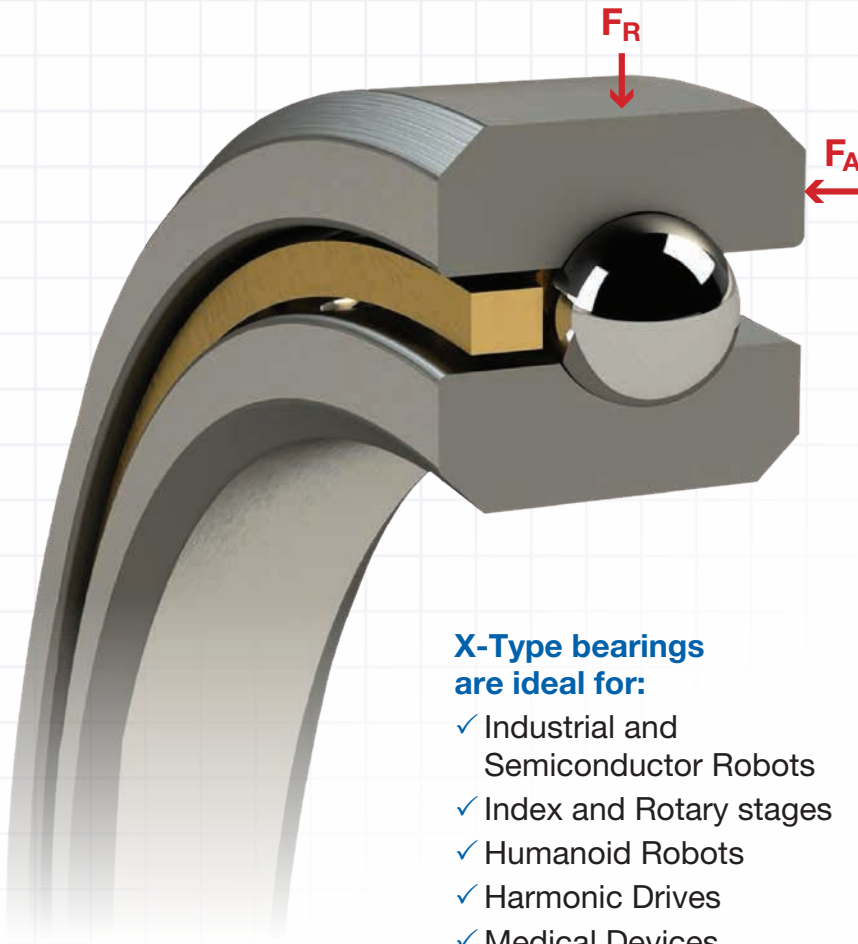


Thin Section X-Type Bearings

RBC's Thin Section X-Type Bearing combines two traditional angular contact bearings in the stack height of one bearing while handling combined radial, axial and moment loading.



X-Type bearings are ideal for:

- ✓ Industrial and Semiconductor Robots
- ✓ Index and Rotary stages
- ✓ Humanoid Robots
- ✓ Harmonic Drives
- ✓ Medical Devices
- ✓ Surgical Robotics

A drop in replacement for Cross Rollers!

In order to handle loads in both axial directions, cross roller bearings alternate the direction of the rollers, leaving only half to handle load in a given direction. Thin section X-type bearings have spherical rolling elements that allow the full ball complement to handle axial load scenarios. X-types can be designed with seals, shields, mounting holes and integral gears where required.

Available in common cross sections up to 1" and sizes up to 20". Custom sizes available.

Cross Sections	Bore Sizes
3/16" x 3/16"	1.00"–1.75"
1/4" x 1/4"	2.00"–12.00"
5/16" x 5/16"	2.00"–12.00"
3/8" x 3/8"	4.00"–12.00"
1/2" x 1/2"	4.00"–12.00"
3/4" x 3/4"	6.00"–14.00"
1" x 1"	6.00"–20.00"

		Comparable Commercial Cross Roller	RBC X-Type Bearing*
Bore	in.	8	8
O.D.	in.	11	10
Width	in.	1.25	1
Axial Capacity F_A	lb.	13,800	36,940
Radial Capacity F_R	lb.	11,500	14,770
Weight	lb.	12.13	6.5

Additional stock available in metric sizes!

Full catalog available at:
www.rbcbearings.com/Catalogs-Aerospace

→ 167% Greater Axial Capacity!

→ 28% Greater Radial Capacity!

→ 45% Less Weight!

*RBC PN: SG080XPO



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

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.



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.



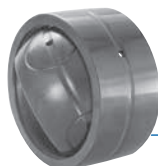
Needle Roller Bearings

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



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.



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.



Ball Bearings

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

