Rapid Prototyping Capabilities

Industrial Tectonics Bearings *has a dedicated manufacturing cell specifically focused on rapid prototyping and engineering validation of thin section bearings. This unique capability is committed to processing qualification hardware and sample lots based on an accelerated lead-time typically 8 weeks or less. The Rapid Prototyping Cell is backed up by RBC's on-going commitment to being your Engineered Solutions Provider.*

Supporting Benefits

- ✓ Faster turnaround times
- ✓ Dedicated manufacturing resources
- ✓ Quick design iterations and modifications
- ✓ Refined and validated process flow
- ✓ Custom design options
- ✓ Seamless transition from prototype to production
- ✓ High-quality, production-representative components

Design Parameters

- ✓ **Standard Materials:**
  440C SS & 52100 Chrome Steel
- ✓ **Size Limits:**
  0.5" to 11" ID, 12" OD
  3/16" to 1" Cross Section
- ✓ **ABEC Precision Grade:** 1 & 3
- ✓ **NADCAP Approved:**
  NDT, Heat Treat, Chemical Processing





The successful execution of this prototype cell is supported by RBC Bearings commitment to holding strategic inventory (raw material bar stock, blanked & finished ring components). This cell is led by a cross-functional team who meets weekly to assure operational success and total customer satisfaction.

Please give us the opportunity to put our extensive technical and manufacturing resources to work for you.

310-537-3750 eMail: ITBSales@rbcbearings.com

ITB INDUSTRIAL TECTONICS BEARINGS™ *Innovation. Commitment. Quality.*

Innovation. Commitment. Quality.

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



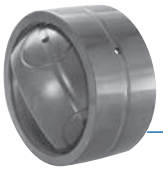
Tapered Roller Thrust Bearings

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



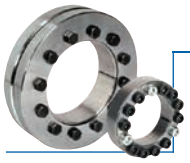
Cylindrical Roller Bearings

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.



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.



Needle Roller Bearings

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



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.



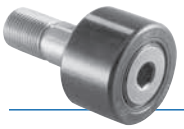
Lubron® Bearings

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, self-lubricating, and aircraft. Sold under the Heim®, Unibal®, and Spherco® names. Available in inch and metric sizes.



TP Series Bearings

RBC Bearings® 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 Bearings® 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.

DODGE® NICE® CLIMAX™ METAL PRODUCTS COMPANY HE°M® BEARINGS RBC® BEARINGS PIC® DESIGN Lubron® SPHERCO® SCHAUBLIN®

Smoother. Faster. Longer. Because That’s How We Roll.

www.rbcbearings.com ITBSales@rbcbearings.com 310-537-3750

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