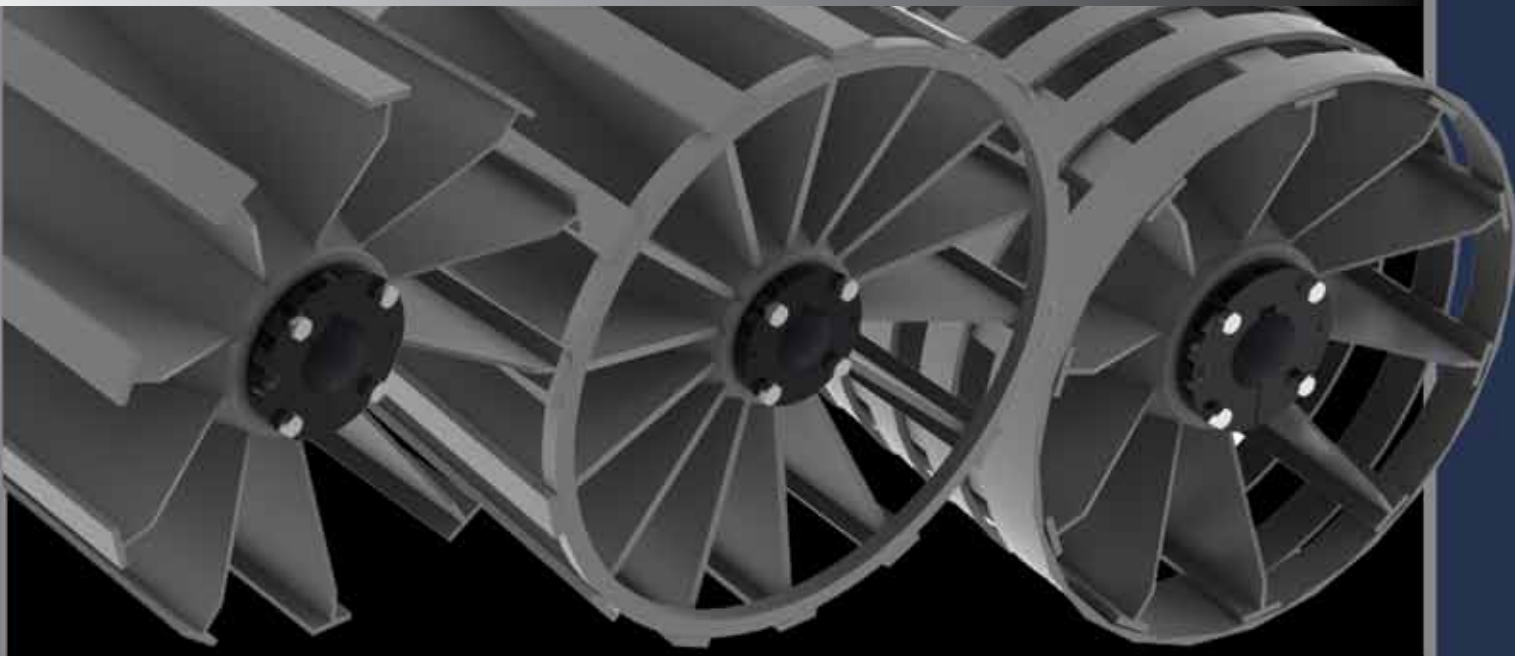




PCI® Wing Style Conveyor Pulleys

PRODUCT SHOWCASE



INCLUDING...



Wing Tip Lagging

PCI®, ProCal Inc.
www.pcimfg.com
Toll Free 800.323.0966

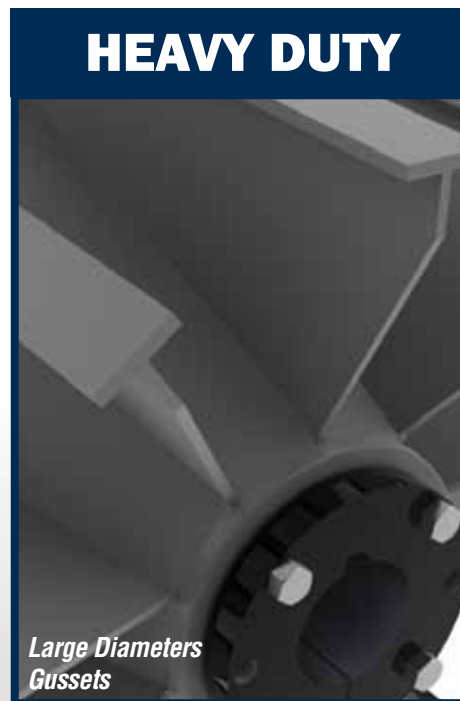
For over 20 years, PCI has been manufacturing conveyor pulleys with quality and reliability at the forefront. Our Wing Style conveyor pulleys are designed to increase operating efficiency by continuously cleaning the conveyor belt of undesirable particulate. PCI's three standard offerings provide you choices for your conveyor solution so you aren't paying for weight in applications where you don't need it. This means you're getting the right amount of weight....in the right places.

◆ **What applications benefit from using a Wing Style conveyor pulley?**

Also known as self cleaning pulleys, wing pulleys are primarily used on the tail end of bulk handling systems where loose materials have a tendency to reside on the underside of the conveyor belt, causing damage to one or both components. Wing pulleys incorporate a non-continuous contact surface comprised of individual wings or fins. This construction results in the creation of open voids that allow loose material to fall away from the contact surface. In applications where continuous contact is desired, spiral style wing pulleys can be utilized.

◆ **What are the differences between Standard, Heavy, and Mine Duty Wing pulleys?**

The difference between wing pulley configurations is component thickness and the use of supplemental reinforcing agents. The thicker the components used, the greater the series name (heavy, mine, etc.). Furthermore, to brace the components under the heavier loads, wing pulleys utilize stiffening agents such as gussets and reinforcing rings between wing members. Because diameter plays a role in pulley capacity, not all configurations are available in all diameters.



◆ **Is a Mine Duty pulley rated to a greater capacity than a Heavy Duty pulley?**

While component thicknesses do contribute to overall pulley capacity, shaft diameter plays the primary role in achieving a desired load capacity. In other words, selecting a Mine Duty pulley over a Heavy Duty pulley won't necessarily achieve a greater load capacity if the axle is not sized to accommodate the application loads.

STANDARD DUTY WING PULLEYS



PCI® Standard Duty Wing Pulleys are designed for light to medium duty bulk handling applications where material removal is desired but impact or extreme loading is unlikely.

Available in Several Hub Styles

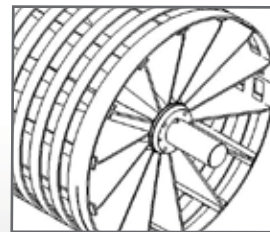
Wings Allow for Material Removal

Flat Tips Maximize Belt Contact & Increase Wing Rigidity

Number of wings will vary based on pulley diameter. Shown is an 8" diameter pulley with 7 wings.

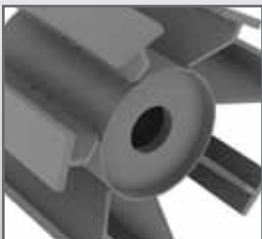
PRODUCT SPECIFICATIONS

Diameter:	6" through 12"
Wing Thickness:	7 gauge (.180")
Wing Tip Thickness:	1/4"
Gussets:	Available Upon Request
Reinforcing Rings:	Available Upon Request

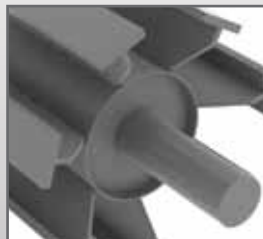


Spiral Configuration Available

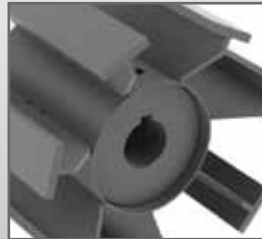
HUB STYLES



Type 1
Plain Bore



Type 1
Welded Shaft



Type 2
Keyed Hubs



Type 4
Compression Hubs & Bushings



Type 5
Keyless Locking Devices

HEAVY DUTY WING PULLEYS



PCI® Heavy Duty Wing Pulleys are designed for bulk handling applications where material removal is desired and moderate to heavy impact or extreme loading is likely.

Wings Allow for Material Removal

Flat Tips Maximize Belt Contact & Increase Wing Rigidity

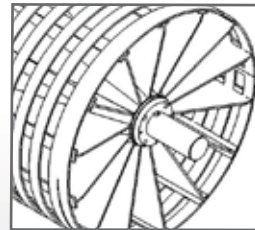
Gussets Reinforce Wing Members

Available in Three Hub Styles

Number of wings will vary based on pulley diameter. Shown is an 14" diameter pulley with 10 wings.

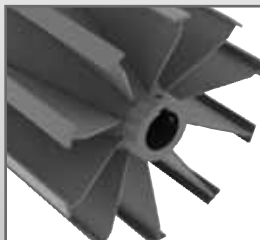
PRODUCT SPECIFICATIONS

Diameter:	14" through 48"
Wing Thickness:	7 gauge (.180") through 5/16"
Wing Tip Thickness:	3/8"
Gussets:	Standard
Reinforcing Rings:	Standard on Select Larger Sizes Available Upon Request



**Spiral
Configuration
Available**

HUB STYLES



Type 2
Keyed Hubs

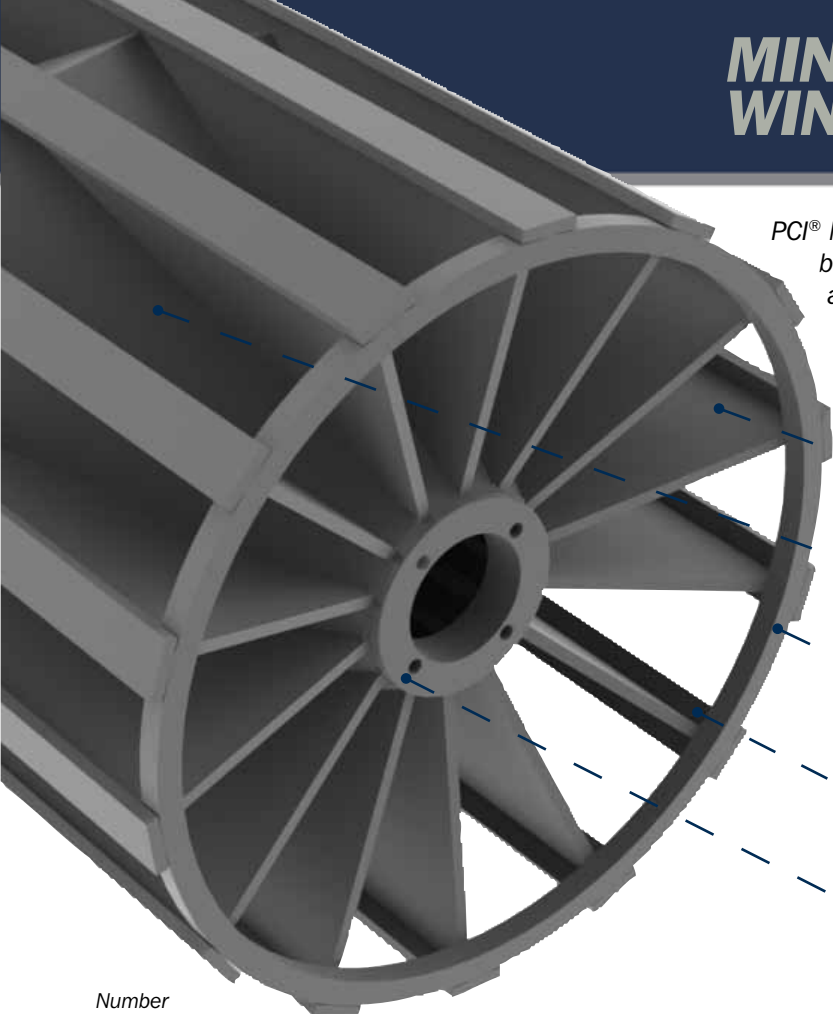


Type 4
Compression
Hubs & Bushings



Type 5
Keyless Locking
Devices

MINE DUTY WING PULLEYS



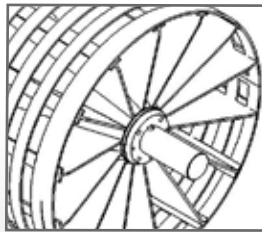
PCI® Mine Duty Wing Pulleys are designed for more demanding bulk handling applications where material removal is desired and heavy to extreme loading is highly likely.

- Wings Allow for Material Removal
- Gussets Reinforce Wing Members
- Reinforcing Rings Stabilize Wing Construction
- Flat Tips Maximize Belt Contact & Increase Wing Rigidity
- Available in Two Hub Styles

Number of wings will vary based on pulley diameter. Shown is a 24" diameter pulley with 14 wings.

PRODUCT SPECIFICATIONS

- Diameter:** 12" through 48"
- Wing Thickness:** 3/8" through 1/2"
- Wing Tip Thickness:** 5/8"
- Gussets:** Standard
- Reinforcing Rings:** Standard



Spiral Configuration Available

HUB STYLES



Type 4
Compression Hubs & Bushings



Type 5
Keyless Locking Devices

CUSTOM DESIGN SELF CLEANING PULLEYS



ROUND-BAR



Round bar designs feature a series of solid steel round bars welded to a tube or pipe core. The robust construction provides additional safety factor in harsh environments. Round bar designs are most commonly used for smaller diameter pulleys where standard wing pulley designs are not feasible.

SQUIRREL CAGE



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

SOLID CORE



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

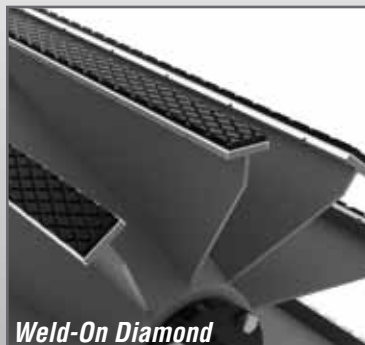
WING PULLEY LAGGING & ADDITIONAL WING TIP OPTIONS

Wing tips are the primary wear component of a wing style pulley. To increase the service life of a wing pulley, several wear resistant products are available as finish options for the wing tips:



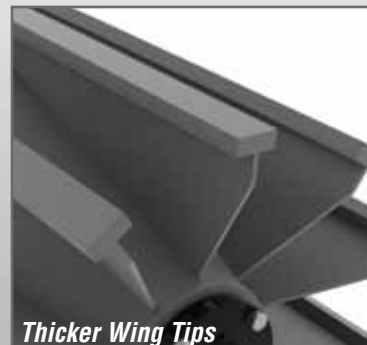
Slide On Smooth

FIELD REPLACEABLE



Weld-On Diamond

FIELD REPLACEABLE



Thicker Wing Tips

Abrasion resistant material available upon request