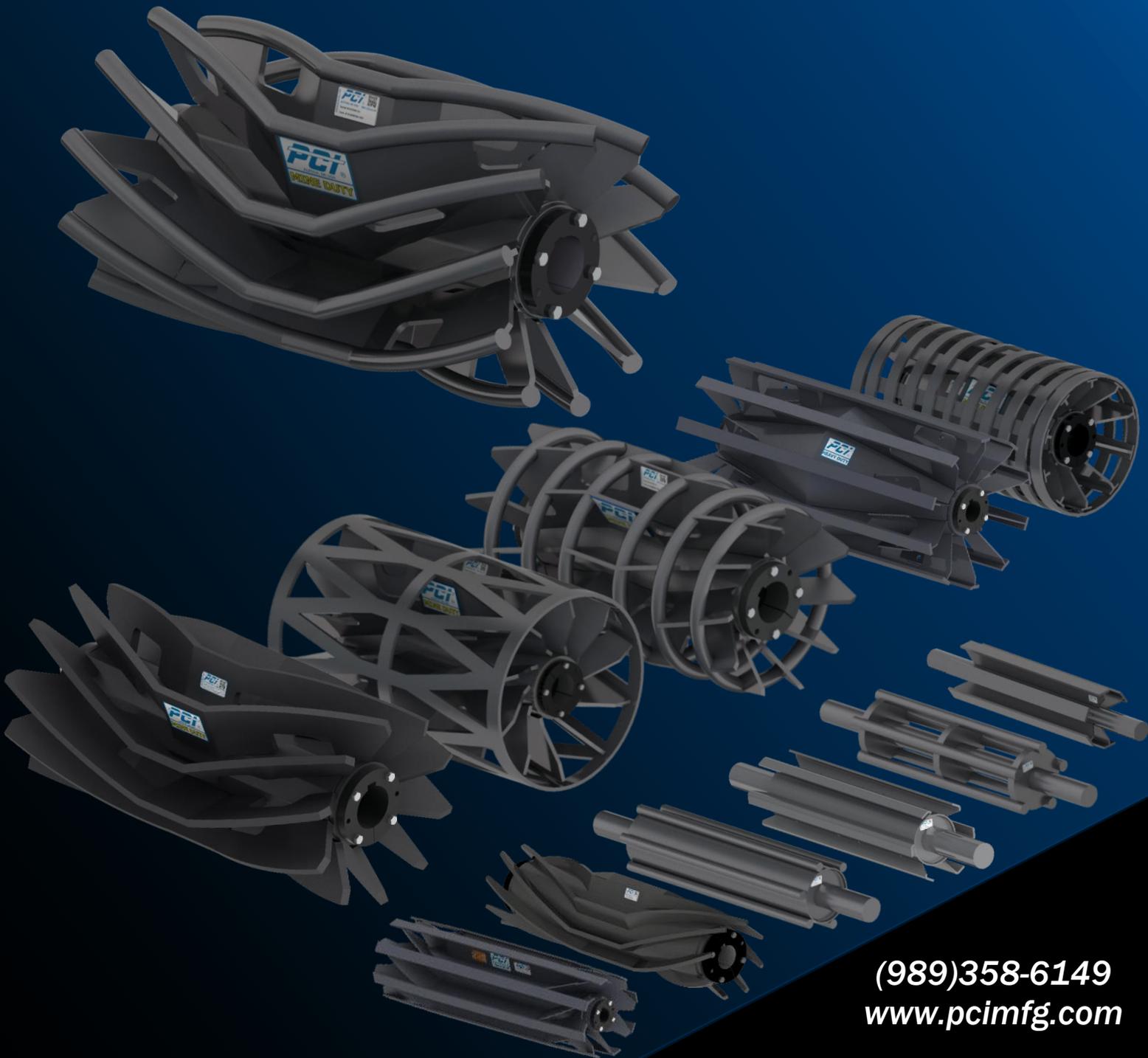




# SELF-CLEANING WING PULLEYS

## Built to Last, Built to Perform

With over a dozen unique wing pulley configurations ranging from 4" to 60" diameter, PCI has North America's largest selection of true self-cleaning pulley solutions. PCI's patented technologies are field proven to maximize component life and increase performance in the most demanding applications.



(989)358-6149  
[www.pcimfg.com](http://www.pcimfg.com)

# 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 <b>40X</b> 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 <b>40X</b> FASTER	MATERIAL SIZE ALL	SINGLE DIRECTION	NOISE

### ERADICATOR® D<sup>2</sup>®

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



The Eradicator D<sup>2</sup> (*Directional Discharge*) incorporates innovative design features of the Eradicator allowing for operation in reversing conveyors. The Eradicator D<sup>2</sup> directs the flow of material discharge to one side only.

WATCH THE VIDEO



PRODUCT DASHBOARD			
CLEANOUT RATE <b>10X</b> 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 <b>20X</b> 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 <b>5X FASTER</b>	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 <b>5X FASTER</b>	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 <b>CLEANOUT ENABLED</b>	MATERIAL SIZE ALL	REVERSIBLE	NOISE

### ADDITIONAL / CUSTOM DESIGNS

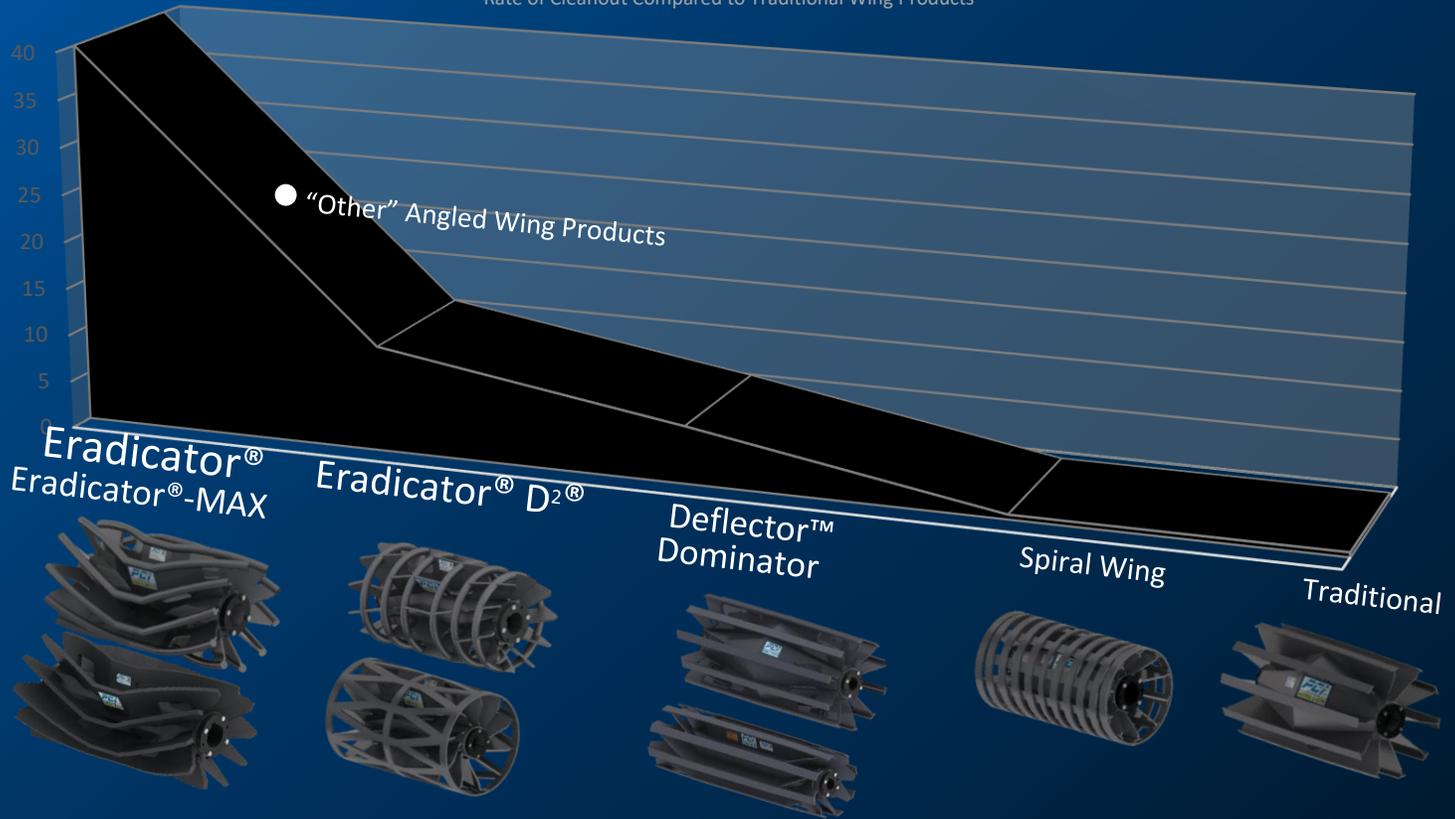


Self-cleaning designs such as squirrel cage, beater bar, 7-shaped and solid core wings provide intermittent contact for a higher level of clean out over drum pulley designs in small diameter applications.

PRODUCT DASHBOARD			
CLEANOUT RATE <b>CLEANOUT ENABLED</b>	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 D<sup>2</sup> excel in these environments.

# CONVEYOR PULLEYS

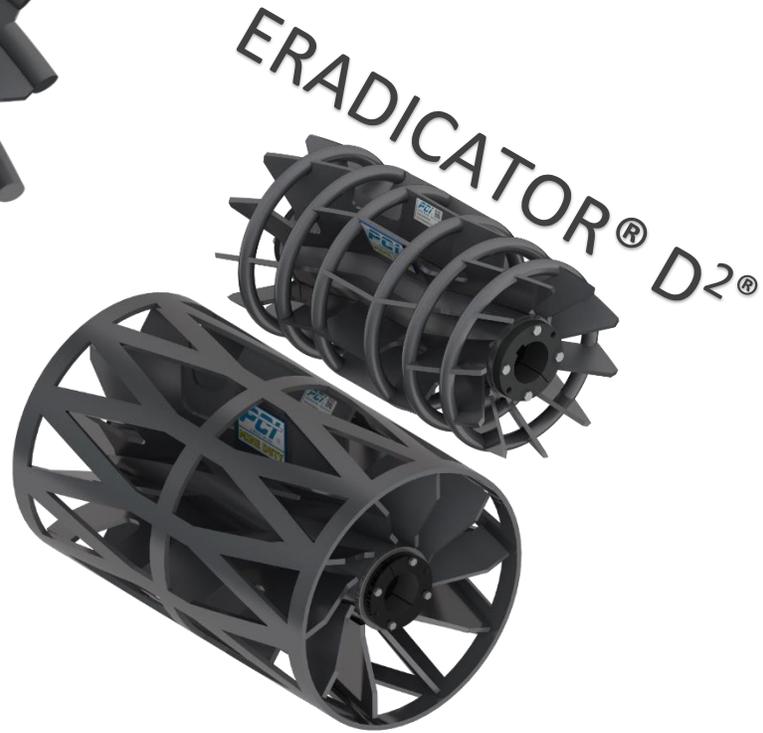
## Wing Pulleys – The Eradicator®



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.

### DESIGN BENEFITS

- Accelerated Cleanout
- Increased Component Life
- Quieter Operation
- Enhanced Belt Tracking



Patent# 8,857,606 – Patent# 10,442,631

#### DIAMETERS AVAILABLE

4" through 52"

DUTY	WING	TIP	MAX WING (Tipless)
Standard	7 ga. (.179")	3/4"	1/4"-3/8"
Heavy	1/4"	1"	1/2"
Mine	3/8"	1-1/4"	3/4"

#### HUB STYLES AVAILABLE

Welded Compression Hubs/Bushings (Type 4)  
Dead Shaft Assembly

"AR" ABRASION RESISTANT MATERIALS AVAILABLE  
UPON REQUEST



(989)358-6149

www.pcimfg.com

# CONVEYOR PULLEYS

## Focus Flyer

## The Eradicator®



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.



PRODUCT DASHBOARD			
CLEANOUT RATE <b>40x</b> FASTER	MATERIAL SIZE ALL	SINGLE DIRECTION 	NOISE 

Patent# 8,857,606

## FAILURE FREE SINCE 2016

WATCH THE VIDEO



ALSO AVAILABLE WITH  
ERADI-LAG™ & "AR" WING TIPS

[www.pcimfg.com/portfolio\\_page/the-eradicator/](http://www.pcimfg.com/portfolio_page/the-eradicator/)

## DESIGN BENEFITS...

### ACCELERATED CLEANOUT

The Eradicator dominates material displacement by forcing particulate away from its center toward its open ends. PCI's exclusive design retains a traditional wing pulley's belt slapping capability to prevent material buildup while the cleanout ports maximize the material removal rate and minimize recirculation of material. These patented features power the Eradicator with a cleanout rate up to **40 times faster** than a traditional wing pulley, creating the ultimate in self-cleaning solutions.

### INCREASED LIFE

The hybrid design of The Eradicator maximizes both the life of the pulley and the conveyor belt. PCI's self-reinforced design discourages wing fold over and prevents incidental damage to the pulley. The Eradicator also maximizes belt life by reducing deformation commonly associated with high center point designs.

### ENHANCED BELT TRACKING

The unique profile of the Eradicator encourages conveyor belt tracking by continually guiding the belt with its curved and angled wing members towards a reliable flat center point. This tracking benefit reduces the reliance on routine maintenance and the need for other belt training devices.

### QUIETER OPERATION

The Eradicator decreases noise by continuously contacting the belt while its straight center maximizes cleanout. Only the Eradicator achieves the optimum balance of noise reduction and cleanout efficiency.



(989)358-6149

[www.pcimfg.com](http://www.pcimfg.com)

# CONVEYOR PULLEYS

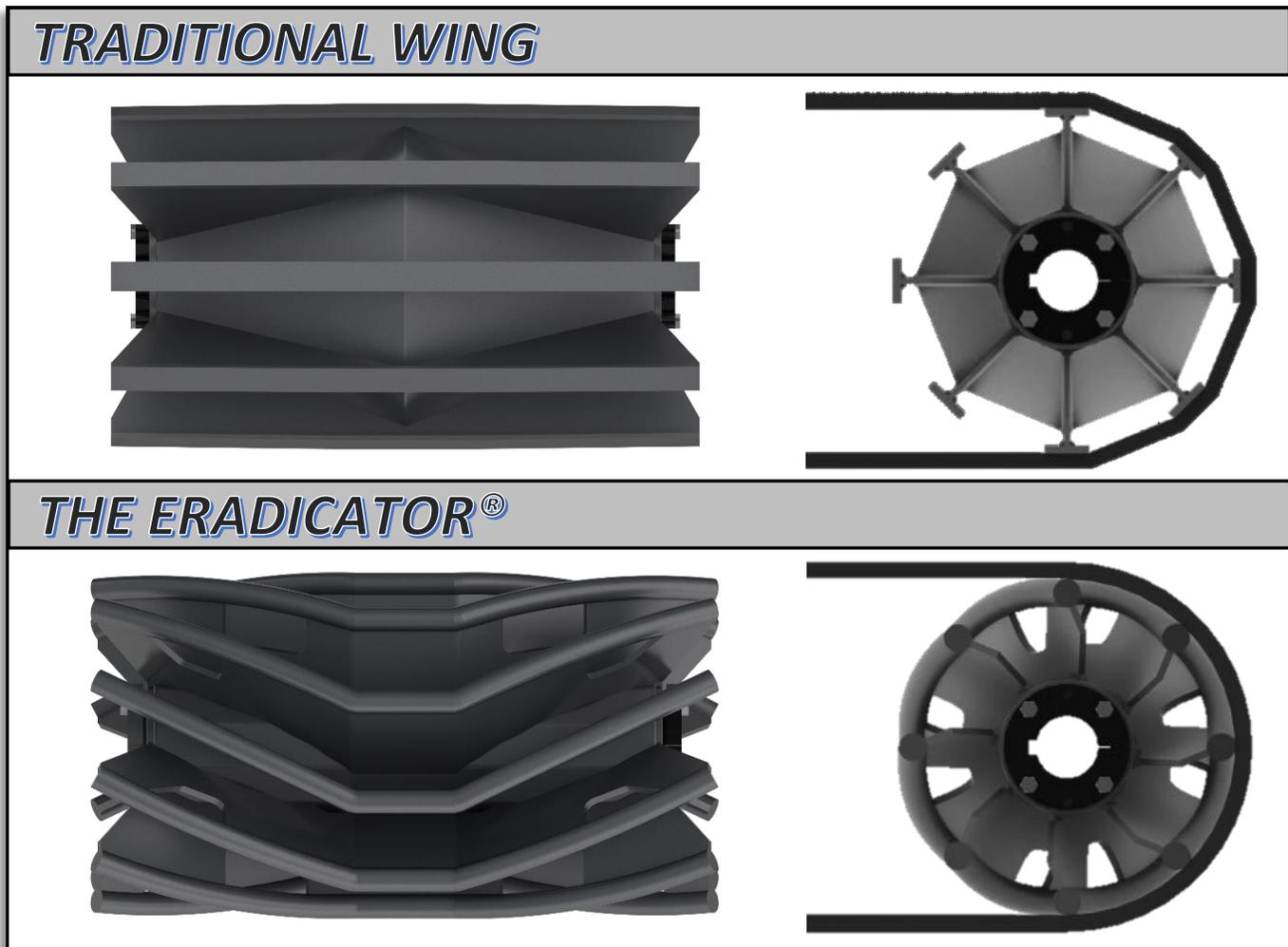
## Focus Flyer

### The Eradicator®



#### **How is PCI's Eradicator different from a traditional Wing Pulley?**

The Eradicator wing pulley retains the belt cleaning benefits of a traditional wing while providing continuous belt contact and improved cleanout efficiency. These additional benefits provide longer component life and decreased noise. Traditional wing pulleys feature straight wings that contact the belt intermittently, entrapping, and recirculating material rather than displacing it, often leading to belt damage and pulley failure.



#### **What applications benefit from using the Eradicator Wing Pulley?**

Applications where loose materials are causing damage to either the belt or conveyor pulleys would benefit from the use of The Eradicator. In addition to solving cleanout problems, PCI's Eradicator decreases operating noise compared to traditional wing designs, making it ideal for applications where noise reduction is also desired.

#### **How does The Eradicator Wing Pulley compare to other enhanced wing pulley designs?**

Although other wing products may offer similar benefits, no other product offers the combination of benefits provided by the hybrid design of PCI's Eradicator wing pulley. Spiral wing designs achieve continuous belt contact but underperform in material removal because of their straight wing members. Other enhanced wing products feature a center high point, eliminating the beater bar benefits of a traditional wing and may cause additional belt deformation with reduced belt tracking capability. The hybrid design of The Eradicator retains the belt cleaning benefits of a traditional wing while enhancing cleanout efficiency, offering unparalleled overall performance.

Patent# 8,857,606

# CONVEYOR PULLEYS

## Focus Flyer

### The Eradicator®-MAX



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



PRODUCT DASHBOARD			
CLEANOUT RATE <b>40x</b> FASTER	MATERIAL SIZE ALL	SINGLE DIRECTION 	NOISE 

Patent# 8,857,606  
"AR" ABRASION RESISTANT WINGS  
AVAILABLE UPON REQUEST

WATCH THE VIDEO



Small Diameter Design Option Shown

[www.pcimfg.com/portfolio\\_page/the-eradicator/](http://www.pcimfg.com/portfolio_page/the-eradicator/)

## ALL OF THE BENEFITS OF THE ERADICATOR, PLUS...

### MAXIMIZED DESIGN

The patented design of The Eradicator-MAX maintains all the cleanout performance of the original Eradicator while providing unmatched strength and wear life. By removing the original Eradicator wing tips and increasing the wing thickness, wear is maximized allowing for continued operation of the pulley until the wings are too short to shed debris. In larger pulleys such as the Mine Duty 18" x 38", this equates to **3 times the pulley wear life** over the original Eradicator.

### SMALL DIAMETER DESIGN OPTION

The patented design of The Eradicator-MAX is also available in small diameters. Traditional small diameter pulleys incorporate straight wings that contact the belt intermittently, entrapping and recirculating material rather than displacing it, often leading to belt damage and pulley failure. The Eradicator-MAX small diameter design has unparalleled performance in applications with space limitations, boasting a cleanout rate up to **20 times faster** than a traditional wing pulley and **2 times the pulley wear life** over traditional tipped designs.

# CONVEYOR PULLEYS

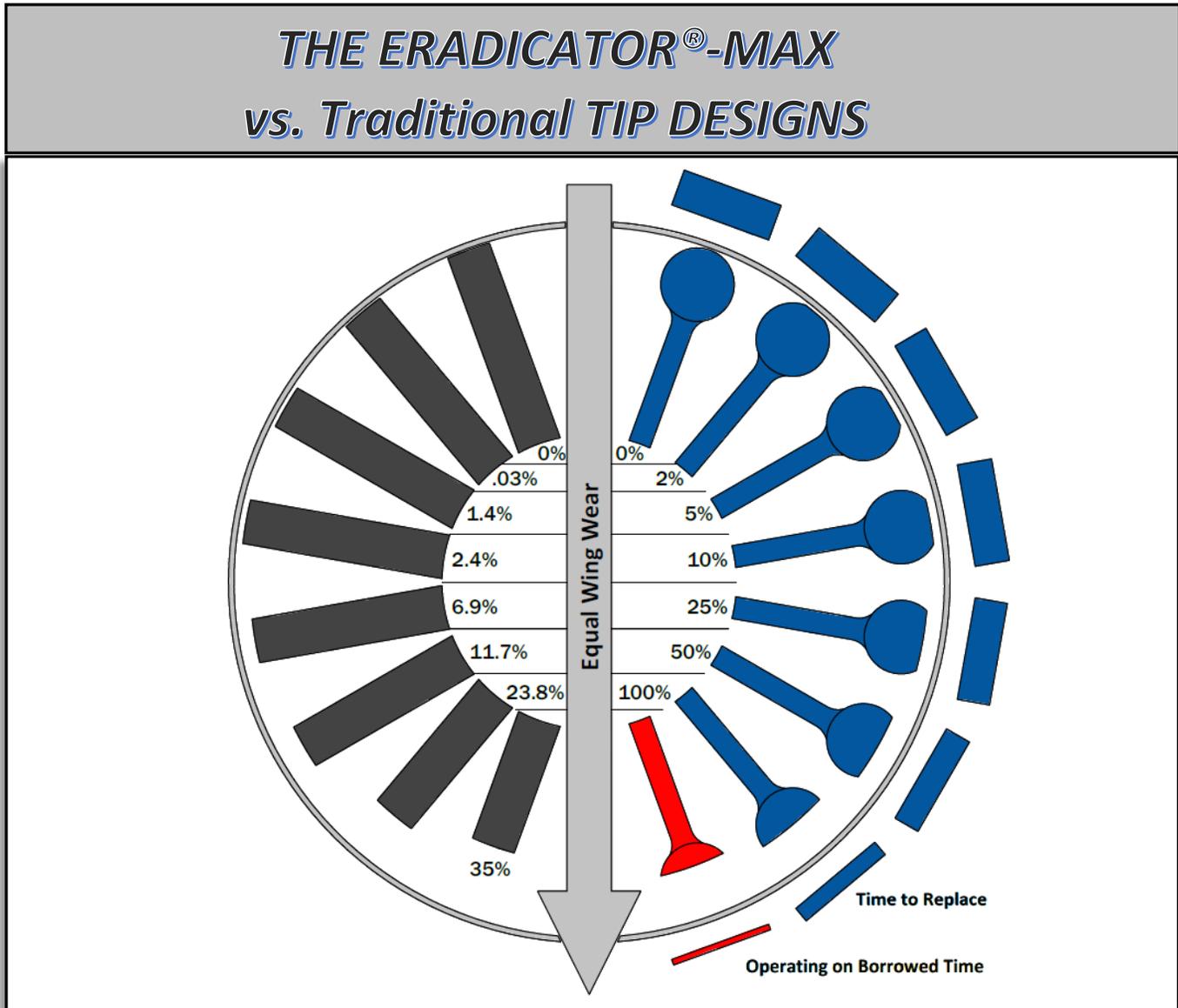
## Focus Flyer

### The Eradicator<sup>®</sup>-MAX



#### How is The Eradicator-MAX different from traditional wing tips?

The Eradicator-Max features the industry leading, patented design of the original Eradicator but eliminates the use of round bar wing tips to extend wear life at all pulley diameters. The Eradicator-Max features increased component thickness to maximize rigidity and longevity at all diameters.



#### How does the Eradicator-MAX Wing Pulley compare to other wing designs?

The Eradicator-MAX will outlast all traditional wing tips designs. All wing tips will eventually wear to the point where they increase the risk of damage to belts and belt splices. As wing tips wear past the halfway point of the original wing tip material thickness, the pulley is operating on borrowed time. The thinning material develops sharp or thinning edges which is a leading cause of belt and belt splice damage. The Eradicator-MAX solid wing design allows for the wing to be worn without creating sharp edges.

As long as take-up travel can accommodate the change in pulley diameter, the Eradicator<sup>®</sup>-MAX can be worn down to the core.

Patent# 8,857,606



(989)358-6149

[www.pcimfg.com](http://www.pcimfg.com)

# CONVEYOR PULLEYS

## Focus Flyer

### Eradicator<sup>®</sup> D<sup>2</sup><sup>®</sup> - Rim



The Eradicator D<sup>2</sup> (Directional Discharge) with Diamond Rim incorporates the innovative features of the Eradicator into a design allowing for operation in reversing conveyors of material sizes 3" and smaller. The Eradicator D<sup>2</sup> also has the unique ability to control the flow of material discharge to one direction only.



PRODUCT DASHBOARD			
CLEANOUT RATE <b>10x</b> FASTER	MATERIAL SIZE 3" MINUS 	REVERSIBLE 	NOISE 

"AR" ABRASION RESISTANT RIM  
AVAILABLE UPON REQUEST

WATCH THE VIDEO



[www.pcimfg.com/portfolio\\_page/the-eradicator/](http://www.pcimfg.com/portfolio_page/the-eradicator/)

Patent# 8,857,606  
Patent# 10,442,631

## ALL OF THE BENEFITS OF THE ERADICATOR, PLUS...

### OPERATION IN BOTH DIRECTIONS - REVERSIBILITY

The Eradicator D<sup>2</sup> provides an enhanced cleanout solution for applications where the conveyor belt operates in both directions. The patented design of the Eradicator D<sup>2</sup> has a cleanout rate up to **10 times faster** than traditional wing pulley products.

### SINGLE DIRECTION DISCHARGE

The unique design of the Eradicator D<sup>2</sup> forces material out of the pulley in one direction only allowing the user to control the placement of the ejected material. In reversing or dual-direction applications, the direction of cleanout will change based on the direction of the conveyor belt.

### MAXIMUM BELT CONTACT

By utilizing a steel rim with diamond shaped passageways, the Eradicator D<sup>2</sup> - Rim achieves maximum continuous belt contact for increased traction and reduced noise. Because of the rim profile, this pulley is best suited for material sizes 3" and smaller.



(989)358-6149

[www.pcimfg.com](http://www.pcimfg.com)

# CONVEYOR PULLEYS

## Focus Flyer

### Eradicator<sup>®</sup> D<sup>2</sup><sup>®</sup> - Tips



The Eradicator D<sup>2</sup> (Directional Discharge) with Circumferential Tips incorporates the innovative features of the Eradicator into a design allowing for operation in reversing conveyors of all material sizes. The Eradicator D<sup>2</sup> also has the unique ability to control the flow of material discharge to one direction only.



PRODUCT DASHBOARD			
CLEANOUT RATE <b>10x</b> FASTER	MATERIAL SIZE ALL SIZES	REVERSIBLE 	NOISE 

"AR" ABRASION RESISTANT TIPS  
AVAILABLE UPON REQUEST

WATCH THE VIDEO



[www.pcimfg.com/portfolio\\_page/the-eradicator/](http://www.pcimfg.com/portfolio_page/the-eradicator/)

Patent# 8,857,606  
Patent# 10,442,631

## ALL OF THE BENEFITS OF THE ERADICATOR, PLUS...

### OPERATION IN BOTH DIRECTIONS - REVERSIBILITY

The Eradicator D<sup>2</sup> provides an enhanced cleanout solution for applications where the conveyor belt operates in both directions. The patented design of the Eradicator D<sup>2</sup> has a cleanout rate up to **10 times faster** than traditional wing pulley products.

### SINGLE DIRECTION DISCHARGE

The unique design of the Eradicator D<sup>2</sup> forces material out of the pulley in one direction only allowing the user to control the placement of the ejected material. In reversing or dual-direction applications, the direction of cleanout will change based on the direction of the conveyor belt.

# CONVEYOR PULLEYS

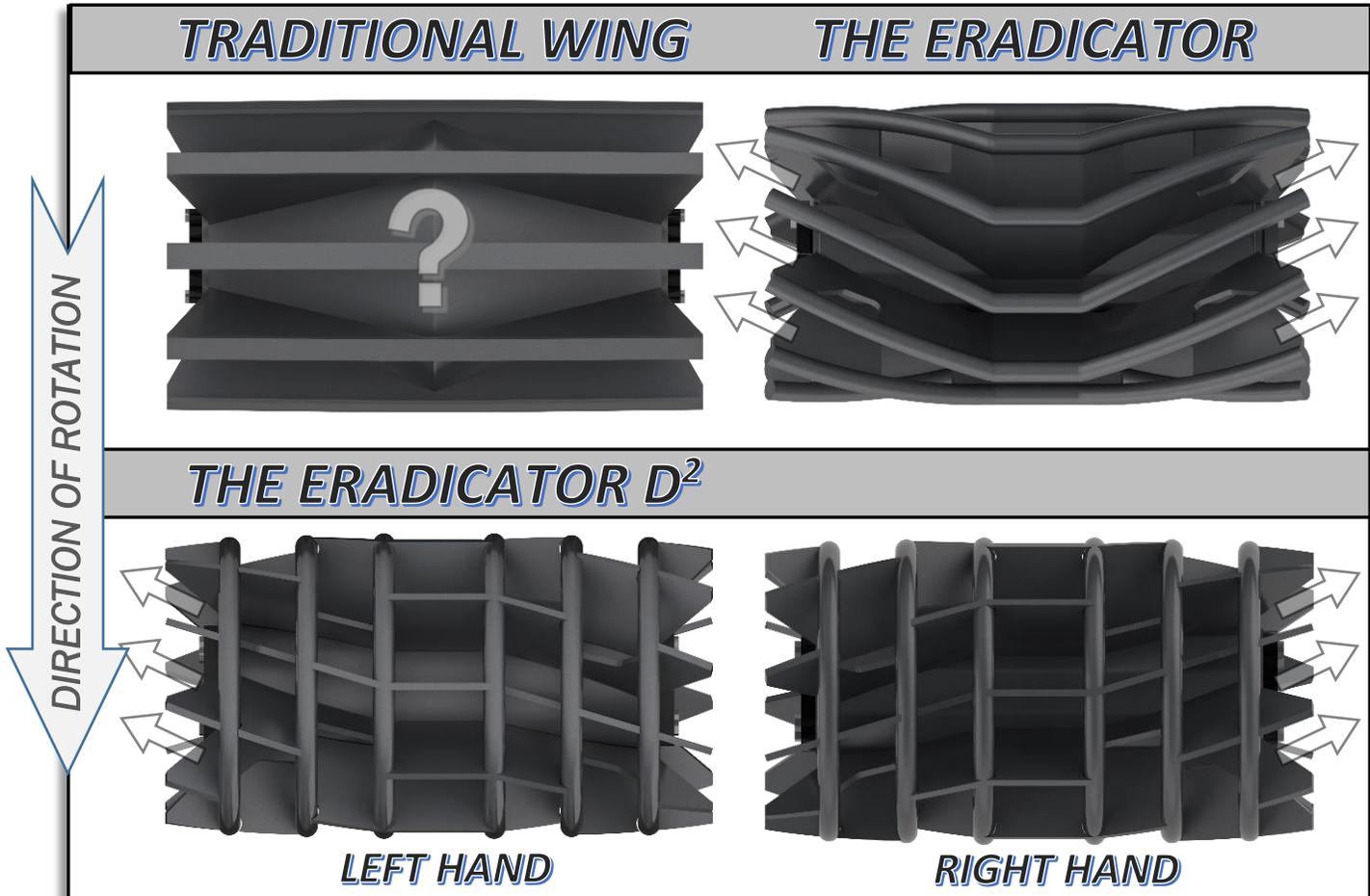
## Focus Flyer

### The Eradicator® D<sup>2</sup>®



#### How is PCI's Eradicator D<sup>2</sup> different from an Eradicator or traditional Wing Pulley?

The Eradicator D<sup>2</sup> utilizes the angled wing and cleanout port design of the Eradicator to maximize material removal but unlike the Eradicator, the D<sup>2</sup> is designed to operate in reversing/dual-direction applications. Additionally, the Eradicator D<sup>2</sup> forces the material in a single direction so that the ejection of material will take place on one side of the conveyor. The Eradicator D<sup>2</sup> is the first pulley of its kind to offer these innovative features.



#### What applications benefit from using the Eradicator D<sup>2</sup> Wing Pulley?

Reversing applications where loose materials are causing wear or damage to the conveyor belt or pulley would benefit from the Eradicator D<sup>2</sup> wing pulley. Additionally, by achieving continuous contact with the conveyor belt the Eradicator D<sup>2</sup> decreases noise and vibration to help eliminate related issues. Finally, by forcing the material in a single direction, the Eradicator D<sup>2</sup> provides an ideal solution for applications such as conveyor tunnels or tubular galleries, where accumulation of tramp materials on one side is causing increased maintenance costs or safety concerns.

#### How do I order an Eradicator D<sup>2</sup> Wing Pulley?

The Eradicator D<sup>2</sup> is designed with either Tips or Rim in a Right or a Left hand configuration. The Right or Left designation specifies the side of the conveyor in which the materials will be ejected. In a dual-direction/reversing conveyor, the side of ejection will change with the direction of the belt.

Patent# 8,857,606  
Patent# 10,442,631



(989)358-6149

[www.pcimfg.com](http://www.pcimfg.com)

# CONVEYOR PULLEYS

## Traditional Wing Pulleys

### Standard Duty – Heavy Duty – Mine Duty



PCI® Traditional Wing Pulleys are designed for bulk handling applications where material removal is desired. Our construction standards allow for selection into a variety of applications ranging from light loads to extreme impact loading.

### The Dominator

Heavy Duty 8"-12"  
Deflectors  
Double supported wing tips



### The Deflector

Heavy Duty 14"-52"  
Deflectors  
Gussets



### Standard Duty



### Mine Duty

Deflectors  
Gussets  
Reinforcing rings



#### DIAMETERS AVAILABLE

6" through 52"

DUTY	WING	WING TIP
Standard	7 ga.(.179")	1/4"
Heavy	7 ga.(.179")(min)	3/8"
Mine	3/8"(min)	5/8"

#### HUB STYLES AVAILABLE

\*Plain Bore or Welded Shaft (Type 1/Type A)

\*Keyed Hubs (Type 2/Type B/Type D)

Internal Bearings (Type 3/Type C)

Welded Compression Hubs/Bushings (Type 4)

Contoured Integral End Disks/Bushings

Keyless Locking Devices

Dead Shaft Assembly

Hub style availability will vary based on pulley construction.



(989)358-6149

www.pcimfg.com

# CONVEYOR PULLEYS

## Focus Flyer

### The Deflector™ Wing Pulley



The Deflector™ wing pulley increases the performance of a traditional wing pulley with the addition of PCI's proven and patented ports coupled with angled deflectors to continuously direct material to the outer edges of the pulley.

PRODUCT DASHBOARD			
CLEANOUT RATE <b>5X</b> FASTER	MATERIAL SIZE ALL SIZES	REVERSIBLE	NOISE



WATCH THE VIDEO



[www.pcimfg.com/portfolio\\_page/the-eradicator/](http://www.pcimfg.com/portfolio_page/the-eradicator/)

Patent# 8,857,606  
Patent# 10,442,631

## DESIGN BENEFITS...

### ACCELERATED CLEANOUT

The design of the Deflector™ wing pulley stems from the proven performance results of the Eradicator®'s angled wings and cleanout ports. The patented design of the Deflector maintains the straight wing members of a traditional wing but incorporates deflectors to fling material towards the edges. When installed with the deflectors angled towards the direction of belt travel, the Deflector minimizes recirculation of material and provides a cleanout rate up to **5 times faster** than its traditional counterparts provide. Even when installed in the opposite direction, this innovative design has a cleanout rate 2 times faster than a traditional wing pulley. 0

### BELT CLEANING

The straight wing members of the Deflector wing pulley allow for intermittent contact with the conveyor belt and provide belt slapping and vibration to help knock lodged materials off the conveyor belt.

# CONVEYOR PULLEYS

## Focus Flyer

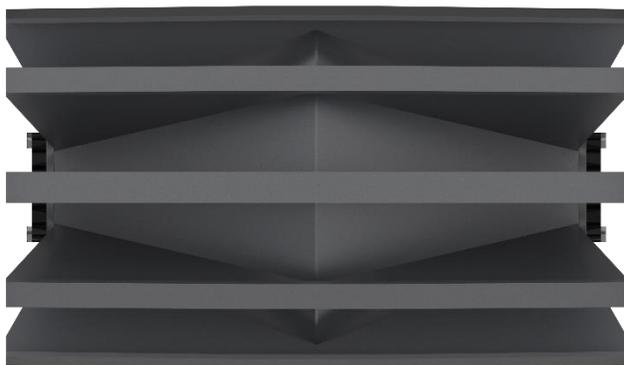
### The Deflector™ Wing



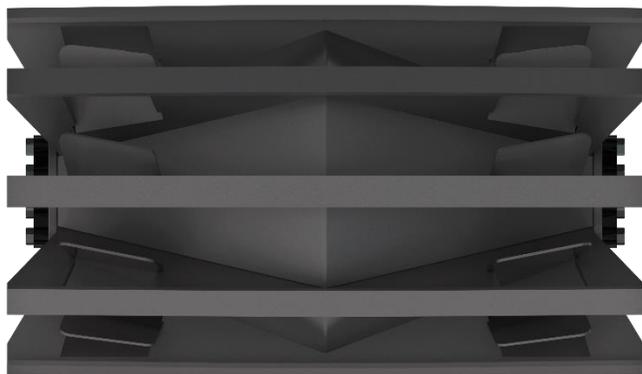
#### *How is PCI's Deflector™ Wing different from a traditional Wing Pulley?*

Traditional wing pulleys feature straight wings that contact the belt intermittently, entrapping, and recirculating material rather than displacing it, often leading to belt damage and pulley failure. The Deflector wing pulley utilizes the same straight wing members as a traditional wing pulley but drastically improves cleanout efficiency from its cleanout ports and patented deflectors. The accelerated cleanout produced by the deflectors and ports will provide longer component life for the pulley and the belt.

#### **TRADITIONAL WING**



#### **THE DEFLECTOR WING**



#### *What applications benefit from using the Deflector Wing Pulley?*

Because the Deflector wing pulley improves on the performance of a traditional wing pulley, any bulk material application where a traditional wing pulley is being used will benefit from the Deflector. However, if maximum cleanout efficiency is desired, no other conveyor pulley will perform as well as the Eradicator.

#### *How do I order a Deflector Wing Pulley?*

The Deflector will replace all PCI traditional wing pulleys 14" in diameter and larger when construction allows. When you order a traditional wing pulley from PCI in this size range, you'll receive the Deflector and its innovative design features.

Patent# 8,857,606  
Patent# 10,442,631

# CONVEYOR PULLEYS

## Focus Flyer

### The Dominator Wing Pulley



The patented design of the Dominator 8-12" diameter Heavy Duty (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 non-gusseted designs.



PRODUCT DASHBOARD			
CLEANOUT RATE <b>5X</b> FASTER	MATERIAL SIZE ALL #4	REVERSIBLE 	NOISE 

Patent# 8,857,606

## DESIGN BENEFITS...

### ACCELERATED CLEANOUT

The patented design of the Dominator HD Wing Pulley maximizes the material cleanout rate by incorporating the proven design features of The Eradicator® Wing. The Dominator™ minimizes recirculation of material and provides a cleanout rate up to 5 times faster than its traditional counterparts provide. Even when installed in the opposite direction, this innovative design has a cleanout rate 5 times faster than a traditional wing pulley.

### BELT CLEANING

The straight wing members of the Dominator HD wing pulley allow for intermittent contact with the conveyor belt and provide belt slapping and vibration to help knock lodged materials off the conveyor belt.

### THE STRENGTH OF A GUSSETED WING WITHOUT THE TRADITIONAL GUSSETS

Self-gusseted angled wings add more strength and go further to prevent wing fold over than traditional gussets can in this size range. Each wing tip supported by two consecutive wings for unprecedented support.

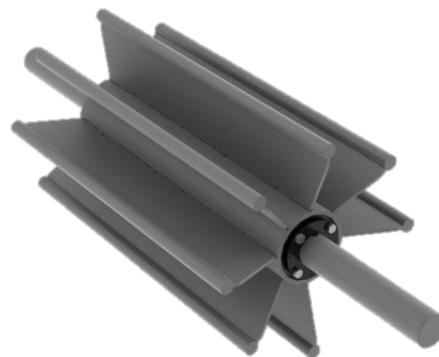
# CONVEYOR PULLEYS

## Additional / Custom Designs



### SPIRAL STYLE PULLEYS

A metal strip contact surface is fixed in a spiral pattern around the circumference of a drum or wing pulley to achieve continuous contact with the conveyor belt while enhancing material removal. Spiral style pulleys are primarily used on bulk handling systems where material buildup and continuous contact with the conveyor belt are operational concerns.



### CUSTOM WING TIP OPTIONS

Several styles of wing tips can be substituted for PCI standard flat bar tips. Options include round bar (shown here), thicker flat bar and AR-Abrasion Resistant materials.



### SQUIRREL CAGE

Squirrel cage pulleys are comprised of solid steel round bars welded to a series of disks which serve as the pulleys core. The open body construction provides for added clean-out over round bar or standard wing pulley designs.



### BEATER BAR

Beater Bar designs feature a series of solid steel round bars welded to a tube or pipe core. The robust construction provides an increased safety factor in harsh environments.



### "7" SHAPED FINS

7-Shaped wing pulleys feature steel wing members formed to a bent shape resembling the number seven. The profile of the wing member reduces belt wear while providing an economical construction for light duty applications.



### SOLID CORE

Solid core pulleys offer self-cleaning benefits in the smallest of pulley diameters. Wing members can be designed using profiles including fins with flat tips, round bar or custom profiles.

# CONVEYOR PULLEYS

## Focus Flyer

## Dead Shaft Assemblies



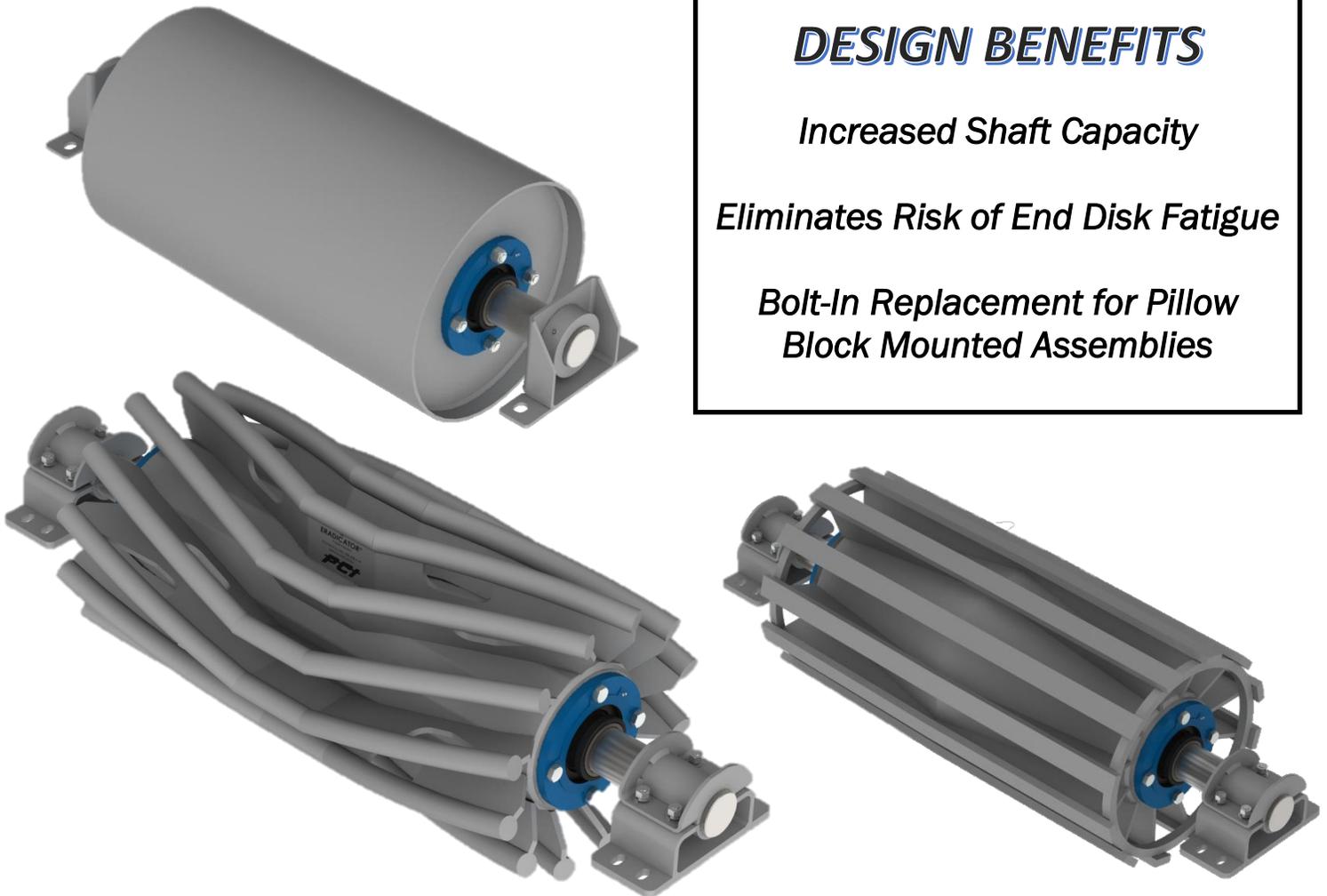
PCI® Dead Shaft Assemblies are designed to maximize conveyor pulley life by eliminating the risk of failure from end disk fatigue while increasing the pulley's overall capacity.

### ***DESIGN BENEFITS***

***Increased Shaft Capacity***

***Eliminates Risk of End Disk Fatigue***

***Bolt-In Replacement for Pillow Block Mounted Assemblies***



***Increased Shaft Capacity:*** Mounting the bearings to the pulley allows the shaft to remain in a fixed position while in operation. Keeping the shaft in a fixed, non-rotating position eliminates the risk of bending fatigue associated with traditional live shaft assemblies. This design change increases the capacity of the pulley assembly.

***Eliminates Risk of End Disk Fatigue:*** PCI Dead Shaft Assemblies utilize SKF® self-aligning spherical roller bearing units which absorb any bending that may occur in the shaft. This self-aligning feature eliminates the transfer of shaft bending into the end disks, eliminating the risk of end disk fatigue.

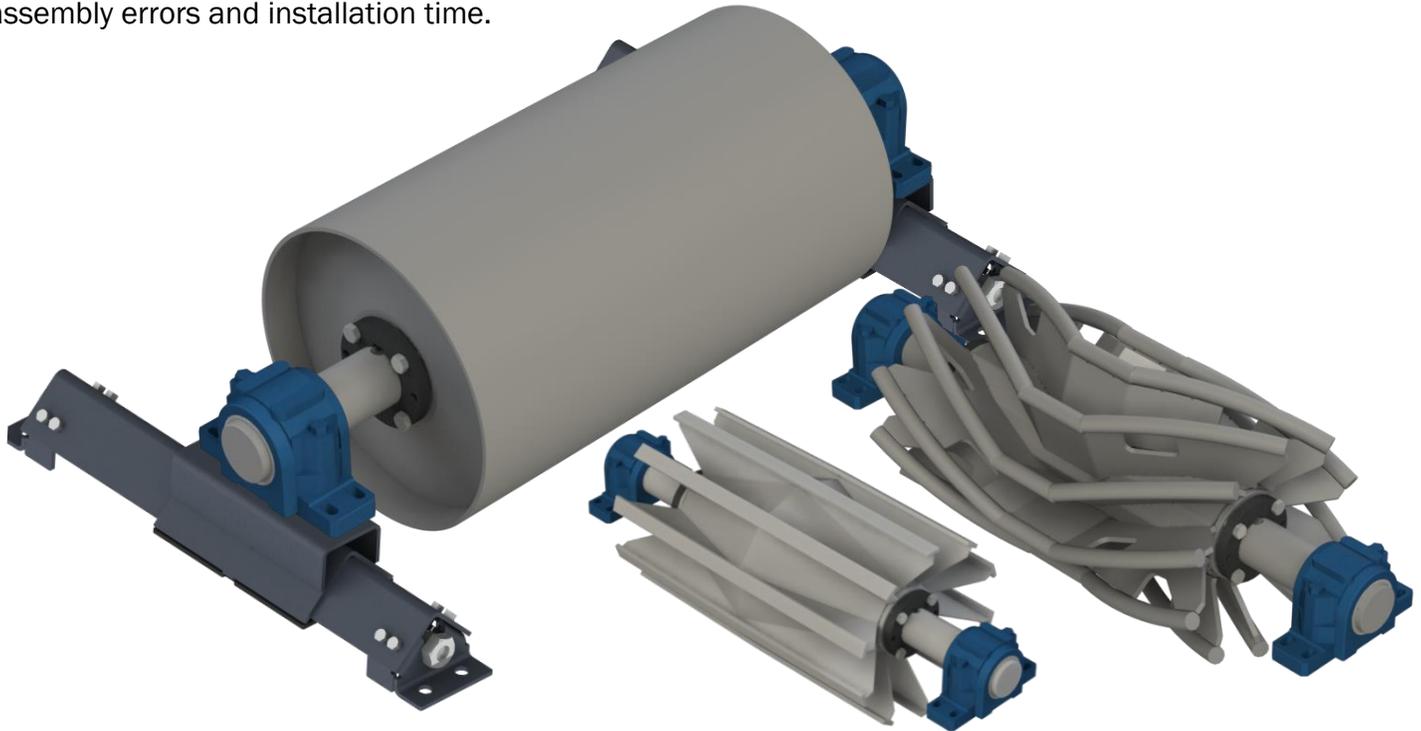
***Bolt-In Replacement for Pillow Block Mounted Units:*** PCI welded steel Dead Shaft pedestals are available in two styles, designed as drop-in replacements for standard Medium Duty Ball Bearing, Spherical and Type E Pillow Block bearing units.

# CONVEYOR PULLEYS

## Focus Flyer Pulley Assemblies



PCI® conveyor pulley products can be ordered complete with custom detailed shafting, SKF mounted bearings and Take-Up Frames as a ready-to-install assembly kit. For your convenience, PCI has partnered with SKF to provide stock availability on a variety of bearing styles and sizes. Additionally, PCI can professionally install SAF style bearings on the pulley shaft to your specifications, reducing field assembly errors and installation time.



	
<b>P2B Standard Duty Ball Bearing Units P2BM Medium Duty Ball Bearing Units</b>	
<b>SKF</b>	<b>REPLACES</b>
P2B	Dodge P2B-SC / Sealmaster NP / Browning VPS2 / Rexnord P35
P2BM	Dodge P2B-SCM / Sealmaster MP / Browning VPS / Rexnord MPS

	
<b>P2BE/P4BE Type-E Spherical Roller Bearing Units</b>	
<b>SKF</b>	<b>REPLACES</b>
P2BE / P4BE	Dodge P2B-E & P4B-E / Sealmaster USRBE Browning PBE920 / Rexnord EPB224(00)H & FH

	
<b>SAF/FSAF 225 Split Housing Adaptor Mount Spherical Roller Bearing Units*</b>	
<b>SKF</b>	<b>REPLACES</b>
SAF / FSAF	Dodge P2B5(00)-USAF / Rexnord ZAF / Sealmaster USRB

\* When ordered assembled with a pulley and shaft, SAF/FSAF units are filled with Mobil SHC 220 Synthetic Grease. Unassembled SAF /FSAF units are shipped without grease. Type-E units are shipped with SKF factory installed grease.

When relubricating, care must be taken to use greases that are compatible with the original grease. SKF suggests a medium temperature, lithium calcium base, NLGI Grade No. 2 grease having an oil with a viscosity of 200 mm<sup>2</sup>/s at 40°C. When a unit is being relubricated, avoid excessive pressure which may cause damage.

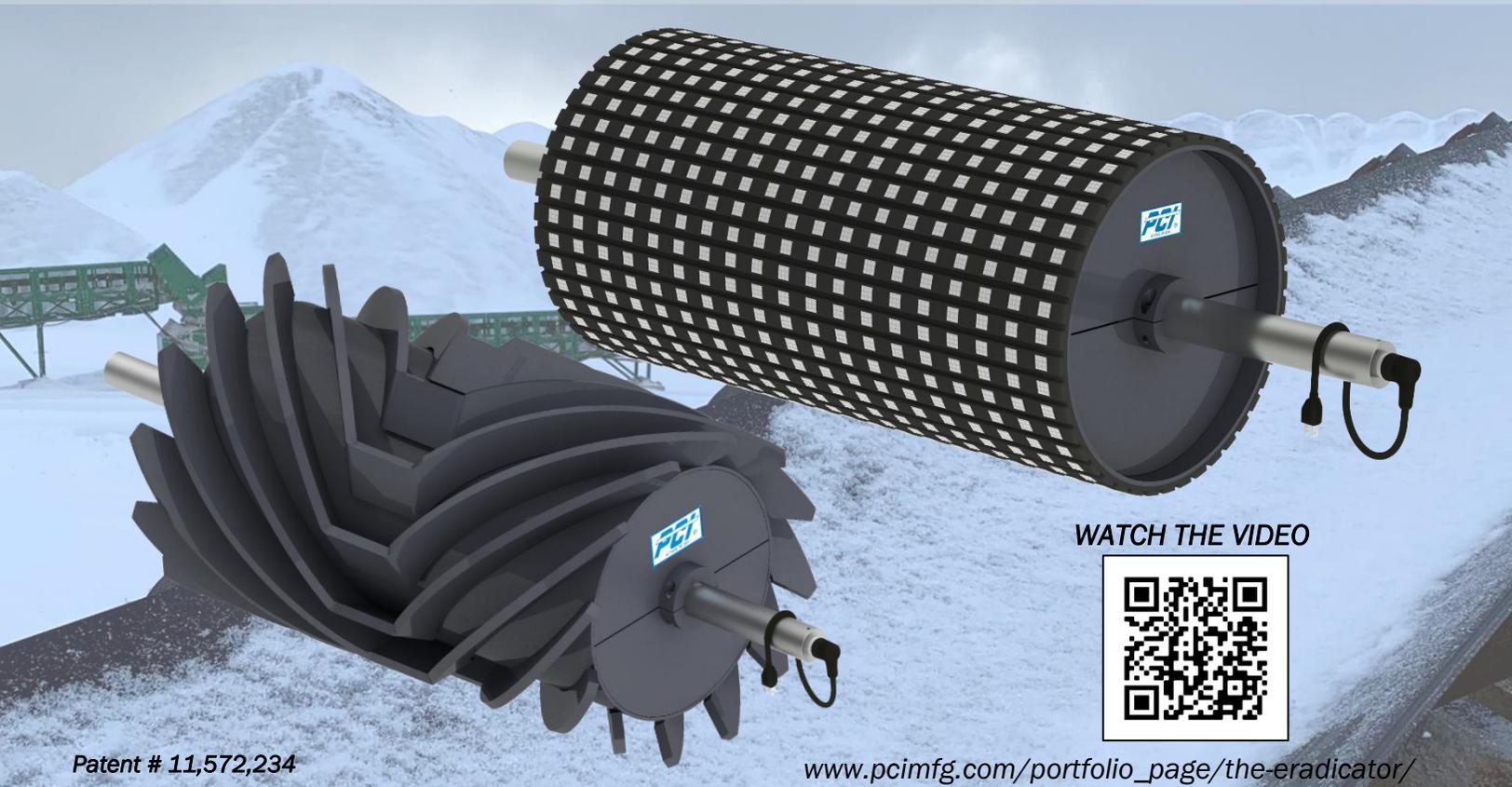
# CONVEYOR PULLEYS

## Focus Flyer

### The Ice-Eradicator®



PCI's patented Ice-Eradicator® is the world's first proven solution to temper the costly effects of frozen conveyor belts. When installed in the head position, a drum style Ice-Eradicator® will de-ice and soften the conveyor belt encouraging startup in freezing conditions. PCI's innovative technology can also be adapted to any Eradicator® or Deflector® wing pulley to discourage problems related to ice buildup in non-drive positions.



WATCH THE VIDEO



Patent # 11,572,234

[www.pcimfg.com/portfolio\\_page/the-eradicator/](http://www.pcimfg.com/portfolio_page/the-eradicator/)

## DESIGN BENEFITS...

### COLD WEATHER PERFORMANCE

The Ice-Eradicator reduces belt slip in cold environments through its patented heated core technology. In freezing environments, conveyor belts become rigid, preventing conveyor operation by disrupting the ability of the drive pulley to grip the belt. The Ice-Eradicator enhances belt grip in cold temperatures by maintaining an elevated temperature near the pulley's outer surface thereby heating the belt to discourage belt freeze.

### REDUCE SAFETY HAZARDS

In cold weather months, frozen belts increase the amount of time required to successfully startup a plant operation. To minimize downtime, unorthodox methods of resolution are sometimes employed. Many of these methods increase the likelihood of workplace accidents. The Ice-Eradicator reduces the safety risk posed by direct human intervention at the drive position with tools like propane burners or liquid chemicals.

### NO DIRECT FLAME

Alternate methods for resolving frozen conveyor belts utilize direct flame to provide the heat necessary for startup. Although effective, use of direct flame at the site can increase the risk of fire or workplace injury. In addition, heating fuel can prove costly during cold weather months. The patented design of the Ice-Eradicator eliminates the need for direct flame providing proven performance without the added cost and risk of direct flame.

### SIMPLIFIED INSTALLATION

The Ice-Eradicator is engineered for easy installation with minimal modification to the existing conveyor structure. Worry free performance at sub-zero temperatures is possible with a single 120V 15A power service.



(989)358-6149

[www.pcimfg.com](http://www.pcimfg.com)

# CONVEYOR PULLEYS

## Focus Flyer

### The Ice-Eradicator®



#### How does PCI's Ice-Eradicator work?

PCI's patented technology incorporates a slip ring and heating element to heat an environmentally friendly internal liquid solution. With a GFCI protected 120V 15A power supply, the Ice Eradicator can be energized just hours prior to conveyor system start-up (harsher environments may require more time). When energized, the surface temperature of the pulley increases at a rate of up to 25°F per hour which increases the belt temperature at a rate of up to 5°F per hour. By elevating the surface temperature of the pulley, the belt to pulley connection is de-iced and the belt softened increasing the likelihood of successful conveyor start-up. In critical applications and all non-drive positions, the Ice-Eradicator may be energized during operation for performance in extreme conditions.



In an environment of 20°F ambient temperature and 5" of fresh snow, PCI's Ice-Eradicator completely melts snow and ice in three hours with a single 120V 15A power source.



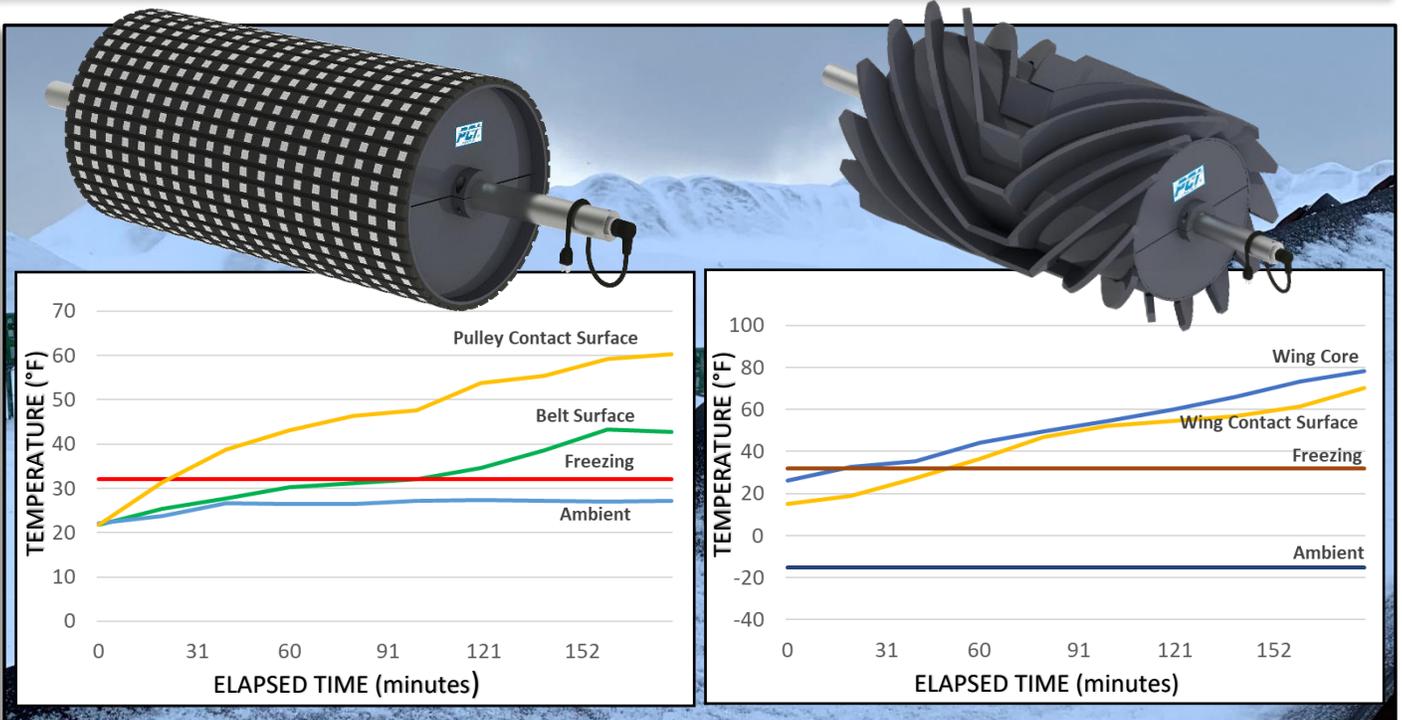
60 MINUTES

1HR 40 MINUTES

2HRS 20 MINUTES

3 HOURS

ELAPSED TIME AFTER ENERGIZING PCI ICE-ERADICATOR



(989)358-6149

www.pcimfg.com