

Belt Drive Products

Metric Sheaves & Timing Pulleys

Metric V-Belt TL SP Sheaves

PTI offers a full line of these widely used Metric V-Belt Sheaves from stock. These European standard sheaves, (commonly known as V-pulleys in Europe) utilize standard TL Tapered Bushing for mounting. The TL Bushing is available in both inch and metric shaft sizes. The SPZ, SPA, SPB and SPC Sheaves relate to the 4 different belt sections (i.e. Z, A, B and C) which is the standard European metric V-belt drive. The standard sheave will accommodate both standard or cogged belts. These friction drive sheaves are stocked up to 1250mm pitch diameter and thru 6 or 8 grooves on most sizes. 10 grooves and more are a normal MTO request. Bored to size and pilot bore sheaves are also available on request. These sheaves are versatile, smooth running and transfer significant power very economically.



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Metric Variable Pitch TL Pulleys

Available in single and double grooves, these variable pitch friction drive pulleys have adjustable pitch diameters that allow for speed adjustment of the driven shaft. Available in Z, A and B belt sections, all mount with the standard TL Tapered Bushings. The pitch diameter is easily adjusted by turning the external face of the pulley by



1/4 turn increments until the desired speed of the driven shaft is achieved.

HTD TL Timing Pulleys

HTD (High Torque Drives) is a positive belt drive and significantly more efficient than traditional Chain or V-Belt drives. The curvilinear shaped tooth is designed to improve torque capacity over traditional Timing and V-belt systems. HTD pulleys utilize metric dimensions and nomenclature. Sizes and designs are standard around the globe. Pulleys are available in tooth pitches of 5mm, 8mm and 14mm and stocked in several standard widths for the popular HTD belts. Wider belts handle increased torque. All stock pulleys are for the global standard TL Tapered Bushing. TL Bushings are available from stock for inch or metric bores. Mounting the HTD TL pulley requires only an Allen wrench and the installed result is a concentric grip on the shaft for vibration free operation. The resulting tight concentric fit to the shaft accommodates high speeds and high torque while eliminating shaft fretting which generally occurs with bored to size pulleys. In addition, these synchronous pulleys are ideal for positioning drives. HTD is a registered trademark of Gates Corporation.



TL Tapered Bushings

TL Tapered bushings are the preferred mounting method for all Metric Drive products, especially on equipment from Europe. PTI stocks both inch and metric bores.



Super Torque TL Timing Pulleys

The Super Torque profile is a metric, rounded shaped standard tooth form in 8mm or 14mm pitch sizes and respective belt widths up to 170mm. These pulleys mount to the shaft using the TL Tapered Bushing. They are suitable for high precision, smooth and quiet operation and have a resistance to abrasion. The length stability of polyurethane belts combine to provide a long service life and maintenance free operation.



XL, L & H Synchronous TL Timing Pulleys

Synchronous Pulleys are a very popular, economical trapezoidal profile timing belt drive, and often replace chain drives. These light weight pulleys are ideal for timed or positioning applications. They are low backlash drivers that transmit a constant linear velocity very efficiently (~98%). They are available in 3 pitch sizes: XL (1/5" pitch), L (3/8" pitch) & H (1/2" pitch) and stocked in a variety of standard belt widths up to 3 inches. The smallest XL sizes are available in aluminum and can be bored to size. The L and H sizes are all stocked for TL tapered bushings. The TL Bushing is available with inch and metric bores.



T-Series & AT-Series Metric Timing Pulleys

These light weight aluminum, positive drive timing pulleys are suitable for moderate power/torque transmission and have reduced rotational inertia. The non-corrosive aluminum provides moderate chemical and corrosion resistance. Ideal for timed applications or for drives in clean environments. They are stocked with pilot bores and can be provided bored to size or with custom bores with face mounting holes. Polyurethane and Neoprene belts, typically steel reinforced, virtually eliminate belt stretch and offer long maintenance free operation. The T profile is a trapezoidal tooth form available in 3 popular sizes: 2.5, 5 and 10 mm. The AT tooth form is a curvilinear tooth available in 5 or 10mm pitch.



Custom Pulleys

Metric pitch timing bars, duplex pulley combinations and custom bores are all possible. Provide a drawing or your technical requirements to our sales department. We will be happy to provide you with options or parts to your specifications.

