

# 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 48"

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



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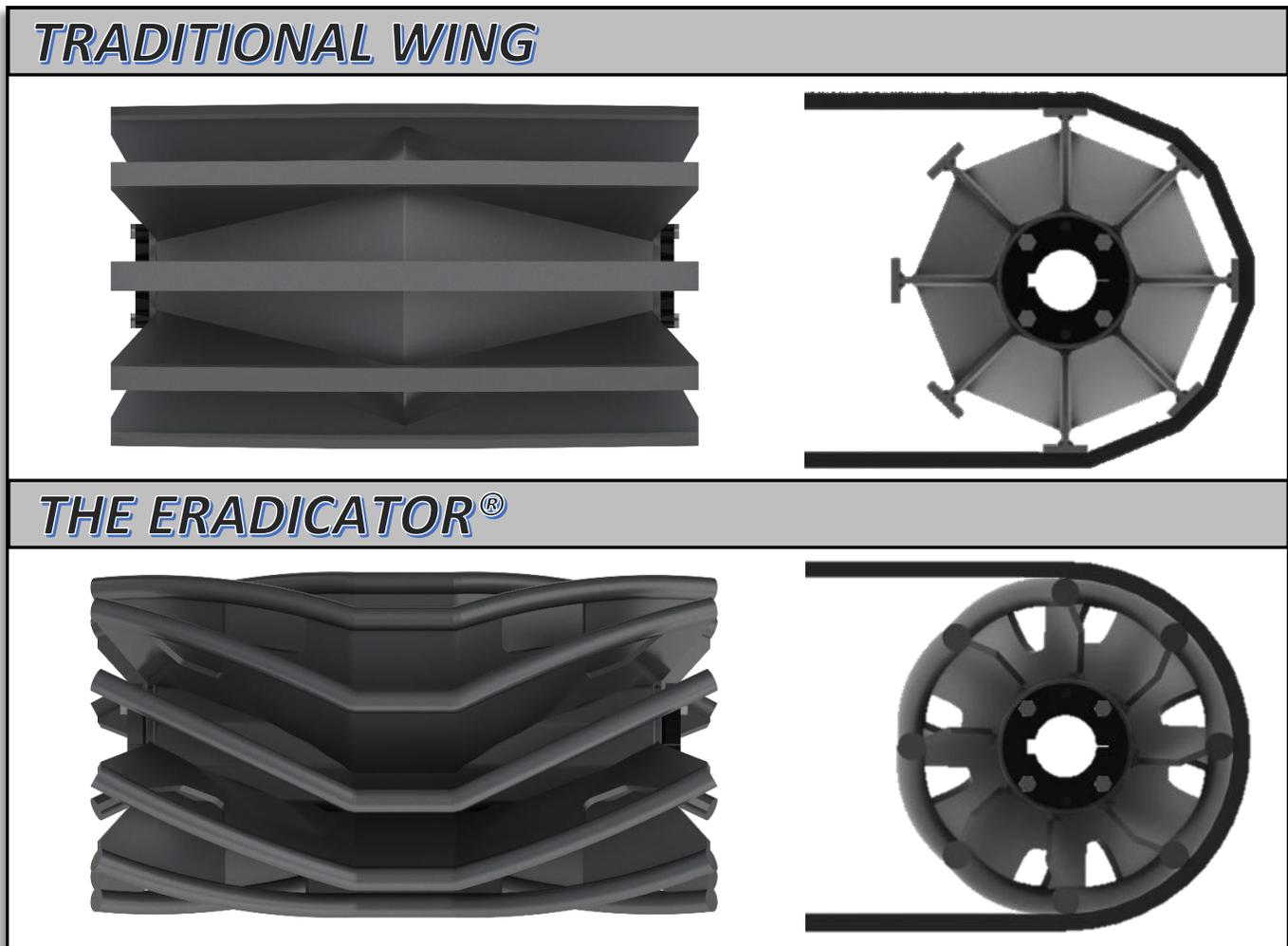
## Focus Flyer

### 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



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## Focus Flyer

### The Eradicator<sup>®</sup>-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.

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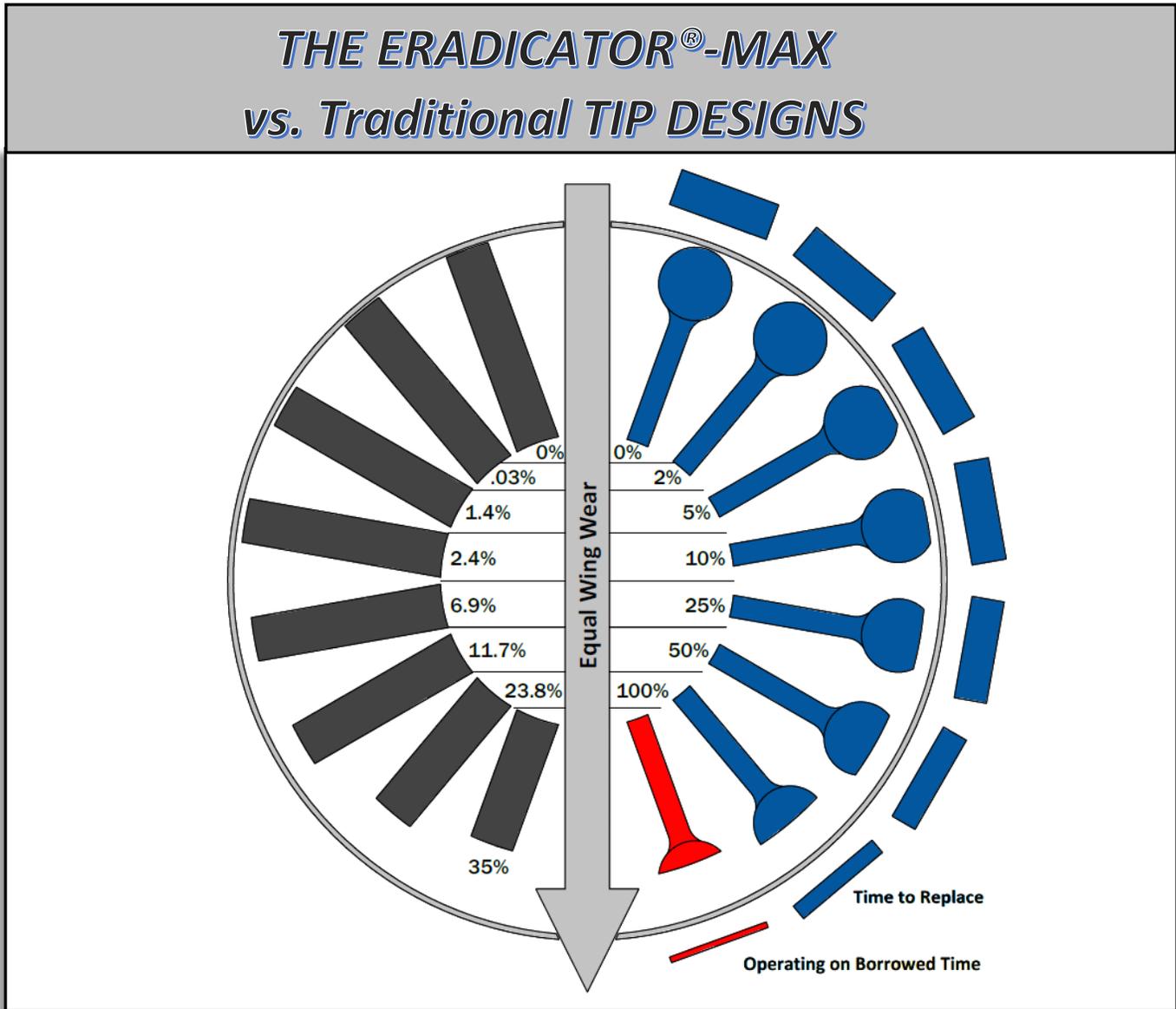
## Focus Flyer

### 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.

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