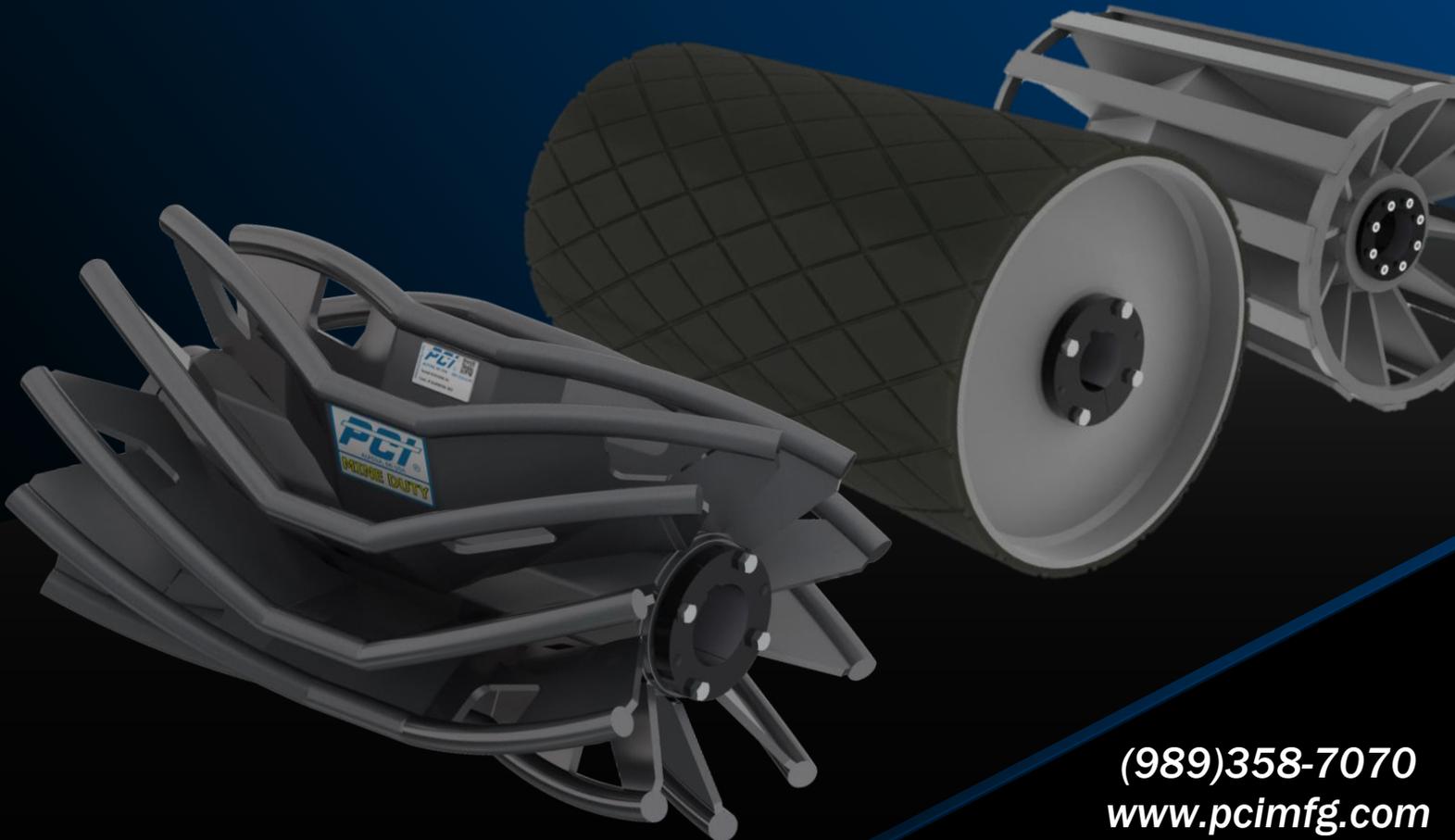




Solutions Through Innovation

PRODUCT OVERVIEW



(989)358-7070
www.pcimfg.com

LOAD BEARING ROLLER ASSEMBLIES



Cam Followers



CAM FOLLOWERS:

BEARING TYPE: Needle Bearings

Available from 2" to 20" roller body diameter, these units provide maximum radial capacity in lower speed applications. An extra thick roller body provides high load carrying capability by minimizing distortion.

XR Rollers



XR ROLLERS

BEARING TYPE: Ball or Tapered Roller Bearings

Available from 1.5" to 10" roller body diameter, PCI XR Rollers provide the rugged seals and thrust load capacity of a PCI Track Roller in the sizing of a Cam Follower, for an easy, drop-in, maintenance-free upgrade.

DCB Rollers



DCB ROLLERS

BEARING TYPE: Cylindrical Roller Bearings

Available from 2" to 10" roller body diameter, these units provide maximum dynamic radial load capacity and allow for incidental thrust loads. DCB Rollers also offer rubber seals and are a drop-in replacement for Cam Followers.

LOAD BEARING ROLLER ASSEMBLIES



Track Rollers



TRACK ROLLERS

BEARING TYPE: Ball or Tapered Roller Bearings

Available from 1" to 20" roller body diameter, PCI Track Rollers provide balanced radial and thrust load capacity, maximized sealing provisions and profile options which include Crowned, Flanged, Double Flanged, V-Grooved, U-Grooved and Channel & I-Beam profiles. On stud type versions, a stainless steel dust cover provides added protection against contamination.

Extreme Duty Solutions



STAINLESS STEEL

Stainless Steel options and fluorocarbon seals for the ultimate in corrosion resistance.

NON-METALLIC

Economical corrosion resistant alternative to stainless that reduces noise by eliminating metal-to-metal contact with a contamination exclusion design.

HIGH TEMPERATURE

Rated for operation up to 660° F and available as regreasable or sealed for life.

Industry Solutions



LUMBER & SAWMILL PARTS

Replacement rollers for sawmill, lumber & pressure treatment equipment.

OIL & GAS PARTS

PCI "TDR" Rollers are a drop-in replacement for units found on top drive equipment commonly used in the oilfield.

WASTE & REFUSE PARTS

Replacement parts for waste & refuse equipment.



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CONVEYING COMPONENTS AND ACCESSORIES



ERADICATOR® MAX RETURN ROLLS

Patent #8,857,606



TAKE-UP FRAMES & COVERS

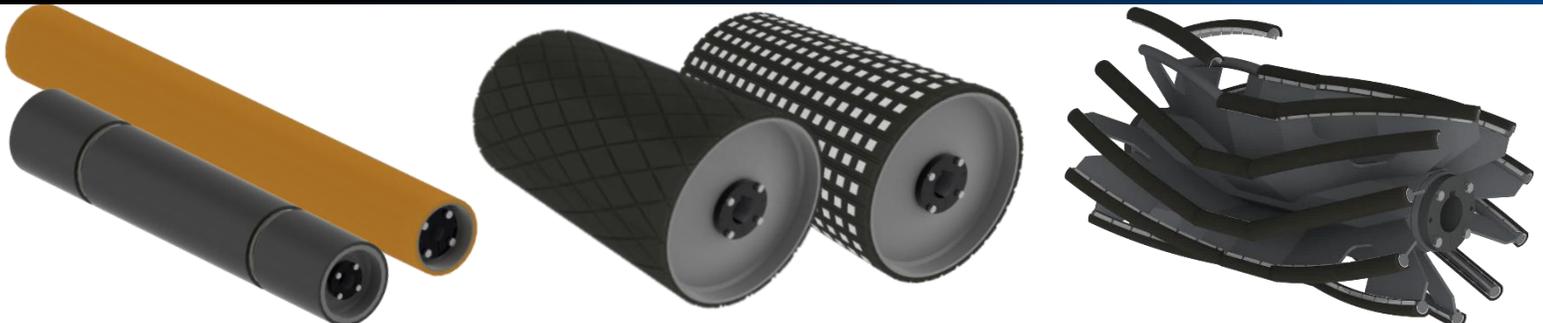


STAINLESS STEEL HUBS & BUSHINGS



COATINGS & LAGGING

PCI Eradi-Lag™
Patent #11,142,404



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CONVEYOR PULLEYS

Hub Styles

PLAIN BORE (WELDED SHAFT) (TYPE 1/TYPE A)



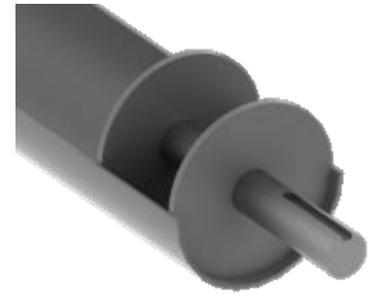
End disks are bored to allow for a customer welded through shaft.

WELDED THROUGH SHAFT (TYPE 1/TYPE A)



A singular shaft extends through the entire pulley and is welded at both end disks.

WELDED STUB SHAFT



An assembly consisting of a short length of shaft and two disks is welded into each end of the pulley.

KEYED HUBS & SET SCREWS (TYPE 2/TYPE B/TYPE D)



Removable shaft extends thru the pulley, is held in place with set screws and driven by a keyway.

ER STYLE INTERNAL BEARINGS (TYPE 3/TYPE C)



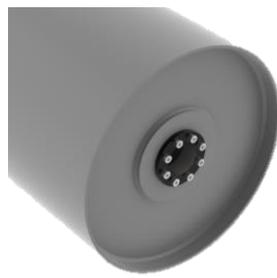
End disks are fitted with bearing units to allow rotation of the pulley around the shaft.

WELDED COMPRESSION STYLE HUBS & BUSHINGS (TYPE 4)



A compression style hub is welded to the end disk and a through shaft is affixed by use of a tapered bushing. XT[®], QD[®] and Taper-Lock[®] styles are readily available.

KEYLESS LOCKING DEVICES (TYPE 5)



Hubs are welded and machined to accept a mechanical shrink fit style hub and through shaft. Several manufacturers & brands are available.

CONTOURED INTEGRAL END DISKS & HUBS FOR BUSHINGS



A compression hub is machined directly into a profiled end disk in place of a welded style hub.

DEAD SHAFT ASSEMBLY



End disks are fitted with piloted flange bearings and the shaft is held by fixed mounting blocks designed to easily replace external pillow block bearings.

XT[®] is a trademark of Van Gorp Corp. QD[®] is a trademark of Emerson Electric Co... Taper-Lock[®] is a trademark of Reliance Electric

CONVEYOR PULLEYS

Focus Flyer

Contoured Integral End Disks



PCI® Contoured Integral End Disks are designed to maximize conveyor pulley life by reducing the risk of failure from end disk fatigue. PCI's design eliminates the need for a hub-to-disk weld by machining a hub directly into the surface of the end disk. In addition, PCI's special contour optimizes the surface stress of the end disk by allowing for adequate flexibility not provided by flat disk designs.

DESIGN BENEFITS

Even Distribution of Stress

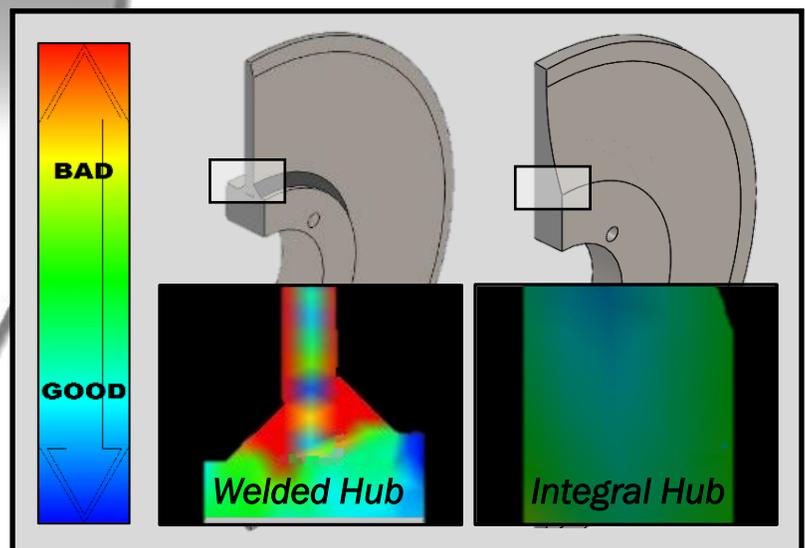
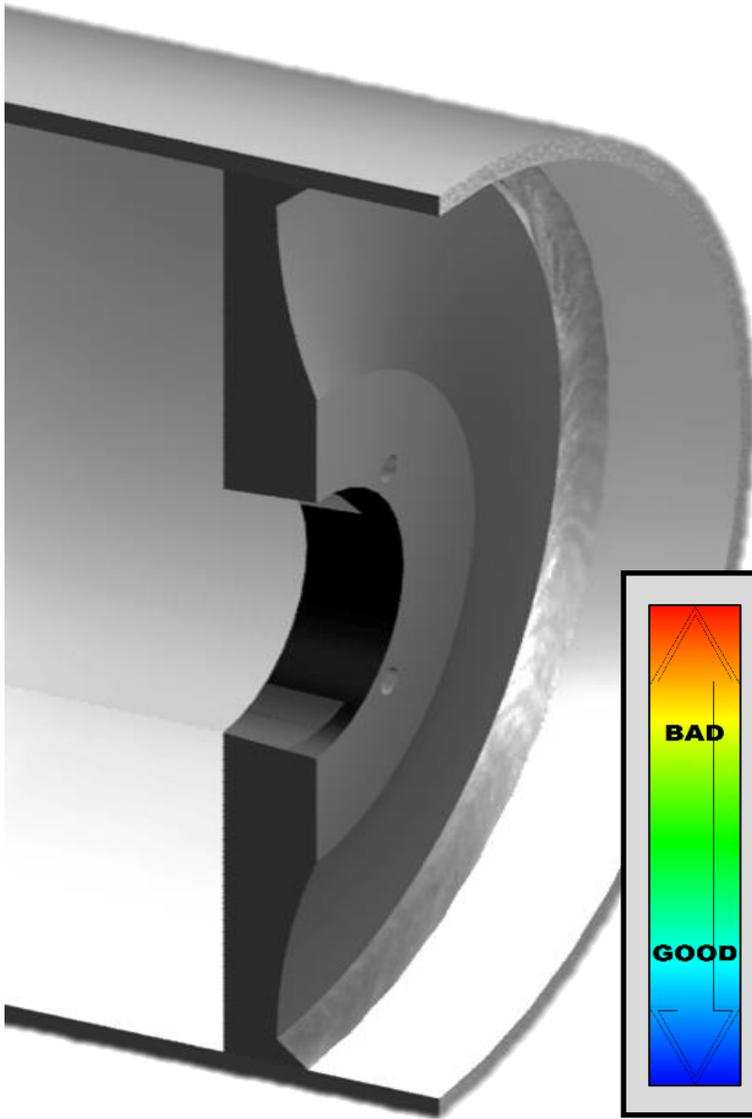
Improved Bore Alignment

Eliminates Weld Stresses

Optimized Flexibility

FAILURE FREE

SINCE 2011



Machined Integral Hub: The leading cause of premature pulley failure is end disk fatigue. End disk fatigue causes a pulley to fail at the weakest point on the end disk, the area near the weld between the hub and disk. The sudden change in geometry between the flat disk and the cylindrical hub produces an area of increased stress concentration. Additionally, welding also distorts the end disk causing hub bores to misalign from end to end. An integral style hub machined directly into the end disk eliminates the need for a weld between a hub and disk, thereby greatly reducing the risk of premature pulley failure.

Contoured Profile: Flat end disk designs discourage proper flexing of the end disk, thereby increasing the amount of stress induced in vulnerable areas. PCI's contoured profile allows for adequate flexibility under load by increasing thickness where it benefits load accommodation and decreasing thickness where the disk should be allowed to flex.

CONVEYOR PULLEYS

Drum Pulleys

FC / MC Series
Diameters: 2" up to 12.75"

PACKAGE HANDLING



Drum pulleys are available in FC and MD Series construction. FC Series pulleys are manufactured from gauge wall or light duty tubing and feature PCI's unique Trapezoidal Crown package. PCI's proprietary crowning process provides the consistency, performance, and dependability of a Trapezoidal Crown profile in an economic gauge wall construction. MC Series drum pulleys are manufactured from medium or heavy wall tube or pipe and receive a machined crown when a crown is specified.

BULK HANDLING

Heavy / Mine Duty
Diameters: up to 60"



PCI® Heavy Duty and Mine Duty drum conveyor pulleys are designed to meet or exceed CEMA construction standards for belt conveyor applications where bulk goods are being conveyed. PCI Heavy & Mine Duty drum pulleys feature PCI's Contoured Integral End Disks, which maximize pulley life by reducing the risk of failure from end disk fatigue.

ICE-ERADICATOR®

Patent #11572234
Diameters: up to 60"



PCI's Ice-Eradicator® is the world's first proven solution to temper the costly effects of frozen conveyor belts. A drum style Ice-Eradicator® head pulley de-ices and softens conveyor belts encouraging startup in freezing conditions.

WATCH THE VIDEO



STAINLESS STEEL OPTIONS

Pre-engineered Classes
Or Build Your Own Class "X"



PCI has developed distinct classes of pre-engineered stainless steel conveyor pulleys that are designed to meet the requirements of a variety of applications. We also provide custom designed Class X pulleys to meet individualized needs. Our unique approach to stainless steel conveyor pulley design provides you with *stainless steel selection simplified and solutions through innovation.*

CONVEYOR PULLEYS

Self-Cleaning Wing Pulleys



THE ERADICATOR®

Patent# 8,857,606
Diameters: up to 52"



The Eradicator wing pulley combines the best features of a traditional wing pulley with several unique performance enhancing characteristics to create the optimum self-cleaning solution.

WATCH THE VIDEO



PRODUCT DASHBOARD			
CLEANOUT RATE 40X FASTER	MATERIAL SIZE ALL	SINGLE DIRECTION	NOISE

THE ERADICATOR®-MAX

Patent# 8,857,606
Diameters: up to 52"



The Eradicator-MAX wing pulley combines the unmatched cleanout rates of the Eradicator with maximum wear- life and strength at all diameters.

WATCH THE VIDEO



PRODUCT DASHBOARD			
CLEANOUT RATE 40X FASTER	MATERIAL SIZE ALL	SINGLE DIRECTION	NOISE

ERADICATOR® D²®

Patent# 8,857,606 and # 10,442,631
Diameters: up to 52"



The Eradicator D² (*Directional Discharge*) incorporates innovative design features of the Eradicator allowing for operation in reversing conveyors. The Eradicator D² directs the flow of material discharge to one side only.

WATCH THE VIDEO



PRODUCT DASHBOARD			
CLEANOUT RATE 10X FASTER	MATERIAL SIZE 3" MINUS	REVERSIBLE	NOISE

THE ICE-ERADICATOR®

Patent #11572234
Diameters: up to 52"



The Ice-Eradicator is the world's first proven solution to temper the costly effects of frozen conveyor belts. The Ice-Eradicator wing pulley prevents snow and ice build-up between the wings during operation or shut-down.

WATCH THE VIDEO



PRODUCT DASHBOARD			
CLEANOUT RATE 20X FASTER	MATERIAL SIZE ALL	SINGLE DIRECTION	NOISE

CONVEYOR PULLEYS

Self-Cleaning Wing Pulleys



Patent# 8,857,606 and # 10,442,631
Diameters: 14" - 52"

THE DEFLECTOR™



The Deflector™ wing pulley increases the performance of a traditional wing pulley by adding our proven and patented ports with angled deflectors to continuously direct material to the outer edges of the pulley.

WATCH THE VIDEO



PRODUCT DASHBOARD			
CLEANOUT RATE 5X FASTER	MATERIAL SIZE ALL	REVERSIBLE	NOISE

THE DOMINATOR

Patent# 8,857,606
Heavy Duty Diameters: 8-12"



The patented design of the Dominator™ 8-12" HD Wing Pulley maximizes the material cleanout rate by incorporating the proven design features of The Eradicator® Wing. Self-gusseted angled wings provide reinforcement to prevent wing fold over better than traditional designs.

PRODUCT DASHBOARD			
CLEANOUT RATE 5X FASTER	MATERIAL SIZE ALL	REVERSIBLE	NOISE

TRADITIONAL WING

Diameters up to 52"



Traditional wing pulleys utilize a series of individual wings for the creation of open voids that are designed to allow loose material to fall away from the contact surface.

PRODUCT DASHBOARD			
CLEANOUT RATE CLEANOUT ENABLED	MATERIAL SIZE ALL	REVERSIBLE	NOISE

ADDITIONAL / CUSTOM DESIGNS

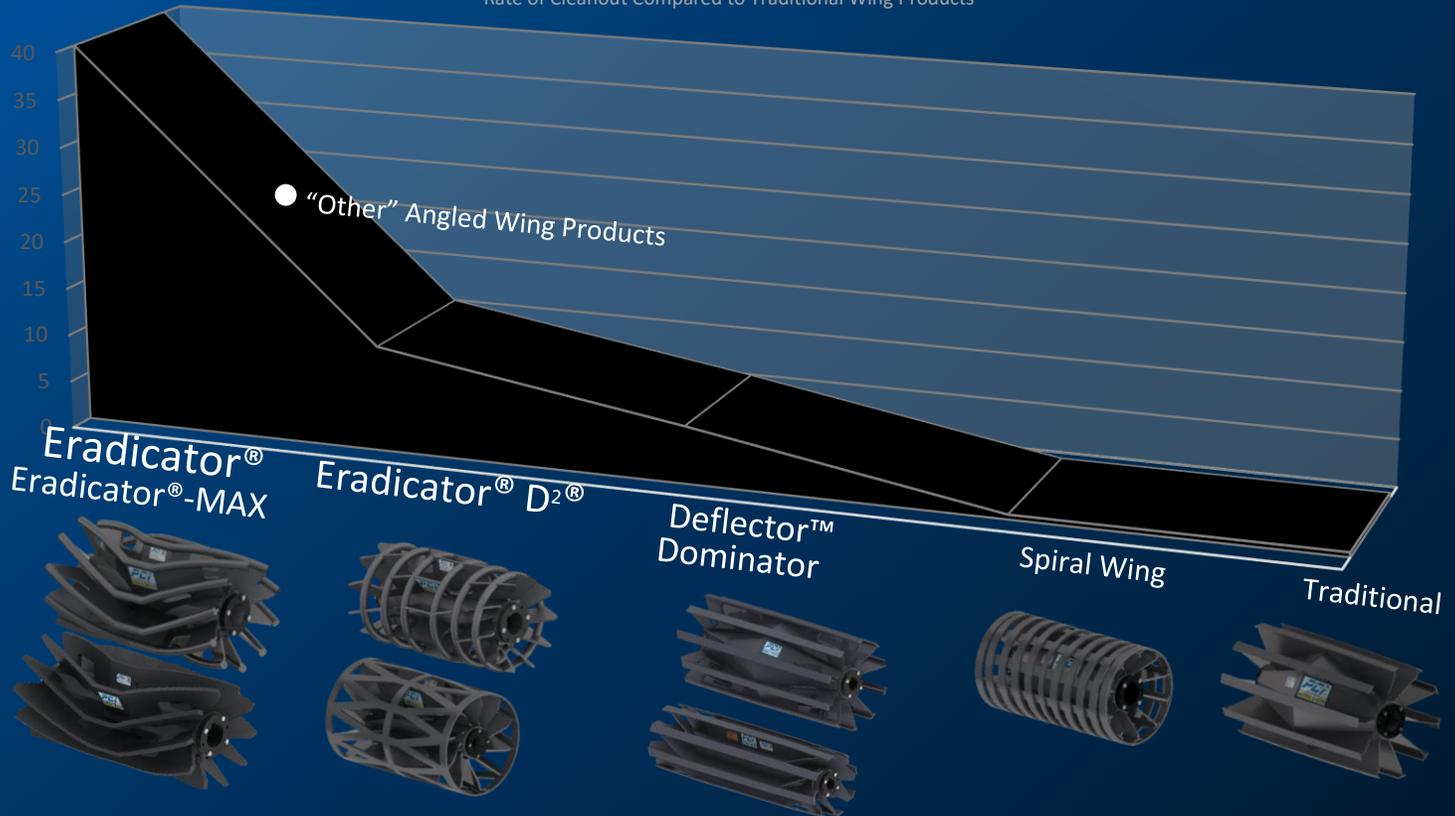


Self-cleaning designs such as squirrel cage, beater bar, 7-shaped and solid core wings provide intermittent contact for a higher level of clean out over drum pulley designs in small diameter applications.

PRODUCT DASHBOARD			
CLEANOUT RATE CLEANOUT ENABLED	MATERIAL SIZE GRANULAR	REVERSIBLE	NOISE

CLEAN OUT RATE

Rate of Cleanout Compared to Traditional Wing Products



WHY IS CLEANOUT RATE IMPORTANT?

The faster a properly sized wing pulley cleans out loose materials, the longer it will last. It is that simple. Along with the pulley, recirculating materials can also influence the life of the conveyor belt, idlers, and bearings. Self-cleaning pulleys with proven cleanout designs work to lengthen the life of your system components by quickly ejecting materials that damage and wear exposed surfaces.

DOES MATERIAL SIZE AFFECT WHICH PULLEY I SHOULD SELECT?

The size of the open voids in the construction of a self-cleaning wing pulley determine its degree of cleanout efficiency. Because of this, wing pulleys with smaller openings are best suited for eliminating smaller materials.

WHICH WING PULLEY OFFERS THE LOWEST VIBRATION AND NOISE?

The manner in which the wing pulley contacts the belt directly affects belt vibration and noise. While vibration can play an important role in knocking material off the belt, it can cause damage to system components and increase operational noise. Wing pulleys designed to achieve continuous contact with the conveyor belt work to minimize vibration and decrease noise.

DOES THE DIRECTION OF MY CONVEYOR LIMIT MY CHOICES BETWEEN WING PULLEYS?

The design of the wing pulley will influence its performance in applications where the conveyor belt runs in both directions. Reversing applications require a wing pulley designed to not only eliminate the unwanted material but assist in tracking the belt in both directions as well. Products such as the Eradicator D² excel in these environments.

Solutions Through Innovation for More than 35 Years!

**Can't Find What
You Need?**

**Call PCI
(989) 358-7070**

For additional information and to explore
all the choices for your solution,
contact PCI - ProCal Innovations, LLC.
or visit us on the web at
www.pcimfg.com.

PCI is your trusted advisor - providing you with:

PRODUCT KNOWLEDGE

PCI has a thorough understanding of what it takes to manufacture a successful product. PCI provides you with pre-engineered products, modified units or products engineered specifically for your needs.

PCI provides you the maximum number of viable choices, so you can make the best decision for your economic and delivery requirements.

APPLICATION ASSISTANCE

Our experience and market research enables PCI to offer unique market solutions that fulfill industry requirements including:

- food processing
- marine
- mining
- petrochemical

QUICKEST DELIVERY

Along with an innovative design, a solution needs desirable delivery.

PCI secures your application solution when you need it.

Pre-Engineered - IN STOCK
Industry Solutions - IN STOCK
Plus, Industry Leading Delivery for
Custom units including
EXPEDITES

Load Bearing Roller Assemblies

Cam Followers

Diameters: 2" through 20" – Full Complement Needle Bearings

XR Rollers

Diameters: 1" through 10" – Ball Bearings or Tapered Roller Bearings

DCB Rollers

Diameters: 2" through 10" – Full Complement Cylindrical Roller Bearings

Track Rollers

Diameters: 1" through 20" – Ball Bearings or Tapered Roller Bearings

Extreme Duty & Industry Solutions

Unique solutions to resolve failure modes and wear patterns in a variety of demanding industries



Conveyor Pulleys

Drum Pulleys- Package Handling - FC & MC Series

Diameters: 2" through 12.75" - Featuring PCI Trapezoidal Crown Technology

Drum Pulleys- Bulk Handling - Heavy Duty & Mine Duty

Diameters: standards up to 60" - Featuring PCI Contoured Integral End Disks

Wing Pulleys - Self-Cleaning

Diameters: 2" through 52" - Featuring The Eradicator®-The World's First True Wing Hybrid

Stainless Steel Conveyor Pulleys

Diameters: 2" through 60" - Featuring Refined Classes for Painless Stainless Selection



Conveying Components

Eradicator® Max Style Return Rolls

Live and dead shaft options designed to shed abrasive material and provide a deeper wear surface than other rolls.

Take-Up Frames & Covers

Narrow & Wide Slot, Center Pull, Top Angle, Light & Heavy Duty Protected Screw, and Telescoping Style

Pneumatic Clutches, Brakes and Clutch/Brakes

Suited for low-speed accumulation, zone or zero-pressure conveyor systems with occasional starts and stops, and high torque capacities.

Axles & Shafting

Multiple diameters and materials with extensive capacity in custom detailing



Accessories

Stainless Steel Compression Hubs & Bushings

Several styles manufactured from 300 grade stainless steel materials

Lagging & Coating Services

Cold bonded, weld-on replaceable and over twenty hot vulcanized compounds

