

Keyless Locking Devices

Keyless Locking Devices (KLDs) are mechanical bushings used to connect power transmission components onto rotating shafts. KLDs transmit high dynamic loads, including torque, thrust, bending, and combined loads. Excellent for applications with indexing motion profiles and/or high shock loads.

Eliminate Keyways

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

Simplified Machining

Works with straight bores & generous tolerances, reduces machining complexity & cost.

Simple Installation

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

Locking Assemblies



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

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

Keyless Rigid Couplings



- ✓ Keyless rigid couplings have tapered rings that work like wedges to convert clamp loads into radial contact pressure
- ✓ As the screws are tightened, the wedges come together to tighten down on the two opposing shafts
- ✓ When the specified screw tightening torque is reached, the predetermined load capacity is achieved



Industry Applications

Conveyors, Food Processing, Bottling, Timber & Forestry Systems, Steel Foundries, Mining & Aggregate Systems, Car Wash, High-Speed Index Packaging, Plastic Extruders, Railways, Wind Power, Wastewater & Recycling, etc. KLDs can be found in virtually any application where PT components are mounted onto a rotating shaft.