

KLD Mechanical Interference Fit an Optimal Solution for Sawmill Systems and Planar/Feed Tables

Climax Keyless Locking Devices withstand the constant pounding associated with timber processing applications making them an ideal replacement for expensive and time consuming traditional interference fit connections.



For Rotating Applications:

- Keys, keyways, and set screws are prone to shaft damage and fretting corrosion
- Splines, prone to fretting and require expensive machining
- Shrink or press fits that are difficult to install and remove
- QD/Taperlock bushings use keyways where wallowing occurs causing fretting and backlash
- Hex nut keyless bushings are not self-locking and dynamic loading can loosen the connection

Sawmill Systems and Planer/Feed Tables commonly incorporate traditional keyed connections when attaching feed rollers in sawmill equipment. Using a keyed connection adds weight and cost not only to the shaft but to every component on the shaft. Over time, keyways cause fretting corrosion, allowing for backlash, and do not transmit bending moments or axial loads.

A Climax keyless locking assembly can be used in place of a keyed connection removing these disadvantages especially when subjected to extreme environments where constant load reverses are common. Keyless locking devices use multiple screws with opposing tapers creating a 360° contact mechanical interference fit. Where pin retention is used in sawmill equipment, using a C133 or C405 locking assembly eliminates the need for welding of components onto other structures. When maintenance is required, Climax keyless locking devices are field serviceable and are easily removed and reinstalled using simple hand tools

Climax carries an extensive inventory of KLDs with the capability to engineer custom designs to fit any application challenge.





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Innovation. Commitment. Quality.

RBC has been producing bearings in the USA since 1919. In addition to unique custom bearings, RBC offers a full line of standard industrial and aerospace bearings, including:

Bearings

Thin Section Ball

Standard cross sections to one

materials are available. Seals are

inch. Bore sizes to 40 inches.

Stainless steel and other

available on all sizes and standard cross sections. Super

duplex configurations.



Tapered Roller Thrust Bearings

Case-hardened tapered roller thrust bearings for oilfield top drives and swivels. Available in full complement, maximum capacity versions.



Cylindrical Roller Bearings

Cylindrical roller bearings designed for mud pump pinion and eccentric positions. Fully interchangeable to industry standards.



Spherical Plain Bearings

Radial, angular contact, extended inner ring, high misalignment. QuadLube®, ImpactTuff®, SpreadLock® Seal, CrossLube®, DuraLube™, and self-lubricating bearings. Available in inch and metric sizes.



Keyless Locking Devices

Mechanical bushings used to connect power transmission components onto rotating shafts. Without the use of keyways, KLDs eliminate the problems associated with backlash including fretting. corroding, and wallowing.



Self-Lubricating Bearings

Radial, thrust, rod ends, spherical bearings, high temperature, high loads. Available in inch and metric sizes. Fiberglide® self-lubricating bearings.



Ball Bearings

Precision ground, semiground, unground. High loads, long life, smooth operation. Nice® branded products are offered in caged and full complement configurations.





Pitchlign® caged heavy duty needle roller bearings ideal for cross head bearings applications. These double row bearings are available in single row and Tandem Roller® versions.

Needle Roller Bearings

Tapered Roller Bearings

Single, double, & multi row versions available for main bearing positions in mud pumps, gear boxes, etc. Bearings are constructed of case hardened steel washers and rollers with bore size of 11" or greater.

Lubron[®] Bearings

Lubron[®] self-lubricating bearings designed and custom manufactured in most any size, material and bearing configuration. Applications include hydro power and water control, nuclear power generation, infrastructure, architecture, offshore marine, industrial, machinery and heavy equipment.

Rigid Couplings

Shaft couplings serve as components to time, join, or align shafts at lower speeds and torque, especially when zero backlash is desired. Made from mild steel with a black oxide finish, type 303 stainless steel, or aluminum. Available in inch and metric sizes.













Cam Followers

Standard stud, heavy stud, yoke type, caged roller followers. Patented RBC Roller® cylindrical roller cam followers, HexLube® universal cam followers, airframe track rollers.

Commercial Rod Ends

Commercial and industrial, precision, Mil-Spec series, selflubricating, and aircraft. Sold under the Heim®, Unibal®, and Spherco® names. Available in inch and metric sizes.

TP Series Bearings

RBC's TP Series cylindrical roller thrust bearings ideal for crane hooks, oil well swivels, winch systems, and gear boxes. Fully interchangeable with industry standard offering.

Shaft Collars

Used to position or locate a component on a shaft. Made from mild steel, type 303 or 316 stainless steel, aluminum, or acetal. Available in inch and metric sizes.

Specials

RBC manufactures many specialty bearings for the aerospace, oil and energy, semiconductor equipment, packaging, transportation, and other industries.

PIC Design

Complete line of precision gears, precision hardware, timing belts, pulleys, and linear motion systems. Industries served include industrial, aerospace, defense, medical, robotics and automation, material handling, and assembly. Custom design support for unique applications.

CLIMAX **Lubron**[™] **SPHERCO** NICE BEARINGS

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