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FULL LINE CATALOG

PPI
Precision Pulley & Idler

**CONTACT YOUR PRECISION
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AND MORE INFORMATION**

Gulf Atlantic

INDUSTRIAL EQUIPMENT INCORPORATED
Concrete, Aggregate, and Material Handling Equipment

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CORPORATE HEADQUARTERS
Pella, Iowa, USA



PRECISION PULLEY AND IDLER was founded in 1977 with the goals of providing high-performance conveyor components and competitive pricing, both combined with unparalleled customer service. These goals have not changed over the years, but in fact, have been enhanced. Every PPI employee is involved in the process of putting you, the customer, first. We listen and understand your needs and know that by responding quickly, we help improve your business profitability and potential. New product ideas and product changes are direct results of customer input.

The PPI staff of Production, Engineering, Quality assurance, customer Service, and Regional Sales People are dedicated to meeting your requirements for quality conveyor components.

We appreciate your business and support. You have our commitment that our goals for product performance, competitiveness, and service will continue as we respond to your requests for the finest conveyor components in the marketplace.

PROUD TO BE 100% EMPLOYEE OWNED

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PRO SERIES DRUM PULLEYS

The Pro Series drum pulley line represents a revolutionary change in the conveyor pulley industry.

Pro Series drums use profiled end disc technology that is most commonly used in turbine pulley designs. The profiled end discs are machined from a solid piece of steel with an integral hub rather than using a welded hub, as conventional pulley construction uses. Removing this welded hub eliminates the most common cause of pulley failure. In addition the end discs have a tapered profile shape so they get thinner towards the outside diameter. The increased flexibility of this design reduces the amount of bending force transferred from the shaft into the pulley and reduces the stress on the bushings and welded joints. These design features all work together to achieve a dramatic increase in service life when compared to a conventional welded hub pulley.

Because of the design strength of the Pro Series we are able to make choosing the right pulley for your application easier than it's ever been. With only two pulley class options we can cover the entire range of non engineered pulleys that has required as many as 4 pulley classes by some other manufacturers. This is because we don't have to consistently increase the thickness of our end disc to overcome the inherent disadvantages of a welded hub design.

Pro Series Drums are only available with XT® bushings or keyless locking assemblies.



CEMA PRO™ DRUM PULLEY

This is our heavy duty Pro Series pulley, designed according to ANSI B105.1 load and dimensional standards. It may be the standard level Pro Series pulley, but there's nothing standard about it. It's loaded with premium features not found in most other top of the line pulleys. Features such as our Pro Disc profiled end discs with integral hubs and multiple pass continuous submerged arc welds ensure a trouble free pulley.

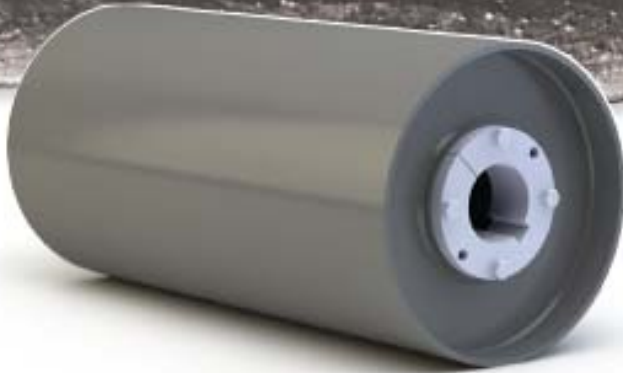
MINE DUTY PRO™ DRUM PULLEY

The PPI Mine Duty name has earned a reputation as a robust pulley capable of enduring severe conditions that land other pulleys in the bone yard. With the addition of PPI Pro Discs the Mine Duty Pro takes reliability to a new level. Its advanced design offers a safety factor that a comparable welded end plate design can't match. This makes it a great choice for critical applications or where pulley change out is difficult.

The Mine Duty Pro has a standard three year warranty.



CONVEYOR PULLEYS ▶ **Drum Pulleys**



"HDD" HEAVY DUTY DRUM CONVEYOR PULLEY

The toughest conveyor applications require ruggedness offered by a PPI "HDD" Heavy Duty Drum Pulley. Completely redesigned using PFEA in combination with our IP-Life program. 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. Available with various hub and bushing systems.

"MDD" MINE DUTY DRUM PULLEY

Mine Duty Drum Pulleys were originally designed for the rugged environment of underground coal mining. Completely redesigned using PFEA in combination with our IP-Life program. Their ultra heavy duty rigid construction has been proven in the toughest conveyor applications. The "good as the shaft" design of PPI Mine Duty Drum Pulleys makes them particularly useful for spares or replacement pulleys in critical positions. Available with various hub and bushing systems.



SPIRAL DRUM CONVEYOR PULLEY

The PPI Spiral Drum Pulley is formed by a pair of vertical steel bars helically wound around a PPI "HDD" Heavy Duty Drum Pulley. This unique design reduces buildup between the belt and the pulley while providing continuous belt contact for applications where wing pulleys cannot be used. Rotation of the pulley automatically starts the cleaning action, discharging foreign material to the side of the conveyor. Available in crown or straight face and also with various hub and bushing systems.

ENGINEERED CLASS DRUM CONVEYOR PULLEY

Bulk handling systems are moving to larger conveyors and increased capacities. The high modules, high tension belts require pulleys of much higher capacity and durability than standard units. PPI has the experience, know how, and equipment to custom design (using our PFEA in combination with our IP-Life model), and fabricate pulleys for each pulley location and application. PPI Engineered Class Pulleys are supplied with various hub and bushing systems including keyless locking devices which are prevalent on high tension steel cable belt systems.



PULLEYS

TURBINE PULLEY

Today's efficient high tonnage mines demand dependable long life components. Using state of the art engineering and design techniques (by using our PFEA in combination with our IP-Life model), PPI meets these needs by controlling material stress points. Incorporating all of the benefits of PPI's proven experience in heavy mining pulleys, the turbine offers our customers world class performance and reliability.



"SDE" SINGLE DISC ELEVATOR PULLEY

Superior strength best characterizes the PPI "SDE" Single Disc Elevator Pulley. Used primarily in the grain industry, the "SDE" Single Disc Elevator Pulley is continuously welded to the rim on both sides of the disc. It's heavy duty construction and a high compression hub and bushing affords a one piece all steel, single disc pulley capable of reducing stress and deflection.

DEFLECTION WHEELS

PPI Deflection Wheels are designed for the deflection of corrugated side wall belting. Cross rigidized base belting with corrugated sidewalls can be deflected from horizontal to any incline and back again with PPI Deflection Wheels. We will build to your specification or our design. Please contact the factory for size range and availability.



SPECIALTY PULLEYS

EZ MOUNT PULLEY SYSTEM

This unique pulley and shaft arrangement allows for fast, safe, and economical bearing and shaft replacement without removing the pulley from the conveyor. It reduces maintenance time, downtime, and scrap loss by using rugged engineered stub shafts. The pulley and shaft system are manufactured to CEMA standards and Mine Duty specifications.



STATIC SHAFT PULLEY (SSP)

Tough conveyor non drive applications require the technology offered by a PPI "SSP" Static Shaft Pulley. The bearing (22200 series) has been moved inside the hub to eliminate the bending moment that causes pulley failures. This patent pending design is available with PPI's LXT sealing system as a standard for the toughest applications. Available with a taconite option that does not extend past the hub. This design extends the life of the product, and at a competitive price. It is available in a wide variety of shaft and pulley sizes and types.



CONVEYOR PULLEYS ▶ Wing Pulleys

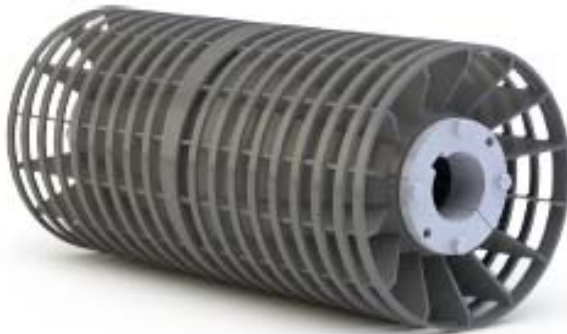


"HDW" HEAVY DUTY WING CONVEYOR PULLEY

Pulley and belt life are extended by the self cleaning action employed by the PPI "HDW" Heavy Duty Wing Pulley. Individual all steel wings and gussets expel excessive build up of material from the area of belt contact which enhances traction and reduces abrasion of both 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 CONVEYOR PULLEY

Demanding wing pulley applications call for PPI Mine Duty Wing Pulleys. Designed after the "HDW" Heavy Duty Wing Pulley, Mine Duty Wing Pulleys feature the same self cleaning action that reduces excessive material build up. The extra heavy duty construction reduces the possibility of metal fatigue and enhances the dependability of the PPI "MDW" Pulley. A $3/4"$ x $3/4"$ reinforcement ring is used on all "MDW" Pulleys. Available with various hub and bushing systems.

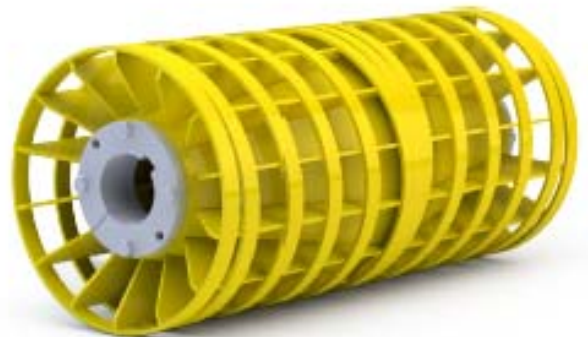


SPIRAL WING CONVEYOR PULLEY

The PPI Spiral Wing Pulley is formed by flat bar helically wound towards one another, welded to all steel wings, with intervals between them to allow excess material to discharge to the side of the conveyor. Although similar to a standard wing pulley, the added strength of the spiraling allows for wider spacing between wings. This design permits continuous pulley contact with the belt during rotation which eliminates excessive noise and vibration without sacrificing self-cleaning action. Available with various hub and bushing systems.

SPIRAL PLUS WING CONVEYOR PULLEY

The Spiral Plus Wing Pulley provides the same benefits as the standard Spiral Wing Pulley, but it is built with Mine Duty Wing material thicknesses, making it more suitable for harsh, demanding applications. In addition to heavier wings, there is also wider spacing between the spiraling and the wings are farther apart to allow for larger debris to exit the pulley. With the Spiral Plus Wing Pulley our goal wasn't to just build a heavier pulley, it was to build a better pulley.



CONVEYOR PULLEYS & LAGGING • Wing Pulleys & Wing Lagging



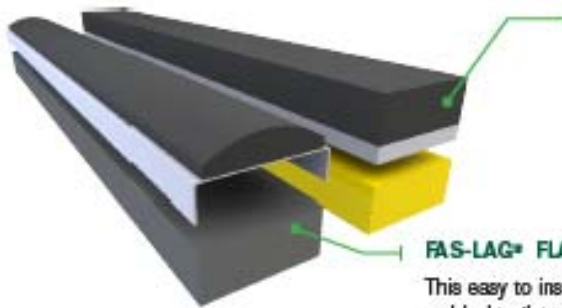
QUARRY MAX DUTY WING CONVEYOR PULLEY

The Quarry Max Duty Wing pulley is made for severe applications where wing folding and abrasion issues are a concern. It resists wing folding by utilizing a Mine Duty End Disc when necessary to keep wing heights ideal, short enough to resist folding, long enough to provide adequate rigidity. Standard materials are 3/8" wings and 3/4" x 2" contact bar, which accommodates our XHD Fas-Lag wing lagging. AR400 contact bar is also available for the most abrasive conditions. Available with various hub and bushing systems.

HERRINGBONE WING CONVEYOR PULLEY

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°, use the pulleys rotation 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.

The Herringbone Wing is available in the standard configuration, an exceptionally robust design for the most challenging applications. There is also a CEMA Herringbone Wing version, ideal for mobile equipment and many common applications with a material size of 3" and less.



XHD FAS-LAG® REPLACEABLE LAGGING

This easy to install wing pulley lagging system is designed for the Quarry Max Duty Wing pulley. It is welded to the flat contact bar to provide additional traction with the belt and added protection for the contact bar and protection for the mechanical splice. The lagging is 2" wide by 1" thick to provide an extended life. The standard is black 60 durometer SBR.

FAS-LAG® FLAT REPLACEABLE LAGGING

This easy to install wing pulley lagging system is designed for original pulley lagging. It is welded to flat contact bar to provide additional traction with the belt and added protection for the contact bar and protection for the mechanical splice. The standard is black 60 durometer SBR, it can be provided with other compounds and colors.

PULLEY ASSEMBLIES

For maximum efficiency and added value, PPI is your single source for conveyor pulley assemblies. PPI can provide pulley lagging, shoring, bearings and Take Up Frames to complete the pulley package. Couplings, backstops, and other components can also be mounted upon request.



UNIT HANDLING PULLEYS & ROLLERS

PULLEYS AND ROLLERS

Unit Handling applications typically have a diameter range of 2" through 12", although larger diameters are occasionally required. For moderate loads, 7 through 14 gauge tubing can provide strong construction with economical pricing. For heavier loads 3/16" through 1/2" thick wall tubing is available.



For applications where belt tracking requires a V-guide in the surface of the pulley, use a **PPIV-GROOVE PULLEY**.



TYPE A:

Plain bore without hub



TYPE B:

Detachable tapered bushing



TYPE C:

Sealed ball bearing cartridge with set screw lock



TYPE D:

Sealed ball bearing cartridge with set screw lock

LAGGING FOR CONVEYOR PULLEYS



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 thickness, 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 as being the common alternates. While SBR is standard, Neoprene and MSHA are available as well as a wide variety of compounds that can be used for extreme situations.

HERRINGBONE GROOVE LAGGING (HBG)

The style of lagging required is usually influenced by operating conditions. Herringbone is shown. This Tractor 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)



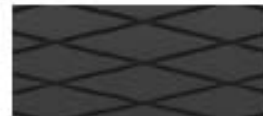
CHEVRON GROOVE LAGGING (CHE)

Some prefer having the points meet, as done in Chevron. This is also used primarily on drive pulleys. (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 one doesn't know the direction of rotation. (3/8" minimum thickness)



CIRCUMFERENTIAL GROOVE LAGGING (CIR)

This is used on non drive pulleys for really wet applications or cold temperatures, which 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" (Lorig is a trademark of US Steel) 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, as you can see in the cross sectional view. (3/4" normal thickness)



CERAMIC LAGGING

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



CRAFT-LAG®

Craft-Lag is bonded to rigid backing, which is then formed to a specific diameter. Craft-Lag can be used with or without retainers and is ideal for mining, crushed stone, sand and gravel, cement, agriculture, food processing, coal mining, power plants, feed and grain, and general industry.



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 the lagging to cause the grooves to be formed in the lagging, and it is 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.

HUBS & BUSHINGS



HUBS & BUSHINGS

PPI offers a wide range of hub and bushing systems for proper mounting of pulley to shaft. Including XT® Hubs and Bushings (maximum bore 12"), QD® Hubs and Bushings (maximum bore 12") and keyless locking assemblies up to 23.622". Other options, such as press fit and solid bore mounting are available upon request. Hubs and Bushings are also available separately.

* QD is a registered trademark of Emerson Electric. XT is a registered trademark of Van Gorp Corporation.

SHAFTING

PPI conveyor pulley shafting is a vital part of the total pulley assembly. Standard shafting is AISI 1045, which is a high carbon steel with great strength and machining characteristics. Other shafting options such as 4140 alloy are also available. Our experienced machine shop can key and journal shafting to meet any specification.



BEARINGS

We had severe conveyor conditions in mind when developing our line of PPI pillow block bearings. That's why we designed our PPI Type E bearing with a double row spherical bearing that allows a misalignment of ± 2 degrees, and a double lip nitrile contact seal that effectively protects from contaminant entry.

Our heavy duty SAF and SDAF bearings are ideally suited for heavy conveyor applications with large double row spherical bearings, robust housings and optional teflon seals.

For those applications where a more economical ball bearing pillow block is called for, we have a durable SCM bearing with a nitrile contact seal that has proven effective in the contaminated environments that are common in our industry.



TAKE UP FRAMES



HEAVY DUTY (PHD) TAKE UP FRAMES

Heavy Duty Take Up Frames are of welded and bolted steel construction. The adjusting screw, which is fully protected, offers maximum strength and ease of adjustment.



HEAVY DUTY HYDRAULIC (PHYD) TAKE UP FRAMES

Hydraulic Heavy Duty Take Up Frames are of welded and bolted steel construction. The adjusting screw, which is fully protected, offers maximum strength and locks the saddle into place. The hydraulic cylinder provides ease of adjustment AND accuracy of tightening.



MEDIUM DUTY (PMD) TAKE UP FRAMES

PPI Medium Duty Take Up Frames give the convenience of use with ball, spherical and sleeve bearings, but use a one-piece saddle for extra strength. The adjusting screw is protected from falling material by the steel angle. The adjusting screw is always in tension regardless of direction of the bearing load.



LIGHT DUTY (PLD) TAKE UP FRAMES

PPI Light Duty Take Up Frames give the convenience of use with ball, spherical and sleeve bearings. The adjusting screw is protected from falling material by the steel angle. The adjusting screw is always in tension regardless of direction of bearing load.



WIDE SLOT CENTRAL PULL (PCP) TAKE UP FRAMES

PPI Wide Slot Center Pulley Take Up Frames use welded steel construction with reinforced steel end plates. The bolted cap rail allows easy access for quick and easy bearing installation.



TAKE UP FRAMES



TOP ANGLE (PTA) TAKE UP FRAMES

PPI Top Angle Take Up Frames are of welded steel construction. The adjusting screw is plated to resist corrosion and is protected by the top angle from falling material. Top Angle Take Up Frames may be used with sleeve type, ball or tapered roller bearings (where the housing fits a round bottom frame).



PROTECTED ANGLE (PPA) TAKE UP FRAMES

PPI Protected Angle Take Up Frames are of welded steel construction. The adjusting screw is plated to resist corrosion and is protected by the top angle from falling material. Top Angle Take Up Frames may be used with sleeve type, ball or tapered roller bearings (that fit a channel bottom frame).



WIDE SLOT SIDE MOUNT (PWS) TAKE UP FRAMES

The PPI Wide Slot frame provides a compact and economical frame that will accept all manufacturers ball bearing cartridge. This frame is especially useful on packaging and other lightweight special conveyors.



SLIDE DUTY (PST) TAKE UP FRAMES

The PPI Slide Tube frame provides a compact and economical frame that will accept all manufacturers pillow blocks. This frame is especially useful on packaging and other lightweight special conveyors.



TROUGHING IDLERS (TE)

PPI Idlers are available in CEMA B, CEMA C, CEMA D and CEMA E series. The "B" series are available in 4" and 5" diameter rolls with 17 mm ball bearings. CEMA C series idlers are available in 4", 5" and 6" diameter rolls with 19 mm ball bearings. CEMA D series idlers are available in 5" and 6" diameter rolls with 25 mm ball bearings. CEMA E series idlers are available in 6" and 7" diameter rolls with 35mm ball bearings. For more extreme loading, our E-Plus idlers are available in 6" and 7" diameter rolls with 40mm ball bearings.



IMPACT TROUGHING IDLERS (TEI)

PPI Impact Idlers are built to withstand the shock at the loading zone. The rubber rolls used on impact idlers are made of natural molded rubber which is ideal for shock absorbing characteristics.



SELF ALIGNING TROUGHING IDLERS (TESA)

PPI Self Aligning Idlers are built to the same specifications as troughing idlers. The frame is mounted on a separate base with tapered roller bearings and is free to swivel within controlled limits. A unique feature of this style is its ability to adjust roll height for additional training. The side guide rolls can be universally mounted on either side for belt travel in either direction or centered at the roll ends for reversing belts.



UNEQUAL TROUGHING IDLERS (TU)

PPI Unequal Idlers (or picking idlers) are available for special conveyors where the product is spread over a flat belt with the side turned up to prevent spillage.



UNEQUAL IMPACT TROUGHING IDLERS (TUI)

PPI Unequal Impact Idlers are built to withstand the shock at the loading zone. The rubber rolls used on impact idlers are made of natural molded rubber which is ideal for shock absorbing characteristics.



ADJUSTABLE PITCH IDLERS (TET)

The ability to change the pitch of the idler allows the conveyor belt to be properly supported as it changes shape from the last carrying idler to the terminal pulley. This idler is available in all CEMA series and roll diameters.



RETRACTABLE FRAME IDLERS (RET)

PPI Retractable Frame Idlers are an excellent choice for impact zones where frequent roll change out is required. The retractable frame design allows for easy roll change out for all roll positions, minimizing downtime. Currently the retractable frame idlers are available in CEMA E with steel or impact rolls.



HDPE IDLER ROLLS

PPI High Density Poly Ethylene (HDPE) Rolls have been engineered to perform in environments where the traditional steel cans may not be the most suitable option. Its HDPE design is great for conveying corrosive, abrasive, and/or sticky material. Not only can these rolls handle a variety of materials, it offers a significant weight reduction compared to a steel equivalent.



FLAT CARRIER IDLERS (F)

PPI Flat Carrier Idlers are constructed to the same specifications as the troughing idlers. The support bracket's strength is equal to or greater than the idler load rating. PPI furnishes 4 1/2" end stands as standard. If a different height is required, please contact the factory.



RUBBER DISC FLAT CARRIER IDLERS (FRD)

Rubber Disc Flat Carrier Idlers are made of abrasion resistant, synthetic rubber with a compression fit between a heavy wall tube and the disc.



SELF ALIGNING FLAT CARRIER IDLERS (FSA)

All of the features that are designed into the Self Aligning Troughing Idlers will be found in this idler.



IDLERS ▶ Complete Line of B,C,D, & E Idlers

TROUGHER IMPACT SYSTEM (TIS)

PPI Trougher Impact System solves the problem of sealing the skirt boards, and the high impact upon the belt. By utilizing its proven impact rolls, along with center support system that is cushioned against the frame, it gives the TIS its double action dampening system. This rugged 5 foot bed is made from welded steel and fits D6 and E7 rolls. While the rolls are D6 or E7, it does come in a low profile version (TISL) that will line up with C5/D5 or an E6. The slider rails come with 1/2" thick UHMW. Also available as a Channel Impact System (CIS).



RETURN IDLERS (R)

PPI Return Idlers are available with 4 1/2" drop brackets unless 1 1/2" drop brackets are requested.



RUBBER DISC RETURN IDLERS (RRD)

Rubber Disc Return Idlers are constructed from abrasion resistant, synthetic rubber discs.



RETURN RUBBER GROOVED IDLERS (RRG)

Return Rubber Grooved Idlers are 1 piece lagged rolled, where the grooves have been machined into the rubber.



SPIRAL URETHANE ROLL

PPI's Spiral Urethane Rolls provide an ever changing point of contact on the belt surface that allows cleaning action without beating the belt. The spiral design is made out of urethane which promotes extended wear qualities and abrasion resistance.



URETHANE SLEEVE ROLL

Return rolls with urethane sleeves, help to prevent material build up, promote longer wear life, prevent the belt from getting stuck between discs and are abrasion resistant.



SELF ALIGNING RETURN IDLERS (RSA)

PPI Self Aligning Return Idlers are comprised of a two piece frame with tapered roller bearings, and are free to swivel within controlled limits. The side guide rolls can be universally mounted on either side for belt travel in either direction or centered at the roll ends for reversing belts.



SELF ALIGNING RUBBER DISC RETURN IDLERS (RRDSA)

All of the features that are designed into the PPI Self Aligning Return Idlers will be found on this idler with the addition of a rubber disc roll.



CHANNEL INSET TROUGHING IDLERS (CIT)

Designed for between frame mounting, PPI offers this style for use where vertical clearances are minimal. This style meets CEBA load requirements and is available in both CEBA B (14"-48") and CEBA C (24"-60") with 4" and 5" diameter rolls.



INVERTED V RETURN (IVR)

Inverted V Return Idlers are used to positively track the belt on the return side of the conveyor. The IVR is adjustable to increase the displacement and the resulting tracking force on the belt.



LIVE SHAFT IMPACT IDLER (LSI)

Extremely rough applications call for an extremely rugged idler, PPI's Live Shaft Impact Idler. This idler consists of our rubber disc mounted on a solid steel shaft. Pillow block bearings are mounted on the turn down ends. PPI can provide pillow block bearings with the live shaft rolls.



RETURN ROLL GUARD (RG)

This guard provides a barricade of the pinch point created by the belt passing over a return roll. Its mounting bracket provides easy installation on 4", 5" or 6" rolls with 4 1/2" or 1 1/2" drop brackets utilizing the return bracket's mounting bolts. While normally used on return rolls with seven feet or less vertical clearance from the ground or decking, it may be used on any return roll.



SPECIALTY PPI PRODUCTS



SMART ROLL

The redesigned Smart Roll has AC/DC/NPN/PNP operation (PLUS 4-20 mA speed detection when used with the new analog smart monitor) from the same unit. This unit has short circuit and overload protected. Sensor life and reliability are extremely important to overall reliability of the conveyor system. The Smart Roll is shown to the left as a CSR (Clean Side Return) with no load, so that the roll life is many times that of a conventional idler.

RETRO ROLLS

High quality, long life, PPI Retro Rolls™ are available with quick delivery to fit CEMA B, C, D, & E frames for other idler manufacturers.



MAGNETIC SPEED SWITCH SERIES

PPI's Speed Switch Design is setting the bar for ease of installation in the conveyor monitoring field. Our innovative magnetic coupling system eliminates the conventional drill and tap of the past. Simply "snap" the sensor into place on the shaft, wire it up, and installation is complete. The magnetic coupling not only makes installation a breeze, it allows the unit to break away from the shaft if struck by errant debris, minimizing equipment damage compared to rigid designs. The Speed Switch Series offers a variety of different pulse outputs and accommodates shaft sizes from 1" in diameter and greater, making it very versatile.



CATENARY & RIGID RAIL STRUCTURE

PPI is proud to offer conveyor structure to accompany our industry proven idler roll design. With the addition of our catenary & rigid rail structure lines, it enables the customer to use PPI as a single source to receive top of the line conveyor equipment. Our catenary structure uses galvanized stringers and is available with adjustable floor stands that have roof hangers incorporated into the design to meet your specific application. Our locking pin design allows for easy conveyor assembly and take down, saving you time and money. The rigid rail design is set up for overland or underground use depending on your situation. The rigid rail is available with three C-channel sizes, 3" 4" & 5" for a wide variety of loading capabilities. With bolt on or clamp on styles available PPI is sure to have a product to meet your needs. Both structure types are available in Cema C, D, & E and 30" - 60" belt widths. For wider belts please call for application assistance.



CUSTOM PRODUCTS



COMPACTION ROLLS

PPI builds compaction rolls to customer specifications. This one is machined, line bored and has a special cone rolled and welded to the rim and end disc to prevent buildup.



CUSTOM TUBE PULLEY

Using Heavy wall steel tubing and a machined face to insure maximum strength and concentricity are key features of these special machined face tube pulley.



HEAVY DUTY ROLLS

PPI builds heavy duty rolls to meet customer specifications. This roll has a one piece hub that extends between the two end discs.



THERMAL STRESS RELIEVING

Increases the life of a product by approx. 5 times. PPI thermally treats various products for a variety of reasons; stress relieving, normalization, etc. to prevent buildup.



EXTRA WINGS

PPI builds special wing pulleys using techniques developed at PPI. This allows us to build wing pulleys with several additional wings for a critical application.



WHEELS

PPI builds special wheel assemblies for use in TU carts and other carriages.



SPECIALTY WINGS

PPI builds wings to customer specifications with some slight modifications. PPI can and does build specials every day.



SPECIALTY DRUMS

PPI builds a wide variety of drums for a wide variety of situations. This is a special design feed roll.



SPECIALTY PULLEYS

PPI built this combined Wing Drum for a particular problem situation.



HEAVY DUTY TUBES

PPI builds special tubs on a daily basis to suit customer needs.



ROLLERS

This shipment of custom rolls built to customer specifications are crated and ready for shipment.

