6-48 | F25G8-48 |
| 60 | A | 4.7746 | 4.894 | F25G4-60 | F25G6-60 | F25G8-60 |
| 72 | A | 5.7296 | 5.849 | F25G4-72 | F25G6-72 | F25G8-72 |

* Recommended for use as an idler only

See Note Below.

Material: 2024-T4 Aluminum (anodized before cutting)



| Metric | |
|--------|---------------------|
| Bore | Tolerance |
| 8 mm | H-8 +0.022 / -0.000 |
| 10 mm | H-8 +0.022 / -0.000 |
| 12 mm | H-8 +0.027 / -0.000 |

| Number Of Teeth | Type | P.D. (Inches) | O.D. (Inches) | Bore Size / Part Number (Metric) | | |
|-----------------|------|---------------|---------------|----------------------------------|-----------|-----------|
| | | | | 8 mm | 10 mm | 12 mm |
| 9 * | B | .7162 | .836 | MF25G4-9 | MF25G6-9 | MF25G8-9 |
| 10 | B | .7958 | .915 | MF25G4-10 | MF25G6-10 | MF25G8-10 |
| 12 | A | .9549 | 1.074 | MF25G4-12 | MF25G6-12 | MF25G8-12 |
| 13 | A | 1.0345 | 1.154 | MF25G4-13 | MF25G6-13 | MF25G8-13 |
| 14 | A | 1.1141 | 1.234 | MF25G4-14 | MF25G6-14 | MF25G8-14 |
| 15 | A | 1.1936 | 1.313 | MF25G4-15 | MF25G6-15 | MF25G8-15 |
| 16 | A | 1.2732 | 1.393 | MF25G4-16 | MF25G6-16 | MF25G8-16 |
| 18 | A | 1.4324 | 1.552 | MF25G4-18 | MF25G6-18 | MF25G8-18 |
| 20 | A | 1.5915 | 1.711 | MF25G4-20 | MF25G6-20 | MF25G8-20 |
| 24 | A | 1.9098 | 2.029 | MF25G4-24 | MF25G6-24 | MF25G8-24 |
| 25 | A | 1.9894 | 2.109 | MF25G4-25 | MF25G6-25 | MF25G8-25 |
| 28 | A | 2.2281 | 2.348 | MF25G4-28 | MF25G6-28 | MF25G8-28 |
| 30 | A | 2.3873 | 2.507 | MF25G4-30 | MF25G6-30 | MF25G8-30 |
| 36 | A | 2.8648 | 2.984 | MF25G4-36 | MF25G6-36 | MF25G8-36 |
| 40 | A | 3.1831 | 3.303 | MF25G4-40 | MF25G6-40 | MF25G8-40 |
| 48 | A | 3.8197 | 3.939 | MF25G4-48 | MF25G6-48 | MF25G8-48 |
| 60 | A | 4.7746 | 4.894 | MF25G4-60 | MF25G6-60 | MF25G8-60 |
| 72 | A | 5.7296 | 5.849 | MF25G4-72 | MF25G6-72 | MF25G8-72 |

* Recommended for use as an idler only

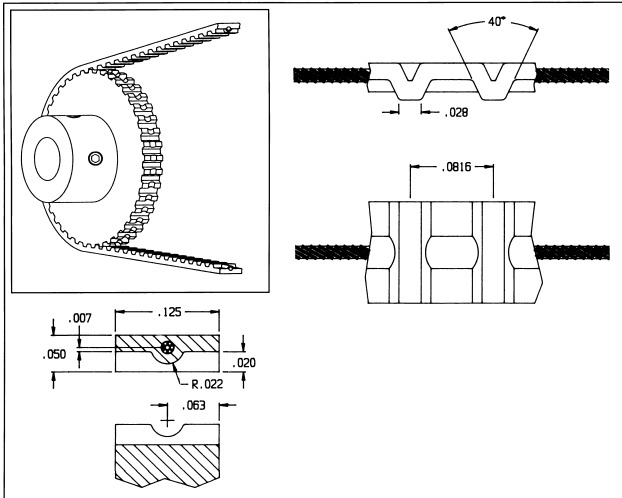
Note:

Other Size Bores Available, Consult Factory.
 For unlisted number of teeth, specify the number of teeth desired as the last digits in the part number.
 EXAMPLE: For a 52-tooth 1/4" bore sprocket, specify Part Number: F25G4-52
 For number of teeth above or below listed sizes, consult factory.

Material: 2024-T4 Aluminum (anodized before cutting)

NO-SLIDE TIMING BELTS

40 DP (.0816 Pitch), 1/8" Wide — Polyurethane Belt



Material: Molded Polyurethane with .018" Dia. Stainless Steel Core

Color: Clear with Black Core

Maximum Tensile Strength: 25 Lbs.

Note: For maximum life use working tension of less than 4 lbs.

| No Of Grooves | Length (Ref.) | Part Number | No Of Grooves | Length (Ref.) | Part Number |
|---------------|---------------|-------------|---------------|---------------|-------------|
| 24* | 1.9584 | F8BS-24 | 114 | 9.3024 | F8BS-114 |
| 44 | 3.5904 | F8BS-44 | 120 | 9.7920 | F8BS-120 |
| 45 | 3.6720 | F8BS-45 | 123 | 10.0368 | F8BS-123 |
| 48 | 3.9168 | F8BS-48 | 126 | 10.2816 | F8BS-126 |
| 51 | 4.1616 | F8BS-51 | 132 | 10.7721 | F8BS-132 |
| 52 | 4.2432 | F8BS-52 | 139 | 11.3424 | F8BS-139 |
| 53 | 4.3248 | F8BS-53 | 140 | 11.4240 | F8BS-140 |
| 60 | 4.8960 | F8BS-60 | 150 | 12.2400 | F8BS-150 |
| 64 | 5.2224 | F8BS-64 | 162 | 13.2192 | F8BS-162 |
| 66 | 5.3856 | F8BS-66 | 175 | 14.2800 | F8BS-175 |
| 67 | 5.4672 | F8BS-67 | 184 | 15.0144 | F8BS-184 |
| 72 | 5.8752 | F8BS-72 | 193 | 15.7488 | F8BS-193 |
| 77 | 6.2832 | F8BS-77 | 214 | 17.4624 | F8BS-214 |
| 88 | 7.1808 | F8BS-88 | 228 | 18.6048 | F8BS-228 |
| 96 | 7.8336 | F8BS-96 | 245 | 19.9920 | F8BS-245 |
| 98 | 7.9968 | F8BS-98 | 249 | 20.3184 | F8BS-249 |
| 102 | 8.3232 | F8BS-102 | 251 | 20.4816 | F8BS-251 |
| 109 | 8.8944 | F8BS-109 | 264 | 21.5424 | F8BS-264 |
| 110 | 8.9760 | F8BS-110 | | | |

* Splice not overmolded on 24 grooves

For other length belts longer than the minimum listed, substitute the desired number of drive pins at the end of the part number.

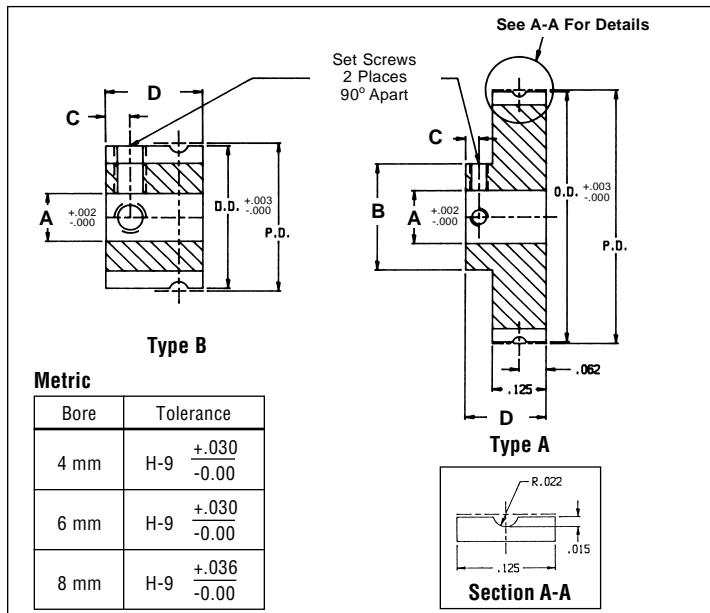
Bulk Lengths — Not Spliced

| Length | Part Number |
|--------|-------------|
| 5 Ft | F8BS-5FT |
| 10 Ft | F8BS-10FT |
| 25 Ft | F8BS-25FT |
| 50 Ft | F8BS-50FT |
| 100 Ft | F8BS-100FT |

For field splicing use kit F8B-SK. See page 5-5.

NO-SLIDE TIMING PULLEYS

40 D.P. (.0816 Pitch), No Flange, Grooved Pulley for 1/8" Wide Belts



Material: 2024-T4 Aluminum (anodized before cutting)

Note 1: For metric bores prefix part numbers with letter M. XX = number of teeth

4 mm bore part number: MF8P4-XX

6 mm bore part number: MF8P6-XX

8 mm bore part number: MF8P8-XX

Example: Part number for a 6 mm bore with 40 teeth is MF8P6-40

Note 2: Other number of teeth available for inch and metric pulleys

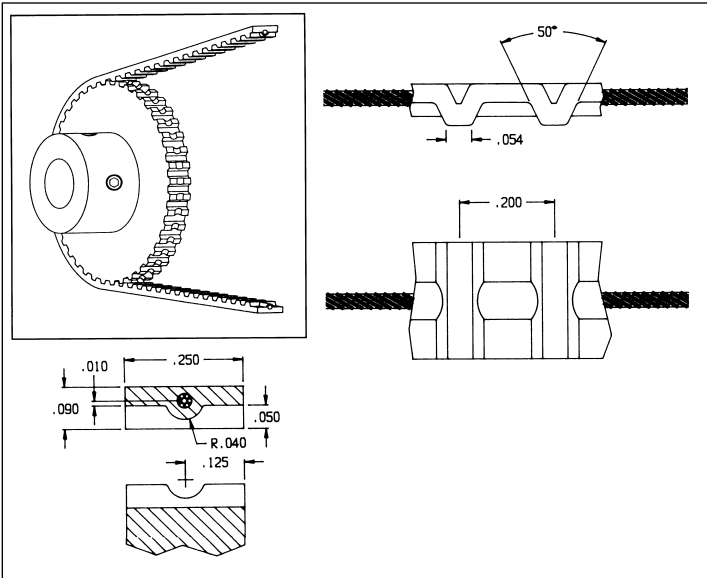
| No. of Teeth | Type | Pitch Dia. | Outside Dia. | Bore Size / Part Number | | |
|--------------|------|------------|--------------|-------------------------|----------|----------|
| | | | | .125 | .187 | .250 |
| 14* | B | .3636 | .349 | F8P2-14 | F8P3-14 | — |
| 15* | B | .3896 | .375 | F8P2-15 | F8P3-15 | — |
| 18* | B | .4675 | .453 | F8P2-18 | F8P3-18 | F8P4-18 |
| 20 | A | .5195 | .505 | F8P2-20 | F8P3-20 | F8P4-20 |
| 24 | A | .6234 | .609 | F8P2-24 | F8P3-24 | F8P4-24 |
| 25 | A | .6494 | .635 | F8P2-25 | F8P3-25 | F8P4-25 |
| 28 | A | .7273 | .713 | F8P2-28 | F8P3-28 | F8P4-28 |
| 30 | A | .7792 | .765 | F8P2-30 | F8P3-30 | F8P4-30 |
| 32 | A | .8312 | .817 | F8P2-32 | F8P3-32 | F8P4-32 |
| 34 | A | .8831 | .869 | F8P2-34 | F8P3-34 | F8P4-34 |
| 36 | A | .9351 | .921 | F8P2-36 | F8P3-36 | F8P4-36 |
| 38 | A | .9870 | .973 | F8P2-38 | F8P3-38 | F8P4-38 |
| 40 | A | 1.0390 | 1.025 | F8P2-40 | F8P3-40 | F8P4-40 |
| 42 | A | 1.0909 | 1.076 | F8P2-42 | F8P3-42 | F8P4-42 |
| 44 | A | 1.1429 | 1.128 | F8P2-44 | F8P3-44 | F8P4-44 |
| 48 | A | 1.2468 | 1.232 | F8P2-48 | F8P3-48 | F8P4-48 |
| 50 | A | 1.2987 | 1.284 | F8P2-50 | F8P3-50 | F8P4-50 |
| 54 | A | 1.4026 | 1.388 | F8P2-54 | F8P3-54 | F8P4-54 |
| 60 | A | 1.5584 | 1.544 | F8P2-60 | F8P3-60 | F8P4-60 |
| 72 | A | 1.8701 | 1.856 | F8P2-72 | F8P3-72 | F8P4-72 |
| 75 | A | 1.9481 | 1.934 | F8P2-75 | F8P3-75 | F8P4-75 |
| 80 | A | 2.0779 | 2.063 | F8P2-80 | F8P3-80 | F8P4-80 |
| 84 | A | 2.1818 | 2.167 | F8P2-84 | F8P3-84 | F8P4-84 |
| 88 | A | 2.2857 | 2.271 | F8P2-88 | F8P3-88 | F8P4-88 |
| 90 | A | 2.3377 | 2.323 | F8P2-90 | F8P3-90 | F8P4-90 |
| 96 | A | 2.4935 | 2.479 | F8P2-96 | F8P3-96 | F8P4-96 |
| 98 | A | 2.5455 | 2.531 | F8P2-98 | F8P3-98 | F8P4-98 |
| 100 | A | 2.5974 | 2.583 | F8P2-100 | F8P3-100 | F8P4-100 |
| 120 | A | 3.1169 | 3.102 | F8P2-120 | F8P3-120 | F8P4-120 |

* Recommended for use as an idler only

| Dimen. (In.) | Bore Size | | | | | |
|--------------|-----------|-------|-------|-------|-------|-------|
| | 1/8" | 3/16" | 1/4" | 4 mm | 6 mm | 8 mm |
| A | .1248 | .1873 | .2498 | .1573 | .2360 | .3148 |
| B | .312 | .375 | .500 | .312 | .375 | .500 |
| C | .09 | .11 | .12 | .09 | .11 | .12 |
| D | .312 | .343 | .375 | .312 | .343 | .375 |
| Set Screw | #2-56 | #4-40 | #6-32 | M2X.4 | M3X.5 | M4X.7 |

NO-SLIDE TIMING BELTS

1/5 (.200) Pitch, 1/4" Wide Polyurethane Belts



| No Of Grooves | Length (Ref.) | Part Number | No Of Grooves | Length (Ref.) | Part Number |
|---------------|---------------|-------------|---------------|---------------|-------------|
| 10* | 2.00 | F20BS-10 | 110 | 22.00 | F20BS-110 |
| 15* | 3.00 | F20BS-15 | 115 | 23.00 | F20BS-115 |
| 20* | 4.00 | F20BS-20 | 120 | 24.00 | F20BS-120 |
| 25* | 5.00 | F20BS-25 | 125 | 25.00 | F20BS-125 |
| 30* | 6.00 | F20BS-30 | 130 | 26.00 | F20BS-130 |
| 35 | 7.00 | F20BS-35 | 135 | 27.00 | F20BS-135 |
| 40 | 8.00 | F20BS-40 | 140 | 28.00 | F20BS-140 |
| 45 | 9.00 | F20BS-45 | 145 | 29.00 | F20BS-145 |
| 50 | 10.00 | F20BS-50 | 150 | 30.00 | F20BS-150 |
| 55 | 11.00 | F20BS-55 | 155 | 31.00 | F20BS-155 |
| 60 | 12.00 | F20BS-60 | 160 | 32.00 | F20BS-160 |
| 65 | 13.00 | F20BS-65 | 165 | 33.00 | F20BS-165 |
| 70 | 14.00 | F20BS-70 | 170 | 34.00 | F20BS-170 |
| 75 | 15.00 | F20BS-75 | 175 | 35.00 | F20BS-175 |
| 80 | 16.00 | F20BS-80 | 180 | 36.00 | F20BS-180 |
| 85 | 17.00 | F20BS-85 | 185 | 37.00 | F20BS-185 |
| 90 | 18.00 | F20BS-90 | 190 | 38.00 | F20BS-190 |
| 95 | 19.00 | F20BS-95 | 195 | 39.00 | F20BS-195 |
| 100 | 20.00 | F20BS-100 | 200 | 40.00 | F20BS-200 |
| 105 | 21.00 | F20BS-105 | 210 | 42.00 | F20BS-210 |

* Splice not overmolded on less than 35 grooves

For other length belts longer than the minimum listed, substitute the desired number of drive pins at the end of the part number.

Note: For Aramid (Kevlar) fiber core, change Part No. to F20BA-□□□
Consult factory for availability

Bulk Lengths — Not Spliced

| Length | Part Number |
|--------|-------------|
| 5 Ft | F20BS-5FT |
| 10 Ft | F20BS-10FT |
| 25 Ft | F20BS-25FT |
| 50 Ft | F20BS-50FT |
| 100 Ft | F20BS-100FT |

Material: Molded Polyurethane with .032" Dia. Stainless Steel Core

Color: Red, Core Red. Aramid (Kevlar) Core Yellow

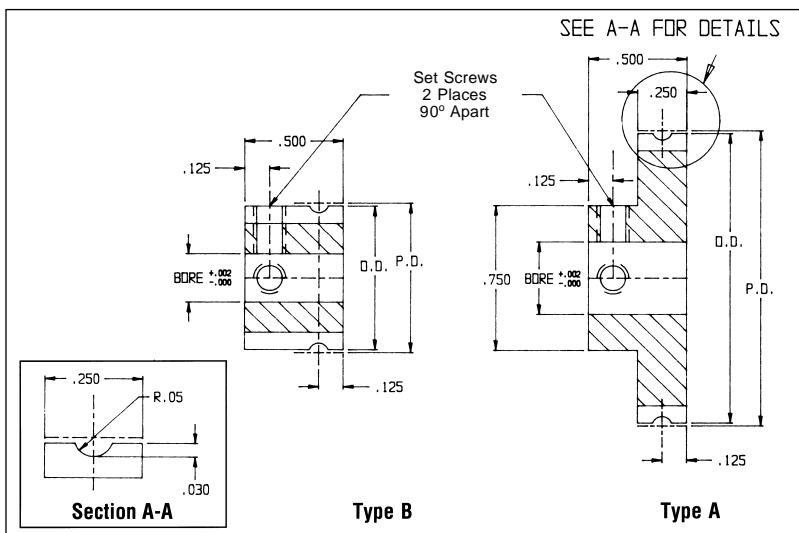
Maximum Tensile Strength: 50 Lbs.

Note: For maximum life use working tension of less than 10 lbs.

For field splicing use kit F20B-SK. See page 5-5.

NO-SLIDE TIMING PULLEYS

1/5 (.200) Pitch, No Flange Groove Pulleys for 1/4" Wide Belts



| No. of Teeth | Type | Pitch Dia. | Outside Dia. | STD Bore / Part Number | | |
|--------------|------|------------|--------------|------------------------|----------|----------|
| | | | | .250 | .375 | .500 |
| 10* | B | .6366 | .616 | F20P4-10 | — | — |
| 11* | B | .7003 | .680 | F20P4-11 | F20P6-11 | — |
| 12 | B | .7639 | .743 | F20P4-12 | F20P6-12 | F20P8-12 |
| 14 | A | .8913 | .871 | F20P4-14 | F20P6-14 | F20P8-14 |
| 15 | A | .9549 | .934 | F20P4-15 | F20P6-15 | F20P8-15 |
| 16 | A | 1.0186 | .998 | F20P4-16 | F20P6-16 | F20P8-16 |
| 17 | A | 1.0823 | 1.062 | F20P4-17 | F20P6-17 | F20P8-17 |
| 18 | A | 1.1459 | 1.125 | F20P4-18 | F20P6-18 | F20P8-18 |
| 19 | A | 1.2096 | 1.189 | F20P4-19 | F20P6-19 | F20P8-19 |
| 20 | A | 1.2732 | 1.253 | F20P4-20 | F20P6-20 | F20P8-20 |
| 21 | A | 1.3369 | 1.316 | F20P4-21 | F20P6-21 | F20P8-21 |
| 22 | A | 1.4006 | 1.380 | F20P4-22 | F20P6-22 | F20P8-22 |
| 23 | A | 1.4642 | 1.444 | F20P4-23 | F20P6-23 | F20P8-23 |
| 24 | A | 1.5279 | 1.507 | F20P4-24 | F20P6-24 | F20P8-24 |
| 25 | A | 1.5916 | 1.571 | F20P4-25 | F20P6-25 | F20P8-25 |
| 27 | A | 1.7189 | 1.698 | F20P4-27 | F20P6-27 | F20P8-27 |
| 28 | A | 1.7825 | 1.762 | F20P4-28 | F20P6-28 | F20P8-28 |
| 29 | A | 1.8462 | 1.826 | F20P4-29 | F20P6-29 | F20P8-29 |
| 30 | A | 1.9099 | 1.889 | F20P4-30 | F20P6-30 | F20P8-30 |
| 32 | A | 2.0372 | 2.017 | F20P4-32 | F20P6-32 | F20P8-32 |
| 36 | A | 2.2918 | 2.271 | F20P4-36 | F20P6-36 | F20P8-36 |
| 40 | A | 2.5465 | 2.526 | F20P4-40 | F20P6-40 | F20P8-40 |
| 42 | A | 2.6738 | 2.653 | F20P4-42 | F20P6-42 | F20P8-42 |
| 44 | A | 2.8011 | 2.781 | F20P4-44 | F20P6-44 | F20P8-44 |
| 45 | A | 2.8648 | 2.844 | F20P4-45 | F20P6-45 | F20P8-45 |
| 48 | A | 3.0558 | 3.035 | F20P4-48 | F20P6-48 | F20P8-48 |
| 50 | A | 3.1831 | 3.163 | F20P4-50 | F20P6-50 | F20P8-50 |
| 60 | A | 3.8197 | 3.799 | F20P4-60 | F20P6-60 | F20P8-60 |
| 72 | A | 4.5837 | 4.563 | F20P4-72 | F20P6-72 | F20P8-72 |

Material: 2024-T4 Aluminum (anodized before cutting)

Note: For metric bores prefix part numbers with letter M.
XX = number of teeth

8 mm bore part number: MF20P8-XX

10 mm bore part number: MF20P10-XX

12 mm bore part number: MF20P12-XX

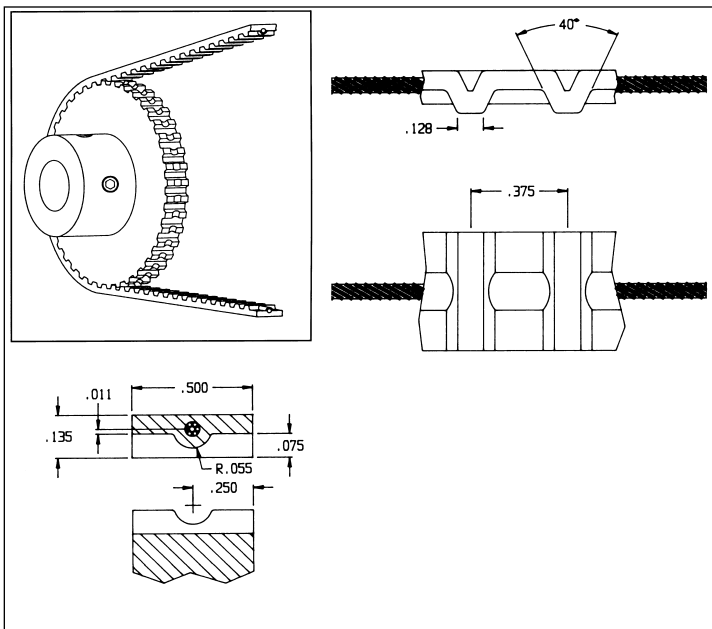
Example: Part number for a 1/5" pitch No-Slide pulley with 50 teeth and 12 mm bore is MF20P12-50

| Set Screw Size | | |
|----------------|-------|------------|
| Bore | | |
| Inch | 8 mm | 10 & 12 mm |
| 8-32 | M4X.7 | M5X.8 |

* Recommended for use as an idler only

NO-SLIDE TIMING BELTS

3/8" Pitch, 1/2" Wide — Polyurethane Belt



Material: Molded Polyurethane with .047" Diameter Stainless Steel Core

Color: Blue

Maximum Tensile Strength: 125 Lbs.

Note: For maximum life use working tension of less than 25 lbs.

| No Of Grooves | Length (Ref.) | Part Number | No Of Grooves | Length (Ref.) | Part Number |
|---------------|---------------|-------------|---------------|---------------|-------------|
| 20 | 7.500 | F37BS-20 | 98 | 36.750 | F37BS-98 |
| 22 | 8.250 | F37BS-22 | 100 | 37.500 | F37BS-100 |
| 24 | 9.000 | F37BS-24 | 104 | 39.000 | F37BS-104 |
| 26 | 9.750 | F37BS-26 | 108 | 40.500 | F37BS-108 |
| 28 | 10.500 | F37BS-28 | 112 | 42.000 | F37BS-112 |
| 30 | 11.250 | F37BS-30 | 116 | 43.500 | F37BS-116 |
| 33 | 12.375 | F37BS-33 | 120 | 45.000 | F37BS-120 |
| 36 | 13.500 | F37BS-36 | 124 | 46.500 | F37BS-124 |
| 40 | 15.000 | F37BS-40 | 128 | 48.000 | F37BS-128 |
| 45 | 16.875 | F37BS-45 | 132 | 49.500 | F37BS-132 |
| 50 | 18.750 | F37BS-50 | 136 | 51.000 | F37BS-136 |
| 56 | 21.000 | F37BS-56 | 140 | 52.500 | F37BS-140 |
| 60 | 22.500 | F37BS-60 | 144 | 54.000 | F37BS-144 |
| 64 | 24.000 | F37BS-64 | 148 | 55.500 | F37BS-148 |
| 68 | 25.500 | F37BS-68 | 152 | 57.000 | F37BS-152 |
| 72 | 27.000 | F37BS-72 | 156 | 58.500 | F37BS-156 |
| 80 | 30.000 | F37BS-80 | 160 | 60.000 | F37BS-160 |
| 86 | 32.250 | F37BS-86 | 176 | 66.000 | F37BS-176 |
| 92 | 34.500 | F37BS-92 | 180 | 67.500 | F37BS-180 |

Factory spliced belts are overmolded

For other length belts longer than the minimum listed, substitute the desired number of drive pins at the end of the part number.

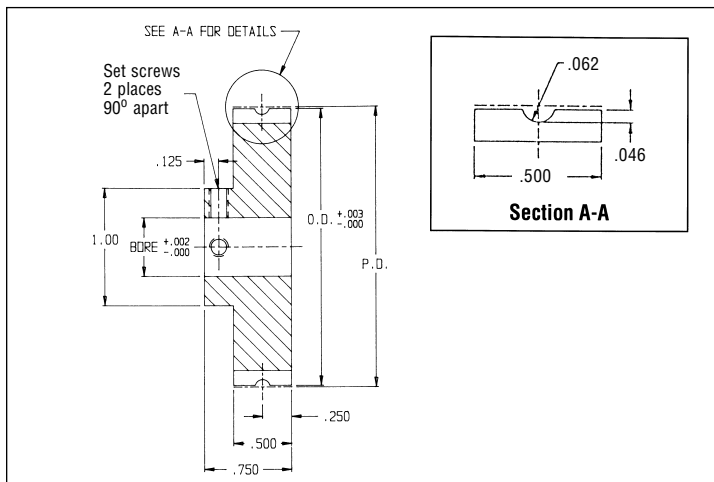
Bulk Lengths — Not Spliced

| Length | Part Number |
|--------|-------------|
| 5 Ft | F37BS-5FT |
| 10 Ft | F37BS-10FT |
| 25 Ft | F37BS-25FT |
| 50 Ft | F37BS-50FT |
| 100 Ft | F37BS-100FT |

For field splicing use kit F37B-SK. See page 5-5.

NO-SLIDE TIMING PULLEYS

3/8" Pitch, No-Flange Grooved Pulleys for 1/2" Wide Belts



Material: 2024-T4 Aluminum (anodized before cutting)

Note: For metric bores prefix part numbers with letter M
XX = number of teeth

8 mm bore part number: MF37P8-XX

10 mm bore part number: MF37P10-XX

12 mm bore part number: MF37P12-XX

Example: Part number for 3/8" pitch No-Slide pulley with 36 teeth and a 12 mm bore is MF37P12-36

| Set Screw Size | | |
|----------------|-------|------------|
| Bore | | |
| Inch | 8 mm | 10 & 12 mm |
| 8-32 | M4X.7 | M5X.8 |

| No. of Teeth | Pitch Dia. | Outside Dia. | Part No. / Bore Size | | |
|--------------|------------|--------------|----------------------|----------|----------|
| | | | .250 | .375 | .500 |
| 10* | 1.1937 | 1.164 | F37P4-10 | F37P6-10 | F37P8-10 |
| 11* | 1.3130 | 1.284 | F37P4-11 | F37P6-11 | F37P8-11 |
| 12 | 1.4324 | 1.403 | F37P4-12 | F37P6-12 | F37P8-12 |
| 13 | 1.5518 | 1.522 | F37P4-13 | F37P6-13 | F37P8-13 |
| 14 | 1.6711 | 1.642 | F37P4-14 | F37P6-14 | F37P8-14 |
| 15 | 1.7905 | 1.761 | F37P4-15 | F37P6-15 | F37P8-15 |
| 16 | 1.9099 | 1.880 | F37P4-16 | F37P6-16 | F37P8-16 |
| 17 | 2.0292 | 2.000 | F37P4-17 | F37P6-17 | F37P8-17 |
| 18 | 2.1486 | 2.119 | F37P4-18 | F37P6-18 | F37P8-18 |
| 19 | 2.2680 | 2.239 | F37P4-19 | F37P6-19 | F37P8-19 |
| 20 | 2.3873 | 2.358 | F37P4-20 | F37P6-20 | F37P8-20 |
| 21 | 2.5067 | 2.477 | F37P4-21 | F37P6-21 | F37P8-21 |
| 22 | 2.6261 | 2.597 | F37P4-22 | F37P6-22 | F37P8-22 |
| 24 | 2.8648 | 2.835 | F37P4-24 | F37P6-24 | F37P8-24 |
| 26 | 3.1035 | 3.074 | F37P4-26 | F37P6-26 | F37P8-26 |
| 28 | 3.3422 | 3.313 | F37P4-28 | F37P6-28 | F37P8-28 |
| 30 | 3.5810 | 3.552 | F37P4-30 | F37P6-30 | F37P8-30 |
| 32 | 3.8197 | 3.790 | F37P4-32 | F37P6-32 | F37P8-32 |
| 36 | 4.2972 | 4.268 | F37P4-36 | F37P6-36 | F37P8-36 |

* Recommended for use as an idler only

Note:

Other Size Bores Available, Consult Factory.

For unlisted number of teeth, specify the number of teeth desired as the last digits in the part number.

E*P*S* SYNCHRONOUS TIMING BELTS

Synchronous timing belts provide an economic means of positive power transmission. They are basically flat belts with teeth on the inside circumference resulting in high efficiencies and the capability to carry heavy loads at high speeds. The belts will maintain the relative rotational positions (timing) of pulleys. Required clearance between belt and pulley teeth (.003-.012) can result in a slight backlash.

E*P*S* synchronous timing belts are available in two materials, neoprene and urethane. Neoprene belts are faced with a nylon wear surface and reinforced with fiberglass cord. Urethane belts are reinforced with polyester cord.

PIC urethane belts' high abrasion resistance allows operation in applications where the carbon black dusting encountered with other belts cannot be tolerated. The polyester cord provides shock absorption and some vibration damping capability. This belt is well suited for high speed operation with small pulleys due to its high flexibility.

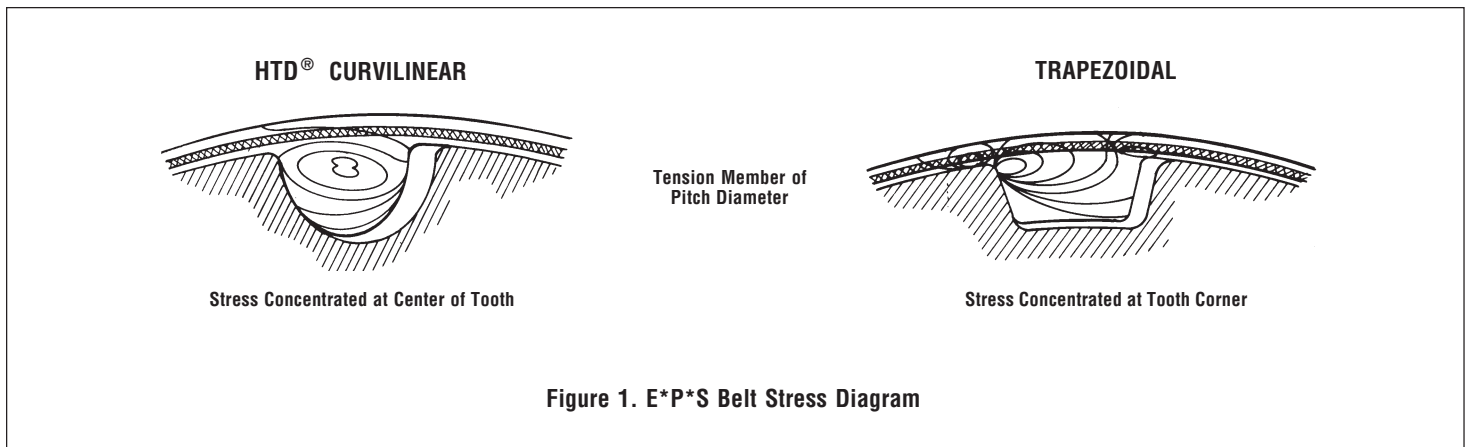
Neoprene belts offer greater load carrying capabilities. The high modulus fiberglass reinforcement allows operation without periodic retensioning.

E*P*S* belts are available from PIC with two tooth forms, the usual trapezoidal form and the New, High Efficiency, HTD® Form. The HTD® belt employs a curvilinear tooth which is deeper than the trapezoidal tooth, offering the following advantages:

- Substantial belt size reductions for comparable loads. HTD® belts will carry 120% to 200% more horsepower than equivalent trapezoidal tooth belts.
- Speed ratios to 20:1.
- Up to 5.5 hp at speeds to 24000 rpm.
- Energy efficient replacement for "V" belt systems.
- Cost savings; narrower belts will handle larger loads.

HTD® belts should be considered for new designs and as cost saving replacements to solve existing problems. The stress diagram below (Figure 1) illustrates the increased load carrying ability of HTD® curvilinear form vs. the trapezoidal form.

The Design Guide for E*P*S* HTD® and E*P*S* drive systems will enable you to select the appropriate timing belts for your particular application.



Design Guide for E*P*S* HTD® E*P*S* Drive Systems

| Belt Type | Tooth Form | HTD Curvilinear | | | | Trapezoidal | | | |
|---|------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | Pitch | 3 mm | 5 mm | .080 | .080 | .0816 | 1/5 | 1/5 | 3/8 |
| | Material | Neoprene | Neoprene | Neoprene | Urethane | Urethane | Neoprene | Urethane | Neoprene |
| Catalog Series | | EPS-F-N | EPS-G-N | EPS-A-N | EPS-A-U | EPS-C-U | EPS-D-N | EPS-D-U | EPS-J-N |
| Operating Temperature (°F) | | -30 to +185 | -30 to +185 | -30 to +185 | -30 to +180 | -30 to +180 | -30 to +185 | -30 to +180 | -30 to +185 |
| Positioning Capability | | Limited | Limited | Good | Good | Good | Good | Good | Good |
| Recommended Minimum Pitch Dia. (In.) | | .38 | .75 | .25 | .25 | .25 | .64 | .64 | 1.19 |
| Pulley Minimum No. of Teeth | | 10 | 12 | 10 | 10 | 10 | 10 | 10 | 10 |
| Recommended Maximum Speed (RPM) | | 24,000 | 14,000 | 20,000 | 20,000 | 20,000 | 10,000 | 10,000 | 6,000 |
| Recommended Minimum Teeth in Mesh | | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 |
| Recommended Maximum Working Tension (Lb./In. Width) | | 60 | 100 | 32 | 21 | 21 | 41 | 27 | 55 |

E*P*S DRIVER SYSTEM SELECTION PROCEDURE

In order to select the correct drive system for your application, the following procedure is recommended:

1. Determine the design horsepower (Dhp).
 $Dhp = \text{rated hp} \times SF$
 Service factors (SF) of 1.5 to 2.0 are recommended for miniature timing belts. In drive systems which require a high degree of dependability or have high stock loads, higher service factors are recommended.
2. Belt pitch and pulley selection
 - a. Using the E*P*S drive belt selection chart, select the pitch belt which has the Dhp capacity at the smaller pulley speed.
 - b. The Speed Ratio is determined by dividing the larger speed, pulley pitch diameter or groove number by the lesser speed, pulley pitch diameter or groove number.
 - c. To select the proper pulley, refer to pulley dimensions listed with corresponding pitch.
 - d. The pitch line velocity of the smaller pulley should not exceed 6500 FPM.
 $PLV = .262 \times \text{Pulley PD (in.)} \times \text{Pulley RPM}$

3. To determine the proper belt length at nominal center distance, use the following formula:

$$L = 2C + \frac{(D-d)^2}{4C} + 1.57(D+d)$$

Where L = Belt Pitch Length
 C = Center Distance
 D = Pitch Diameter Large Pulley (inches)
 d = Pitch Diameter Small Pulley (inches)

$$L_{\text{EXACT}} = 2C \cos \phi + \frac{\pi(D+d)}{2} + \frac{\pi \phi(D-d)}{180}$$

Where $\phi = \sin^{-1} \left(\frac{D-d}{2C} \right)$

4. To determine the center distance in inches when belt length and pulleys are known.

$$C_{\text{APPROX}} = \frac{K + \sqrt{K^2 - 32(D-d)^2}}{16}$$

Where $K = 4L - 6.28(D+d)$

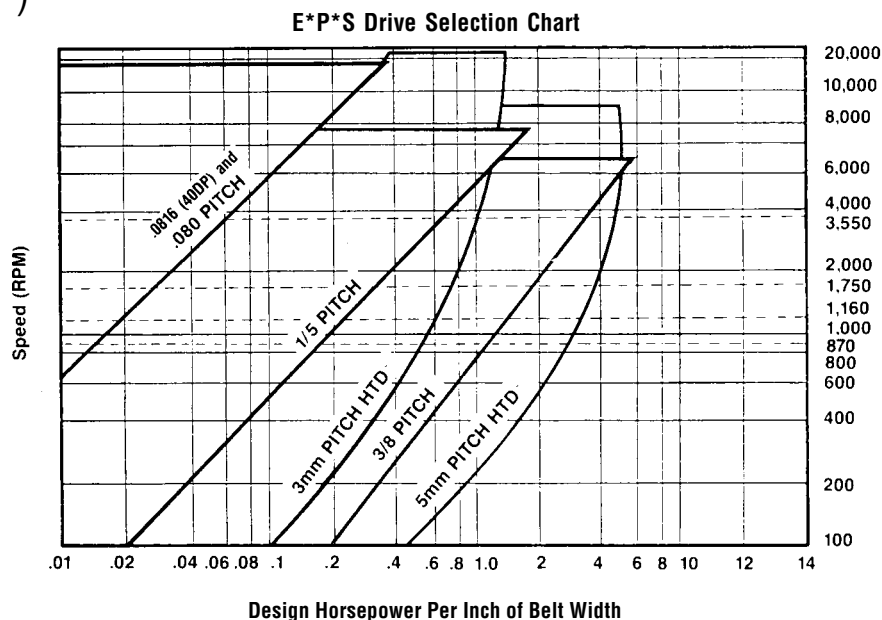
Other useful formulas:

$$HP = \frac{\text{Torque (in-lbs.)} \times \text{RPM}}{63025}$$

$$\text{Belt Speed fpm} = \text{Pitch Diameter} \times \text{RPM} \times .262$$

NOTE: If the number of teeth in mesh on the smaller pulley is less than 6, correct the design hp by the following factors:

| Teeth in Mesh | Design HP Multiplication Factor |
|---------------|---------------------------------|
| 5 | 1.2 |
| 4 | 1.5 |
| 3 | 2.0 |
| 2 | Suggest Alternative Drive |
| 1 | Suggest Alternative Drive |



E*P*S TIMING BELTS

Special Length Timing Belts (Molds Available)

.080 Pitch

| Pitch Length | No. of Teeth | Pitch Length | No. of Teeth | Pitch Length | No. of Teeth | Pitch Length | No. of Teeth |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 3.36 | 42 | 6.64 | 83 | 8.40 | 105 | 19.84 | 248 |
| 4.32 | 54 | 7.04 | 88 | 8.48 | 106 | 19.92 | 249 |
| 4.48 | 56 | 7.36 | 92 | 9.12 | 122 | 20.08 | 251 |
| 4.72 | 59 | 7.44 | 93 | 9.84 | 123 | 20.48 | 256 |
| 4.88 | 61 | 7.52 | 94 | 10.08 | 126 | 27.76 | 347 |
| 5.12 | 64 | 7.60 | 95 | 10.56 | 132 | 29.76 | 372 |
| 5.36 | 67 | 7.76 | 97 | 11.52 | 144 | 34.72 | 434 |
| 5.44 | 68 | 8.16 | 102 | 12.24 | 153 | 36.24 | 453 |
| 5.68 | 71 | 8.24 | 103 | 14.40 | 180 | 39.84 | 498 |
| 6.32 | 79 | | | 14.72 | 184 | 42.56 | 532 |
| 6.56 | 82 | | | 16.64 | 208 | | |

.0816 Pitch

| Pitch Length | No. of Teeth | Pitch Length | No. of Teeth | Pitch Length | No. of Teeth | Pitch Length | No. of Teeth |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 2.44 | 30 | 7.83 | 96 | 13.30 | 163 | 21.62 | 265 |
| 2.85 | 35 | 7.91 | 97 | 13.46 | 165 | 22.03 | 270 |
| 3.26 | 40 | 8.56 | 105 | 13.87 | 170 | 22.84 | 280 |
| 3.67 | 45 | 8.89 | 109 | 14.28 | 175 | 23.25 | 285 |
| 4.08 | 50 | 9.38 | 115 | 15.09 | 185 | 23.66 | 290 |
| 4.24 | 52 | 10.20 | 125 | 15.50 | 190 | 25.29 | 310 |
| 4.32 | 53 | 10.68 | 131 | 15.91 | 195 | 26.11 | 320 |
| 4.56 | 56 | 10.77 | 132 | 16.32 | 200 | 26.92 | 330 |
| 4.73 | 58 | 11.01 | 135 | 16.72 | 205 | 28.56 | 350 |
| 5.22 | 64 | 11.42 | 140 | 17.54 | 215 | 29.37 | 360 |
| 5.46 | 67 | 11.83 | 145 | 17.95 | 220 | 20.19 | 370 |
| 5.71 | 70 | 11.99 | 147 | 18.36 | 225 | 31.00 | 380 |
| 5.95 | 73 | 12.24 | 150 | 19.58 | 240 | 31.82 | 390 |
| 6.03 | 74 | 12.32 | 151 | 20.40 | 250 | 32.64 | 400 |
| 6.28 | 77 | 12.40 | 152 | 20.56 | 252 | 34.84 | 427 |
| 6.36 | 78 | 12.64 | 155 | 20.80 | 255 | 43.65 | 535 |
| 7.67 | 94 | 12.97 | 159 | 21.21 | 260 | | |

1/5 (.200) Pitch

| Pitch Length | No. of Teeth | Pitch Length | No. of Teeth | Pitch Length | No. of Teeth | Pitch Length | No. of Teeth | Pitch Length | No. of Teeth | Pitch Length | No. of Teeth |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 4.20 | 21 | 10.80 | 54 | 16.20 | 81 | 21.80 | 109 | 31.00 | 155 | 44.40 | 222 |
| 5.40 | 27 | 11.20 | 56 | 16.40 | 82 | 22.20 | 111 | 31.60 | 158 | 45.00 | 225 |
| 5.80 | 29 | 11.60 | 58 | 16.60 | 83 | 22.60 | 113 | 32.20 | 161 | 45.40 | 227 |
| 6.20 | 31 | 11.80 | 59 | 16.80 | 84 | 22.80 | 114 | 33.80 | 169 | 46.00 | 230 |
| 6.40 | 32 | 12.20 | 61 | 17.20 | 86 | 23.20 | 116 | 34.00 | 170 | 46.80 | 234 |
| 6.60 | 33 | 12.40 | 62 | 17.40 | 87 | 23.40 | 117 | 34.40 | 172 | 48.00 | 240 |
| 6.80 | 34 | 12.60 | 63 | 17.60 | 88 | 23.60 | 118 | 34.80 | 174 | 49.20 | 246 |
| 7.20 | 36 | 12.80 | 64 | 17.80 | 89 | 24.20 | 121 | 35.00 | 175 | 49.80 | 249 |
| 7.40 | 37 | 13.20 | 66 | 18.20 | 91 | 24.40 | 122 | 35.20 | 176 | 50.00 | 250 |
| 7.60 | 38 | 13.40 | 67 | 18.40 | 92 | 24.60 | 123 | 36.20 | 181 | 50.60 | 253 |
| 7.80 | 39 | 13.60 | 68 | 18.60 | 93 | 25.40 | 127 | 37.00 | 185 | 52.40 | 262 |
| 8.20 | 41 | 13.80 | 69 | 18.80 | 94 | 25.80 | 129 | 38.00 | 190 | 55.40 | 277 |
| 8.40 | 42 | 14.20 | 71 | 19.20 | 96 | 26.20 | 131 | 38.40 | 192 | 57.00 | 285 |
| 8.60 | 43 | 14.40 | 72 | 19.40 | 97 | 26.40 | 132 | 39.00 | 195 | 58.00 | 290 |
| 9.20 | 46 | 14.60 | 73 | 19.60 | 98 | 26.60 | 133 | 40.00 | 200 | 59.20 | 296 |
| 9.40 | 47 | 14.80 | 74 | 20.20 | 101 | 26.80 | 134 | 41.20 | 206 | 63.00 | 315 |
| 9.60 | 48 | 15.20 | 76 | 20.40 | 102 | 27.40 | 137 | 42.00 | 210 | 67.20 | 336 |
| 9.80 | 49 | 15.40 | 77 | 20.60 | 103 | 28.60 | 143 | 42.40 | 212 | 77.00 | 385 |
| 10.20 | 51 | 15.60 | 78 | 21.20 | 106 | 29.60 | 148 | 43.20 | 216 | 85.00 | 425 |
| 10.60 | 53 | 15.80 | 79 | 21.40 | 107 | 30.60 | 153 | 43.80 | 219 | | |

3/8 (.375) Pitch

| Pitch Length | No. of Teeth | Pitch Length | No. of Teeth |
|--------------|--------------|--------------|--------------|
| 48.000 | 128 | 66.000 | 176 |
| 51.000 | 136 | 81.750 | 218 |
| 54.000 | 144 | 90.000 | 240 |
| 60.000 | 160 | | |

3 mm HTD® Pitch

| Pitch Length | No. of Teeth | Pitch Length | No. of Teeth |
|--------------|--------------|--------------|--------------|
| 5.67 | 48 | 13.11 | 111 |
| 5.79 | 49 | 14.06 | 119 |
| 7.09 | 60 | 18.90 | 160 |
| 7.68 | 65 | 19.25 | 163 |
| 8.03 | 68 | 22.68 | 192 |
| 8.15 | 69 | 23.62 | 200 |
| 8.27 | 70 | 37.20 | 315 |
| 10.87 | 92 | 41.81 | 354 |
| 11.34 | 96 | 44.29 | 375 |
| 11.46 | 97 | 49.72 | 421 |
| 11.69 | 99 | | |

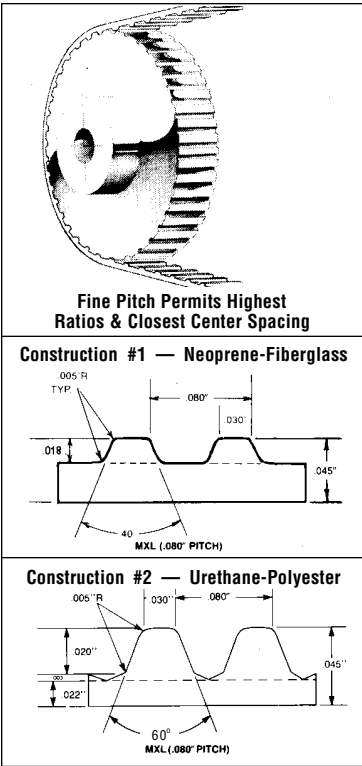
5 mm HTD® Pitch

| Pitch Length | No. of Teeth | Pitch Length | No. of Teeth |
|--------------|--------------|--------------|--------------|
| 36.42 | 185 | 70.47 | 358 |
| 41.34 | 210 | 70.87 | 360 |
| 44.29 | 225 | 74.61 | 379 |
| 50.00 | 254 | 78.74 | 400 |
| 55.91 | 284 | 99.41 | 505 |
| 62.80 | 319 | | |

E*P*S TIMING BELTS

.080 Pitch, 1/8", 3/16", 1/4" Wide For Economy ■ Power ■ Speed

MXL



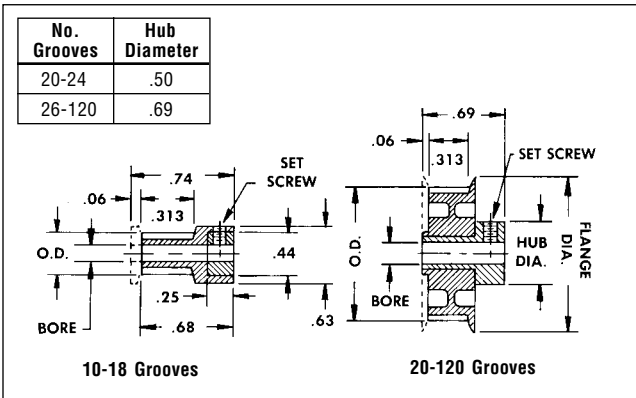
| Pitch Length | No. of Grooves | Neoprene Belts | | | Urethane Belts* | | |
|--------------|----------------|--------------------------|---------------------------|--------------------------|--------------------------|---------------------------|--------------------------|
| | | 1/8" Wide Belts Part No. | 3/16" Wide Belts Part No. | 1/4" Wide Belts Part No. | 1/8" Wide Belts Part No. | 3/16" Wide Belts Part No. | 1/4" Wide Belts Part No. |
| 3.60 | 45 | EPS0045A125N | EPS0045A187N | EPS0045A250N | EPS0045A125U | EPS0045A187U | EPS0045A250U |
| 4.00 | 50 | EPS0050A125N | EPS0050A187N | EPS0050A250N | EPS0050A125U | EPS0050A187U | EPS0050A250U |
| 4.40 | 55 | EPS0055A125N | EPS0055A187N | EPS0055A250N | EPS0055A125U | EPS0055A187U | EPS0055A250U |
| 4.80 | 60 | EPS0060A125N | EPS0060A187N | EPS0060A250N | EPS0060A125U | EPS0060A187U | EPS0060A250U |
| 5.60 | 70 | EPS0070A125N | EPS0070A187N | EPS0070A250N | EPS0070A125U | EPS0070A187U | EPS0070A250U |
| 6.40 | 80 | EPS0080A125N | EPS0080A187N | EPS0080A250N | EPS0080A125U | EPS0080A187U | EPS0080A250U |
| 6.80 | 85 | EPS0085A125N | EPS0085A187N | EPS0085A250N | — | — | — |
| 7.20 | 90 | EPS0090A125N | EPS0090A187N | EPS0090A250N | EPS0090A125U | EPS0090A187U | EPS0090A250U |
| 7.60 | 95 | EPS0095A125N | EPS0095A187N | EPS0095A250N | EPS0095A125U | EPS0095A187U | EPS0095A250U |
| 8.00 | 100 | EPS0100A125N | EPS0100A187N | EPS0100A250N | EPS0100A125U | EPS0100A187U | EPS0100A250U |
| 8.80 | 110 | EPS0110A125N | EPS0110A187N | EPS0110A250N | EPS0110A125U | EPS0110A187U | EPS0110A250U |
| 9.60 | 120 | EPS0120A125N | EPS0120A187N | EPS0120A250N | EPS0120A125U | EPS0120A187U | EPS0120A250U |
| 10.40 | 130 | EPS0130A125N | EPS0130A187N | EPS0130A250N | — | — | — |
| 11.20 | 140 | EPS0140A125N | EPS0140A187N | EPS0140A250N | EPS0140A125U | EPS0140A187U | EPS0140A250U |
| 12.00 | 150 | EPS0150A125N | EPS0150A187N | EPS0150A250N | EPS0150A125U | EPS0150A187U | EPS0150A250U |
| 13.20 | 165 | EPS0165A125N | EPS0165A187N | EPS0165A250N | EPS0165A125U | EPS0165A187U | EPS0165A250U |
| 14.00 | 175 | EPS0175A125N | EPS0175A187N | EPS0175A250N | EPS0175A125U | EPS0175A187U | EPS0175A250U |
| 15.20 | 190 | EPS0190A125N | EPS0190A187N | EPS0190A250N | EPS0190A125U | EPS0190A187U | EPS0190A250U |
| 16.00 | 200 | EPS0200A125N | EPS0200A187N | EPS0200A250N | EPS0200A125U | EPS0200A187U | EPS0200A250U |
| 16.80 | 210 | EPS0210A125N | EPS0210A187N | EPS0210A250N | EPS0210A125U | EPS0210A187U | EPS0210A250U |
| 18.00 | 225 | EPS0225A125N | EPS0225A187N | EPS0225A250N | EPS0225A125U | EPS0225A187U | EPS0225A250U |
| 20.00 | 250 | EPS0250A125N | EPS0250A187N | EPS0250A250N | — | — | — |
| 20.80 | 260 | EPS0260A125N | EPS0260A187N | EPS0260A250N | EPS0260A125U | EPS0260A187U | EPS0260A250U |
| 23.60 | 295 | EPS0295A125N | EPS0295A187N | EPS0295A250N | EPS0295A125U | EPS0295A187U | EPS0295A250U |
| 24.00 | 300 | EPS0300A125N | EPS0300A187N | EPS0300A250N | EPS0300A125U | EPS0300A187U | EPS0300A250U |
| 32.00 | 400 | EPS0400A125N | EPS0400A187N | EPS0400A250N | EPS0400A125U | EPS0400A187U | EPS0400A250U |

*For Urethane belts with Kevlar tensile member, add "K" to end of part number.

E*P*S TIMING PULLEYS

.080 Pitch, Molded, With Metal Hub or Sleeve. 1/8", to 1/4" Belt Width

MXL



| Pulley Data | | | | | Single Flange | Double Flange |
|----------------|------------|--------------|------------------|---------------------|---------------|---------------|
| No. of Grooves | Pitch Dia. | Outside Dia. | Flange Dia. ±.03 | Bore ±.0015 - .0000 | Part Number | Part Number |
| 10* | .255 | .235 | .63 | .125 | PT010A04K04S | PT010A04K04T |
| 12* | .306 | .286 | .63 | .125 | PT012A04K04S | PT012A04K04T |
| 14* | .357 | .337 | .63 | .125 | PT014A04K04S | PT014A04K04T |
| 15* | .382 | .362 | .63 | .187 | PT015A06K04S | PT015A06K04T |
| 16* | .407 | .387 | .63 | .250 | PT016A08K04S | PT016A08K04T |
| 18* | .458 | .438 | .63 | .250 | PT018A08K04S | PT018A08K04T |
| 20 | .509 | .489 | .68 | .187 | PT020A06K04S | PT020A06K04T |
| 21 | .535 | .515 | .70 | .187 | PT021A06K04S | PT021A06K04T |
| 22 | .560 | .540 | .73 | .187 | PT022A06K04S | PT022A06K04T |
| 24 | .611 | .591 | .78 | .187 | PT024A06K04S | PT024A06K04T |
| 26 | .662 | .642 | .83 | .250 | PT026A08K04S | PT026A08K04T |
| 28 | .713 | .693 | .88 | .250 | PT028A08K04S | PT028A08K04T |
| 30 | .764 | .744 | .93 | .250 | PT030A08K04S | PT030A08K04T |
| 32 | .815 | .795 | .98 | .250 | PT032A08K04S | PT032A08K04T |
| 34 | .866 | .846 | 1.04 | .250 | PT034A08K04S | PT034A08K04T |
| 36 | .917 | .897 | 1.09 | .250 | PT036A08K04S | PT036A08K04T |
| 38 | .968 | .948 | 1.14 | .250 | PT038A08K04S | PT038A08K04T |
| 40 | 1.019 | .999 | 1.19 | .250 | PT040A08K04S | PT040A08K04T |
| 42 | 1.070 | 1.050 | 1.24 | .250 | PT042A08K04S | PT042A08K04T |
| 44 | 1.120 | 1.100 | 1.29 | .250 | PT044A08K04S | PT044A08K04T |
| 46 | 1.171 | 1.151 | 1.34 | .250 | PT046A08K04S | PT046A08K04T |
| 48 | 1.222 | 1.202 | 1.39 | .250 | PT048A08K04S | PT048A08K04T |
| 50 | 1.273 | 1.253 | 1.44 | .250 | PT050A08K04S | PT050A08K04T |
| 51 | 1.299 | 1.279 | 1.48 | .250 | PT051A08K04S | PT051A08K04T |
| 60 | 1.528 | 1.508 | 1.70 | .250 | PT060A08K04S | PT060A08K04T |
| 70 | 1.783 | 1.763 | 1.95 | .313 | PT070A10K04S | PT070A10K04T |
| 72 | 1.833 | 1.813 | 2.00 | .313 | PT072A10K04S | PT072A10K04T |
| 80 | 2.037 | 2.017 | 2.21 | .313 | PT080A10K04S | PT080A10K04T |
| 90 | 2.292 | 2.272 | 2.46 | .313 | PT090A10K04S | PT090A10K04T |
| 100 | 2.546 | 2.526 | 2.71 | .313 | PT100A10K04S | PT100A10K04T |
| 110 | 2.801 | 2.781 | 2.97 | .313 | PT110A10K04S | PT110A10K04T |
| 120 | 3.056 | 3.036 | 3.22 | .313 | PT120A10K04S | PT120A10K04T |

Material: Glass Filled Polycarbonate. Hub: Aluminum.

Material*: Acetal, Black

*Special materials, bores, hub styles, sizes, etc., consult factory.

| Bore | Set Screw | O.D. Tolerance | |
|------|-----------|----------------|------------------|
| | | No. Grooves | + Tol |
| .125 | #4-40 | 10-24 | + .003 - .001 |
| .187 | #6-32 | 25-70 | + .004 - .001 |
| .250 | #8-32 | 71-120 | + .005 - .001 |
| .313 | #10-32 | | |

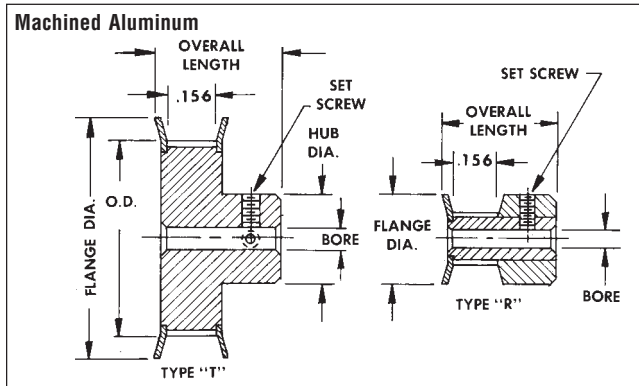
Phone: 800-243-6125 ■ FAX: 203-758-8271

E-Mail: info@pic-design.com

E*P*S TIMING PULLEYS

MXL

.080 Pitch, 1/8" Belt Width, Double Flange



Material: Aluminum Alloy, Anodized.

| Bore | Set Screw | Quantity |
|------|-----------|----------|
| .125 | #4-40 | 1 |
| .188 | #4-40 | 2* |
| .250 | #6-40 | 2 |

| O.D. Tolerance | |
|----------------|--------|
| O.D. | Tol |
| Thru 1.000 | +0.002 |
| 1.001-2.000 | +0.003 |
| 2.001-4.000 | +0.004 |

* 15 & 16 grooves, one set screw.

| No. of Grooves | Type | Pitch Diameter | Outside Diameter | Flange Diameter ±.016 | Overall Length ±.016 | Hub Diameter ±.016 | Bore +.001 -.000 | Part Number |
|----------------|------|----------------|------------------|-----------------------|----------------------|--------------------|------------------|--------------|
| 10 | R | .255 | .235 | .425 | .436 | .425 | .125 | PT010A04L02R |
| 11 | R | .280 | .260 | .450 | .436 | .450 | .125 | PT011A04L02R |
| 12 | R | .306 | .286 | .480 | .436 | .480 | .125 | PT012A04L02R |
| 14 | R | .357 | .337 | .530 | .436 | .530 | .125 | PT014A04L02R |
| 15 | R | .382 | .362 | .555 | .436 | .555 | .188 | PT015A06L02R |
| 16 | R | .407 | .387 | .580 | .436 | .580 | .188 | PT016A06L02R |
| 18 | T* | .458 | .438 | .635 | .484 | .312 | .188 | PT018A06L02T |
| 20 | T* | .509 | .486 | .685 | .484 | .364 | .188 | PT020A06L02T |
| 21 | T* | .535 | .515 | .710 | .484 | .390 | .188 | PT021A06L02T |
| 22 | T* | .560 | .540 | .740 | .484 | .390 | .188 | PT022A06L02T |
| 24 | T | .611 | .591 | .790 | .515 | .442 | .250 | PT024A08L02T |
| 28 | T | .713 | .693 | .895 | .515 | .494 | .250 | PT028A08L02T |
| 30 | T | .764 | .744 | .945 | .515 | .546 | .250 | PT030A08L02T |
| 32 | T | .815 | .795 | 1.000 | .515 | .598 | .250 | PT032A08L02T |
| 36 | T | .917 | .897 | 1.105 | .515 | .676 | .250 | PT036A08L02T |
| 40 | T | 1.019 | .999 | 1.210 | .531 | .754 | .250 | PT040A08L02T |
| 42 | T | 1.070 | 1.050 | 1.260 | .531 | .806 | .250 | PT042A08L02T |
| 44 | T | 1.120 | 1.100 | 1.315 | .531 | .858 | .250 | PT044A08L02T |
| 48 | T | 1.222 | 1.202 | 1.412 | .531 | .936 | .250 | PT048A08L02T |
| 60 | T | 1.528 | 1.508 | 1.730 | .531 | 1.222 | .250 | PT060A08L02T |

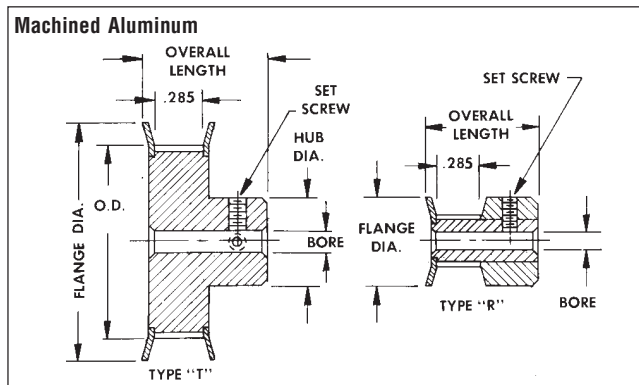
Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

* Type "R" hub style available, consult factory.

E*P*S TIMING PULLEYS

MXL

.080 Pitch, 1/4" Belt Width, Double Flange



Material: Aluminum Alloy, Anodized.

| Bore | Set Screw | Quantity |
|---------------|-----------|----------|
| .125 | #4-40 | 1 |
| .188 (15-16G) | #6-40 | 1 |
| .188 | #6-40 | 2 |
| .250 (24-28G) | #6-40 | 2 |
| .250 | #8-32 | 2 |
| .312 | #8-32 | 2 |
| .375 | #10-32 | 2 |

| O.D. Tolerance | |
|----------------|--------|
| O.D. | Tol |
| Thru 1.000 | +0.002 |
| 1.001-2.000 | +0.003 |
| 2.001-4.000 | +0.004 |

| No. of Grooves | Type | Pitch Diameter | Outside Diameter | Flange Diameter ±.016 | Overall Length ±.016 | Hub Diameter ±.016 | Bore +.001 -.000 | Part Number |
|----------------|------|----------------|------------------|-----------------------|----------------------|--------------------|------------------|--------------|
| 10 | R | .255 | .235 | .425 | .565 | .425 | .125 | PT010A04L04R |
| 11 | R | .280 | .260 | .450 | .565 | .450 | .125 | PT011A04L04R |
| 12 | R | .306 | .286 | .480 | .565 | .480 | .125 | PT012A04L04R |
| 14 | R | .357 | .337 | .530 | .565 | .530 | .125 | PT014A04L04R |
| 15 | R | .382 | .362 | .555 | .565 | .555 | .188 | PT015A06L04R |
| 16 | R | .407 | .387 | .580 | .565 | .580 | .188 | PT016A06L04R |
| 18 | T* | .458 | .438 | .635 | .625 | .312 | .188 | PT018A06L04T |
| 20 | T* | .509 | .486 | .685 | .625 | .364 | .188 | PT020A06L04T |
| 21 | T* | .535 | .515 | .710 | .625 | .390 | .188 | PT021A06L04T |
| 22 | T* | .560 | .540 | .740 | .625 | .390 | .188 | PT022A06L04T |
| 24 | T | .611 | .591 | .790 | .687 | .442 | .250 | PT024A08L04T |
| 28 | T | .713 | .693 | .895 | .687 | .494 | .250 | PT028A08L04T |
| 30 | T | .764 | .744 | .945 | .687 | .546 | .250 | PT030A08L04T |
| 32 | T | .815 | .795 | 1.000 | .687 | .598 | .250 | PT032A08L04T |
| 36 | T | .917 | .897 | 1.105 | .687 | .676 | .250 | PT036A08L04T |
| 40 | T | 1.019 | .999 | 1.210 | .718 | .754 | .250 | PT040A08L04T |
| 42 | T | 1.070 | 1.050 | 1.260 | .718 | .806 | .250 | PT042A08L04T |
| 44 | T | 1.120 | 1.100 | 1.315 | .718 | .858 | .250 | PT044A08L04T |
| 48 | T | 1.222 | 1.202 | 1.412 | .718 | .936 | .250 | PT048A08L04T |
| 60 | T | 1.528 | 1.508 | 1.730 | .718 | 1.222 | .250 | PT060A08L04T |
| 60 | N | 1.528 | 1.508 | — | .750 | 1.148 | .250 | PT060A08L04N |
| 72 | N | 1.833 | 1.813 | — | .750 | 1.195 | .250 | PT072A08L04N |
| 80 | N | 2.037 | 2.017 | — | .750 | 1.500 | .312 | PT080A10L04N |
| 90 | N | 2.292 | 2.272 | — | .750 | 1.500 | .312 | PT090A10L04N |
| 100 | N | 2.546 | 2.526 | — | .750 | 1.500 | .312 | PT100A10L04N |
| 120 | N | 3.056 | 3.036 | — | .750 | 1.500 | .375 | PT120A12L04N |

Special: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

*Type "R" hub style available. Consult factory.

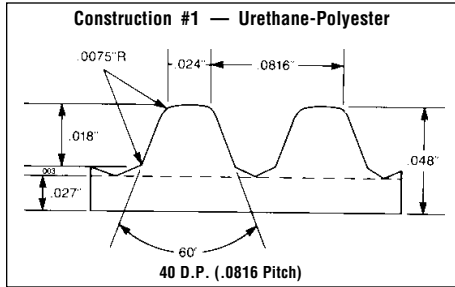
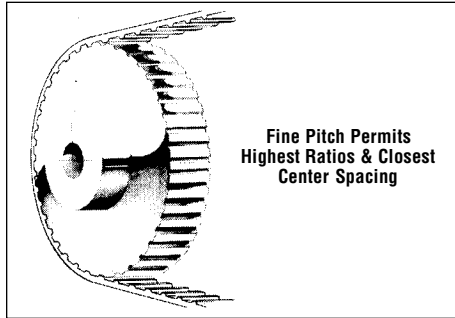
Type "N", no flange.

Phone: 800-243-6125 ■ FAX: 203-758-8271
E-Mail: info@pic-design.com



E*P*S TIMING BELTS

40 D.P. (.0816 Pitch), 1/8", 1/4" Wide For Economy ■ Power ■ Speed ■ Urethane Belts*



| Pitch Length | No. of Grooves | 1/8" Wide Belts Part No. | 1/4" Wide Belts Part No. |
|--------------|----------------|--------------------------|--------------------------|
| 2.693 | 33 | EPS0033C125U | EPS0033C250U |
| 3.590 | 44 | EPS0044C125U | EPS0044C250U |
| 3.917 | 48 | EPS0048C125U | EPS0048C250U |
| 4.162 | 51 | EPS0051C125U | EPS0051C250U |
| 4.488 | 55 | EPS0055C125U | EPS0055C250U |
| 4.651 | 57 | EPS0057C125U | EPS0057C250U |
| 4.896 | 60 | EPS0060C125U | EPS0060C250U |
| 4.978 | 61 | EPS0061C125U | EPS0061C250U |
| 5.304 | 65 | EPS0065C125U | EPS0065C250U |
| 5.630 | 69 | EPS0069C125U | EPS0069C250U |
| 5.875 | 72 | EPS0072C125U | EPS0072C250U |
| 6.120 | 75 | EPS0075C125U | EPS0075C250U |
| 6.202 | 76 | EPS0076C125U | EPS0076C250U |
| 6.528 | 80 | EPS0080C125U | EPS0080C250U |
| 6.610 | 81 | EPS0081C125U | EPS0081C250U |
| 6.854 | 84 | EPS0084C125U | EPS0084C250U |
| 6.936 | 85 | EPS0085C125U | EPS0085C250U |
| 7.262 | 89 | EPS0089C125U | EPS0089C250U |
| 7.344 | 90 | EPS0090C125U | EPS0090C250U |
| 7.752 | 95 | EPS0095C125U | EPS0095C250U |
| 7.997 | 98 | EPS0098C125U | EPS0098C250U |
| 8.160 | 100 | EPS0100C125U | EPS0100C250U |
| 8.323 | 102 | EPS0102C125U | EPS0102C250U |
| 8.976 | 110 | EPS0110C125U | EPS0110C250U |
| 9.466 | 116 | EPS0116C125U | EPS0116C250U |
| 9.629 | 118 | EPS0118C125U | EPS0118C250U |
| 9.710 | 119 | EPS0119C125U | EPS0119C250U |
| 9.792 | 120 | EPS0120C125U | EPS0120C250U |
| 9.955 | 122 | EPS0122C125U | EPS0122C250U |
| 10.037 | 123 | EPS0123C125U | EPS0123C250U |

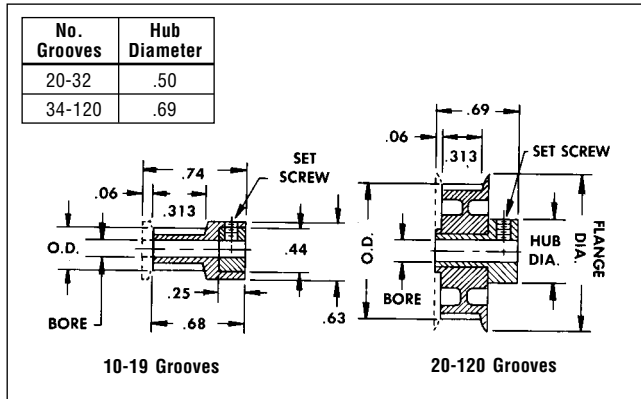
| Pitch Length | No. of Grooves | 1/8" Wide Belts Part No. | 1/4" Wide Belts Part No. |
|--------------|----------------|--------------------------|--------------------------|
| 10.608 | 130 | EPS0130C125U | EPS0130C250U |
| 11.342 | 139 | EPS0139C125U | EPS0139C250U |
| 11.669 | 143 | EPS0143C125U | EPS0143C250U |
| 11.750 | 144 | EPS0144C125U | EPS0144C250U |
| 12.158 | 149 | EPS0149C125U | EPS0149C250U |
| 12.485 | 153 | EPS0153C125U | EPS0153C250U |
| 12.566 | 154 | EPS0154C125U | EPS0154C250U |
| 13.056 | 160 | EPS0160C125U | EPS0160C250U |
| 13.219 | 162 | EPS0162C125U | EPS0162C250U |
| 14.525 | 178 | EPS0178C125U | EPS0178C250U |
| 14.688 | 180 | EPS0180C125U | EPS0180C250U |
| 15.667 | 192 | EPS0192C125U | EPS0192C250U |
| 15.749 | 193 | EPS0193C125U | EPS0193C250U |
| 16.973 | 208 | EPS0208C125U | EPS0208C250U |
| 17.136 | 210 | EPS0210C125U | EPS0210C250U |
| 17.462 | 214 | EPS0214C125U | EPS0214C250U |
| 18.768 | 230 | EPS0230C125U | EPS0230C250U |
| 19.176 | 235 | EPS0235C125U | EPS0235C250U |
| 19.992 | 245 | EPS0245C125U | EPS0245C250U |
| 20.971 | 257 | EPS0257C125U | EPS0257C250U |
| 21.053 | 258 | EPS0258C125U | EPS0258C250U |
| 21.542 | 264 | EPS0264C125U | EPS0264C250U |
| 22.440 | 275 | EPS0275C125U | EPS0275C250U |
| 22.930 | 281 | EPS0281C125U | EPS0281C250U |
| 24.072 | 295 | EPS0295C125U | EPS0295C250U |
| 24.480 | 300 | EPS0300C125U | EPS0300C250U |
| 26.438 | 324 | EPS0324C125U | EPS0324C250U |
| 27.744 | 340 | EPS0340C125U | EPS0340C250U |
| 30.110 | 369 | EPS0369C125U | EPS0369C250U |
| 31.987 | 392 | EPS0392C125U | EPS0392C250U |

* For urethane belts with Kevlar tensile member, add "K" to end of part number.

Note: 3/16" and 5/16" wide belts available on request.

E*P*S TIMING PULLEYS

40 D.P. (.0816 Pitch), Molded, With Metal Hub or Sleeve, 1/8" to 1/4" Belt Width



Material: Glass Filled Polycarbonate. Hub: Aluminum.

Material*: Acetal, Black

*Special materials, bores, hub styles, sizes, etc., consult factory.

| Bore | Set Screw |
|------|-----------|
| .125 | #4-40 |
| .187 | #6-32 |
| .250 | #8-32 |
| .313 | #10-32 |

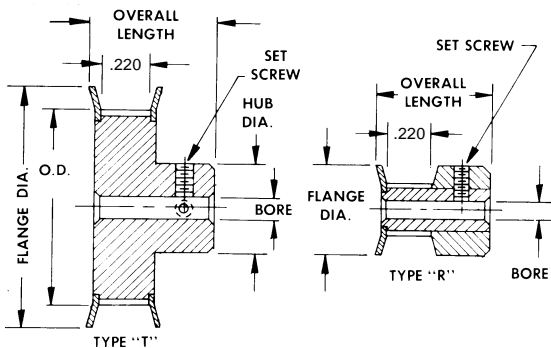
| O.D. Tolerance | |
|----------------|------------------|
| No. Grooves | + Tol |
| 10-24 | + .003 - .001 |
| 25-70 | + .004 - .001 |
| 71-120 | + .005 - .001 |

| Pulley Data | | | | | Single Flange | Double Flange |
|----------------|------------|--------------|------------------|---------------------|---------------|---------------|
| No. of Grooves | Pitch Dia. | Outside Dia. | Flange Dia. ±.03 | Bore ±.0015 - .0000 | Part Number | Part Number |
| 10 | .260 | .246 | .63 | .125 | PT010C04K04S | PT010C04K04T |
| 14 | .364 | .350 | .63 | .125 | PT014C04K04S | PT014C04K04T |
| 15 | .390 | .376 | .63 | .187 | PT015C06K04S | PT015C06K04T |
| 16 | .416 | .402 | .63 | .250 | PT016C08K04S | PT016C08K04T |
| 18 | .468 | .454 | .63 | .250 | PT018C08K04S | PT018C08K04T |
| 19 | .494 | .480 | .63 | .250 | PT019C08K04S | PT019C08K04T |
| 20 | .520 | .506 | .697 | .187 | PT020C06K04S | PT020C06K04T |
| 22 | .572 | .558 | .750 | .187 | PT022C06K04S | PT022C06K04T |
| 24 | .624 | .610 | .800 | .187 | PT024C06K04S | PT024C06K04T |
| 25 | .650 | .636 | .834 | .250 | PT025C08K04S | PT025C08K04T |
| 26 | .676 | .662 | .860 | .250 | PT026C08K04S | PT026C08K04T |
| 28 | .728 | .714 | .905 | .250 | PT028C08K04S | PT028C08K04T |
| 29 | .754 | .740 | .926 | .250 | PT029C08K04S | PT029C08K04T |
| 30 | .780 | .766 | .952 | .250 | PT030C08K04S | PT030C08K04T |
| 32 | .832 | .818 | 1.005 | .250 | PT032C08K04S | PT032C08K04T |
| 34 | .884 | .870 | 1.025 | .250 | PT034C08K04S | PT034C08K04T |
| 36 | .936 | .922 | 1.107 | .250 | PT036C08K04S | PT036C08K04T |
| 38 | .988 | .974 | 1.159 | .250 | PT038C08K04S | PT038C08K04T |
| 40 | 1.040 | 1.026 | 1.212 | .250 | PT040C08K04S | PT040C08K04T |
| 42 | 1.092 | 1.078 | 1.266 | .250 | PT042C08K04S | PT042C08K04T |
| 44 | 1.144 | 1.130 | 1.315 | .250 | PT044C08K04S | PT044C08K04T |
| 46 | 1.196 | 1.182 | 1.370 | .250 | PT046C08K04S | PT046C08K04T |
| 48 | 1.248 | 1.234 | 1.442 | .250 | PT048C08K04S | PT048C08K04T |
| 50 | 1.300 | 1.286 | 1.471 | .250 | PT050C08K04S | PT050C08K04T |
| 51 | 1.326 | 1.312 | 1.497 | .250 | PT051C08K04S | PT051C08K04T |
| 54 | 1.404 | 1.390 | 1.575 | .250 | PT054C08K04S | PT054C08K04T |
| 60 | 1.560 | 1.546 | 1.723 | .250 | PT060C08K04S | PT060C08K04T |
| 64 | 1.664 | 1.650 | 1.824 | .250 | PT064C08K04S | PT064C08K04T |
| 70 | 1.820 | 1.806 | 1.991 | .250 | PT070C08K04S | PT070C08K04T |
| 72 | 1.872 | 1.858 | 2.035 | .313 | PT072C10K04S | PT072C10K04T |
| 75 | 1.950 | 1.936 | 2.121 | .313 | PT075C10K04S | PT075C10K04T |
| 80 | 2.080 | 2.066 | 2.251 | .313 | PT080C10K04S | PT080C10K04T |
| 84 | 2.184 | 2.170 | 2.355 | .313 | PT084C10K04S | PT084C10K04T |
| 90 | 2.340 | 2.326 | 2.511 | .313 | PT090C10K04S | PT090C10K04T |
| 98 | 2.548 | 2.534 | 2.719 | .313 | PT098C10K04S | PT098C10K04T |
| 100 | 2.600 | 2.586 | 2.771 | .313 | PT100C10K04S | PT100C10K04T |
| 102 | 2.652 | 2.638 | 2.823 | .313 | PT102C10K04S | PT102C10K04T |
| 110 | 2.860 | 2.846 | 3.031 | .313 | PT110C10K04S | PT110C10K04T |
| 120 | 3.120 | 3.106 | 3.365 | .313 | PT120C10K04S | PT120C10K04T |

E*P*S TIMING PULLEYS

40 D.P. (.0816 Pitch), 1/8" and 3/16" Belt Width, Double Flange

Machined Aluminum



Material: Aluminum Alloy, Anodized.

| Bore | Set Screw | Quantity |
|------|-----------|----------|
| .125 | #4-40 | 1 |
| .188 | #4-40 | 2* |
| .250 | #6-40 | 2 |

| O.D. Tolerance | |
|----------------|--------|
| O.D. | Tol |
| Thru 1.000 | + .002 |
| 1.001-2.000 | + .003 |
| 2.001-4.000 | + .004 |

* 15 & 16 grooves, one set screw.

| No. of Grooves | Type | Pitch Diameter | Outside Diameter | Flange Diameter ±.016 | Overall Length ±.016 | Hub Diameter ±.016 | Bore +.001 - .000 | Part Number |
|----------------|------|----------------|------------------|-----------------------|----------------------|--------------------|-------------------|--------------|
| 10 | R | .260 | .246 | .425 | .500 | .425 | .125 | PT010C04L02R |
| 11 | R | .286 | .272 | .450 | .500 | .450 | .125 | PT011C04L02R |
| 12 | R | .312 | .298 | .480 | .500 | .480 | .125 | PT012C04L02R |
| 14 | R | .364 | .350 | .530 | .500 | .530 | .125 | PT014C04L02R |
| 15 | R | .390 | .376 | .555 | .500 | .555 | .188 | PT015C06L02R |
| 16 | R | .416 | .402 | .580 | .500 | .580 | .188 | PT016C06L02R |
| 18 | T* | .468 | .454 | .635 | .563 | .312 | .188 | PT018C06L02T |
| 20 | T* | .520 | .506 | .685 | .563 | .364 | .188 | PT020C06L02T |
| 21 | T* | .546 | .532 | .710 | .563 | .390 | .188 | PT021C06L02T |
| 22 | T* | .572 | .558 | .740 | .563 | .390 | .188 | PT022C06L02T |
| 24 | T | .624 | .610 | .790 | .625 | .442 | .250 | PT024C08L02T |
| 28 | T | .728 | .714 | .895 | .625 | .494 | .250 | PT028C08L02T |
| 30 | T | .780 | .766 | .945 | .625 | .546 | .250 | PT030C08L02T |
| 32 | T | .832 | .818 | 1.000 | .625 | .598 | .250 | PT032C08L02T |
| 36 | T | .936 | .922 | 1.105 | .625 | .676 | .250 | PT036C08L02T |
| 40 | T | 1.040 | 1.026 | 1.210 | .656 | .754 | .250 | PT040C08L02T |
| 42 | T | 1.092 | 1.078 | 1.260 | .656 | .806 | .250 | PT042C08L02T |
| 44 | T | 1.144 | 1.130 | 1.315 | .656 | .858 | .250 | PT044C08L02T |
| 48 | T | 1.248 | 1.234 | 1.420 | .656 | .936 | .250 | PT048C08L02T |
| 60 | T | 1.560 | 1.546 | 1.730 | .656 | 1.222 | .250 | PT060C08L02T |

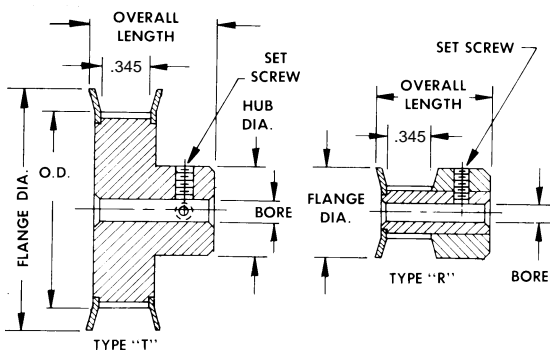
Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

* Type "R" hub style available, consult factory.

E*P*S TIMING PULLEYS

40 D.P. (.0816 Pitch), 1/4" and 5/16" Belt Width, Double Flange

Machined Aluminum



Material: Aluminum Alloy, Anodized.

| Bore | Set Screw | Quantity |
|---------------|-----------|----------|
| .125 | #4-40 | 1 |
| .188 (15-16G) | #6-40 | 1 |
| .188 | #6-40 | 2 |
| .250 (24-28G) | #6-40 | 2 |
| .250 | #8-32 | 2 |
| .312 | #8-32 | 2 |
| .375 | #10-32 | 2 |

| O.D. Tolerance | |
|----------------|--------|
| O.D. | Tol |
| Thru 1.000 | + .002 |
| 1.001-2.000 | + .003 |
| 2.001-4.000 | + .004 |

| No. of Grooves | Type | Pitch Diameter | Outside Diameter | Flange Diameter ±.016 | Overall Length ±.016 | Hub Diameter ±.016 | Bore +.001 - .000 | Part Number |
|----------------|------|----------------|------------------|-----------------------|----------------------|--------------------|-------------------|--------------|
| 10 | R | .260 | .246 | .425 | .625 | .425 | .125 | PT010C04L04R |
| 11 | R | .286 | .272 | .450 | .625 | .450 | .125 | PT011C04L04R |
| 12 | R | .312 | .298 | .480 | .625 | .480 | .125 | PT012C04L04R |
| 14 | R | .364 | .350 | .530 | .625 | .530 | .125 | PT014C04L04R |
| 15 | R | .390 | .376 | .555 | .625 | .555 | .188 | PT015C06L04R |
| 16 | R | .416 | .402 | .580 | .625 | .580 | .188 | PT016C06L04R |
| 18 | T* | .468 | .454 | .635 | .688 | .312 | .188 | PT018C06L04T |
| 20 | T* | .520 | .506 | .685 | .688 | .364 | .188 | PT020C06L04T |
| 21 | T* | .546 | .532 | .710 | .688 | .390 | .188 | PT021C06L04T |
| 22 | T* | .572 | .558 | .740 | .688 | .390 | .188 | PT022C06L04T |
| 24 | T | .624 | .610 | .790 | .750 | .442 | .250 | PT024C08L04T |
| 28 | T | .728 | .714 | .895 | .750 | .494 | .250 | PT028C08L04T |
| 30 | T | .780 | .766 | .945 | .750 | .546 | .250 | PT030C08L04T |
| 32 | T | .832 | .818 | 1.000 | .750 | .598 | .250 | PT032C08L04T |
| 36 | T | .936 | .922 | 1.105 | .750 | .676 | .250 | PT036C08L04T |
| 40 | T | 1.040 | 1.026 | 1.210 | .781 | .754 | .250 | PT040C08L04T |
| 42 | T | 1.092 | 1.078 | 1.260 | .781 | .806 | .250 | PT042C08L04T |
| 44 | T | 1.144 | 1.130 | 1.315 | .781 | .858 | .250 | PT044C08L04T |
| 48 | T | 1.248 | 1.234 | 1.420 | .781 | .936 | .250 | PT048C08L04T |
| 60 | T | 1.560 | 1.546 | 1.730 | .781 | 1.222 | .250 | PT060C08L04T |
| 60 | N | 1.560 | 1.546 | — | .875 | 1.184 | .250 | PT060C08L04N |
| 72 | N | 1.872 | 1.858 | — | .875 | 1.195 | .250 | PT072C08L04N |
| 80 | N | 2.080 | 2.066 | — | .875 | 1.500 | .250 | PT080C08L04N |
| 90 | N | 2.340 | 2.326 | — | .875 | 1.500 | .250 | PT090C08L04N |
| 100 | N | 2.600 | 2.586 | — | .875 | 1.500 | .312 | PT100C10L04N |
| 120 | N | 3.120 | 3.106 | — | .875 | 1.500 | .375 | PT120C12L04N |

Special: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

*Type "R" hub style available. Consult factory. Type "N", no flange.

Note: Pulleys over 60 grooves are without flanges.

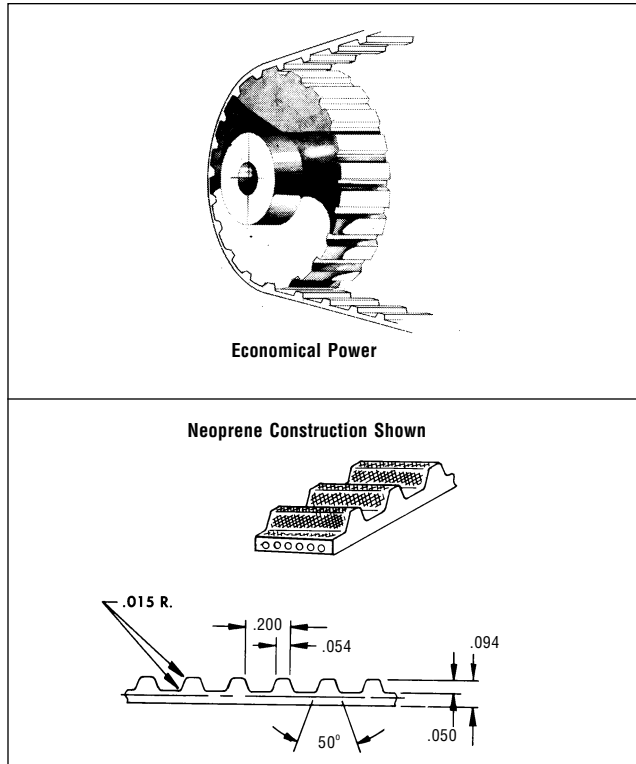
Phone: 800-243-6125 ■ FAX: 203-758-8271
E-Mail: info@pic-design.com

PIC DESIGN®

E*P*S TIMING BELTS

1/5" (.200) Pitch, 1/4", 3/8" Wide For Economy ■ Power ■ Speed

XL



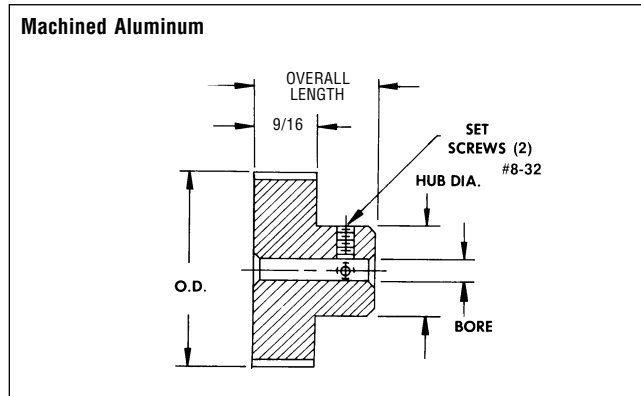
| Pitch Length | No. of Grooves | Neoprene Belts | | Urethane Belts* | |
|--------------|----------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | 1/4" Wide Belts Part No. | 3/8" Wide Belts Part No. | 1/4" Wide Belts Part No. | 3/8" Wide Belts Part No. |
| 5.00 | 25 | EPS0025D250N | EPS0025D375N | — | — |
| 6.00 | 30 | EPS0030D250N | EPS0030D375N | EPS0030D250U | EPS0030D375U |
| 7.00 | 35 | EPS0035D250N | EPS0035D375N | EPS0035D250U | EPS0035D375U |
| 8.00 | 40 | EPS0040D250N | EPS0040D375N | EPS0040D250U | EPS0040D375U |
| 9.00 | 45 | EPS0045D250N | EPS0045D375N | EPS0045D250U | EPS0045D375U |
| 10.00 | 50 | EPS0050D250N | EPS0050D375N | EPS0050D250U | EPS0050D375U |
| 11.00 | 55 | EPS0055D250N | EPS0055D375N | EPS0055D250U | EPS0055D375U |
| 12.00 | 60 | EPS0060D250N | EPS0060D375N | EPS0060D250U | EPS0060D375U |
| 13.00 | 65 | EPS0065D250N | EPS0065D375N | EPS0065D250U | EPS0065D375U |
| 14.00 | 70 | EPS0070D250N | EPS0070D375N | EPS0070D250U | EPS0070D375U |
| 15.00 | 75 | EPS0075D250N | EPS0075D375N | EPS0075D250U | EPS0075D375U |
| 16.00 | 80 | EPS0080D250N | EPS0080D375N | EPS0080D250U | EPS0080D375U |
| 17.00 | 85 | EPS0085D250N | EPS0085D375N | EPS0085D250U | EPS0085D375U |
| 18.00 | 90 | EPS0090D250N | EPS0090D375N | EPS0090D250U | EPS0090D375U |
| 19.00 | 95 | EPS0095D250N | EPS0095D375N | EPS0095D250U | EPS0095D375U |
| 20.00 | 100 | EPS0100D250N | EPS0100D375N | EPS0100D250U | EPS0100D375U |
| 21.00 | 105 | EPS0105D250N | EPS0105D375N | EPS0105D250U | EPS0105D375U |
| 22.00 | 110 | EPS0110D250N | EPS0110D375N | EPS0110D250U | EPS0110D375U |
| 23.00 | 115 | EPS0115D250N | EPS0115D375N | EPS0115D250U | EPS0115D375U |
| 24.00 | 120 | EPS0120D250N | EPS0120D375N | EPS0120D250U | EPS0120D375U |
| 25.00 | 125 | EPS0125D250N | EPS0125D375N | EPS0125D250U | EPS0125D375U |
| 26.00 | 130 | EPS0130D250N | EPS0130D375N | EPS0130D250U | EPS0130D375U |
| 28.00 | 140 | EPS0140D250N | EPS0140D375N | — | — |
| 29.00 | 145 | EPS0145D250N | EPS0145D375N | EPS0145D250U | EPS0145D375U |
| 30.00 | 150 | EPS0150D250N | EPS0150D375N | — | — |
| 31.00 | 155 | EPS0155D250N | EPS0155D375N | — | — |
| 33.00 | 165 | EPS0165D250N | EPS0165D375N | — | — |

*For Urethane belts with Kevlar tensile member, add "K" to end of part number.

E*P*S TIMING PULLEYS

1/5" (.200) Pitch, 3/8" Belt Width, No Flange

XL



Material: Aluminum Alloy, Anodized

| No. of Grooves | Pitch Diameter | Outside Diameter | Overall Length ±.016 | Hub Diameter ±.016 | Standard Bore +.001 - .000 | Standard Bore Part Number |
|----------------|----------------|------------------|----------------------|--------------------|----------------------------|---------------------------|
| 10 | .637 | .617 | .813 | .438 | .188 | PT010D06L06N |
| 11 | .700 | .680 | .813 | .500 | .188 | PT011D06L06N |
| 12 | .764 | .744 | .813 | .563 | .188 | PT012D06L06N |
| 14 | .891 | .871 | .813 | .625 | .250 | PT014D08L06N |
| 15 | .955 | .935 | .875 | .688 | .250 | PT015D08L06N |
| 16 | 1.019 | .999 | .875 | .750 | .250 | PT016D08L06N |
| 17 | 1.082 | 1.062 | .875 | .813 | .250 | PT017D08L06N |
| 18 | 1.146 | 1.126 | .875 | .875 | .250 | PT018D08L06N |
| 19 | 1.210 | 1.190 | .875 | .875 | .250 | PT019D08L06N |
| 20 | 1.273 | 1.253 | .938 | .938 | .250 | PT020D08L06N |
| 21 | 1.337 | 1.317 | .938 | 1.000 | .250 | PT021D08L06N |
| 22 | 1.401 | 1.381 | .938 | 1.063 | .250 | PT022D08L06N |
| 23 | 1.464 | 1.444 | .938 | 1.125 | .250 | PT023D08L06N |
| 24 | 1.528 | 1.508 | .938 | 1.188 | .250 | PT024D08L06N |
| 25 | 1.592 | 1.572 | .938 | 1.250 | .250 | PT025D08L06N |
| 27 | 1.719 | 1.699 | .938 | 1.250 | .313 | PT027D10L06N |
| 28 | 1.783 | 1.763 | .938 | 1.250 | .250 | PT028D08L06N |
| 29 | 1.846 | 1.826 | .938 | 1.313 | .313 | PT029D10L06N |
| 30 | 1.910 | 1.890 | .938 | 1.375 | .250 | PT030D08L06N |
| 32 | 2.037 | 2.017 | 1.000 | 1.500 | .313 | PT032D10L06N |
| 36 | 2.292 | 2.272 | 1.000 | 1.500 | .313 | PT036D10L06N |

| Bore | Set Screw | Quantity |
|------|-----------|----------|
| .188 | #6-40 | 1 |
| .250 | #8-32 | 2 |
| .313 | #8-32 | 2 |

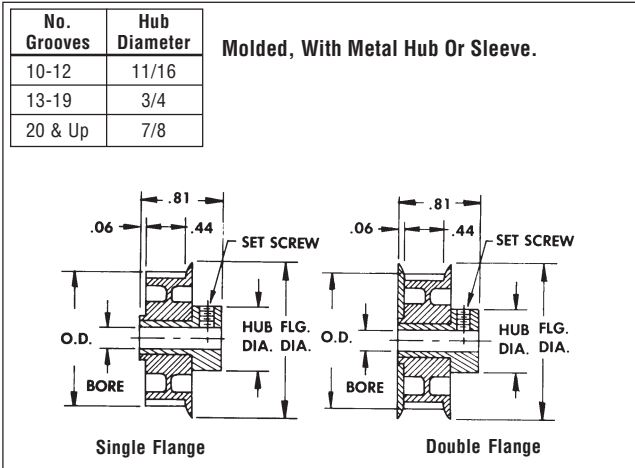
| O.D. Tolerance | |
|----------------|-------|
| O.D. | Tol |
| Thru 1.000 | +.002 |
| 1.001-2.000 | +.003 |
| 2.001-4.000 | +.004 |

Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S TIMING PULLEYS

XL

1/5" (.200) Pitch, 3/8" Belt Width, Single & Double Flange



Material: Glass Filled Polycarbonate.

| Bore | Set Screw |
|------|-----------|
| .187 | #6-32 |
| .250 | #8-32 |
| .313 | #10-32 |

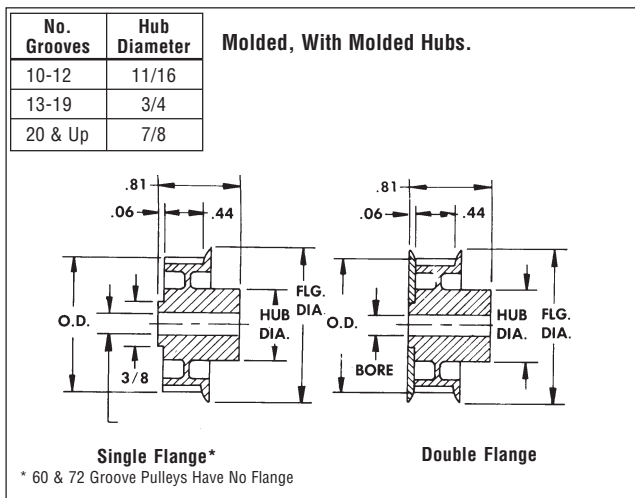
| O.D. Tolerance | |
|----------------|------------------|
| No. Grooves | + Tol |
| 10 - 28 | + .003 - .001 |
| 29 - 58 | + .004 - .001 |
| 60 - 72 | + .005 - .001 |

Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

| Pulley Data | | | | | Single Flange | Double Flange |
|----------------|------------|--------------|-------------------|-----------------------|---------------|---------------|
| No. of Grooves | Pitch Dia. | Outside Dia. | Flange Dia. ±.030 | Bore +.0015 -.0000 | Part Number | Part Number |
| 10 | .637 | .617 | .87 | .187 | PT010D06K06S | PT010D06K06T |
| 11 | .700 | .680 | .93 | .187 | PT011D06K06S | PT011D06K06T |
| 12 | .764 | .744 | .99 | .187 | PT012D06K06S | PT012D06K06T |
| 13 | .828 | .808 | 1.06 | .187 | PT013D06K06S | PT013D06K06T |
| 14 | .891 | .871 | 1.12 | .250 | PT014D08K06S | PT014D08K06T |
| 15 | .955 | .935 | 1.19 | .250 | PT015D08K06S | PT015D08K06T |
| 16 | 1.019 | .999 | 1.24 | .250 | PT016D08K06S | PT016D08K06T |
| 17 | 1.082 | 1.062 | 1.31 | .250 | PT017D08K06S | PT017D08K06T |
| 18 | 1.146 | 1.126 | 1.39 | .250 | PT018D08K06S | PT018D08K06T |
| 19 | 1.210 | 1.190 | 1.44 | .250 | PT019D08K06S | PT019D08K06T |
| 20 | 1.273 | 1.253 | 1.51 | .250 | PT020D08K06S | PT020D08K06T |
| 21 | 1.337 | 1.317 | 1.57 | .250 | PT021D08K06S | PT021D08K06T |
| 22 | 1.401 | 1.381 | 1.63 | .250 | PT022D08K06S | PT022D08K06T |
| 23 | 1.464 | 1.444 | 1.69 | .250 | PT023D08K06S | PT023D08K06T |
| 24 | 1.528 | 1.508 | 1.76 | .250 | PT024D08K06S | PT024D08K06T |
| 25 | 1.592 | 1.572 | 1.82 | .250 | PT025D08K06S | PT025D08K06T |
| 26 | 1.655 | 1.635 | 1.89 | .250 | PT026D08K06S | PT026D08K06T |
| 27 | 1.719 | 1.699 | 1.95 | .250 | PT027D08K06S | PT027D08K06T |
| 28 | 1.783 | 1.763 | 2.02 | .250 | PT028D08K06S | PT028D08K06T |
| 29 | 1.846 | 1.826 | 2.08 | .250 | PT029D08K06S | PT029D08K06T |
| 30 | 1.910 | 1.890 | 2.14 | .313 | PT030D10K06S | PT030D10K06T |
| 31 | 1.974 | 1.954 | 2.20 | .313 | PT031D10K06S | PT031D10K06T |
| 32 | 2.037 | 2.017 | 2.27 | .313 | PT032D10K06S | PT032D10K06T |
| 34 | 2.165 | 2.145 | 2.40 | .313 | PT034D10K06S | PT034D10K06T |
| 35 | 2.228 | 2.208 | 2.46 | .313 | PT035D10K06S | PT035D10K06T |
| 36 | 2.292 | 2.272 | 2.53 | .313 | PT036D10K06S | PT036D10K06T |
| 37 | 2.355 | 2.335 | 2.59 | .313 | PT037D10K06S | PT037D10K06T |
| 39 | 2.482 | 2.462 | 2.71 | .313 | PT039D10K06S | PT039D10K06T |
| 40 | 2.546 | 2.526 | 2.78 | .313 | PT040D10K06S | PT040D10K06T |
| 42 | 2.674 | 2.654 | 2.92 | .313 | PT042D10K06S | PT042D10K06T |
| 44 | 2.801 | 2.781 | 3.04 | .313 | PT044D10K06S | PT044D10K06T |
| 48 | 3.056 | 3.036 | 3.29 | .313 | PT048D10K06S | PT048D10K06T |

XL

1/5" (.200) Pitch, 3/8" Belt Width, Single & Double Flange



Material: Glass Filled Polycarbonate.

| O.D. Tolerance | |
|----------------|--------|
| No. Grooves | + Tol |
| 10 - 28 | + .003 |
| 29 - 58 | + .004 |
| 60 - 72 | + .005 |

Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

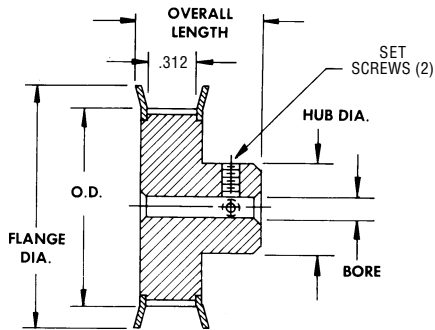
| Pulley Data | | | | | Single Flange | Double Flange |
|----------------|------------|--------------|-------------------|---------------------|---------------|---------------|
| No. of Grooves | Pitch Dia. | Outside Dia. | Flange Dia. ±.030 | Bore +.002 -.000 | Part Number | Part Number |
| 10 | .637 | .617 | .87 | .187 | PT010D06J06S | PT010D06J06T |
| 11 | .700 | .680 | .93 | .187 | PT011D06J06S | PT011D06J06T |
| 12 | .764 | .744 | .99 | .187 | PT012D06J06S | PT012D06J06T |
| 13 | .828 | .808 | 1.06 | .187 | PT013D06J06S | PT013D06J06T |
| 14 | .891 | .871 | 1.12 | .250 | PT014D08J06S | PT014D08J06T |
| 15 | .955 | .935 | 1.19 | .250 | PT015D08J06S | PT015D08J06T |
| 16 | 1.019 | .999 | 1.24 | .250 | PT016D08J06S | PT016D08J06T |
| 17 | 1.082 | 1.062 | 1.31 | .250 | PT017D08J06S | PT017D08J06T |
| 18 | 1.146 | 1.126 | 1.39 | .250 | PT018D08J06S | PT018D08J06T |
| 19 | 1.210 | 1.190 | 1.44 | .250 | PT019D08J06S | PT019D08J06T |
| 20 | 1.273 | 1.253 | 1.51 | .250 | PT020D08J06S | PT020D08J06T |
| 21 | 1.337 | 1.317 | 1.57 | .250 | PT021D08J06S | PT021D08J06T |
| 22 | 1.401 | 1.381 | 1.63 | .250 | PT022D08J06S | PT022D08J06T |
| 23 | 1.464 | 1.444 | 1.69 | .250 | PT023D08J06S | PT023D08J06T |
| 24 | 1.528 | 1.508 | 1.76 | .250 | PT024D08J06S | PT024D08J06T |
| 25 | 1.592 | 1.572 | 1.82 | .250 | PT025D08J06S | PT025D08J06T |
| 26 | 1.655 | 1.635 | 1.89 | .250 | PT026D08J06S | PT026D08J06T |
| 27 | 1.719 | 1.699 | 1.95 | .250 | PT027D08J06S | PT027D08J06T |
| 28 | 1.783 | 1.763 | 2.02 | .250 | PT028D08J06S | PT028D08J06T |
| 29 | 1.846 | 1.826 | 2.08 | .250 | PT029D08J06S | PT029D08J06T |
| 30 | 1.910 | 1.890 | 2.14 | .313 | PT030D10J06S | PT030D10J06T |
| 31 | 1.974 | 1.954 | 2.20 | .313 | PT031D10J06S | PT031D10J06T |
| 32 | 2.037 | 2.017 | 2.27 | .313 | PT032D10J06S | PT032D10J06T |
| 34 | 2.165 | 2.145 | 2.40 | .313 | PT034D10J06S | PT034D10J06T |
| 35 | 2.228 | 2.208 | 2.46 | .313 | PT035D10J06S | PT035D10J06T |
| 36 | 2.292 | 2.272 | 2.53 | .313 | PT036D10J06S | PT036D10J06T |
| 37 | 2.355 | 2.335 | 2.59 | .313 | PT037D10J06S | PT037D10J06T |
| 39 | 2.482 | 2.462 | 2.71 | .313 | PT039D10J06S | PT039D10J06T |
| 40 | 2.546 | 2.526 | 2.78 | .313 | PT040D10J06S | PT040D10J06T |
| 42 | 2.674 | 2.654 | 2.92 | .313 | PT042D10J06S | PT042D10J06T |
| 44 | 2.801 | 2.781 | 3.04 | .313 | PT044D10J06S | PT044D10J06T |
| 48 | 3.056 | 3.036 | 3.29 | .313 | PT048D10J06S | PT048D10J06T |
| 58 | 3.692 | 3.672 | 3.92 | .375 | PT058D12J06S | — |
| 60* | 3.820 | 3.800 | 4.05 | .375 | PT060D12J06N | — |
| 72* | 4.584 | 4.564 | 4.81 | .375 | PT072D12J06N | — |
| 78 | 4.966 | 4.946 | 5.19 | .375 | PT078D12J06S | — |

E*P*S TIMING PULLEYS

1/5" (.200) Pitch, 1/4" Belt Width, Double Flange

XL

Machined Aluminum



Material: Aluminum Alloy, Anodized.

| Bore | Set Screw | Quantity |
|------|-----------|----------|
| .188 | #6-40 | 2 |
| .250 | #8-32 | 2 |

| O.D. Tolerance | |
|----------------|-------|
| O.D. | Tol |
| Thru 1.000 | +.002 |
| 1.001-2.000 | +.003 |
| 2.001-4.000 | +.004 |

| No. of Grooves | Pitch Diameter | Outside Diameter | Flange Diameter ±.016 | Overall Length ±.016 | Hub Diameter ±.016 | Standard Bore +.001 - .000 | Bore Part Number |
|----------------|----------------|------------------|-----------------------|----------------------|--------------------|----------------------------|------------------|
| 10 | .637 | .617 | .875 | .688 | .375 | .188 | PT010D06L04T |
| 11 | .700 | .680 | .938 | .688 | .438 | .188 | PT011D06L04T |
| 12 | .764 | .744 | 1.000 | .688 | .500 | .188 | PT012D06L04T |
| 13 | .828 | .808 | 1.063 | .688 | .563 | .250 | PT013D08L04T |
| 14 | .891 | .871 | 1.095 | .688 | .563 | .250 | PT014D08L04T |
| 15 | .955 | .935 | 1.188 | .688 | .625 | .250 | PT015D08L04T |
| 16 | 1.019 | .999 | 1.250 | .688 | .688 | .250 | PT016D08L04T |
| 18 | 1.146 | 1.126 | 1.375 | .688 | .813 | .250 | PT018D08L04T |
| 20 | 1.273 | 1.253 | 1.500 | .750 | .938 | .250 | PT020D08L04T |
| 21 | 1.337 | 1.317 | 1.563 | .750 | 1.000 | .250 | PT021D08L04T |
| 22 | 1.401 | 1.381 | 1.625 | .750 | 1.000 | .250 | PT022D08L04T |
| 24 | 1.528 | 1.508 | 1.750 | .781 | 1.063 | .250 | PT024D08L04T |
| 26 | 1.655 | 1.635 | 1.875 | .781 | 1.188 | .250 | PT026D08L04T |
| 28 | 1.783 | 1.763 | 2.000 | .781 | 1.188 | .250 | PT028D08L04T |
| 30 | 1.910 | 1.890 | 2.125 | .781 | 1.313 | .250 | PT030D08L04T |

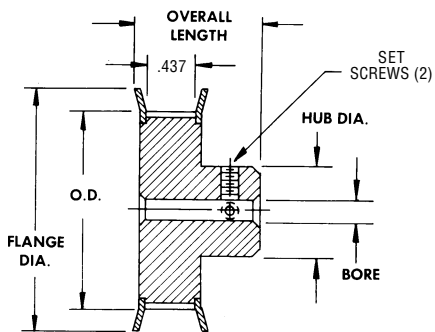
Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S TIMING PULLEYS

1/5" (.200) Pitch, 3/8" Belt Width, Double Flange

XL

Machined Aluminum



Material: Aluminum Alloy, Anodized.

| Bore | Set Screw | Quantity |
|------|-----------|----------|
| .188 | #6-40 | 2 |
| .250 | #8-32 | 2 |
| .313 | #8-32 | 2 |

| O.D. Tolerance | |
|----------------|-------|
| O.D. | Tol |
| Thru 1.000 | +.002 |
| 1.001-2.000 | +.003 |
| 2.001-4.000 | +.004 |

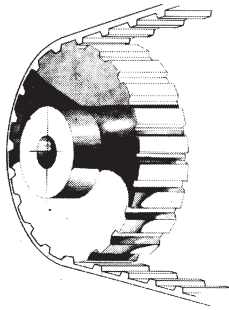
| No. of Grooves | Pitch Diameter | Outside Diameter | Flange Diameter ±.016 | Overall Length ±.016 | Hub Diameter ±.016 | Standard Bore +.001 - .000 | Bore Part Number |
|----------------|----------------|------------------|-----------------------|----------------------|--------------------|----------------------------|------------------|
| 10 | .637 | .617 | .875 | .813 | .438 | .188 | PT010D06L06T |
| 11 | .700 | .680 | .938 | .813 | .500 | .188 | PT011D06L06T |
| 12 | .764 | .744 | 1.000 | .813 | .500 | .188 | PT012D06L06T |
| 13 | .828 | .808 | 1.063 | .813 | .563 | .250 | PT013D08L06T |
| 14 | .891 | .871 | 1.095 | .813 | .563 | .250 | PT014D08L06T |
| 15 | .955 | .935 | 1.188 | .813 | .625 | .250 | PT015D08L06T |
| 16 | 1.019 | .999 | 1.250 | .813 | .688 | .250 | PT016D08L06T |
| 17 | 1.082 | 1.062 | 1.313 | .813 | .750 | .250 | PT017D08L06T |
| 18 | 1.146 | 1.126 | 1.375 | .813 | .813 | .250 | PT018D08L06T |
| 19 | 1.210 | 1.190 | 1.438 | .813 | .875 | .250 | PT019D08L06T |
| 20 | 1.273 | 1.253 | 1.500 | .875 | .938 | .250 | PT020D08L06T |
| 21 | 1.337 | 1.317 | 1.563 | .875 | 1.000 | .250 | PT021D08L06T |
| 22 | 1.401 | 1.381 | 1.625 | .875 | 1.000 | .250 | PT022D08L06T |
| 23 | 1.464 | 1.444 | 1.688 | .875 | 1.063 | .250 | PT023D08L06T |
| 24 | 1.528 | 1.508 | 1.750 | .906 | 1.063 | .250 | PT024D08L06T |
| 25 | 1.592 | 1.572 | 1.813 | .906 | 1.095 | .250 | PT025D08L06T |
| 26 | 1.655 | 1.635 | 1.875 | .906 | 1.188 | .250 | PT026D08L06T |
| 28 | 1.783 | 1.763 | 2.000 | .906 | 1.188 | .250 | PT028D08L06T |
| 30 | 1.910 | 1.890 | 2.125 | .906 | 1.313 | .250 | PT030D08L06T |
| 32 | 2.037 | 2.017 | 2.250 | .906 | 1.438 | .313 | PT032D10L06T |

Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S TIMING BELTS

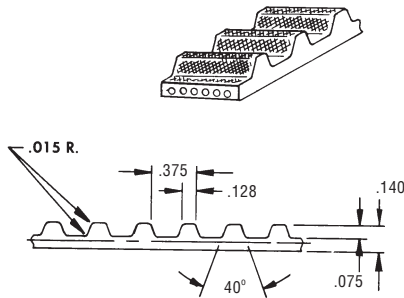
3/8" Pitch, 1/2" Wide For Economy ■ Power ■ Speed

L



Economical Power

Neoprene Construction Shown



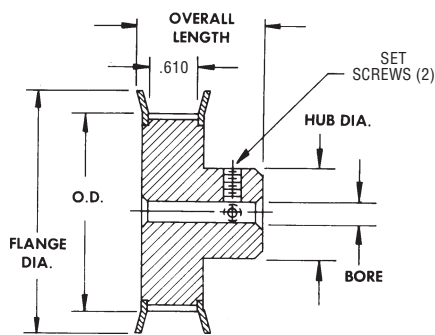
| Pitch Length | Number of Teeth | 1/2" Wide Part Number |
|--------------|-----------------|-----------------------|
| 12.375 | 33 | EPS0033J500N |
| 13.500 | 36 | EPS0036J500N |
| 15.000 | 40 | EPS0040J500N |
| 16.500 | 44 | EPS0044J500N |
| 18.750 | 50 | EPS0050J500N |
| 19.500 | 52 | EPS0052J500N |
| 21.000 | 56 | EPS0056J500N |
| 22.500 | 60 | EPS0060J500N |
| 24.000 | 64 | EPS0064J500N |
| 25.500 | 68 | EPS0068J500N |
| 27.000 | 72 | EPS0072J500N |
| 28.500 | 76 | EPS0076J500N |
| 30.000 | 80 | EPS0080J500N |
| 31.500 | 84 | EPS0084J500N |
| 32.250 | 86 | EPS0086J500N |
| 34.500 | 92 | EPS0092J500N |
| 36.700 | 98 | EPS0098J500N |
| 39.000 | 104 | EPS0104J500N |
| 42.000 | 112 | EPS0112J500N |
| 45.000 | 120 | EPS0120J500N |

E*P*S TIMING PULLEYS

3/8" Pitch, 1/2" Belt Width, Double Flange

L

Machined Aluminum



Material: 10-24 Grooves — Aluminum Alloy, Anodized.
26-32 Grooves — Cast Iron. No hole for set screw on Cast Iron Pulleys.

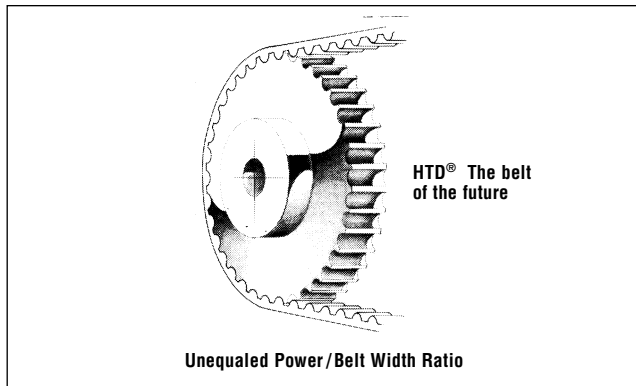
| No. of Grooves | Pitch Diameter | Outside Diameter | Flange Diameter ±.016 | Overall Length ±.016 | Hub Diameter ±.016 | Standard Bore +.001 - .000 | Standard Bore Part Number |
|----------------|----------------|------------------|-----------------------|----------------------|--------------------|----------------------------|---------------------------|
| 10 | 1.194 | 1.164 | 1.438 | 1.125 | .875 | .375 | PT010J12L08T |
| 11 | 1.313 | 1.283 | 1.531 | 1.125 | 1.000 | .375 | PT011J12L08T |
| 12 | 1.432 | 1.402 | 1.656 | 1.188 | 1.125 | .375 | PT012J12L08T |
| 13 | 1.552 | 1.552 | 1.781 | 1.188 | 1.125 | .375 | PT013J12L08T |
| 14 | 1.671 | 1.641 | 1.906 | 1.188 | 1.250 | .375 | PT014J12L08T |
| 15 | 1.790 | 1.760 | 2.031 | 1.250 | 1.375 | .375 | PT015J12L08T |
| 16 | 1.910 | 1.880 | 2.125 | 1.250 | 1.375 | .500 | PT016J16L08T |
| 17 | 2.029 | 1.999 | 2.250 | 1.250 | 1.500 | .500 | PT017J16L08T |
| 18 | 2.149 | 2.119 | 2.375 | 1.250 | 1.625 | .500 | PT018J16L08T |
| 19 | 2.268 | 2.238 | 2.500 | 1.313 | 1.688 | .500 | PT019J16L08T |
| 20 | 2.387 | 2.357 | 2.625 | 1.313 | 1.813 | .500 | PT020J16L08T |
| 21 | 2.507 | 2.477 | 2.750 | 1.375 | 2.000 | .500 | PT021J16L08T |
| 22 | 2.626 | 2.596 | 2.875 | 1.375 | 2.125 | .500 | PT022J16L08T |
| 24 | 2.865 | 2.835 | 3.094 | 1.375 | 2.250 | .500 | PT024J16L08T |
| 26 | 3.104 | 3.074 | 3.375 | 1.500 | 2.250 | .500 | PT026J16L08T |
| 28 | 3.342 | 3.312 | 3.625 | 1.500 | 2.250 | .500 | PT028J16L08T |
| 30 | 3.581 | 3.551 | 3.813 | 1.500 | 2.250 | .500 | PT030J16L08T |
| 32 | 3.820 | 3.790 | 4.063 | 1.625 | 2.563 | .500 | PT032J16L08T |

*Alternate Bores Available, Consult Factory.
OEM Quantity Discounts, Consult Factory.
Special: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

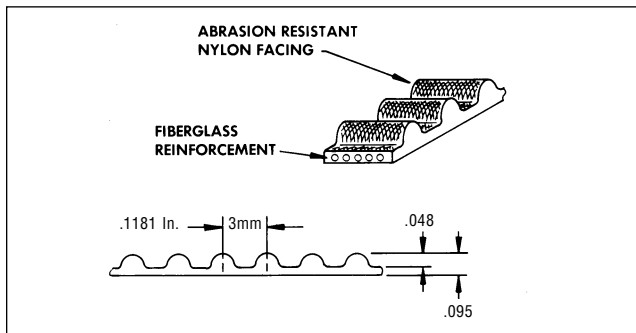
| Bore | Set Screw | O.D. Tolerance | |
|------|-----------|----------------|--------|
| | | O.D. | Tol |
| 3/8 | #10-32 | 1.001-2.000 | + .003 |
| 1/2 | #1/4-20 | 2.001-4.000 | + .004 |

E*P*S HTD® TIMING BELTS

3mm HTD® Pitch, 6mm & 9mm Wide For Economy ■ Power ■ Speed



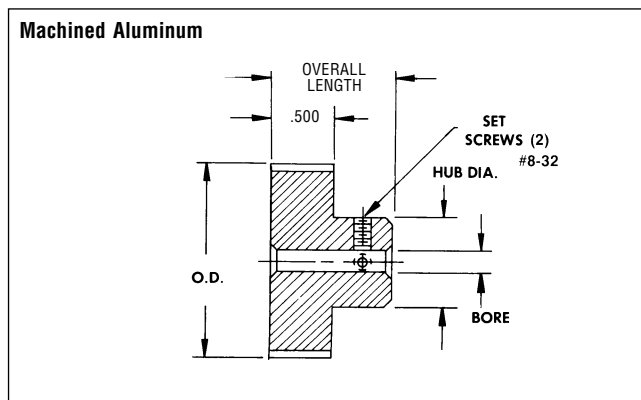
Material: Neoprene with nylon wear surface & helically-wound fiberglass reinforcing



| Pitch Length | | Number of Grooves | 6mm Wide Belts Part Number | 9mm Wide Belts Part Number |
|--------------|-----|-------------------|----------------------------|----------------------------|
| Inch | mm | | | |
| 5.91 | 150 | 50 | EPS0050F06mN | EPS0050F09mN |
| 6.26 | 159 | 53 | EPS0053F06mN | EPS0053F09mN |
| 6.61 | 168 | 56 | EPS0056F06mN | EPS0056F09mN |
| 6.97 | 177 | 59 | EPS0059F06mN | EPS0059F09mN |
| 7.91 | 201 | 67 | EPS0067F06mN | EPS0067F09mN |
| 8.39 | 213 | 71 | EPS0071F06mN | EPS0071F09mN |
| 8.86 | 225 | 75 | EPS0075F06mN | EPS0075F09mN |
| 9.92 | 252 | 84 | EPS0084F06mN | EPS0084F09mN |
| 10.04 | 255 | 85 | EPS0085F06mN | EPS0085F09mN |
| 10.51 | 267 | 89 | EPS0089F06mN | EPS0089F09mN |
| 11.22 | 285 | 95 | EPS0095F06mN | EPS0095F09mN |
| 11.81 | 300 | 100 | EPS0100F06mN | EPS0100F09mN |
| 12.28 | 312 | 104 | EPS0104F06mN | EPS0104F09mN |
| 12.52 | 318 | 106 | EPS0106F06mN | EPS0106F09mN |
| 13.35 | 339 | 113 | EPS0113F06mN | EPS0113F09mN |
| 14.29 | 363 | 121 | EPS0121F06mN | EPS0121F09mN |
| 15.12 | 384 | 128 | EPS0128F06mN | EPS0128F09mN |
| 15.35 | 390 | 130 | EPS0130F06mN | EPS0130F09mN |
| 16.54 | 420 | 140 | EPS0140F06mN | EPS0140F09mN |
| 17.60 | 447 | 149 | EPS0149F06mN | EPS0149F09mN |
| 18.66 | 474 | 158 | EPS0158F06mN | EPS0158F09mN |
| 19.13 | 486 | 162 | EPS0162F06mN | EPS0162F09mN |
| 19.72 | 501 | 167 | EPS0167F06mN | EPS0167F09mN |
| 20.20 | 513 | 171 | EPS0171F06mN | EPS0171F09mN |
| 20.91 | 531 | 177 | EPS0177F06mN | EPS0177F09mN |
| 22.20 | 564 | 188 | EPS0188F06mN | EPS0188F09mN |
| 23.50 | 597 | 199 | EPS0199F06mN | EPS0199F09mN |
| 24.92 | 633 | 211 | EPS0211F06mN | EPS0211F09mN |
| 26.34 | 669 | 223 | EPS0223F06mN | EPS0223F09mN |

E*P*S HTD® TIMING PULLEYS

3mm HTD® Pitch, 9mm Belt Width, No Flanges



Material: Aluminum Alloy, Anodized

| O.D. Tolerance | |
|----------------|-------|
| O.D. | Tol |
| Thru 1.000 | +.002 |
| 1.001-2.000 | +.003 |
| 2.001-4.000 | +.004 |

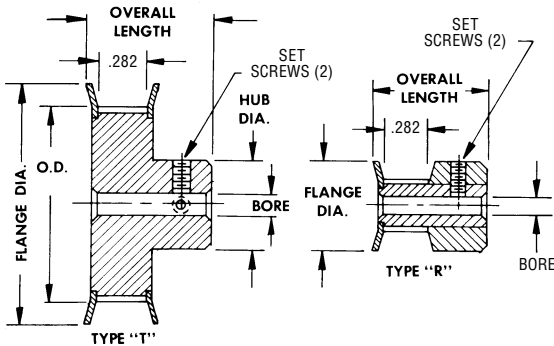
| No. of Grooves | Pitch Diameter | Outside Diameter | Overall Diameter ±.016 | Hub Diameter ±.016 | Standard Bore +.001 - .000 | Part Number |
|----------------|----------------|------------------|------------------------|--------------------|----------------------------|--------------|
| 18 | .677 | .647 | .812 | .442 | .250 | PT018F08L09N |
| 19 | .714 | .684 | .812 | .468 | .250 | PT019F08L09N |
| 20 | .752 | .722 | .812 | .500 | .250 | PT020F08L09N |
| 22 | .827 | .797 | .812 | .562 | .250 | PT022F08L09N |
| 24 | .902 | .872 | .812 | .625 | .250 | PT024F08L09N |
| 25 | .940 | .910 | .812 | .625 | .250 | PT025F08L09N |
| 26 | .977 | .947 | .812 | .625 | .250 | PT026F08L09N |
| 28 | 1.053 | 1.023 | .812 | .701 | .250 | PT028F08L09N |
| 30 | 1.128 | 1.098 | .812 | .776 | .250 | PT030F08L09N |
| 32 | 1.203 | 1.173 | .812 | .851 | .250 | PT032F08L09N |
| 34 | 1.278 | 1.248 | .834 | .921 | .250 | PT034F08L09N |
| 36 | 1.353 | 1.323 | .834 | 1.000 | .250 | PT036F08L09N |
| 38 | 1.429 | 1.399 | .834 | 1.075 | .250 | PT038F08L09N |
| 40 | 1.504 | 1.474 | .834 | 1.150 | .250 | PT040F08L09N |
| 44 | 1.654 | 1.624 | .834 | 1.300 | .250 | PT044F08L09N |
| 48 | 1.805 | 1.775 | .875 | 1.250 | .313 | PT048F10L09N |
| 50 | 1.880 | 1.850 | .875 | 1.250 | .313 | PT050F10L09N |
| 56 | 2.105 | 2.075 | .875 | 1.250 | .313 | PT056F10L09N |
| 60 | 2.256 | 2.226 | .875 | 1.250 | .313 | PT060F10L09N |
| 62 | 2.331 | 2.301 | .875 | 1.250 | .313 | PT062F10L09N |
| 72 | 2.707 | 2.677 | .875 | 1.250 | .313 | PT072F10L09N |

Special: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S HTD® TIMING PULLEYS

3mm HTD® Pitch, 6mm Belt Width, Double Flange

Machined Aluminum



Material: Aluminum Alloy, Anodized.

| Bore | Set Screw | Quantity |
|------|-----------|----------|
| .125 | #4-40 | 1 |
| .188 | #4-40* | 2* |
| .250 | #8-32 | 2 |

| O.D. Tolerance | |
|----------------|--------|
| O.D. | Tol |
| Thru 1.000 | + .002 |
| 1.001-2.000 | + .003 |
| 2.001-4.000 | + .004 |

* 12 groove, #4-40 (1)

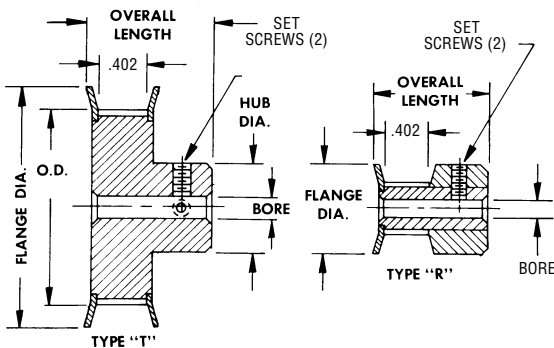
| No. of Grooves | Type | Pitch Diameter | Outside Diameter | Flange Diameter ±.016 | Overall Length ±.016 | Hub Diameter ±.016 | Bore +.001 - .000 | Part Number |
|----------------|------|----------------|------------------|-----------------------|----------------------|--------------------|-------------------|--------------|
| 10 | R | .376 | .346 | .505 | .562 | .505 | .125 | PT010F04L06R |
| 11 | R | .414 | .384 | .530 | .562 | .530 | .125 | PT011F04L06R |
| 12 | R | .451 | .421 | .580 | .562 | .580 | .188 | PT012F06L06R |
| 13 | R | .489 | .459 | .610 | .572 | .610 | .188 | PT013F06L06R |
| 14 | R | .526 | .496 | .635 | .572 | .635 | .188 | PT014F06L06R |
| 15 | R | .564 | .534 | .685 | .572 | .685 | .188 | PT015F06L06R |
| 16 | R | .602 | .572 | .710 | .572 | .710 | .188 | PT016F06L06R |
| 17 | R | .639 | .609 | .740 | .572 | .740 | .188 | PT017F06L06R |
| 18 | T | .677 | .647 | .790 | .691 | .442 | .250 | PT018F08L06T |
| 19 | T | .714 | .684 | .827 | .691 | .479 | .250 | PT019F08L06T |
| 20 | T | .752 | .722 | .895 | .691 | .500 | .250 | PT020F08L06T |
| 22 | T | .827 | .797 | .945 | .691 | .562 | .250 | PT022F08L06T |
| 24 | T | .902 | .872 | 1.025 | .691 | .625 | .250 | PT024F08L06T |
| 25 | T | .940 | .910 | 1.060 | .691 | .625 | .250 | PT025F08L06T |
| 26 | T | .977 | .947 | 1.105 | .691 | .625 | .250 | PT026F08L06T |
| 28 | T | 1.053 | 1.023 | 1.173 | .691 | .701 | .250 | PT028F08L06T |
| 30 | T | 1.128 | 1.098 | 1.250 | .691 | .776 | .250 | PT030F08L06T |
| 32 | T | 1.203 | 1.173 | 1.323 | .691 | .851 | .250 | PT032F08L06T |
| 34 | T | 1.278 | 1.248 | 1.398 | .713 | .921 | .250 | PT034F08L06T |
| 36 | T | 1.353 | 1.323 | 1.473 | .713 | 1.000 | .250 | PT036F08L06T |
| 38 | T | 1.429 | 1.399 | 1.549 | .713 | 1.075 | .250 | PT038F08L06T |
| 40 | T | 1.504 | 1.474 | 1.625 | .713 | 1.150 | .250 | PT040F08L06T |
| 44 | T | 1.654 | 1.624 | 1.775 | .713 | 1.300 | .250 | PT044F08L06T |

Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S HTD® TIMING PULLEYS

3mm HTD® Pitch, 9mm Belt Width, Double Flange

Machined Aluminum



Material: Aluminum Alloy, Anodized.

| Bore | Set Screw | Quantity |
|------|-----------|----------|
| .125 | #4-40 | 1 |
| .188 | #4-40* | 2* |
| .250 | #8-32 | 2 |

| O.D. Tolerance | |
|----------------|--------|
| O.D. | Tol |
| Thru 1.000 | + .002 |
| 1.001-2.000 | + .003 |
| 2.001-4.000 | + .004 |

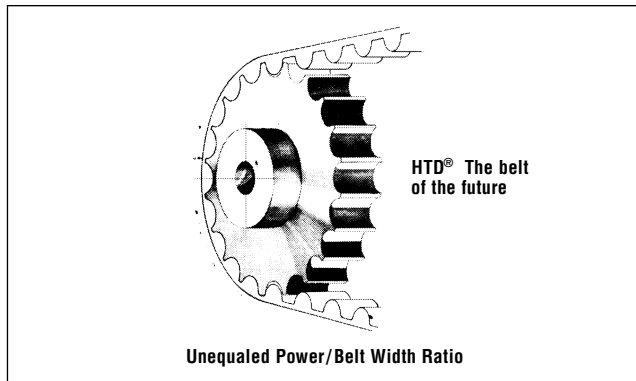
* 12 groove, #4-40 (1)

| No. of Grooves | Type | Pitch Diameter | Outside Diameter | Flange Diameter ±.016 | Overall Length ±.016 | Hub Diameter ±.016 | Bore +.001 - .000 | Part Number |
|----------------|------|----------------|------------------|-----------------------|----------------------|--------------------|-------------------|--------------|
| 10 | R | .376 | .346 | .505 | .681 | .505 | .125 | PT010F04L09R |
| 11 | R | .414 | .384 | .530 | .681 | .530 | .125 | PT011F04L09R |
| 12 | R | .451 | .421 | .580 | .681 | .580 | .188 | PT012F06L09R |
| 13 | R | .489 | .459 | .610 | .691 | .610 | .188 | PT013F06L09R |
| 14 | R | .526 | .496 | .635 | .691 | .635 | .188 | PT014F06L09R |
| 15 | R | .564 | .534 | .685 | .691 | .685 | .188 | PT015F06L09R |
| 16 | R | .602 | .572 | .710 | .691 | .710 | .188 | PT016F06L09R |
| 17 | R | .639 | .609 | .740 | .691 | .740 | .188 | PT017F06L09R |
| 18 | T | .677 | .647 | .790 | .812 | .442 | .250 | PT018F08L09T |
| 19 | T | .714 | .684 | .827 | .812 | .479 | .250 | PT019F08L09T |
| 20 | T | .752 | .722 | .895 | .812 | .500 | .250 | PT020F08L09T |
| 22 | T | .827 | .797 | .945 | .812 | .562 | .250 | PT022F08L09T |
| 24 | T | .902 | .872 | 1.025 | .812 | .625 | .250 | PT024F08L09T |
| 25 | T | .940 | .910 | 1.060 | .812 | .625 | .250 | PT025F08L09T |
| 26 | T | .977 | .947 | 1.105 | .812 | .625 | .250 | PT026F08L09T |
| 28 | T | 1.053 | 1.023 | 1.173 | .812 | .701 | .250 | PT028F08L09T |
| 30 | T | 1.128 | 1.098 | 1.250 | .812 | .776 | .250 | PT030F08L09T |
| 32 | T | 1.203 | 1.173 | 1.323 | .812 | .851 | .250 | PT032F08L09T |
| 34 | T | 1.278 | 1.248 | 1.398 | .833 | .921 | .250 | PT034F08L09T |
| 36 | T | 1.353 | 1.323 | 1.473 | .833 | 1.000 | .250 | PT036F08L09T |
| 38 | T | 1.429 | 1.399 | 1.549 | .833 | 1.075 | .250 | PT038F08L09T |
| 40 | T | 1.504 | 1.474 | 1.625 | .833 | 1.150 | .250 | PT040F08L09T |
| 44 | T | 1.654 | 1.624 | 1.775 | .833 | 1.300 | .250 | PT044F08L09T |

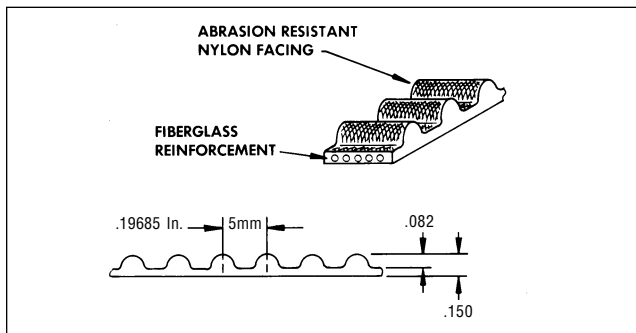
Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S HTD® TIMING BELTS

5mm HTD® Pitch, 9mm & 15mm Wide



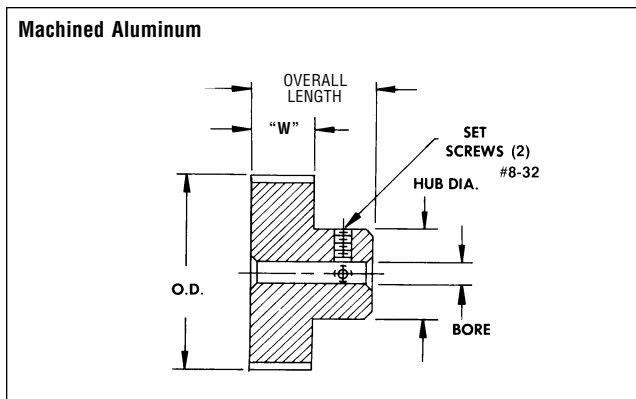
Material: Neoprene with nylon wear surface & helically-wound fiberglass reinforcing



| Pitch Length | | Number of Grooves | 9mm Wide Belts Part Number | 15mm Wide Belts Part Number |
|--------------|------|-------------------|----------------------------|-----------------------------|
| Inch | mm | | | |
| 13.78 | 350 | 70 | EPS0070G09mN | EPS0070G15mN |
| 14.76 | 375 | 75 | EPS0075G09mN | EPS0075G15mN |
| 15.75 | 400 | 80 | EPS0080G09mN | EPS0080G15mN |
| 16.73 | 425 | 85 | EPS0085G09mN | EPS0085G15mN |
| 17.72 | 450 | 90 | EPS0090G09mN | EPS0090G15mN |
| 18.70 | 475 | 95 | EPS0095G09mN | EPS0095G15mN |
| 19.69 | 500 | 100 | EPS0100G09mN | EPS0100G15mN |
| 21.06 | 535 | 107 | EPS0107G09mN | EPS0107G15mN |
| 22.24 | 565 | 113 | EPS0113G09mN | EPS0113G15mN |
| 23.62 | 600 | 120 | EPS0120G09mN | EPS0120G15mN |
| 25.00 | 635 | 127 | EPS0127G09mN | EPS0127G15mN |
| 26.38 | 670 | 134 | EPS0134G09mN | EPS0134G15mN |
| 27.95 | 710 | 142 | EPS0142G09mN | EPS0142G15mN |
| 29.13 | 740 | 148 | EPS0148G09mN | EPS0148G15mN |
| 31.50 | 800 | 160 | EPS0160G09mN | EPS0160G15mN |
| 33.46 | 850 | 170 | EPS0170G09mN | EPS0170G15mN |
| 35.04 | 890 | 178 | EPS0178G09mN | EPS0178G15mN |
| 37.40 | 950 | 190 | EPS0190G09mN | EPS0190G15mN |
| 39.37 | 1000 | 200 | EPS0200G09mN | EPS0200G15mN |

E*P*S HTD® TIMING PULLEYS

5mm HTD® Pitch, 9mm & 15mm Belt Width, No Flanges



Material: Aluminum Alloy, Anodized

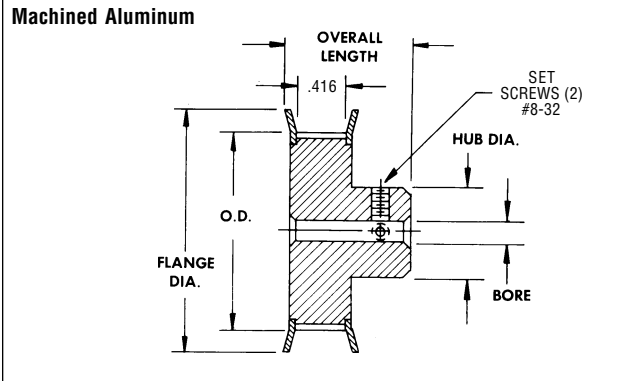
| Number of Grooves | Overall Length ±.016 | | Face Width "W" | |
|-------------------|----------------------|------------|----------------|------|
| | 9mm Width | 15mm Width | 9mm | 15mm |
| 12-22 | .796 | 1.032 | .541 | .781 |
| 24-34 | .859 | 1.093 | | |
| 36-40 | .937 | 1.187 | | |

| No. of Grooves | Pitch Dia. | Outside Dia. | Hub Dia. ±.016 | Bore +.001 -.000 | 9mm Belt Width Part Number | 15mm Belt Width Part Number |
|----------------|------------|--------------|----------------|---------------------|----------------------------|-----------------------------|
| 12 | .752 | .707 | .437 | .250 | PT012G08L09N | PT012G08L15N |
| 13 | .815 | .770 | .500 | .250 | PT013G08L09N | PT013G08L15N |
| 14 | .877 | .832 | .500 | .250 | PT014G08L09N | PT014G08L15N |
| 15 | .940 | .895 | .562 | .250 | PT015G08L09N | PT015G08L15N |
| 16 | 1.003 | .958 | .562 | .250 | PT016G08L09N | PT016G08L15N |
| 17 | 1.065 | 1.020 | .625 | .250 | PT017G08L09N | PT017G08L15N |
| 18 | 1.128 | 1.083 | .687 | .250 | PT018G08L09N | PT018G08L15N |
| 19 | 1.191 | 1.146 | .750 | .250 | PT019G08L09N | PT019G08L15N |
| 20 | 1.253 | 1.208 | .812 | .250 | PT020G08L09N | PT020G08L15N |
| 22 | 1.379 | 1.334 | .937 | .250 | PT022G08L09N | PT022G08L15N |
| 24 | 1.504 | 1.459 | 1.000 | .250 | PT024G08L09N | PT024G08L15N |
| 25 | 1.566 | 1.521 | 1.000 | .250 | PT025G08L09N | PT025G08L15N |
| 26 | 1.629 | 1.584 | 1.062 | .250 | PT026G08L09N | PT026G08L15N |
| 28 | 1.754 | 1.709 | 1.187 | .250 | PT028G08L09N | PT028G08L15N |
| 30 | 1.880 | 1.835 | 1.187 | .250 | PT030G08L09N | PT030G08L15N |
| 32 | 2.005 | 1.960 | 1.250 | .250 | PT032G08L09N | PT032G08L15N |
| 34 | 2.130 | 2.085 | 1.375 | .250 | PT034G08L09N | PT034G08L15N |
| 36 | 2.256 | 2.211 | 1.500 | .313 | PT036G10L09N | PT036G10L15N |
| 38 | 2.381 | 2.336 | 1.500 | .313 | PT038G10L09N | PT038G10L15N |
| 40 | 2.506 | 2.461 | 1.500 | .313 | PT040G10L09N | PT040G10L15N |

Special: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S HTD® TIMING PULLEYS

5mm HTD® Pitch, 9mm Belt Width, Double Flange



Material: Aluminum Alloy, Anodized.

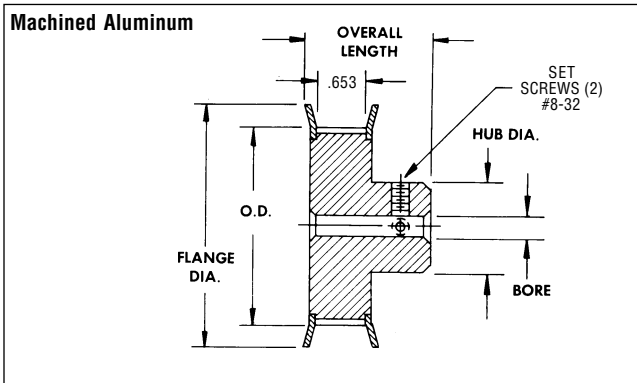
| O.D. Tolerance | |
|----------------|-------|
| O.D. | Tol |
| Thru 1.000 | +.002 |
| 1.001-2.000 | +.003 |
| 2.001-4.000 | +.004 |

| No. of Grooves | Pitch Diameter | Outside Diameter | Flange Diameter ±.016 | Overall Length ±.016 | Hub Diameter ±.016 | Standard Bore +.001 -.000 | Standard Bore Part Number |
|----------------|----------------|------------------|-----------------------|----------------------|--------------------|---------------------------|---------------------------|
| 12 | .752 | .707 | .875 | .790 | .437 | .250 | PT012G08L09T |
| 13 | .815 | .770 | .939 | .790 | .500 | .250 | PT013G08L09T |
| 14 | .877 | .832 | 1.000 | .790 | .500 | .250 | PT014G08L09T |
| 15 | .940 | .895 | 1.063 | .790 | .562 | .250 | PT015G08L09T |
| 16 | 1.003 | .958 | 1.094 | .790 | .625 | .250 | PT016G08L09T |
| 17 | 1.065 | 1.020 | 1.188 | .790 | .625 | .250 | PT017G08L09T |
| 18 | 1.128 | 1.083 | 1.250 | .790 | .687 | .250 | PT018G08L09T |
| 19 | 1.191 | 1.146 | 1.313 | .790 | .750 | .250 | PT019G08L09T |
| 20 | 1.253 | 1.208 | 1.375 | .790 | .812 | .250 | PT020G08L09T |
| 22 | 1.379 | 1.334 | 1.500 | .790 | .937 | .250 | PT022G08L09T |
| 24 | 1.504 | 1.459 | 1.625 | .852 | 1.000 | .250 | PT024G08L09T |
| 25 | 1.566 | 1.521 | 1.688 | .852 | 1.000 | .250 | PT025G08L09T |
| 26 | 1.629 | 1.584 | 1.750 | .852 | 1.062 | .250 | PT026G08L09T |
| 28 | 1.754 | 1.709 | 1.875 | .852 | 1.187 | .250 | PT028G08L09T |
| 30 | 1.880 | 1.835 | 2.000 | .852 | 1.187 | .250 | PT030G08L09T |
| 32 | 2.005 | 1.960 | 2.125 | .852 | 1.250 | .250 | PT032G08L09T |
| 34 | 2.130 | 2.085 | 2.250 | .852 | 1.375 | .250 | PT034G08L09T |

Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

E*P*S HTD® TIMING PULLEYS

5mm HTD® Pitch, 15mm Belt Width, Double Flange



Material: Aluminum Alloy, Anodized.

| O.D. Tolerance | |
|----------------|-------|
| O.D. | Tol |
| Thru 1.000 | +.002 |
| 1.001-2.000 | +.003 |
| 2.001-4.000 | +.004 |

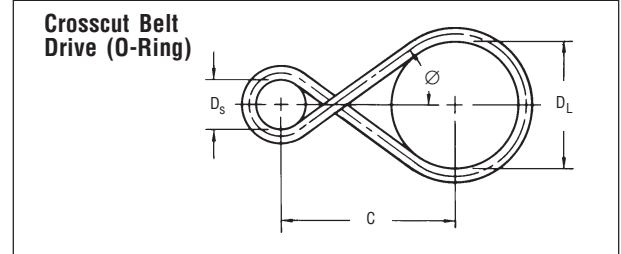
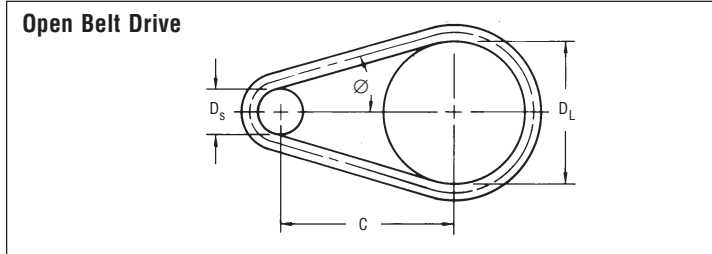
| No. of Grooves | Pitch Diameter | Outside Diameter | Flange Diameter ±.016 | Overall Length ±.016 | Hub Diameter ±.016 | Standard Bore +.001 -.000 | Standard Bore Part Number |
|----------------|----------------|------------------|-----------------------|----------------------|--------------------|---------------------------|---------------------------|
| 12 | .752 | .707 | .875 | 1.025 | .437 | .250 | PT012G08L15T |
| 13 | .815 | .770 | .939 | 1.025 | .500 | .250 | PT013G08L15T |
| 14 | .877 | .832 | 1.000 | 1.025 | .500 | .250 | PT014G08L15T |
| 15 | .940 | .895 | 1.063 | 1.025 | .562 | .250 | PT015G08L15T |
| 16 | 1.003 | .958 | 1.094 | 1.025 | .625 | .250 | PT016G08L15T |
| 17 | 1.065 | 1.020 | 1.188 | 1.025 | .625 | .250 | PT017G08L15T |
| 18 | 1.128 | 1.083 | 1.250 | 1.025 | .687 | .250 | PT018G08L15T |
| 19 | 1.191 | 1.146 | 1.313 | 1.025 | .750 | .250 | PT019G08L15T |
| 20 | 1.253 | 1.208 | 1.375 | 1.025 | .812 | .250 | PT020G08L15T |
| 22 | 1.379 | 1.334 | 1.500 | 1.025 | .937 | .250 | PT022G08L15T |
| 24 | 1.504 | 1.459 | 1.625 | 1.087 | 1.000 | .250 | PT024G08L15T |
| 25 | 1.566 | 1.521 | 1.688 | 1.087 | 1.000 | .250 | PT025G08L15T |
| 26 | 1.629 | 1.584 | 1.750 | 1.087 | 1.062 | .250 | PT026G08L15T |
| 28 | 1.754 | 1.709 | 1.875 | 1.087 | 1.187 | .250 | PT028G08L15T |
| 30 | 1.880 | 1.835 | 2.000 | 1.087 | 1.187 | .250 | PT030G08L15T |
| 32 | 2.005 | 1.960 | 2.125 | 1.087 | 1.250 | .250 | PT032G08L15T |
| 34 | 2.130 | 2.085 | 2.250 | 1.087 | 1.375 | .250 | PT034G08L15T |

Specials: Materials, bores, hub styles, integral bushings or bearings, widths, finishes, sizes, etc., consult factory.

ROUND BELTS AND PRECISION GROOVED PULLEYS

Round belts are manufactured from a polyurethane seal compound that finds use in drive belt applications where petroleum and chemical products may be encountered and temperatures will not exceed 180°F. The flex life and abrasion resistance of this belt are excellent. The formulas listed on this and the adjacent page are to be used in the selection of belt length and pulley size for the Round Belt drive system.

Open Belt Drives are used in most applications. In a crossed belt drive, the direction of rotation of the driven pulley is reversed. If the axes of the pulleys are parallel to each other, the two belts will rub at the crossing point; this may cause premature wearing of the belt. Tilting one axis will eliminate rubbing of the belt, but may complicate the design of the drive.



The following formulas are to calculate the belt length for either an Open Belt or Cross Cut Belt drive. Tensile = 3,500 psi.

| Open Belt Drive | Cross Cut Belt Drive |
|---|--|
| $\sin \varnothing = \frac{DL - DS}{2C}$ | $\sin \varnothing = \frac{DL + DS}{2C}$ |
| Belt Half Angle \varnothing | |
| Length of Belt Under Tension | |
| $L_1 = \frac{\pi}{2} (DL + DS) + \frac{\pi \varnothing}{180} (DL - DS) + 2C \cos \varnothing$ | $L_1 = \left[\frac{\pi}{2} \left(1 + \frac{\varnothing}{90} \right) (DL + DS) \right] + 2C \cos \varnothing$ |
| Free Belt Length | Inside Diameter Of Belt |
| $LF = L_1 (.88)$ | $ID = \frac{LF}{\pi} - W$ |

NOTE: It is recommended that belt be installed with an initial stretch of approx. 12%

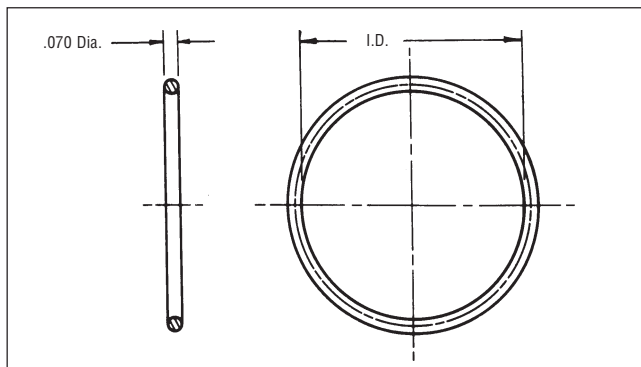
The pulleys are available in aluminum for the 1/6", 3/32" and 3/16" diameter belts. Pulleys for 1/8" and 1/4" diameter belts are available as a standard in stainless steel. The outside diameter of the pulley is equivalent to the pitch diameter of the pulley; therefore the diameters listed could be used to determine the proper ratio. For maximum flex life, the diameter of the smaller pulleys should be at least six times the actual belt width W.

| Nominal Belt Size | W | Minimum Pulley Diameter |
|-------------------|------|-------------------------|
| 1/16" | .070 | .42 |
| 3/32" | .103 | .618 |
| 1/8" | .139 | .834 |
| 3/16" | .210 | 1.260 |
| 1/4" | .275 | 1.650 |

DS = Smaller Diameter Pulley
DL = Larger Diameter Pulley

The ratio of change in speed is DL/DS

1/16" Diameter

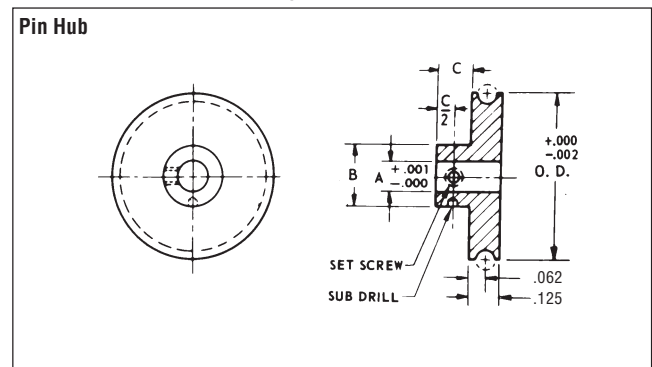


Material: Polyurethane

Temperature Range: -30° to +180°F 70 Durometer

| Inside Cir. Approx. | I.D. | Part Number | Inside Cir. Approx. | I.D. | Part Number |
|---------------------|-------|-------------|---------------------|-------|-------------|
| 4.71 | 1.489 | AF2-1 | 8.63 | 2.739 | AF2-9 |
| 5.49 | 1.739 | AF2-2 | 9.03 | 2.864 | AF2-10 |
| 6.28 | 1.989 | AF2-3 | 9.42 | 2.989 | AF2-11 |
| 6.67 | 2.114 | AF2-4 | 10.21 | 3.239 | AF2-12 |
| 7.06 | 2.239 | AF2-5 | 10.99 | 3.489 | AF2-13 |
| 7.46 | 2.364 | AF2-6 | 11.78 | 3.739 | AF2-14 |
| 7.85 | 2.489 | AF2-7 | 12.56 | 3.989 | AF2-15 |
| 8.24 | 2.614 | AF2-8 | | | |

For 1/16" Diameter Pulley Belts



Material: 2024-T4 Aluminum, Anodized

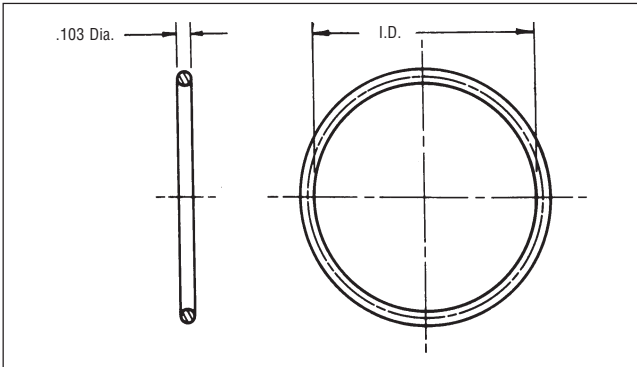
| Shaft Size | O.D. | A | B | C | Set Screw | Part Number |
|------------|-------|-------|------|------|-----------|-------------|
| 1/8 | .500 | .1248 | .312 | .187 | #2-56 | AE5-1 |
| | .750 | | | | | AE5-2 |
| | 1.000 | | | | | AE5-3 |
| | 1.500 | | | | | AE5-4 |
| | 2.000 | | | | | AE5-5 |
| 3/16 | .500 | .1873 | .375 | .218 | #4-40 | AE6-1 |
| | .750 | | | | | AE6-2 |
| | 1.000 | | | | | AE6-3 |
| | 1.500 | | | | | AE6-4 |
| | 2.000 | | | | | AE6-5 |
| 1/4 | 1.000 | .2498 | .500 | .250 | #6-32 | AE7-1 |
| | 1.500 | | | | | AE7-2 |
| | 2.000 | | | | | AE7-3 |
| | 2.500 | | | | | AE7-4 |
| | 3.000 | | | | | AE7-5 |

Phone: 800-243-6125 ■ FAX: 203-758-8271

E-Mail: info@pic-design.com

ROUND BELTS AND PRECISION GROOVED PULLEYS

3/32" Diameter

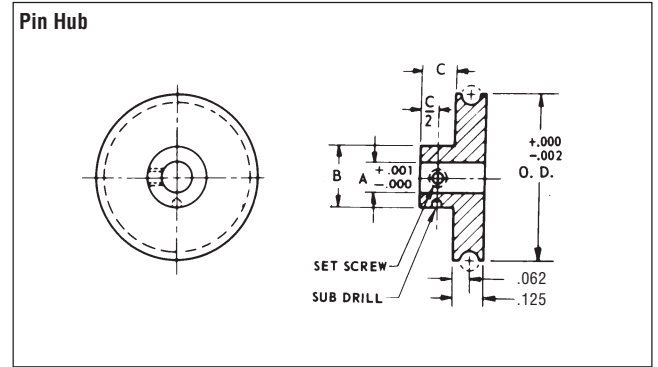


Material: Polyurethane

Temperature Range: -30° to +180°F 70 Durometer

| Inside Cir. Approx. | I.D. | Part Number | Inside Cir. Approx. | I.D. | Part Number |
|---------------------|-------|-------------|---------------------|-------|-------------|
| 7.85 | 2.487 | AF3-1 | 14.13 | 4.487 | AF3-9 |
| 8.63 | 2.737 | AF3-2 | 14.92 | 4.737 | AF3-10 |
| 9.42 | 2.800 | AF3-3 | 15.70 | 4.987 | AF3-11 |
| 10.21 | 3.237 | AF3-4 | 16.29 | 5.237 | AF3-12 |
| 10.99 | 3.487 | AF3-5 | 17.27 | 5.487 | AF3-13 |
| 11.78 | 3.737 | AF3-6 | 18.06 | 5.737 | AF3-14 |
| 12.56 | 3.987 | AF3-7 | 18.84 | 5.987 | AF3-15 |
| 13.35 | 4.237 | AF3-8 | | | |

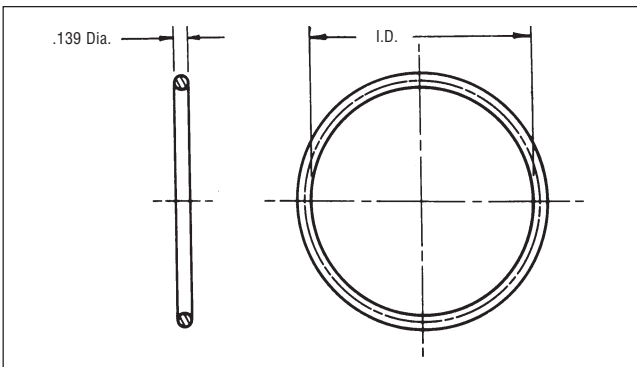
For 3/32" Diameter Pulley Belts



Material: 2024-T4 Aluminum, Anodized

| Shaft Size | O.D. | A | B | C | Set Screw | Part Number |
|------------|-------|-------|------|------|-----------|-------------|
| 1/8 | .500 | .1248 | .312 | .187 | #2-56 | AE8-1 |
| | .750 | | | | | AE8-2 |
| | 1.000 | | | | | AE8-3 |
| | 1.500 | | | | | AE8-4 |
| | 2.000 | | | | | AE8-5 |
| 3/16 | .500 | .1873 | .375 | .218 | #4-40 | AE9-1 |
| | .750 | | | | | AE9-2 |
| | 1.000 | | | | | AE9-3 |
| | 1.500 | | | | | AE9-4 |
| | 2.000 | | | | | AE9-5 |
| 1/4 | 1.000 | .2498 | .500 | .250 | #6-32 | AE10-1 |
| | 1.500 | | | | | AE10-2 |
| | 2.000 | | | | | AE10-3 |
| | 2.500 | | | | | AE10-4 |
| | 3.000 | | | | | AE10-5 |

1/8" Diameter

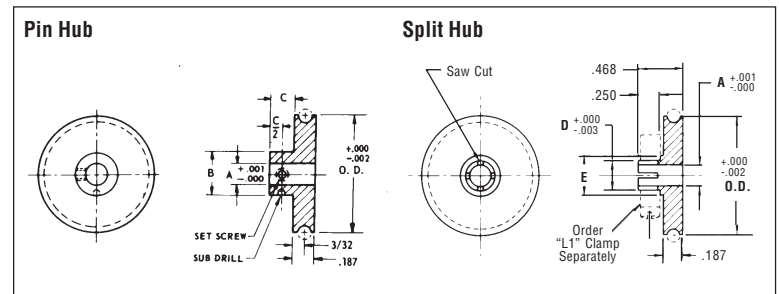


Material: Polyurethane

Temperature Range: -30° to +180°F 70 Durometer

| Inside Cir. Approx. | I.D. | Part Number | Inside Cir. Approx. | I.D. | Part Number |
|---------------------|-------|-------------|---------------------|--------|-------------|
| 13.35 | 4.234 | AF4-1 | 25.13 | 7.984 | AF4-13 |
| 14.13 | 4.484 | AF4-2 | 26.70 | 8.484 | AF4-14 |
| 14.92 | 4.734 | AF4-3 | 28.27 | 8.984 | AF4-15 |
| 15.70 | 4.984 | AF4-4 | 29.84 | 9.484 | AF4-16 |
| 16.49 | 5.234 | AF4-5 | 31.41 | 9.984 | AF4-17 |
| 17.27 | 5.484 | AF4-6 | 32.98 | 10.484 | AF4-18 |
| 18.06 | 5.734 | AF4-7 | 34.55 | 10.984 | AF4-19 |
| 18.84 | 5.984 | AF4-8 | 36.12 | 11.484 | AF4-20 |
| 19.63 | 6.234 | AF4-9 | 37.69 | 11.984 | AF4-21 |
| 20.42 | 6.484 | AF4-10 | 40.84 | 12.984 | AF4-22 |
| 21.99 | 6.984 | AF4-11 | 43.98 | 13.984 | AF4-23 |
| 23.56 | 7.484 | AF4-12 | 47.12 | 14.984 | AF4-24 |

For 1/8" Diameter Round Pulley Belts

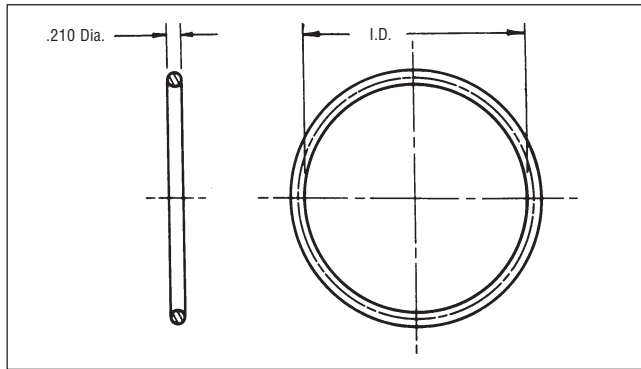


Material: 303 Stainless Steel

| Shaft Size | O.D. | A | B | C | D | E | Set Screw | Clamp | Pin Hub Part No. | Split Hub Part No. |
|------------|-------|-------|------|------|------|------|-----------|--------------|------------------|--------------------|
| 1/8 | .500 | .1248 | .312 | .187 | .188 | 1/4 | #2-56 | L1-1 or L1-4 | AE-1 | AE-21 |
| | .750 | | | | | | | | AE-2 | AE-22 |
| | 1.000 | | | | | | | | AE-3 | AE-23 |
| | 1.500 | | | | | | | | AE-4 | AE-24 |
| | 2.000 | | | | | | | | AE-5 | AE-25 |
| 3/16 | .500 | .1873 | .375 | .218 | .250 | 5/16 | #4-40 | L1-2 or L1-5 | AE-6 | AE-26 |
| | .750 | | | | | | | | AE-7 | AE-27 |
| | 1.000 | | | | | | | | AE-8 | AE-28 |
| | 1.500 | | | | | | | | AE-9 | AE-29 |
| | 2.000 | | | | | | | | AE-10 | AE-30 |
| 1/4 | .500 | .2498 | .500 | .250 | .312 | 3/8 | #6-32 | L1-3 or L1-6 | AE-11 | AE-31 |
| | .750 | | | | | | | | AE-12 | AE-32 |
| | 1.000 | | | | | | | | AE-13 | AE-33 |
| | 1.500 | | | | | | | | AE-14 | AE-34 |
| | 2.000 | | | | | | | | AE-15 | AE-35 |
| | 2.500 | | | | | | | | AE-16 | AE-36 |
| | 3.000 | | | | | | | | AE-17 | AE-37 |

ROUND BELTS AND PRECISION GROOVED PULLEYS

3/16" Diameter

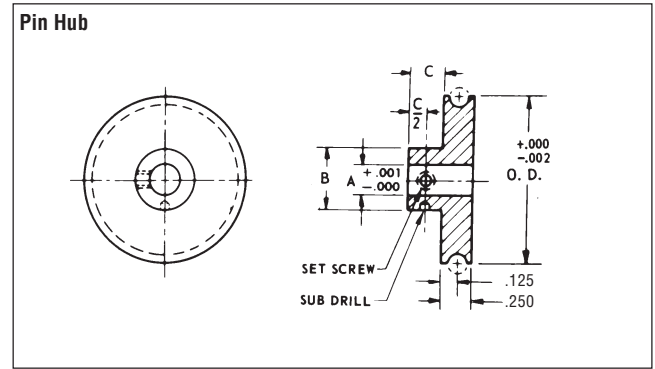


Material: Polyurethane

Temperature Range: -30° to +180°F 70 Durometer

| Inside Cir. Approx. | I.D. | Part Number | Inside Cir. Approx. | I.D. | Part Number |
|---------------------|-------|-------------|---------------------|-------|-------------|
| 6.28 | 1.975 | AF5-1 | 10.99 | 3.475 | AF5-7 |
| 7.06 | 2.225 | AF5-2 | 11.78 | 3.725 | AF5-8 |
| 7.85 | 2.475 | AF5-3 | 12.56 | 3.975 | AF5-9 |
| 8.63 | 2.725 | AF5-4 | 13.35 | 4.225 | AF5-10 |
| 9.42 | 2.975 | AF5-5 | 14.13 | 4.475 | AF5-11 |
| 10.21 | 3.225 | AF5-6 | | | |

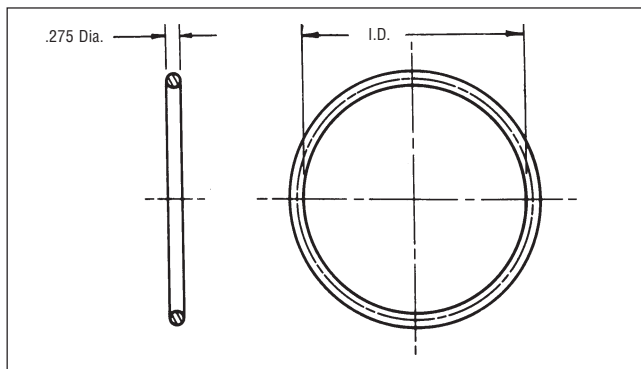
For 3/16" Diameter Pulley Belts



Material: 2024-T4 Aluminum, Anodized

| Shaft Size | O.D. | A | B | C | Set Screw | Part Number |
|------------|-------|-------|------|------|-----------|-------------|
| 1/4 | 1.000 | .2498 | .500 | .250 | #6-32 | AE14-1 |
| | 1.500 | | | | | AE14-2 |
| | 2.000 | | | | | AE14-3 |
| | 3.000 | | | | | AE14-4 |
| 5/16 | 1.000 | .3123 | .750 | .375 | #8-32 | AE15-1 |
| | 1.500 | | | | | AE15-2 |
| | 2.000 | | | | | AE15-3 |
| | 3.000 | | | | | AE15-4 |
| 3/8 | 1.000 | .3748 | .750 | .500 | #10-32 | AE16-1 |
| | 1.500 | | | | | AE16-2 |
| | 2.000 | | | | | AE16-3 |
| | 3.000 | | | | | AE16-4 |

1/4" Diameter

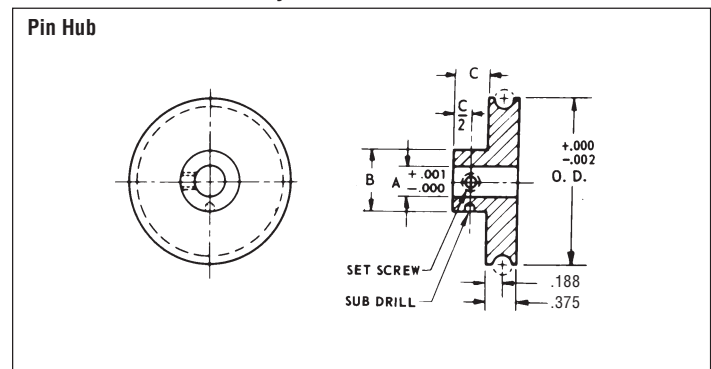


Material: Polyurethane

Temperature Range: -30° to +180°F 70 Durometer

| Inside Cir. Approx. | I.D. | Part Number |
|---------------------|--------|-------------|
| 18.84 | 5.975 | AF6-1 |
| 20.42 | 6.475 | AF6-2 |
| 21.99 | 6.975 | AF6-3 |
| 25.13 | 7.975 | AF6-4 |
| 28.27 | 8.975 | AF6-5 |
| 31.41 | 9.975 | AF6-6 |
| 37.69 | 11.975 | AF6-7 |
| 40.84 | 12.975 | AF6-8 |
| 43.98 | 13.975 | AF6-9 |
| 47.12 | 14.975 | AF6-10 |

For 1/4" Diameter Pulley Belts

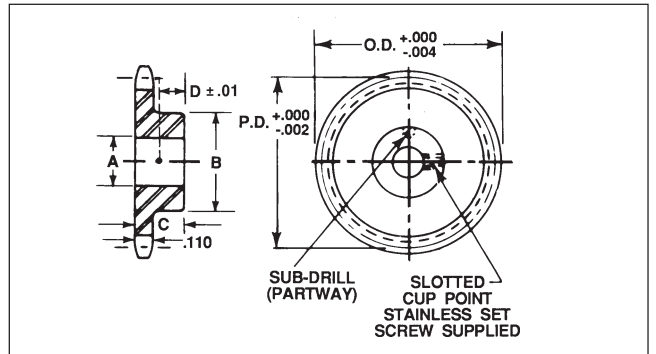
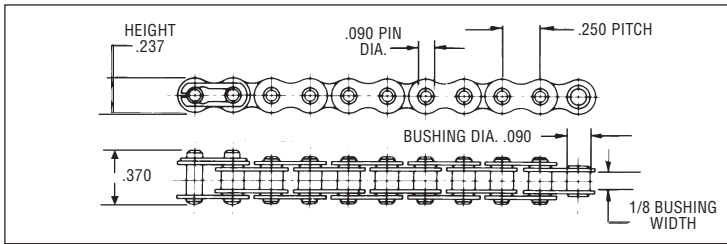


Material: 303 Stainless Steel

| Shaft Size | O.D. | A | B | C | Set Screw | Part Number |
|------------|-------|-------|-------|------|-----------|-------------|
| 3/8 | 1.000 | .3748 | .750 | .500 | #10-32 | AE17-1 |
| | 1.500 | | | | | AE17-2 |
| | 2.000 | | | | | AE17-3 |
| | 3.000 | | | | | AE17-4 |
| | 4.000 | | | | | AE17-5 |
| 1/2 | 1.000 | .4998 | 1.000 | .500 | #1/4-20 | AE18-1 |
| | 1.500 | | | | | AE18-2 |
| | 2.000 | | | | | AE18-3 |
| | 3.000 | | | | | AE18-4 |
| | 4.000 | | | | | AE18-5 |

.250 PITCH CHAIN AND SPROCKETS

#25 Roller Chain

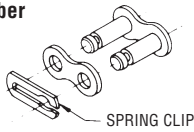


Chain Material: Stainless Steel Type 18-8 Weight per Foot: .0828 lbs.
Tensile Strength: 700 lbs. Average

Sprocket Material: Stainless Steel
2024-T4 Aluminum (Anodize Before Cutting)

| No. of Teeth | Bore A +.001 | B | C | D | Set Size |
|--------------|-----------------|-------|-----|-----|----------|
| 9-22 | 1/4 | 1/2 | 1/2 | .19 | #6-32 |
| 24-36 | 3/8 | 3/4 | 5/8 | .25 | #10-32 |
| 40-50 | 1/2 | 1-1/2 | 3/4 | .31 | #10-32 |

Extra Connectors Available
Catalog Number EL25-C



All Chains Supplied With Connectors

Random lengths available: Specify part number by indicating total number of links ÷ 10 after series number. Specify even numbers of links including connector.

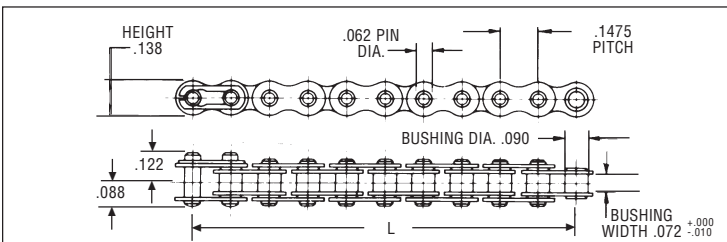
| Part Number | L | Part Number | L |
|-------------|--------|-------------|--------|
| EL25-4 | 10.000 | EL25-17 | 42.500 |
| EL25-5 | 12.500 | EL25-18 | 45.000 |
| EL25-6 | 15.000 | EL25-19 | 47.500 |
| EL25-7 | 17.500 | EL25-20 | 50.000 |
| EL25-8 | 20.000 | EL25-21 | 52.500 |
| EL25-9 | 22.500 | EL25-22 | 55.000 |
| EL25-10 | 25.000 | EL25-23 | 57.500 |
| EL25-12 | 30.000 | EL25-24 | 60.000 |
| EL25-13 | 32.500 | EL25-25 | 62.500 |
| EL25-14 | 35.000 | EL25-26 | 65.000 |
| EL25-15 | 37.500 | EL25-27 | 67.500 |
| EL25-16 | 40.000 | EL25-28 | 70.000 |

| Sprocket Data | | | Stainless Steel | Aluminum |
|---------------|--------|-------|-----------------|-------------|
| No. Teeth | P.D. | O.D. | Part Number | Part Number |
| 9 | .7310 | .836 | EM255-9 | EM256-9 |
| 10 | .8090 | .919 | EM255-10 | EM256-10 |
| 11 | .8874 | 1.001 | EM255-11 | EM256-11 |
| 12 | .9659 | 1.083 | EM255-12 | EM256-12 |
| 13 | 1.0446 | 1.164 | EM255-13 | EM256-13 |
| 14 | 1.1235 | 1.245 | EM255-14 | EM256-14 |
| 15 | 1.2024 | 1.326 | EM255-15 | EM256-15 |
| 16 | 1.2813 | 1.406 | EM255-16 | EM256-16 |
| 18 | 1.4397 | 1.567 | EM255-18 | EM256-18 |
| 20 | 1.5981 | 1.728 | EM255-20 | EM256-20 |
| 21 | 1.6773 | 1.808 | EM255-21 | EM256-21 |
| 22 | 1.7566 | 1.880 | EM255-22 | EM256-22 |

| Sprocket Data | | | Stainless Steel | Aluminum |
|---------------|--------|-------|-----------------|-------------|
| No. Teeth | P.D. | O.D. | Part Number | Part Number |
| 24 | 1.9153 | 2.049 | EM255-24 | EM256-24 |
| 25 | 1.9946 | 2.129 | EM255-25 | EM256-25 |
| 26 | 2.0740 | 2.209 | EM255-26 | EM256-26 |
| 28 | 2.2328 | 2.368 | EM255-28 | EM256-28 |
| 30 | 2.3917 | 2.528 | EM255-30 | EM256-30 |
| 32 | 2.5505 | 2.688 | EM255-32 | EM256-32 |
| 36 | 2.8684 | 3.007 | EM255-36 | EM256-36 |
| 40 | 3.1863 | 3.326 | EM255-40 | EM256-40 |
| 45 | 3.5838 | 3.725 | EM255-45 | EM256-45 |
| 48 | 3.8220 | 3.964 | EM255-48 | EM256-48 |
| 50 | 3.9815 | 4.123 | EM255-50 | EM256-50 |

.1475 MINIATURE PITCH CHAINS

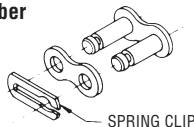
.1475 Pitch-Prestretched



Material: Stainless Steel Type 18-8 Weight per Foot: .035 lbs.
Tensile Strength: 180 lbs. Average

| Part Number | L | Part Number | L | Part Number | L | Part Number | L |
|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
| EL-4 | 5.900 | EL-13 | 19.175 | EL-22 | 32.450 | EL-31 | 45.725 |
| EL-5 | 7.375 | EL-14 | 20.650 | EL-23 | 33.925 | EL-32 | 47.200 |
| EL-6 | 8.850 | EL-15 | 22.125 | EL-24 | 35.400 | EL-33 | 48.675 |
| EL-7 | 10.325 | EL-16 | 23.600 | EL-25 | 36.875 | EL-34 | 50.150 |
| EL-8 | 11.800 | EL-17 | 25.075 | EL-26 | 38.350 | EL-35 | 51.625 |
| EL-9 | 13.275 | EL-18 | 26.550 | EL-27 | 39.825 | EL-36 | 53.100 |
| EL-10 | 14.750 | EL-19 | 28.025 | EL-28 | 41.300 | EL-37 | 54.575 |
| EL-11 | 16.225 | EL-20 | 29.500 | EL-29 | 42.775 | EL-38 | 56.050 |
| EL-12 | 17.700 | EL-21 | 30.975 | EL-30 | 44.250 | EL-39 | 57.525 |

Extra Connectors Available
Catalog Number EL-C



Prestretched For:

- Reduced run in time
- Negligible preload expansion

All Chains Supplied With Connectors

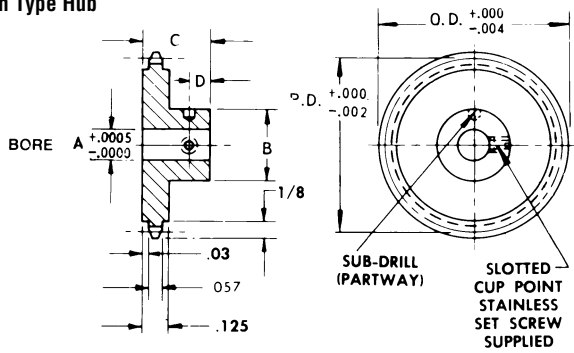
Random lengths available: Specify part number by indicating total number of links ÷ 10 after series number. Specify even numbers of links including connector.

Example: EL-54.4 contains 544 links; EL-12.8 contains 128 links.

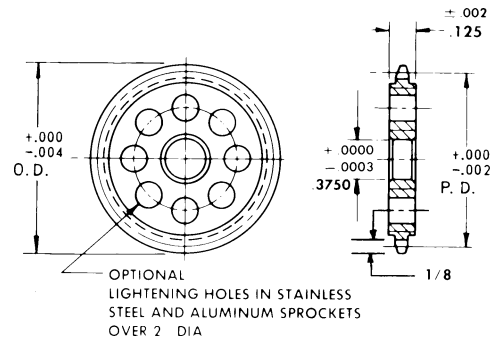
Closed loop chain available on request (specify length)

.1475 PITCH MINIATURE PITCH SPROCKETS

Pin Type Hub



Hubless



| Dimension | Bore | | | | |
|-----------|-------|-------|-------|---------|---------|
| | 1/8 | 3/16 | 1/4 | 4mm | 6mm |
| A | .1248 | .1873 | .2498 | .1573 | .2360 |
| B | .312 | .375 | .500 | .375 | .500 |
| C | .312 | .343 | .375 | .343 | .375 |
| D | .090 | .110 | .120 | .110 | .120 |
| Set Screw | #2-56 | #4-40 | #6-32 | M2 x .4 | M3 x .5 |

Material: 303 Stainless Steel
2024-T4 Aluminum (Chromic Acid Anodize - Before Cutting)

| Sprocket Data | | | Stainless Steel | | | | | | Aluminum | | | | | |
|-----------------|-------|-------|----------------------------------|--------|--------|---------|---------|---------|----------------------------------|----------------------------------|--------|---------|---------|---------|
| | | | Pin Hub Part Number Bore Size | | | | | | Hubless Part No. Bore Size | Pin Hub Part Number Bore Size | | | | |
| Number Teeth | P.D. | O.D. | .1248 | .1873 | .2498 | 4mm | 6mm | .3750 | .1248 | .1873 | .2498 | 4mm | 6mm | .3750 |
| 9 | .431 | .483 | EM1-9 | — | — | — | — | — | EM2-9 | — | — | — | — | — |
| 10 | .477 | .529 | EM1-10 | EM3-10 | — | MMS1-10 | — | — | EM2-10 | EM4-10 | — | MMS2-10 | — | — |
| 11 | .524 | .576 | EM1-11 | EM3-11 | — | MMS1-11 | — | — | EM2-11 | EM4-11 | — | MMS2-11 | — | — |
| 12 | .570 | .622 | EM1-12 | EM3-12 | — | MMS1-12 | — | — | EM2-12 | EM4-12 | — | MMS2-12 | — | — |
| 13 | .616 | .668 | EM1-13 | EM3-13 | EM5-13 | MMS1-13 | MMS3-13 | — | EM2-13 | EM4-13 | EM6-13 | MMS2-13 | MMS4-13 | — |
| 14 | .663 | .715 | EM1-14 | EM3-14 | EM5-14 | MMS1-14 | MMS3-14 | — | EM2-14 | EM4-14 | EM6-14 | MMS2-14 | MMS4-14 | — |
| 15 | .709 | .761 | EM1-15 | EM3-15 | EM5-15 | MMS1-15 | MMS3-15 | — | EM2-15 | EM4-15 | EM6-15 | MMS2-15 | MMS4-15 | — |
| 16 | .756 | .808 | EM1-16 | EM3-16 | EM5-16 | MMS1-16 | MMS3-16 | — | EM2-16 | EM4-16 | EM6-16 | MMS2-16 | MMS4-16 | — |
| 17 | .803 | .855 | EM1-17 | EM3-17 | EM5-17 | MMS1-17 | MMS3-17 | — | EM2-17 | EM4-17 | EM6-17 | MMS2-17 | MMS4-17 | — |
| 18 | .849 | .901 | EM1-18 | EM3-18 | EM5-18 | MMS1-18 | MMS3-18 | — | EM2-18 | EM4-18 | EM6-18 | MMS2-18 | MMS4-18 | — |
| 19 | .896 | .948 | EM1-19 | EM3-19 | EM5-19 | MMS1-19 | MMS3-19 | — | EM2-19 | EM4-19 | EM6-19 | MMS2-19 | MMS4-19 | — |
| 20 | .943 | .995 | EM1-20 | EM3-20 | EM5-20 | MMS1-20 | MMS3-20 | — | EM2-20 | EM4-20 | EM6-20 | MMS2-20 | MMS4-20 | — |
| 21 | .990 | 1.042 | EM1-21 | EM3-21 | EM5-21 | MMS1-21 | MMS3-21 | — | EM2-21 | EM4-21 | EM6-21 | MMS2-21 | MMS4-21 | — |
| 22 | 1.036 | 1.088 | EM1-22 | EM3-22 | EM5-22 | MMS1-22 | MMS3-22 | — | EM2-22 | EM4-22 | EM6-22 | MMS2-22 | MMS4-22 | — |
| 23 | 1.083 | 1.135 | EM1-23 | EM3-23 | EM5-23 | MMS1-23 | MMS3-23 | — | EM2-23 | EM4-23 | EM6-23 | MMS2-23 | MMS4-23 | — |
| 24 | 1.130 | 1.182 | EM1-24 | EM3-24 | EM5-24 | MMS1-24 | MMS3-24 | — | EM2-24 | EM4-24 | EM6-24 | MMS2-24 | MMS4-24 | — |
| 25 | 1.177 | 1.228 | EM1-25 | EM3-25 | EM5-25 | MMS1-25 | MMS3-25 | — | EM2-25 | EM4-25 | EM6-25 | MMS2-25 | MMS4-25 | — |
| 26 | 1.224 | 1.276 | EM1-26 | EM3-26 | EM5-26 | MMS1-26 | MMS3-26 | — | EM2-26 | EM4-26 | EM6-26 | MMS2-26 | MMS4-26 | — |
| 27 | 1.270 | 1.322 | EM1-27 | EM3-27 | EM5-27 | MMS1-27 | MMS3-27 | EM13-27 | EM2-27 | EM4-27 | EM6-27 | MMS2-27 | MMS4-27 | EM14-27 |
| 28 | 1.317 | 1.369 | EM1-28 | EM3-28 | EM5-28 | MMS1-28 | MMS3-28 | EM13-28 | EM2-28 | EM4-28 | EM6-28 | MMS2-28 | MMS4-28 | EM14-28 |
| 29 | 1.364 | 1.416 | EM1-29 | EM3-29 | EM5-29 | MMS1-29 | MMS3-29 | EM13-29 | EM2-29 | EM4-29 | EM6-29 | MMS2-29 | MMS4-29 | EM14-29 |
| 30 | 1.411 | 1.463 | EM1-30 | EM3-30 | EM5-30 | MMS1-30 | MMS3-30 | EM13-30 | EM2-30 | EM4-30 | EM6-30 | MMS2-30 | MMS4-30 | EM14-30 |
| 31 | 1.458 | 1.510 | EM1-31 | EM3-31 | EM5-31 | MMS1-31 | MMS3-31 | EM13-31 | EM2-31 | EM4-31 | EM6-31 | MMS2-31 | MMS4-31 | EM14-31 |
| 32 | 1.505 | 1.557 | EM1-32 | EM3-32 | EM5-32 | MMS1-32 | MMS3-32 | EM13-32 | EM2-32 | EM4-32 | EM6-32 | MMS2-32 | MMS4-32 | EM14-32 |
| 33 | 1.552 | 1.604 | EM1-33 | EM3-33 | EM5-33 | MMS1-33 | MMS3-33 | EM13-33 | EM2-33 | EM4-33 | EM6-33 | MMS2-33 | MMS4-33 | EM14-33 |
| 34 | 1.598 | 1.650 | EM1-34 | EM3-34 | EM5-34 | MMS1-34 | MMS3-34 | EM13-34 | EM2-34 | EM4-34 | EM6-34 | MMS2-34 | MMS4-34 | EM14-34 |
| 35 | 1.645 | 1.697 | EM1-35 | EM3-35 | EM5-35 | MMS1-35 | MMS3-35 | EM13-35 | EM2-35 | EM4-35 | EM6-35 | MMS2-35 | MMS4-35 | EM14-35 |
| 36 | 1.692 | 1.744 | EM1-36 | EM3-36 | EM5-36 | MMS1-36 | MMS3-36 | EM13-36 | EM2-36 | EM4-36 | EM6-36 | MMS2-36 | MMS4-36 | EM14-36 |
| 38 | 1.786 | 1.838 | EM1-38 | EM3-38 | EM5-38 | MMS1-38 | MMS3-38 | EM13-38 | EM2-38 | EM4-38 | EM6-38 | MMS2-38 | MMS4-38 | EM14-38 |
| 40 | 1.880 | 1.932 | EM1-40 | EM3-40 | EM5-40 | MMS1-40 | MMS3-40 | EM13-40 | EM2-40 | EM4-40 | EM6-40 | MMS2-40 | MMS4-40 | EM14-40 |
| 42 | 1.974 | 2.026 | EM1-42 | EM3-42 | EM5-42 | MMS1-42 | MMS3-42 | EM13-42 | EM2-42 | EM4-42 | EM6-42 | MMS2-42 | MMS4-42 | EM14-42 |
| 44 | 2.068 | 2.120 | EM1-44 | EM3-44 | EM5-44 | MMS1-44 | MMS3-44 | EM13-44 | EM2-44 | EM4-44 | EM6-44 | MMS2-44 | MMS4-44 | EM14-44 |
| 45 | 2.114 | 2.166 | — | — | — | — | — | EM13-45 | — | — | — | — | — | EM14-45 |
| 48 | 2.255 | 2.307 | — | — | — | — | — | EM13-48 | — | — | — | — | — | EM14-48 |
| 50 | 2.349 | 2.401 | — | — | — | — | — | EM13-50 | — | — | — | — | — | EM14-50 |
| 52 | 2.443 | 2.495 | — | — | — | — | — | EM13-52 | — | — | — | — | — | EM14-52 |
| 54 | 2.537 | 2.589 | — | — | — | — | — | EM13-54 | — | — | — | — | — | EM14-54 |
| 55 | 2.584 | 2.636 | — | — | — | — | — | EM13-55 | — | — | — | — | — | EM14-55 |
| 56 | 2.631 | 2.683 | — | — | — | — | — | EM13-56 | — | — | — | — | — | EM14-56 |
| 60 | 2.818 | 2.870 | — | — | — | — | — | EM13-60 | — | — | — | — | — | EM14-60 |
| 65 | 3.053 | 3.105 | — | — | — | — | — | EM13-65 | — | — | — | — | — | EM14-65 |
| 70 | 3.288 | 3.340 | — | — | — | — | — | EM13-70 | — | — | — | — | — | EM14-70 |
| 72 | 3.382 | 3.434 | — | — | — | — | — | EM13-72 | — | — | — | — | — | EM14-72 |
| 75 | 3.522 | 3.574 | — | — | — | — | — | EM13-75 | — | — | — | — | — | EM14-75 |
| 80 | 3.757 | 3.809 | — | — | — | — | — | EM13-80 | — | — | — | — | — | EM14-80 |
| 85 | 3.992 | 4.044 | — | — | — | — | — | EM13-85 | — | — | — | — | — | EM14-85 |