

CONVEYOR PULLEYS

Drum Pulleys - FC Series



989.358.6149

www.pcimfg.com

Designed for standard duty belt conveyor applications, 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.



FEATURING...
PCI Trapezoidal Crown Technology

DIAMETERS AVAILABLE

2" through 12"

WALL THICKNESSES

11 gauge (.120"), 10 gauge (.134"), 3/16"

END DISK THICKNESSES

1/4" - 5/16" - 3/8"

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 (*Type 5*)

Welded Stub Shaft

Dead Shaft Assembly

*Hub style availability
will vary based on
pulley construction.*

CONVEYOR PULLEYS

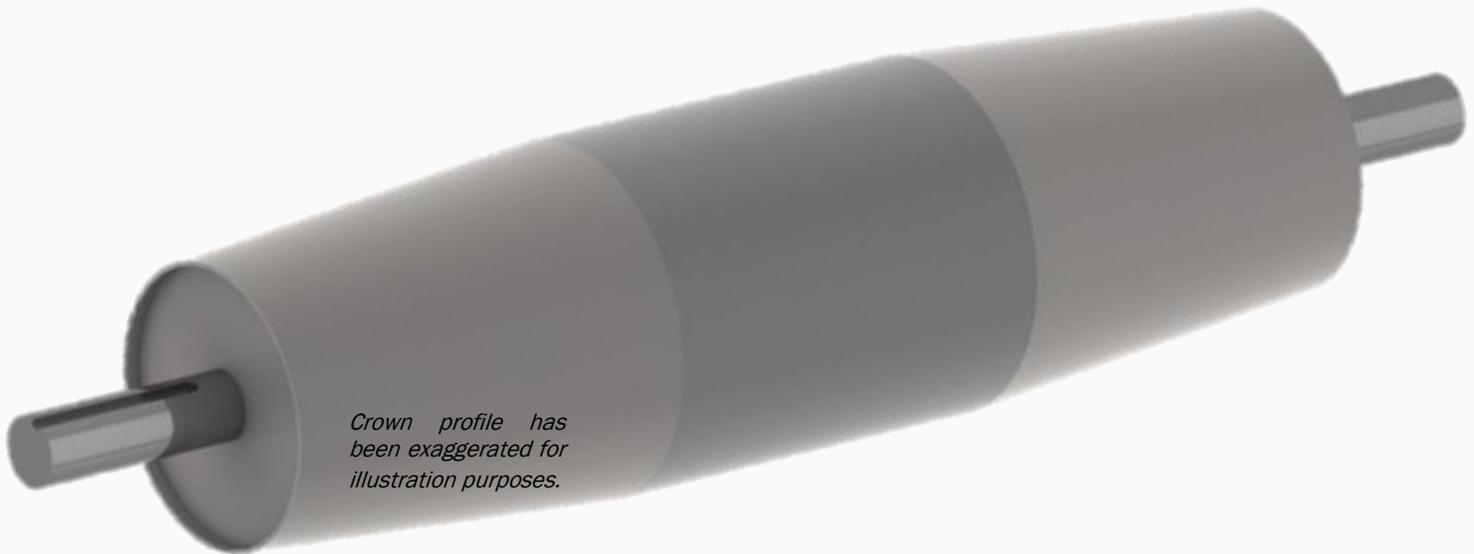


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Focus Flyer – FC Trapezoidal Crown

Designed for standard duty belt conveyor applications, 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.



INCREASED BELT LIFE: PCI Trapezoidal Crown pulleys lengthen conveyor belt life by minimizing center stretch commonly associated with single crown profiles. Because of its many performance enhancing features, the “trap crown” profile is the preferred crown of many conveyor belt manufacturers.

ENHANCED BELT TRACKING: A conveyor belt will track towards the high point or largest diameter of a conveyor pulley. Trapezoidal crown pulleys are flat in the center and have tapers on each end providing an even, center located plateau for the conveyor belt to track around.

IMPROVED RUNOUT: PCI's proprietary crowning process provides improved runout characteristics over alternate methods of forming a crown in gauge wall tubing. Improved runout provides more consistent performance, reducing maintenance costs associated with belt tracking and belt replacement.

PRODUCTION RUN CONSISTENCY: PCI's proprietary crowning process also provides consistency between production runs. This means that by purchasing a PCI conveyor pulley, you'll receive the same quality product with every purchase.

ECONOMICAL CONSTRUCTION: Most manufacturers can provide the advantages of a trapezoidal crown by machining it into the face of a heavy wall pulley. By forming the trapezoidal crown into the face of the pulley, our FC Series pulley eliminates the cost of machining and excess material, giving you maximum performance at an optimum value.

CONVEYOR PULLEYS

Drum Pulleys - MC Series



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Designed for standard to medium duty belt conveyor applications, MC Series pulleys are manufactured from medium or heavy wall tube or pipe and receive a machined crown when a crown is specified.



SURFACE OPTIONS INCLUDE...



MACHINING



KNURLING

DIAMETERS AVAILABLE

2" through 12.75"

WALL THICKNESSES

Multiple: 1/4" through 3/8"

END DISK THICKNESSES

3/8" - 1/2"

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 *(Type 5)*

Welded Stub Shaft

Dead Shaft Assembly

*Hub style availability
will vary based on
pulley construction.*

CONVEYOR PULLEYS

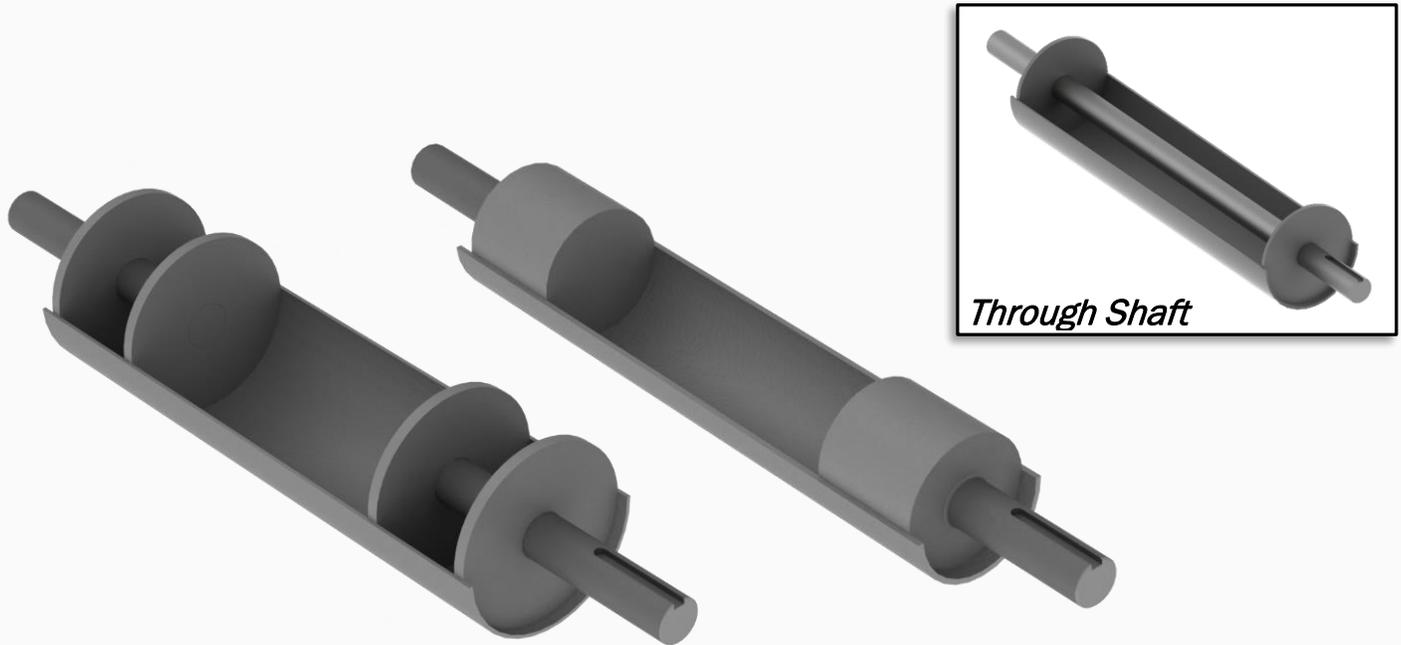


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Focus Flyer - Welded Stub Shaft

PCI® Welded Stub Shaft pulleys are designed to maximize conveyor pulley life by reducing the risk of failure from shaft deflection by increasing fatigue safety factor and overall shaft capacity. PCI's design utilizes either a tandem of disks with shorter shafts or a solid shaft that is turned to specifications. Welded stub shaft designs are optimal for longer length pulleys of smaller diameters.



DESIGN BENEFITS

Minimized Shaft Deflection - Increased Shaft Capacity

Minimized Shaft Deflection: The single largest contributor to premature failure of a conveyor pulley is end disk fatigue caused by excessive shaft deflection. Shaft deflection is the bending or flexing of a shaft caused by the sum of the loads on the pulley. Pulleys of longer length (typically greater than 72") require special consideration of deflection because of their length. PCI stub shaft pulleys eliminate deflection by replacing a through shaft with two shorter shaft designs.

Increased Shaft Capacity: By eliminating shaft deflection as a source of failure, PCI stub shaft pulleys provide increased capacity for the pulley assembly. Depending on the specifications of the pulley, a PCI stub shaft pulley can provide up to 10 times the capacity of a comparable through shaft design.