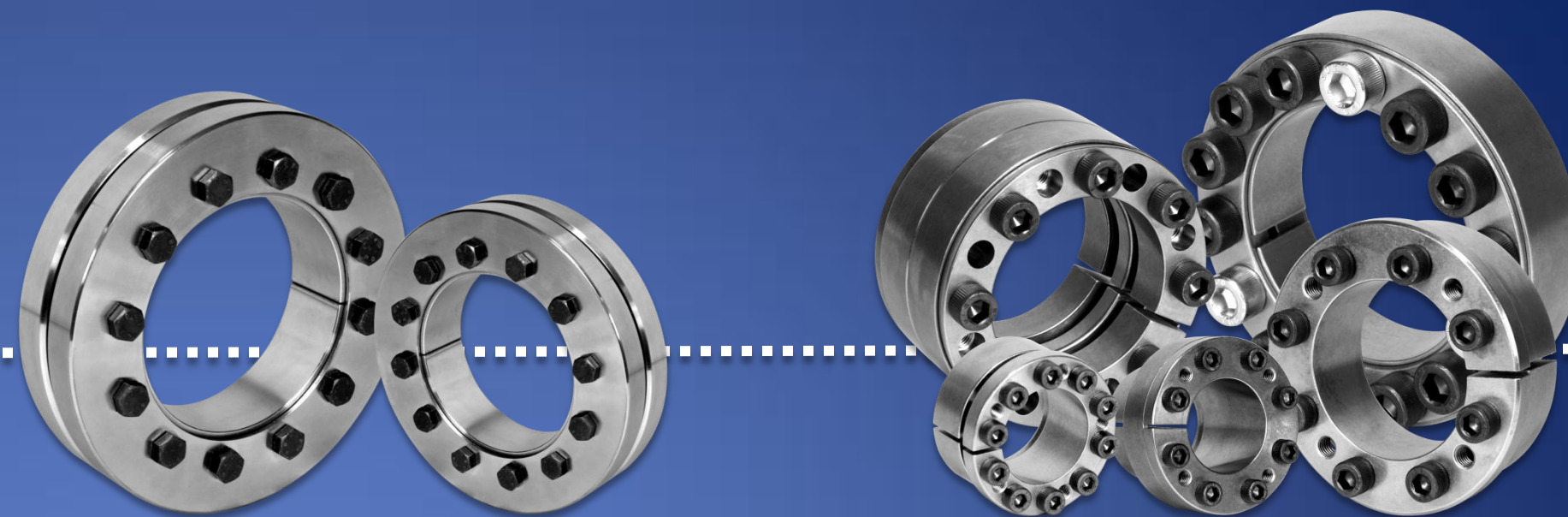


Keyless Locking Devices



What is a KLD?

Keyless Locking Devices (KLDs) are mechanical bushings used to connect power transmission components onto rotating shafts.

Eliminate Keyways

Keyways introduce backlash, which over time leads to fretting corrosion and wallowing.

Simplified Machining

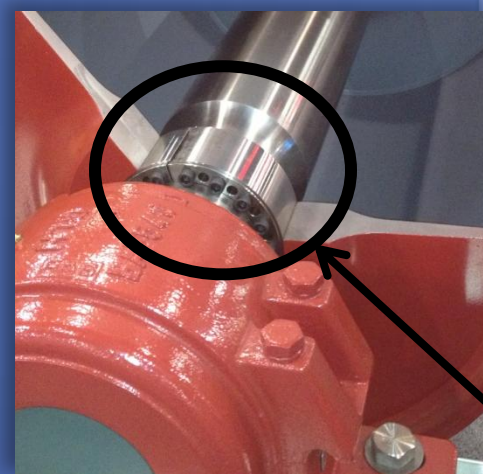
KLDs work with straight bores and generous tolerances, reducing component machining complexity and cost.

Quick & Easy Installation

KLDs are installed and removed using simple hand tools; no heat or high forces required.

High-Capacity Interference Fit

KLDs transmit high dynamic loads, including torque, thrust, bending, and combined loads. Excellent for applications with indexing motion profiles and/or high shock loads.



Shrink Discs

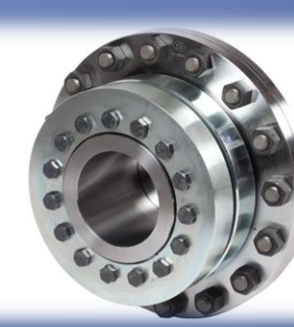
- ✓ Shrink discs mount on the outside of a hub or hollow shaft, compressing it onto the shaft
- ✓ Tapered rings work like wedges to convert locking screw clamp loads into radial contact pressure
- ✓ Component deformation is elastic, so all parts return to their original fit clearances upon removal
- ✓ Shrink disc outer rings are supplied zinc plated for added corrosion protection

Locking Assemblies

- ✓ Locking Assemblies install as bushings between the shaft and the component bore, creating a high-pressure mechanical interference fit
- ✓ As the annular high-strength screws are tightened, internal tapers simultaneously apply radial force on the shaft and the component bore
- ✓ No key means infinite radial and axial positioning for precise alignment and timing
- ✓ Self-locking tapers on most designs mean the connection will not loosen under dynamic loading, even high shock, reversing or vibration



Belt Conveyor Pulley
Cutaway Model



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