

Large Bore Couplings Provide Solution for Line Shaft Timber Applications

Climax large bore shaft couplings provide a higher strength alternative over antiquated traditional approaches in timbering applications while transmitting higher loads necessary for line shafts.



From initial harvesting to final product, machinery used in forestry (sawmill) applications is constantly subjected to some of the harshest environments and strenuous loads for which an engineer can design. The true workhorse of the coupling family, rigid couplings can be used in many line shaft applications in the timber industry.

Climax's state of the art facility, located in Mentor, Ohio, manufactures couplings with up to a 5" bore, with the capability to go larger depending on the application. Climax also offers a comprehensive line of rigid couplings in set-screw, one-piece, and two-piece styles, with or without a keyway, and balanced couplings, which produce less vibration resulting in decreased wear and tear on expensive components.

Popular Sawmill Sizes Available:

Climax Part No.	Bore Size	2nd Bore Size	OD	Length	Keyway Size	2nd Keyway Size	Clamp Screw	Screw Qty	Weight (lbs)
H2CC-193-193-KW	1-15/16	1-15/16	3-5/8	6	1/2	1/2	3/8-24	8	11.60
H2CC-243-243-KW	2-7/16	2-7/16	4-3/8	7-1/2	5/8	5/8	1/2-20	8	20.50
H2CC-293-293-KW	2-15/16	2-15/16	5-1/8	9	3/4	3/4	1/2-20	10	32.80
H2CC-343-343-KW	3-7/16	3-7/16	6-1/8	10-1/2	7/8	7/8	5/8-18	8	56.20
H2CC-393-393-KW	3-15/16	3-15/16	6-7/8	12	1	1	5/8-18	10	79.40
H2CC-443-443-KW	4-7/16	4-7/16	7-3/8	13-1/2	1	1	5/8-18	12	97.80

Two-piece couplings transmit higher loads than antiquated cast iron couplings in a lighter and smaller envelope. In addition, two-piece couplings provide easy installation and removal, allowing access to components on line shafting without tearing down the complete line. Climax has the ability to manufacture made-to-spec products to fit your application requirements, including the use of various grades of steel, stainless, and aluminum, with an assortment of coatings for additional corrosion protection. Our team of friendly engineers can help customize a coupling suitable for your application manufactured in-house, allowing for quick turn-around limiting downtime in your production process. Contact us today to see how Climax can provide an **Engineered Shaft Locking Solution™**.



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:



Tapered Roller Thrust Bearings

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



Thin Section Ball Bearings

Standard cross sections to one inch. Bore sizes to 40 inches. Stainless steel and other materials are available. Seals are available on all sizes and standard cross sections. Super duplex configurations.



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.



Cylindrical Roller Bearings

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



Needle Roller Bearings

Pitchline® 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.



Commercial Rod Ends

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



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.



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.



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.



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.



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.



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.



Self-Lubricating Bearings

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



Specials

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



Ball Bearings

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



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.



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.