

CONVEYOR PULLEYS

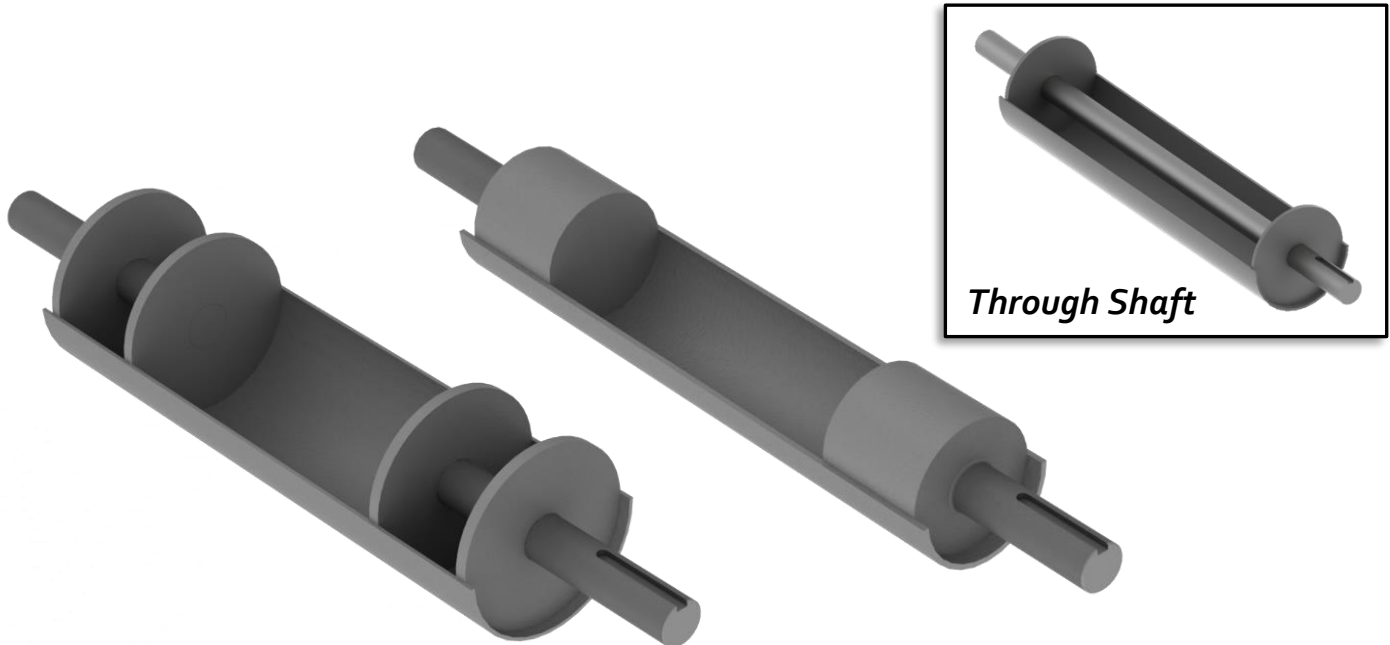
Focus Flyer – Welded Stub Shaft



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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.