CONVEYOR PULLEYS – BULK MATERIALS

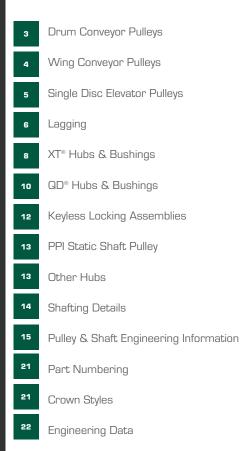
ENGINEERING & DIMENSIONS

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DRUM CONVEYOR PULLEYS



PRO DUTY®

All Pro Duty pulleys feature profiled end discs similar to that found in high tension Turbine pulleys. Profiled end discs are shaped from a solid piece of steel allowing the hub to be machined into it rather than welded in. Welded hubs are the most common failure point for drum pulleys, so reliability is increased dramatically with profiled end discs. In addition, bushing problems and shaft walking are reduced because loading stresses are distributed across a profiled end disc more efficiently.



HEAVY DUTY DRUM PULLEY

Steel rims, hubs and discs are fused into an integral component by a continuous submerged arc welded bond that maximizes pulley strength, balance and concentricity. The HDD is available with various hub and bushing systems.



MINE DUTY DRUM PULLEY

PPI Mine Duty Drum pulleys incorporate heavier rims and end discs compared to HDD pulleys. Suited for more demanding applications, such as frequent starts and stops with a loaded belt or where increased reliability is desired.



ENGINEERED CLASS DRUM PULLEY

PPI Engineered Class pulleys are supplied with various hub and bushing systems including keyless locking devices which are common on high tension steel cable belt systems.



SPIRAL DRUM PULLEY

The PPI Spiral Drum pulley is formed by a pair of vertical steel bars helically wound around a Heavy Duty Drum (HDD) pulley. This unique design is frequently used when additional cleaning action is desired without introducing additional belt vibration.



EZ MOUNT PULLEY SYSTEM

EZ Mount is a unique pulley and shaft system that allows for fast and economical bearing and shaft replacement without removing the pulley from the conveyor reducing maintenance and replacement time by using rugged engineered stub shafts.



TURBINE PULLEY

Today's efficient high tonnage mines demand dependable long life components. Using state of the art engineering and design techniques, such as Precision Finite Element Analysis, PPI meets these needs by controlling material stress points.

WING CONVEYOR PULLEYS

HERRINGBONE WING®

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The PPI Herringbone Wing® was designed for those applications where conventional wings suffer from excessive material lodging and wing folding. The extreme wing angles of up to 45 degrees, use the rotation of the pulley to eject material out the sides of the pulley rather than recirculating it as a conventional wing often does. These extreme angles and optimized wing height, along with a center reinforcement disc, all combine to make an incredibly strong design that excels where others fail.

Also available in a CEMA version ideally suited for less demanding applications as well as with ContinuWing® technology for highly abrasive conditions.

HEAVY DUTY WING PULLEY

The PPI Heavy Duty Wing is an all-steel construction including wings and gussets. It expels excessive build-up of material from the area of belt contact enhancing traction and reducing abrasion of both the belt and pulley. Where abrasion and excessive build-up conditions exist, the HDW pulley with self cleaning action provides an excellent alternative to conventional drum style pulleys. Available with various hub and bushing systems.

MINE DUTY WING PULLEY

Demanding wing pulley applications call for PPI Mine Duty Wing pulleys. Mine Duty Wing pulleys provide effective self-cleaning action reducing material build-up. The extra heavy duty construction reduces the possibility of metal fatigue and enhances the dependability of the pulley. Ideally suited for harsh application and abrasive conditions.

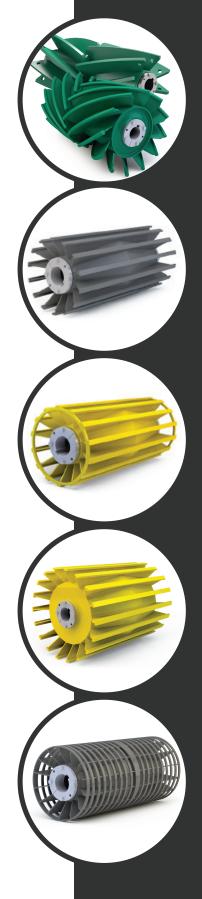
QUARRY MAX DUTY WING PULLEY

The Quarry Max Duty Wing pulley is made for severe applications where wing folding and abrasion issues are a concern. It has a massive contact bar and thick wings. The Quarry Max Duty Wing resists wing folding by utilizing an end disc when necessary to keep wing heights ideal, short enough to resist folding, long enough to provide adequate rigidity. Ideally suited for harsh applications and for very abrasive conditions.

Also available with ContinuWing® technology for abrasive conditions.

SPIRAL AND SPIRAL PLUS WING PULLEY

The PPI Spiral Wing and Spiral Plus Wing pulleys are formed by winding flat bar spirally from the center of a wing pulley to the outside ends. This continuous belt contact design eliminates excessive noise and vibration, while still providing a cleaning effect and allowing a path for debris to escape rather than being trapped between the pulley and belt.



SINGLE DISC AND GRAIN PULLEYS

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GRAIN HERRINGBONE WING CONVEYOR PULLEY

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PPI's Grain Herringbone Wing combines improved wear, quieter operation and gentle grain handling compared to standard wing pulleys. It has more wings to support thin grain belting and it has rubber flappers to lift grain and throw it back on to the belt in enclosed conveyors.

BOOT HERRINGBONE WING CONVEYOR PULLEY

The patented PPI Boot Herringbone Wing pulley combines improved wear, quieter operation and gentle grain handling, along with a sensor ring for use with proximity or heat sensors.



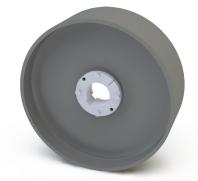
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A continuous weld of the disc to the rim, coupled with heavy duty construction and a high compression hub and bushing, provides a one-piece, all-steel, single disc pulley capable of reducing stress and deflection.

Single Disc Elevator pulleys (SDE) are constructed with a standard crown face and XT hubs unless otherwise specified.

SDE pulleys are also available with other hub and bushing systems.



BUSHING INSETS

	FACE WIDTH								
HUB		9	11	13	15	16			
XT25	2 9/16	3 1/16	4 1/16	5 1/16	6 1/16	6 9/16			
XT30	2 1/2	3	4	5	6	6 1/2			
XT35	2 1/4	2 3/4	3 3/4	4 3/4	5 3/4	6 1/4			
XT40	2 1/8	2 5/8	3 5/8	4 5/8	5 5/8	6 1/8			
XT45	2	2 1/2	3 1/2	4 1/2	5 1/2	6			
XT50	1 3/4	2 1/4	3 1/4	4 1/4	5 1/4	5 3/4			
SF	2 1/2	3	4	5	6	6 1/2			
E	2	2 1/2	3 1/2	4 1/2	5 1/2	6			
F	1 3/4	2 1/4	3 1/4	4 1/4	5 1/4	5 3/4			
JS	1 5/8	2 1/8	3 1/8	4 1/8	5 1/8	5 5/8			
MS	1 3/8	17/8	2 7/8	3 7/8	4 7/8	5 3/8			
NS	1 1/8	1 5/8	2 5/8	3 5/8	4 5/8	5 1/8			

LAGGING FOR DRUM CONVEYOR PULLEYS Constant Charter

PPI has complete in-house pulley lagging capabilities. Every step of the pulley manufacturing and lagging process is controlled internally, which assures quality, prompt delivery and competitive pricing of lagged pulleys. Available in a wide variety of styles and thicknesses, lagging is primarily used to improve traction capacity, resist abrasive conditions and extend pulley and belt life. The style of lagging required is usually influenced by operating conditions. While the standard is 60 durometer, it is available in various durometers. with 45 and 70 being common alternates. SBR is standard; Neoprene and MSHA are available as well as a wide variety of other compounds.

Other lagging is available for specific applications. An example of this is roughtop lagging. This is used for small diameter drive pulleys. It is created by lagging the pulley, but before the rubber is cured, a special mold is applied to cause the grooves to be formed in the lagging. It is then cured with this form in place. It gives excellent traction, without cutting grooves. By forming the groove in the lagging, PPI can offer roughtop on thin lagging, such

as 1/4". Consult the factory for your specific requirements.



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HERRINGBONE GROOVE LAGGING (HBG)

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The style of lagging required is usually influenced by operating conditions. This style grooving is where the points do not meet in the middle. This is normally used in drive pulleys, with the V pointing in the direction of rotation. (3/8)minimum thickness)

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CHEVRON GROOVE LAGGING (CHE)

Based on preference Chevron Groove lagging is available. Providing the same functionality as Herringbone grove lagging. (3/8" minimum thickness)

DIAMOND GROOVE LAGGING (DIA)

Diamond, or double HBG, or double chevron is primarily used for reversing conveyor drive pulleys. It is also often used for spare pulleys when direction of rotation has not yet been identified. (3/8" minimum thickness)

CIRCUMFERENTIAL GROOVE LAGGING (CIR)

Used on non drive pulleys in very wet applications or cold temperatures. It allows the lagging to deflect, keeping material from building up on the lagging. (3/8" minimum thickness)

ALIGNER GROOVE LAGGING (LOR)

This is a Lorig style lagging. Lorig is used on flat face pulleys, the lagging is machined flat, then grooves are machined in at an angle. This results in a training action. As the rubber is compressed by the belt, the lagging will deflect towards the center, helping to track the belt. (3/4" normal thickness)

CERAMIC LAGGING

Ceramic lagging is ceramic tiles molded into a rubber compound. Providing for excellent traction, reducing slippage and offering excellent abrasion resistance.

VULCANIZED ENGINEERED CERAMIC LAGGING (VEC)

Our patented VEC lagging starts with SBR or Neoprene lagging that is hot vulcanized on a pulley. Our uniquely designed tiles are then embedded in the vulcanized lagging. This design eliminates seams, where failures often start. This process allows flexibility in tile coverage and grooving patterns.



FIELD REPLACEABLE LAGGING

PPI offers three different options for lagging that can be replaced in the field ideal for areas where pulley removal is difficult. EZ Lag and Craft-lag is for drum pulleys and Fas Lag is for wing pulleys.

LAGGING FOR DRUM CONVEYOR PULLEYS

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LAGG	ING COMPOUND			CHEM	/ICAL RESIST	ANCE PROPEI	RTIES		
Material	Shore A Duro ±5	Color	Oil & Gas	Animal/ Vegetable Oils	Alcohols	Alkalies	Acids	Oxygen Solvent	REMARKS
SBR	45, 60, 70, 80, 90	BLACK	D	С	В	С	C+	В	Low Cost
NEOPRENE	45*, 60*, 75, 85	BLACK	C+	В	B+	А	В	D+	Grain & MSHA
URETHANE	45, 60, 90	RED	B+	В	C+	D	D+	D	Low Temp
ABRASION RESISTANT	60	BLACK	D	С	В	С	C+	В	Abrasion Resistant
NITRILE	45, 60	BLACK	B+	B+	C+	B+	В	D	Oil Resistant
EPDM	60-BLK, 70-WHT	BLK/WHT	D	В	C+	B+	В	B+	High Temperature
NATURAL	60, 70-BLK/60-WHT	BLK/WHT	D	С	В	С	C+	В	
NEOPRENE (FDA)	60	WHITE	C+	В	B+	A	В	D+	Food Service
NITRILE (FDA)	50, 90	WHITE	B+	B+	C+	B+	В	D	Food Service
HYPALON	60	BLACK	С	В	A	B+	B+	В	

LAG	GING COMPOUND			ENVIRONMENTAL RESISTANCE PROPERTIES						
Material	Shore A Duro ±5	Color	Oxidation	Ozone	Weathering	Sunlight	Water	Flame	Heat	
SBR	45, 60, 70, 80, 90	BLACK	C+	D	С	С	B+	D	C+	
NEOPRENE	45*, 60*, 75, 85	BLACK	B+	В	В	B+	В	B *	C+	
URETHANE	45, 60, 90	RED	B+	А	B+	B+	В	D+	C+	
ABRASION RESISTANT	60	BLACK	C+	D	С	С	B+	D	C+	
NITRILE	45, 60	BLACK	C+	D	C+	D+	B+	D	В	
EPDM	60-BLK, 70-WHT	BLK/WHT	B+	А	A	А	А	D	B+	
NATURAL	60, 70-BLK/60-WHT	BLK/WHT	C+	D	С	D+	А	D	С	
NEOPRENE (FDA)	60	WHITE	B+	В	В	B+	В	В	C+	
NITRILE (FDA)	50, 90	WHITE	C+	D	C+	D+	B+	D	В	
HYPALON	60	BLACK	А	А	A	A	В	B+	B+	

LAGGI	NG COMPOUND				PHYSICAL	PROPERTIE	S		
Material	Shore A Duro ±5	Color	Min Tensile Str. (Psi)	Elongation	Max Temp	Min Temp	300% Mod (Psi)	REMARKS	
	45		1400	500%			400		
	60		1825	450%]		1100		
SBR	70	BLACK	2000	400%	225 F	-50 F	1400	Cost Effective	
	80		2400	400%]		N/A		
	90		N/A	N/A]		N/A		
	45*		1500	400%			450		
NEOPRENE	60*	BLACK	1800	350%	212 F	-50 F	1100	Grain	
NEOPRENE	75	BLACK	1850	290%		-50 P	N/A	& MSHA	
	85		1600	200%]		1175		
	45		1960	710%			310		
URETHANE	60	RED	2770	570%	225 F	-40 F	1330	Cold Temperatures	
	90		4700	450%			2100		
ABRASION RESISTANT	60	BLACK	1325	450%	200 F	-40 F	600		
NITRILE	45	BLACK	1210	840%	250 F	-40 F	190	Oil Resistant	
INITALLE	60	BLACK	1870	690%	250 F	-40 F	390		
EPDM	60	BLACK	1500	450%	300 F	-40 F	350	Heat Resistant	
EFDIM	70	WHITE	1080	520%	300 F	-40 F	500		
NATURAL	60	BLACK	3000	450%	180 F	-45 F	1000		
NATURAL	70	BLACK	1470	330%	160 F	-40 F	1310		
NEOPRENE (FDA)	60	WHITE	1200	600%	212 F	-50 F	375	Food Grade	
NITRILE (FDA)	50	WHITE	N/A	N/A	250 F	-40 F	N/A	Food Grade	
INITULE (FDA)	90		N/A	N/A	200 F	-40 F	N/A	Food Grade	
HYPALON-CSM	60	BLACK	1700	570%	225 F	-40 F	650		

* Requires a stamp for MSHA approval.

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- Use a flame resistant lagging in all grain or underground applications.

- Use a static conductive lagging in all applications with grain or material containing explosive dust.

• FDA approved for food grade application.

XT® HUBS & BUSHINGS

XT[®] Hubs & Bushings were computer-designed and specifically developed for conveyor pulley applications. This design utilizes a tapered bore bushing that provides all the holding power needed for conveyor pulleys and allows easier installation and removal than other bushing types.

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- Designed for conveyor pulley applications
- 2" per foot taper

- Self-seating no need to hammer bushing in
- Less axial movement reduces end disc stress and seats quicker
- High clamping force eliminates the need for keyway on non-drives
- Bolts equally spaced for even draw-up
- More material in the barrel
- Full-length hub engagement
- Flange deflection stores up capscrew torque for seating while running
- Easy removal
- Full-size keys in max bores for size 50 and larger

PPI offers the XT® with larger hub diameters and longer hubs for greater load capacity.

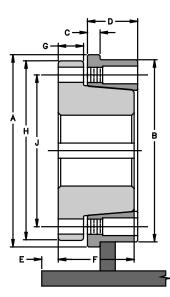
PPI has found that the XT[®] taper and heavy barrel are best suited to our design philosophy and recommends them for pulley hub usages. For metric key sizes, please see our website at www.ppi-global.com.

	HUB DIMENSION						BUSHING DIMENSION						
HUB	MAX BORE	Outside Diameter (A)	Minor Outside Diameter (B)	Flange Thickness (C)	Length (D)	Bushing Inset (E)	Length (F)	Flange Thickness (G)	Flange Outside Diameter (H)	Bolt Circle (J)	# Bolts	Bolt diameter	Torque (in Ibs)
XT15	1.5	3 1/4	2 7/8	1/4	3/4	7/16	1 1/8	3/8	2 7/8	2 7/16	4	1/4	95
XT20	2	4 1/8	3 3/4	1/4	7/8	9/16	1 1/2	15/32	3 3/4	3 3/16	4	5/16	200
XT25	2.5	4 3/4	4 1/2	5/16	1 1/4	3/8	17/8	5/8	4 7/16	3 3/4	4	3/8	350
XT30	3	6	5 3/4	3/8	1 1/2	7/16	2 1/16	11/16	5 5/16	4 9/16	4	7/16	550
XT35	3.5	6 3/4	6 1/2	3/8	13/4	9/16	2 1/2	25/32	6 5/16	5 7/16	4	1/2	840
XT40	4	7 3/4	7 1/2	1/2	17/8	13/16	2 13/16	7/8	7 1/8	6 1/8	4	9/16	1,200
XT45	4.5	8 1/4	8	1/2	2 1/8	15/16	3 5/16	15/16	8	6 7/8	4	5/8	1,680
XT50	5	10 1/4	9 7/8	5/8	2 3/8	7/8	3 3/4	1	10 1/8	8 5/16	4	3/4	3,000
XT60	6	11 7/8	11 1/2	13/16	2 7/8	13/16	4 1/8	1 1/8	11 15/16	9 7/8	4	7/8	4,800
XT70	7	13 7/8	13 1/2	15/16	3 1/8	1	4 11/16	1 5/16	13 15/16	11 9/16	4	1	7,200
XT80	8	15 1/4	14 3/4	1	3 5/8	1 1/16	5 1/8	1 3/8	15 5/8	12 7/8	4	1 1/8	9,000
XT100	10	18	17 1/2	1 1/8	4 1/8	1 1/8	6 3/16	1 9/16	17 15/16	15 9/16	6	1 1/8	9,000
XT120	12	21	20 1/2	1 5/16	4 7/8	7/8	7 1/16	1 3/4	20 5/8	18 3/16	8	1 1/8	9,000

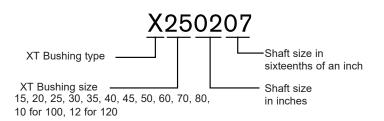


XT® KEY SIZES

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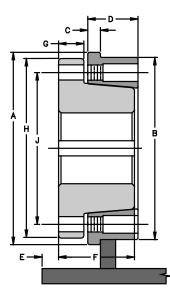


- Keys are provided for shaded cells only (non-standard key sizes)
- Subject to change without notice
- Unshaded key sizes are FULL depth keys
- For metric key sizes, please go to www.ppi-global.com



HUB	BORE RANGE	KEY	WAY	KEYSTOCK	НИВ	BORE RANGE	KEY	WAY	KEYSTOCK
пор	DONE NANGE	Shaft	Bushing	RETSTOCK	пов	BUNE NAINGE	Shaft	Bushing	REISTOCK
	1/2-9/16	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8		2 7/16 - 2 3/4	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8
	5/8-7/8	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16		2 13/16 - 3 1/4	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4
XT15	15/16 - 1 1/4	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4	XT45	3 5/16 - 3 3/4	7/8 x 7/16	7/8 x 7/16	7/8 x 7/8
	1 5/16 - 1 3/8	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16		3 13/16 - 4 5/16	1 x 1/2	1 x 1/2	1 x 1
	1 7/16 - 1 1/2	3/8 x 3/16	3/8 x 1/8	3/8 x 5/16		4 3/8 - 4 1/2	1 x 1/2	1 x 3/8	1 x 7/8
	3/4-7/8	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16		2 15/16 - 3 1/4	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4
	15/16 - 1 1/4	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4	VTFO	3 5/16 - 3 3/4	7/8 x 7/16	7/8 x 7/16	7/8 x 7/8
XT20	1 5/16 - 1 3/8	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16	XT50	3 13/16 - 4 1/2	1 x 1/2	1 x 1/2	1 x 1
	1 7/16 - 1 3/4	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8		4 9/16 - 5	1 1/4 x 5/8	1 1/4 x 5/8	1 1/4 x 1 1/4
	1 13/16 - 2	1/2 x 1/4	1/2 x 3/16	1/2 x 7/16		3 7/16 - 3 3/4	7/8 x 7/16	7/8 x 7/16	7/8 x 7/8
	1 - 1 1/4	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4	V.T.o.o	3 13/16 - 4 1/2	1 x 1/2	1 x 1/2	1 x 1
	1 5/16 - 1 3/8	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16	XT60	4 9/16 - 5 1/2	1 1/4 x 5/8	1 1/4 x 5/8	1 1/4 x 1 1/4
XT25	1 7/16 - 1 3/4	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8		5 9/16 - 6	1 1/2 x 3/4	1 1/2 x 3/4	1 1/2 x 1 1/2
	1 13/16 - 2 1/4	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2		4 15/16 - 5 1/2	1 1/4 x 5/8	1 1/4 x 5/8	1 1/4 x 1 1/4
	2 5/16 - 2 1/2	5/8 x 5/16	5/8 x 1/8	5/8 x 7/16	XT70	5 9/16 - 6 1/2	1 1/2 x 3/4	1 1/2 x 3/4	1 1/2 x 1 1/2
	1 7/16 - 1 3/4	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8		6 9/16 - 7	1 3/4 x 3/4	1 3/4 x 3/4	1 3/4 x 1 1/2
VTOO	1 13/16 - 2 1/4	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2		4 15/16 - 5 1/2	1 1/4 x 5/8	1 1/4 x 5/8	1 1/4 x 1 1/4
XT30	2 5/16 - 2 3/4	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8	VToo	5 9/16 - 6 1/2	1 1/2 x 3/4	1 1/2 x 3/4	1 1/2 x 1 1/2
	2 13/16 - 3	3/4 x 3/8	3/4 x 3/16	3/4 x 9/16	XT80	6 9/16 - 7 1/2	1 3/4 x 3/4	1 3/4 x 3/4	1 3/4 x 1 1/2
	1 15/16 - 2 1/4	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2		7 9/16 - 8	2 x 3/4	2 x 3/4	2 x 1 1/2
	2 5/16 - 2 3/4	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8		6 9/16 - 7 1/2	1 3/4 x 3/4	1 3/4 x 3/4	1 3/4 x 1 1/2
XT35	2 13/16 - 3 1/4	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4	XT100	7 9/16 - 9	2 x 3/4	2 x 3/4	2 x 1 1/2
	3 5/16 - 3 3/8	7/8 x 7/16	7/8 x 7/16	7/8 x 7/8		9 1/16 - 10	2 1/2 x 7/8	2 1/2 x 7/8	2 1/2 x 1 3/4
	3 7/16 - 3 1/2	7/8 x 7/16	7/8 x 5/16	7/8 x 3/4		8 7/16 - 9	2 x 3/4	2 x 3/4	2 x 1 1/2
	2 7/16 - 2 3/4	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8	XT120	9 1/16 - 11	2 1/2 x 7/8	2 1/2 x 7/8	2 1/2 x 1 3/4
	2 13/16 - 3 1/4	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4		11 1/16 -12	3 x 1	3 x 1	3 x 2
XT40	3 5/16 - 3 3/4	7/8 x 7/16	7/8 x 7/16	7/8 x 7/8				-	-
	3 13/16	1 x 1/2	1 x 1/2	1 x 1					
	3 7/8 - 4	1 x 1/2	1 x 3/8	1 x 7/8					

QD® HUBS & BUSHINGS



Contraction of the

QD® has a primary benefit of bushing interchangeability with other shaft mounted components. Its shallow taper provides a high mechanical advantage to assure dependable clamping to the shaft.

- Designed for a wide variety of applications
- 3/4" per foot taper self-seating
- High clamping force eliminates the need for keyway on non-drives

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• Flange deflection stores up capscrew torque for seating while running

			HUB DIMENSION						BL	JSHING				
HUB	MAX BORE*	Outside Diameter (A)	Minor Outside Diameter (B)	Flange Thickness (C)	Length (D)	Bushing Inset (E)	Length (F)	Flange Thickness (G)	Flange Outside Diameter (H)	Bolt Circle (J)	# Bolts	Bolt Diameter	Torque (in Ibs)	
SH	1.44	3	2 7/8	1/4	7/8	9/16	1 5/16	7/16	2 5/8	2 1/4	3	1/4	108	
SDS	2.00	3 1/2	3 1/4	1/4	3/4	9/16	1 5/16	7/16	3 1/8	2 11/16	3	1/4	108	
SK	2.25	4 1/2	4 3/8	3/8	1 1/4	3/8	1 15/16	9/16	3 7/8	3 5/16	3	5/16	200	
SF	2.50	4 3/4	4 1/2	5/16	1 1/4	1/2	2 1/16	5/8	4 5/8	3 7/8	3	3/8	360	
Е	3.00	6	5 3/4	3/8	1 1/2	7/16	2 3/4	7/8	6	5	3	1/2	720	
F	3.50	6 3/4	6 1/2	3/8	1 3/4	3/4	3 3/4	1	6 5/8	5 5/8	3	9/16	900	
JS	4.00	7 3/4	7 1/2	1/2	17/8	11/16	3 3/8	1	7 1/4	6 1/4	3	5/8	1,620	
MS	4.50	9 1/2	9 1/4	1/2	2 1/8	3/4	4 13/16	1 3/16	9	7 7/8	4	3/4	2,700	
NS	5.00	10 1/4	10	5/8	2 3/8	1	6	1 1/2	10	8 1/2	4	7/8	3,600	
PS	6.00	12 1/4	12	7/8	3 1/8	13/16	6 1/2	1 1/2	11 3/4	10	4	1	5,400	
WS	8.00	15 1/4	14 3/4	15/16	3 5/8	1 5/16	7 1/4	1 3/4	15	12 3/4	4	1 1/8	7,200	

*Max bore of QD hubs is the maximum recommended for 2 hub assemblies, such as conveyor pulleys

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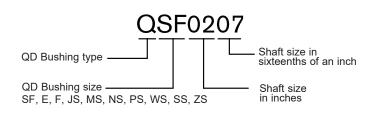
• Keys are provided for shaded cells only, (non-standard key sizes)

Me Buch

• Subject to change without notice

17 State

- Unshaded key sizes are FULL depth keys
- For metric key sizes, please go to www.ppi-global.com



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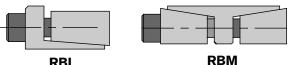
		KEY	WAY	
HUB	BORE RANGE	Shaft	Bushing	KEYSTOCK
	1/2-9/16	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8
	5/8-7/8	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16
	15/16 - 1 1/4	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
SH	1 5/16 - 1 3/8	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16
	1 7/16 - 1 5/8	3/8 x 3/16	3/8 x 1/16	3/8 x 1/4
	1 11/16	NONE	NONE	NONE
	1/2-9/16	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8
	5/8-7/8	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16
	15/16 - 1 1/4	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
SDS	1 5/16 - 1 3/8	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16
	1 7/16 - 1 5/8	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8
	1 11/16 - 1 3/4	3/8 x 3/16	3/8 x 1/8	3/8 x 5/16
	1 13/16 - 2	NONE	NONE	NONE
	1/2-9/16	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8
	5/8-7/8	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16
	15/16 - 1 1/4	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
	1 5/16 - 1 3/8	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16
SK	1 7/16 - 1 3/4	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8
	1 13/16 - 2 1/8	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2
	2 3/16 - 2 1/4	1/2 x 1/4	1/2 x 1/8	1/2 x 3/8
	2 5/16 - 2 1/2	5/8 x 5/16	5/8 x 1/16	5/8 x 3/8
	2 9/16 - 2 5/8	NONE	NONE	NONE
	15/16 - 1 1/4	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
	1 5/16 - 1 3/8	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16
	1 7/16 - 1 3/4	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8
SF	1 13/16 - 2 1/4	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2
35	2 5/16	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8
	2 3/8 - 2 1/2	5/8 x 5/16	5/8 x 3/16	5/8 x 1/2
	2 9/16 - 2 3/4	5/8 x 5/16	5/8 x 1/16	5/8 x 3/8
	2 13/16 - 2 15/16	NONE	NONE	NONE
	1 5/16 - 1 3/8	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16
	1 7/16 - 1 3/4	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8
	1 13/16 - 2 1/4	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2
Е	2 5/16 - 2 3/4	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8
	2 13/16 - 2 7/8	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4
	2 15/16 - 3 1/4	3/4 x 3/8	3/4 x 1/8	3/4 x 1/2
	3 5/16 - 3 1/2	NONE	NONE	NONE

		KEY	WAY	KEVETOOK
HUB	BORE RANGE	Shaft	Bushing	KEYSTOCK
	1 13/16 - 2 1/4	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2
	2 5/16 - 2 3/4	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8
F	2 13/16 - 3 1/4	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4
	3 5/16 - 3 3/4	7/8 x 7/16	7/8 x 3/16	7/8 x 5/8
	3 13/16 - 4	NONE	NONE	NONE
	2 13/16 - 3 1/4	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4
	3 5/16 - 3 3/4	7/8 x 7/16	7/8 x 7/16	7/8 x 7/8
JS	3 13/16	1 x 1/2	1 x 1/2	1 x 1
	3 7/8 - 4	1 x 1/2	1 x 1/4	1 x 3/4
	4 1/16 - 4 1/2	1 x 1/2	1 x 1/8	1 x 5/8
	2 13/16 - 3 1/4	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4
	3 5/16 - 3 3/4	7/8 x 7/16	7/8 x 7/16	7/8 x 7/8
MS	3 13/16 - 4 1/2	1 x 1/2	1 x 1/2	1 x 1
1412	4 9/16 - 4 3/4	1 1/4 x 5/8	1 1/4 x 5/8	1 1/4 x 1 1/4
	4 13/16 - 5 1/4	1 1/4 x 5/8	1 1/4 x 3/8	1 1/4 x 1
	5 5/16 - 5 1/2	1 1/4 x 5/8	1 1/4 x 1/4	1 1/4 x 7/8
	3 5/16 - 3 3/4	7/8 x 7/16	7/8 x 7/16	7/8 x 7/8
	3 13/16 - 4 1/2	1 x 1/2	1 x 1/2	1 x 1
NS	4 9/16 - 5 1/4	1 1/4 x 5/8	1 1/4 x 5/8	1 1/4 x 1 1/4
	5 5/16 - 5 1/2	1 1/4 x 5/8	1 1/4 x 3/8	1 1/4 x 1
	5 9/16 - 6	1 1/2 x 3/4	1 1/2 x 1/4	1 1/2 x 1
	3 13/16 - 4 1/2	1 x 1/2	1 x 1/2	1 x 1
	4 9/16 - 5 1/2	1 1/4 x 5/8	1 1/4 x 5/8	1 1/4 x 1 1/4
PS	5 9/16 - 6 1/4	1 1/2 x 3/4	1 1/2 x 3/4	1 1/2 x 1 1/2
	6 5/16-6 1/2	1 1/2 x 3/4	1 1/2 x 1/2	1 1/2 x 1 1/4
	6 9/16-7	1 3/4 x 3/4	1 3/4 x 1/4	1 3/4 x 1
	5 9/16 - 6 1/2	1 1/2 x 3/4	1 1/2 x 3/4	1 1/2 x 1 1/2
WS	6 9/16 - 7 1/2	1 3/4 x 3/4	1 3/4 x 3/4	1 3/4 x 1 1/2
113	7 9/16 - 8 1/8	2 x 3/4	2 x 3/4	2 x 1 1/2
	8 3/16 - 8 1/2	2 x 3/4	2 x 1/4	2 x 1

KEYLESS LOCKING ASSEMBLIES

The standard in keyless locking assemblies is the RBL, it is self-centering, and no pilot bushing is needed. The single taper design is better able to handle the bending moment present in pulley applications. For high-tension applications, PPI recommends the RBM and the RBH. The graphic shows the relative difference in size and bending moment for each series.

The chart to the right gives a range of standard sizes and the relative torque ratings. This is a representation of the sizes that are commonly available. Nominal inch as well as metric sizes are also available for shaft sizes under 8 inch.



RBL (BENDING RATING 104)



(BENDING RATING 197)

RBH

(BENDING F	ATING 280)
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LOCKING ASSEMBLY	ALLOWABLE BENDING MOMENT
RBL	28%
RBM	32%
RBH	35%

- Allowable bending moment as a percentage of torque rating of the locking assembly
- · Shaft diameters below 8 inch are usually available in nominal inch sizes
- This is a partial list of available series and sizes

PPI HUB	COMPATIBLE LOCKING ASSEMBLIES
RBL	B-LOC 106 • MAV 1061 • RFN 7006
RBM	B-LOC 115 • MAV 1008 • RFN 7009
RBH	B-LOC 112 • MAV 4061 • RFN 7005

KEYLESS LOCKING ASSEMBLY TOROUE RATINGS METRIC ENGLISH SIZE RBH SIZE RBL RBM (in) (mm) 25 308 1 30 1 3/16 370 35 13/8 576 40 11/2 658 45 13/4 1,196 50 1 15/16 1,329 55 2 3/16 1,671 60 23/81.823 65 2 9/16 2,222 2 3/4 3,377 70 75 2 15/16 3,618 80 3 3,859 3 3/8 85 4,613 90 3 7/16 4,885 95 3 3/4 5.729 100 3 15/16 7,024 13,516 110 4 7/16 7,726 14,868 120 43/4 9,482 17,842 4 15/16 14,095 130 24,600 140 5 7/16 15,179 28.384 47,224 150 5 15/16 18,070 30,412 54,211 160 21.202 61.680 34.602 170 6 7/16 24,576 47,291 79,695 180 6 15/16 26,021 50,073 90,410 7 7/16 34,333 190 56,378 101,795

36,140

44,201

60,273

78.355

90,252

108,786

150,537

186,603

210,810

259,609

273,272

66,764

85,055

123,717

140.728

168,979

181,049

257,492

273,586

360,590

380,623

440,721

504,826

528,865

552.904

600,983

626.024

729,193

757,239

841.376

871,425

901,475

107,153

132,602

160,729

182.829

263,439

313,618

351,252

390,977

491,890

543,942

624,622

655,853

687,084

718,316

874,471

910,907

1,015,011

1,054,050

1,165,962

1,207,603

1,288,283

77/8

8,661

9.449

10.236

11.024

11.811

12.598

13.386

14.173

14.961

15.748

16.535

17.323

18.11

18.898

19.685

20.472

21.26

22.047

22.835

23.622

200

220 240

260 280

300

320

340

360

380

400

420

440

460

480

500

520

540

560

580

600

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STATIC SHAFT PULLEY AND OTHER HUB STYLES

and the second and the second

- Static shaft for increased reliability
- Standard spherical bearing

Con Maria

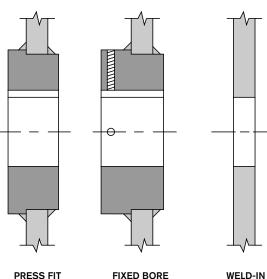
- · Self-aligning bearing transfers load to the shaft
- · Self-aligning bearing does not transfer bending load into the pulley

Al B. The

- · Reduces bending stress on critical weld joints
- Bearing is protected by dual contact seals
- Stationary grease fittings .
- Maintenance-friendly hub bolts with back-out holes
- Welded steel mounting blocks
- Standard mounting pattern for drop-in replacement
- · Available in various pulley styles for non-drive, non-brake, non-backstop pulley locations
- For other sizes and styles contact your local PPI Representative

SIZE	BORE	SIZE	BORE
015	2.953	034	6.693
020	3.937	036	7.087
022	4.331	038	7.48
024	4.724	044	8.661
026	5.118	148	9.449
028	5.512	152	10.236
030	5.906	156	11.024
032	6.299	160	11.811

PPI offers several other styles to fit your particular needs. These include, but are not limited to, Press Fit (interference fit with keyway), Fixed Bore (solid bore, clearance fit with keyway and setscrews), and Weld-in (no hub, welded to the shaft). For more information on these and other means of attaching a pulley to a shaft, contact your local PPI representative.



PRESS FIT

(SOLID BORE) (WELD END DISC TO SHAFT) Lister Balantes

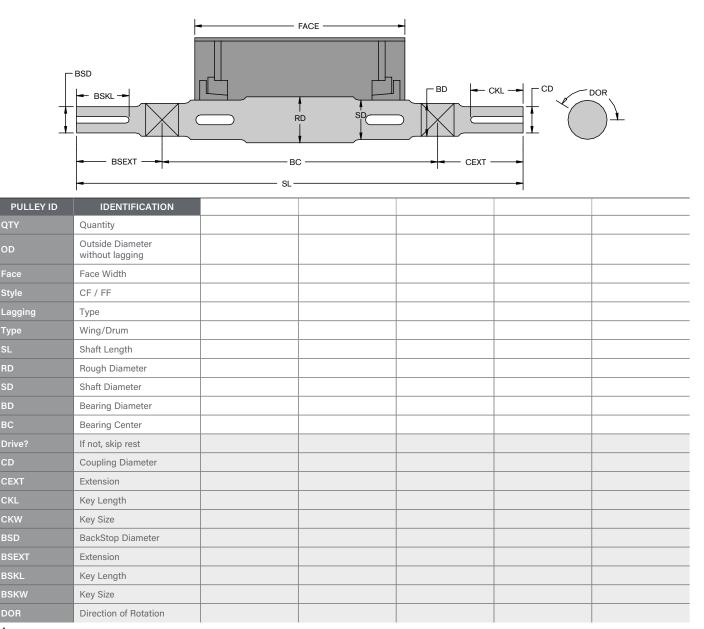
SHAFTING & SHAFT ORDERING DETAIL

PPI conveyor pulley shafting is a vital part of the total pulley assembly. Standard PPI shafting is AISI 1045, which represents the higher carbon range in the open hearth carbon group. Excluding alloy steel, higher carbon content in a AISI 1045 results in one of the strongest steels in the carbon range and machines to a smooth finish. Normally, PPI uses T&P for shafting up through 5-15/16 inches. While hot rolled and/or forged shafting (depending upon size, availability, and specifications) is used above a 6" diameter.

Other materials, including 1018 (used for welding compatibility), 4140, and 4340 (normally used for high stressed areas, such as drive extensions) are available upon request.

Shafting can be keyed or journaled to meet any specification.

Contraction of the second



Martin Landa Hall

- 1. Determine effective tension that is supplied by the motor. Te = HP * 33,000 / FPM.
- Determine slack side tension. Using the K-factor from Table 1, multiply the effective tension (Te) by K to determine the slack side tension T2 = Te x K.

This is the minimum T2 tension. You may have to add an additional safety factor depending upon your application or how you tension your belt, i.e. wire rope/screw/etc.

3. Determine T1 or tight side tension.

T1 = T2 + Te

12 Colores and his

(for dual drives, add the primary Te to the intermediate tension).

4. Determine the angle of wrap for each pulley.

If unknown, use 180 for tail, take-up, and un-snubbed drives. Use 210 for snubbed drives, 30 for snubs and 90 + the incline angle for bend pulleys.

- 5. To determine the resultant load on non-drive pulleys, multiply the belt tension at that pulley by the resultant load factor in Table 2 for that pulley wrap. Then R = T2 x Factor.
- For Drive pulleys, divide the T1 by T2. Use this ratio and Table 4 to determine the drive pulley resultant load factor. Then R = T2 x Factor.
- Determine Face Width. For belts up through 42 inches add 2 inches to the belt width. For belts 48-60 add a minimum of 3 inches to the belt width.

ANGL

130

135

140

145

150

155

160

165

170

175

180 185

190

195

200 205

210

215

220

225

230

235

240

1.907

1.879

1.848

1.813

1.774

1.732

OF WR

TABLE 2 - NON-DRIVE LOAD

FACTOR

0.261

0.347

0.433

0.518

0.601

0.684

0.765

0.845

0.923

1

1.075

1.147

1.218

1.286

1.351

1.414

1.475

1.532

1.587

1.638

1.687

1.732

1.774

ANGLE

OF WRAP

15

20

25

30

35

40

45

50

55

60

65

70

75

80

85

90

95

100

105

110

115

120

125

8. Determine the shaft size by using Table 5 or Table 6. Subtract the face width from the bearing centers (BC – F). Follow the proper pulley face width column and across from the bearing center minus face value (interpolate if correct amount is not listed) until the load rating is greater than the resultant load determine above. Follow this procedure for each pulley.

- For pulley diameters, check with your belt manufacturer. The belt requirements are the single largest consideration when choosing a pulley diameter.
- 10. Divide the tension at each pulley by the belt width to get the PIW for each pulley, (for the drive use T1) and check this against Table 3, XPD & MDD. If the PIW exceeds the rating for a XPD consider the MDD or increase the diameter. If this results in a pulley that does not fit into your conveyor, please contact PPI Engineering.

TABLE 1 - "K" FACTOR

DRIVE	AU	ТОМАТІС Т	r-U	MANUAL/SCREW T-U				
WRAP	Bare	Lagged	Ceramic	Bare	Lagged	Ceramic		
180	0.84	0.5	0.26	1.2	0.8	0.5		
190	0.77	0.46	0.24	1.1	0.8	0.5		
200	0.72	0.42	0.21	1.1	0.7	0.5		
210	0.67	0.38	0.19	1	0.7	0.4		
220	0.62	0.35	0.17	0.9	0.6	0.4		
230	0.58	0.33	0.16	0.9	0.6	0.4		
240	0.54	0.3	0.14	0.8	0.6	0.4		

LE RAP	FACTOR	OD		ANGLE OF WRAP (XPD)						
	1.813		0-55	60-65	70-100	105-210	215-240	0-240		
	1.848	8	43	57	64	85	64	85		
	1.879	10	53	70	79	105	79	105		
	1.907	12	63	83	94	125	94	125		
	1.932	14	80	107	120	160	120	160		
	1.953	16	98	130	146	195	146	195		
	1.97	18	115	153	173	230	173	230		
	1.983	20	138	183	206	275	206	275		
	1.992	24	173	230	259	345	259	345		
	1.998	30	230	307	345	460	345	460		
	2	36	288	383	431	575	431	575		
	1.998	42	345	460	518	690	518	690		
	1.992	48	403	537	604	805	604	805		
	1.983	54	460	613	690	920	690	920		
)	1.97	60	518	690	776	1035	776	1035		
	1.953						•			
	1.932									

TABLE 3 - PIWRATING

TABLE 4 - DRIVE RESULTANT LOAD FACTOR

Contration of the

T1/T2	Angle of Wrap												
11/12	180	185	190	195	200	205	210	215	220	225	230	235	240
1.8	2.8	2.798	2.79	2.778	2.761	2.739	2.713	2.681	2.645	2.605	2.56	2.511	2.458
1.9	2.9	2.898	2.89	2.878	2.86	2.838	2.811	2.779	2.742	2.701	2.656	2.606	2.551
2	3	2.997	2.99	2.977	2.96	2.937	2.909	2.877	2.84	2.798	2.752	2.701	2.646
2.1	3.1	3.097	3.09	3.077	3.059	3.036	3.008	2.975	2.937	2.895	2.848	2.796	2.74
2.2	3.2	3.197	3.19	3.176	3.158	3.135	3.107	3.073	3.035	2.992	2.944	2.892	2.835
2.3	3.3	3.297	3.289	3.276	3.258	3.234	3.205	3.171	3.133	3.089	3.041	2.988	2.931
2.4	3.4	3.397	3.389	3.376	3.357	3.333	3.304	3.27	3.231	3.187	3.138	3.084	3.027
2.5	3.5	3.497	3.489	3.476	3.457	3.432	3.403	3.368	3.329	3.284	3.235	3.181	3.122
2.6	3.6	3.597	3.589	3.575	3.556	3.532	3.502	3.467	3.427	3.382	3.332	3.278	3.219
2.7	3.7	3.697	3.689	3.675	3.656	3.631	3.601	3.566	3.525	3.48	3.429	3.375	3.315
2.8	3.8	3.797	3.789	3.775	3.755	3.73	3.7	3.664	3.624	3.578	3.527	3.472	3.412
2.9	3.9	3.897	3.889	3.875	3.855	3.83	3.799	3.763	3.722	3.676	3.625	3.569	3.509
3	4	3.997	3.989	3.974	3.955	3.929	3.898	3.862	3.821	3.774	3.722	3.666	3.606
3.1	4.1	4.097	4.088	4.074	4.054	4.029	3.997	3.961	3.919	3.872	3.82	3.764	3.703
3.2	4.2	4.197	4.188	4.174	4.154	4.128	4.097	4.06	4.018	3.971	3.918	3.861	3.8
3.3	4.3	4.297	4.288	4.274	4.253	4.227	4.196	4.159	4.117	4.069	4.017	3.959	3.897
3.4	4.4	4.397	4.388	4.374	4.353	4.327	4.295	4.258	4.215	4.168	4.115	4.057	3.995
3.5	4.5	4.497	4.488	4.473	4.453	4.427	4.395	4.357	4.314	4.266	4.213	4.155	4.093
3.6	4.6	4.597	4.588	4.573	4.553	4.526	4.494	4.456	4.413	4.365	4.311	4.253	4.19
3.7	4.7	4.697	4.688	4.673	4.652	4.626	4.593	4.555	4.512	4.463	4.41	4.351	4.288
3.8	4.8	4.797	4.788	4.773	4.752	4.725	4.693	4.655	4.611	4.562	4.508	4.45	4.386
3.9	4.9	4.897	4.888	4.873	4.852	4.825	4.792	4.754	4.71	4.661	4.607	4.548	4.484
4	5	4.997	4.988	4.973	4.952	4.924	4.892	4.853	4.809	4.76	4.706	4.646	4.583
4.1	5.1	5.097	5.088	5.073	5.051	5.024	4.991	4.952	4.908	4.859	4.804	4.745	4.681
4.2	5.2	5.197	5.188	5.172	5.151	5.124	5.091	5.052	5.007	4.958	4.903	4.843	4.779
4.3	5.3	5.297	5.288	5.272	5.251	5.223	5.19	5.151	5.107	5.057	5.002	4.942	4.877
4.4	5.4	5.397	5.388	5.372	5.351	5.323	5.29	5.251	5.206	5.156	5.101	5.041	4.976

1. 650/4

S. Cal

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Lieven and the

CUAFT						l	FACE WIDTH	ł				
SHAFT DIAMETER	BC-F	12	16	20	26	32	38	44	51	57	63	66
	2	1,000	780	590	440	350	290	240	210	180	170	160
1 3/16	6	570	440	340	250	200	160	140	120	100	90	90
10,10	10	400	310	230	170	140	110	100	80	70	70	60
	14	300	240	180	130	110	90	70	60	60	50	50
	3	1,500	1,400	1,100	790	620	510	440	370	330	300	290
1 7/16	6	1,000	950	720	530	420	350	300	250	220	200	190
	10	700	660	500	370	290	240	210	180	160	140	130
	14	540	510	390	290	230	190	160	140	120	110	100
	3		100	2,000	1,500	1,200	980	830	710	630	570	540
1 11/16	6		00	1,400	1,000	800	660	560	480	430	380	370
	10	1,1		960	700	560	460	390	340	300	270	260
	16		30	660	490	380	320	270	230	210	180	180
	3		700	3,500	2,600	2,100	1,700	1,400	1,200	1,100	990	940
1 15/16	6		500	2,400	1,800	1,400	1,100	980	840	740	670	640
	10		200	1,700	1,200 840	970 670	800 550	680 470	580 400	520 360	470 320	440 310
	3	l,2	5,300	1,100	4,200	3,300	2,800	2,400	2,000	1,800	1,600	1,500
2 3/16	8	2,900		2,300	1,900	1,500	1,300	1,100	1,000	900	800	
	12		2,200		1,700	1,400	1,100	1,000	800	700	700	600
	12	1,500		1,200	1,000	800	700	600	500	500	400	
	4	6,300			5,600	4,400	3,700	3,100	2,700	2,400	2,100	2,000
	8	4,000		3,600	2,900	2,400	2,000	1,700	1,500	1,400	1,300	
2 7/16	12	3,000		2,700	2,100	1,700	1,500	1,300	1,100	1,000	1,000	
	18	2,100 1,900				1,500	1,300	1,100	900	800	700	700
	4		8,1	00		6,400	5,300	4,500	3,800	3,400	3,100	2,900
	8		5,3	300		4,200	3,400	2,900	2,500	2,200	2,000	1,900
2 11/16	12		3,9	900		3,100	2,600	2,200	1,900	1,600	1,500	1,400
	18		2,8	300		2,200	1,800	1,600	1,300	1,200	1,100	1,000
	4		10,6	600		9,100	7,500	6,400	5,500	4,900	4,400	4,200
2 15/16	8		6,9	900		6,000	4,900	4,200	3,600	3,200	2,900	2,700
2 15/16	14		4,6	600		3,900	3,200	2,800	2,300	2,100	1,900	1,800
	20		3,4	100		2,900	2,400	2,000	1,700	1,600	1,400	1,300
	6			11,600			10,100	8,500	7,200	6,400	5,700	5,500
3 7/16	10			8,500			7,400	6,300	5,300	4,700	4,200	4,000
37710	14			6,700			5,800	4,900	4,200	3,700	3,300	3,200
	20			5,100			4,400	3,800	3,200	2,800	2,500	2,400
	6			16,	700			14,200	12,000	10,600	9,500	9,000
3 15/16	10				400			10,600	8,900	7,900	7,100	6,700
	14				800			8,400	7,100	6,300	5,600	5,300
	20				00			6,400	5,400	4,800	4,300	4,100
	8				600			19,100	16,100	14,200	12,700	12,100
4 7/16	12				300			14,800	12,500	11,100	9,900	9,400
	16				500			12,100	10,300	9,100	8,100	7,700
	22			9,8	800			9,500	8,100	7,100	6,400	6,000

TABLE 5 - RESULTANT LOADS FOR PULLEYS, BASED ON 8000 PSI SHAFT STRESS AND 0.0023 IN/IN SHAFT SLOPE

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TABLE 5 - RESULTANT LOADS FOR PULLEYS, BASED ON 8000 PSI SHAFT STRESS AND 0.0023 IN/IN SHAFT SLOPE

						FACE V	VIDTH				
SHAFT DIAMETER	BC-F	16	20	26	32	38	44	51	57	63	66
	8			25	5,200			23,600	20,800	18,500	17,600
4.45.40	12			19	9,900			18,600	16,400	14,600	13,900
4 15/16	16			16	6,400			15,400	13,500	12,100	11,500
	22		13,000 12,200 10,700 9,600								
	10				26,600				25,100	22,300	21,100
5 7 4 0	14		22,000 20,700 18,400								17,500
5 7/16	18	18,700 17,700 15,700								15,700	14,900
	24				15,300				14,500	12,800	12,200
	10				35	,700				33,100	31,300
	14				29,	.500				27,300	25,900
6	18	25,100 23,300 23,300									
	24				20,	,600				19,000	18,000
	12					39,200				1	38,000
	16					33,200					32,100
6 1/2	20					28,800					27,800
	26					24,000					23,200
	12					49,0	000				
_	16		41,400								
7	20	35,900									
	26					29,9	000				
	14		54,100								
/ -	18					46,5	500				
7 1/2	22					40,8	300				
	28					34,4	100				
	14					65,7	00				
0	18					56,4	100				
8	22					49,5	500				
	28					41,8	00				
	16					67,7	00				
0.1/0	20					59,4	100				
8 1/2	24					52,9	000				
	30					45,4	00				
	16					80,4	100				
0	20					70,5	00				
9	26				·	59,5	500				
	32					51,5	00				
	16					94,5	500				
0.1/0	22					78,1	00				
9 1/2	28					66,5	500				
	34	57,900									
	16					110,0	000				
10	22					91,1	00				
10	28					77,6	00				
	36					64,8	300				

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0114 57		FACE WIDTH											
SHAFT DIAMETER	BC-F	12	16	20	26	32	38	44	51	57	63	66	
	2	740	510	390	280	230	190	160	140	120	110	100	
1 3/16	6	420	290	220	160	130	110	90	80	70	60	60	
1 5/10	10	290	200	150	110	90	70	60	50	50	40	40	
	14	230	150	120	90	70	60	50	40	40	30	30	
	3	1,100	920	700	510	410	340	290	240	220	200	190	
1 7/16	6	760	620	470	350	270	230	190	170	150	130	130	
11,10	10	530	430	330	240	190	160	140	120	100	90	90	
	14	410	330	250	190	150	120	100	90	80	70	70	
	3	1,800	1,700	1,300	970	770	640	540	460	410	370	350	
1 11/16	6	1,200	1,170	890	660	520	430	370	310	280	250	240	
	10	850	820	620	460	360	300	260	220	190	170	170	
	16	590	560	430	320	250	210	180	150	130	120	110	
	3		700	2,300	1,700	1,300	1,100	950	810	720	640	610	
1 15/16	6		00	1,600	1,100	910	750	640	550	480	440	410	
	10		00	1,100	800	630	520	450	380	340	300	290	
	16		90	750	550	430	360	310	260	230	210	200	
	3		900	3,700	2,800	2,200	1,800	1,500	1,300	1,200	1,000	1,000	
2 3/16	8		200	2,100	1,500	1,200	1,000	850	730	650	580	550	
	12	1,600		1,500	1,100	890	740	630	540	480	430	410	
	18	1,200 1,100		1,100	810	640	530	450	390	340	310	290	
	4	4,700			3,700	2,900	2,400	2,000	1,700	1,500	1,400	1,300	
2 7/16	8	3,000			2,400	1,900	1,500	1,300	1,100	1,000	900	850	
	12		2,200		1,700	1,400	1,100	970	830	740	660	630	
	18		1,600		1,200	990	820	700	590	530	470	450	
	4		6,100		5,300	4,200	3,400	2,900	2,500	2,200	2,000	1,900	
2 11/16	8		4,000		3,400	2,700	2,200	1,900	1,600	1,400	1,300	1,200	
	12		3,000		2,600	2,000	1,700	1,400	1,200	1,100	970	920	
	18		2,100		1,800	1,500	1,200	1,000	870	770	700	660	
	4		8,000		7,500	6,000	4,900	4,200	3,600	3,200	2,900	2,700	
2 15/16	8		5,200		4,900	3,900	3,200	2,700	2,300	2,100	1,900	1,800	
	14 20		3,400		3,200	2,600	2,100	1,800	1,500	1,400	1,200	1,200 870	
	6		2,500	700	2,400	1,900 8,000	1,600 6,600	1,300 5,600	1,100 4,700	1,000	910 3,700	3,600	
	10			100		5,900	4,800		3,500		2,700	2,600	
3 7/16	14			00		4,600	3,800	4,100 3,200	2,700	3,100	2,200	2,000	
	20			300		3,500	2,900	2,400	2,100	1,800	1,600	1,600	
	6		3,0	12,500		3,500	11,000	9,300	7,800	6,900	6,200	5,900	
	10			9,300			8,200	6,900	5,800	5,100	4,600	4,400	
3 15/16	14			7,400			6,500	5,500	4,600	4,100	3,700	3,500	
	20			5,600			5,000	4,200	3,500	3,100	2,800	2,700	
	8				700		5,000	12,500	10,500	9,300	8,300	7,900	
	12				400			9,700	8,200	7,200	6,500	6,100	
4 7/16	16				100			7,900	6,700	5,900	5,300	5,000	
	22				100			6,200	5,300	4,600	4,200	3,900	
	~~			1,4	100			0,200	3,300	-,000	7,200	3,300	

all.

TABLE 6 - RESULTANT LOADS FOR PULLEYS, BASED ON 6000 PSI SHAFT STRESS AND 0.0015 IN/IN SHAFT SLOPE

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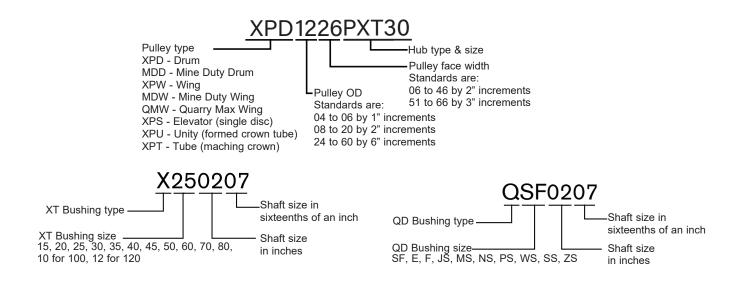
Contraction of the second

						FACE	WIDTH					
SHAFT	BC-F											
DIAMETER	DC-F	16	20	26	32	38	44	51	57	63	66	
	8			18,900			18,300	15,400	13,500	12,100	11,500	
4 15/16	12			14,900			14,400	12,100	10,700	9,500	9,100	
4 15/10	16			12,300			11,900	10,000	8,800	7,900	7,500	
	22			9,800			9,500	8,000	7,000	6,300	5,900	
	10			19	,900			18,700	16,400	14,600	13,800	
5 7/16	14			16	,500			15,500	13,500	12,000	11,400	
57710	18	14,000 13,200 11,500 10,200										
	24			11,	500			10,800	9,400	8,400	7,900	
	10					24,300	21,600	20,400				
6	14	22,100 20,100 17,800										
0	18		17,100	15,200	14,400							
	24				15,400				14,000	12,400	11,800	
	12				29	,400				26,200	24,800	
6 1/2	16				24	,900				22,100	20,900	
01/2	20				21	,600				19,200	18,200	
	26				18,	,000				16,000	15,100	
	12				36	,700				35,200	33,300	
7	16 31,100 20 26,900								29,800	28,200		
,									25,800	24,400		
	26				22	,400	_			21,500	20,300	
	14		40,600								39,700	
7 1/2	18					34,900					34,200	
, ,, _	22					30,600					30,000	
	28					25,800					25,300	
	14					49	,200					
8	18					42	,300					
-	22	37,100										
	28					37	,300					
	16						,800					
8 1/2	20						,500					
	24						,600					
	30						,000					
	16						,300					
9	20						,900					
	26						,600					
	32						,600					
	16						,900					
9 1/2	22						,600					
	28		49,900									
	34		43,400									
	16						2,700					
10	22						,300					
	28						,200					
	36					48	,600					

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TABLE 6 - RESULTANT LOADS FOR PULLEYS, BASED ON 6000 PSI SHAFT STRESS AND 0.0015 IN/IN SHAFT SLOPE

PART NUMBERING AND CROWN FACE STYLES



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PPI's standard face style is a full crown where the OD increases by 1/8" per foot from the edge to the center of the pulley.

HIGH CROWN

and the and

Used on narrow face widths such as elevator pulleys. The crown extends across the entire pulley face similar to standard crown, however the crown rate is 50% to 100% more for better belt tracking.

EDGE OR END CROWN

This is a partial crown, commonly used on tube pulleys. The pulley crown is machined only on the edges at the standard crown rate. The center of the pulley is left unmachined.

TRAP OR TRAPEZOIDAL CROWN

This is a partial crown, also used on tube pulleys. However, the entire face of the pulley is machined for better TIR throughout before crowning the ends at the standard crown rate.

Guilden and Stands

ENGINEERING DATA FOR DESIGN And a sheet so and a sheet sheet a sheet sheet sheet so a sheet so a sheet so a sheet sheet so a sheet sheet so

Company:	Contact
Address:	Phone #
Project:	

my pana hay

CONVEYOR DATA

Contraction of the

Belt:	Fabric Steel Other	Wi	dth
Take-Up:	Gravity Gravity wire r	ope Hydraulic Screw	
Drive:	Motor HP	Speed FPM	CapacityTPH
Layout:	Lengthft	Lift ft	Material:
Service Life:	Shifts per day	Months per year	Pulley Life yrs
Quote:	Bearings type	B10 Life hrs	TU Frame
	Idlers Impact System	EZSlider Smart Roll	

CONVEYOR ID PULLEY LOCATION QUANTITY PULLEY TYPE OUTSIDE DIAMETER (OD) WITHOUT LAGGING FACE WIDTH CROWN OR FLAT FACE LAGGING THICKNESS LAGGING GROOVE LAGGING SPECS SHAFT DIAMETER @ HUB SHAFT DIAMETER @ BRG SHAFT DIAMETER @ DRIVE # KW SHAFT LENGTH **BEARING CENTERS (BC)** WRAP (ARC OF CONTACT)





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