Tyson Bearings

Tapered Roller Bearings, RBC Tapered Thrust Bearings

Producing high-quality products since 1929.

RBC BEARINGS

ISO 9001:2000

www.rbcbearings.com
800.390.3300

RBC Bearings Incorporated (RBC Bearings, RBC) has had a long tradition of innovation, commitment, and quality since the company was founded in 1919. Today, RBC Bearings has grown into a world-class manufacturer of standard and custom-engineered bearings and related products, with a product focus on research, testing, and development of the best product for specific applications.

What We Manufacture

RBC Bearings, with facilities throughout North America and Europe, provides bearings and precision products for applications in the construction, mining, material handling, transportation and off-highway equipment, robotics and automation, farming, machine tool, and semiconductor equipment industries. Through RBC Aerospace Bearings, the company is a major manufacturer of highly-engineered bearings and precision products for military, defense, and commercial aerospace applications.

RBC's high-quality bearings include:

• Heavy Duty Needle Roller Bearings - Pitchlign® caged heavy duty needle roller bearings, inner rings, TJ TandemRoller® bearings for long life.

• Spherical Plain Bearings - Radial, angular, contact, high misalignment, extended inner ring, DuraLube™ maintenance-free spherical plain bearings, QuadLube® long life bearings, ImpactTuff® case carburized bearings, ShimPack® double-acting angular contact bearings, CrossLube® lubrication groove systems, and SpreadLock® Seal.

• Cam Followers and Yoke Rollers - Standard stud, heavy stud, yoke type, caged roller followers, RBC Roller® long life cam followers, HexLube® universal cam followers, airframe track rollers. Mastguide rollers and carriage rollers, chain sheaves (for leaf chain), toothless sprockets (for roller chain), and heavy-duty roller bearing construction.

• Rod Ends - Commercial and aerospace, precision, Mil-Spec series, self-lubricating, inch and metric. Heim®, Unibal®, and Spherco® brands.

• Self-Lubricating Bearings - Radial, thrust, rod ends, spherical plain bearings, high temperature, high loads, inch and metric. Fiberglide® brand.

• Thin Section Ball Bearings - Standard cross sections to one inch. Sizes to 40 inches. Stainless steel and other materials available. Seals available on all sizes and standard cross sections.

• Airframe Control Bearings - Ball bearing types, self-lubricating types, needle rollers, track rollers.

• Ground, Semiground, and Unground Ball Bearings - Full complement, utilizes design and burnished races for higher loads, long life, and smooth operation.

• Dowel Pins, Loose Needle Rollers, Shafts

• Tapered Roller Bearings - Case-hardened and through-hardened in a variety of sizes, used in Class 8 heavy truck and trailer wheel bearings, final drive transmissions and gear boxes.

• Tapered Roller Thrust Bearings - Case-hardened. Sealed and unsealed for truck, tractor, and construction equipment steer axles, and Class 8 trailer landing gear.

• Ball Screws - Precision ground, rolled, ball splines. Long life, low wear, high accuracy, QuickTurn® Ball Screw Repair Service.

• Custom Designed Bearings - RBC produces a wide range of custom bearings in various materials for specific applications.

Tyson Tapered Roller Bearings

Tyson tapered roller bearings utilize case hardened and through hardened materials. They are manufactured in RBC's Hartsville, South Carolina plant to the highest standards from the best grades of bearing quality steel. Tyson manufactures the most popular 4-8" O.D. size and is committed to making sure the bearings you need are in stock. Tyson Bearing's quality system is ISO 9001:2000 certified.

RBC Tapered Thrust Bearings

RBC tapered thrust bearings are manufactured in RBC's Oklahoma City, Oklahoma plant. The rollers and races are constructed from high grade bearing steel and are case hardened. Sealed, unsealed, and greased versions are available. RBC manufactures the most popular sizes for truck steer axle, trailer landing gear, and other industrial applications. Most of the sizes shown are stocked.

How We Can Serve You

RBC has implemented a total quality control system that uses statistical quality control at all facilities, and manufactures in high volume to a just-in-time program.

To serve the ongoing needs of customers, RBC has a network of over 2,400 distributors and sales engineers throughout North and South America and Europe, with authorized agents worldwide. For assistance with your bearing application, contact:

Customer Service - 800.390.3300

Warranty

RBC products are warranted for material and workmanship for a period not to exceed 90 days from shipment and for a value not to exceed purchase price. No other warranty is in effect.

Tyson Tapered Roller Bearings Company History

The Tyson Bearing Company was founded in 1929 by Frank Tyson for the purpose of manufacturing a unique design cageless tapered roller bearing. A factory was built in Massillon, Ohio and production began in 1930. In 1939, the company was placed on the Navy approved materials list and became a member of the AFBMA (now the ABMA).

During the war years, the company produced a variety of war munitions, as well as bearings. Immediately following the war, production was expanded to include traditional cage type tapered roller bearings.

In 1955, the company was acquired by SKF Industries Inc., but continued to operate under the Tyson name and trademark. In 1965, SKF built a second factory in Glasgow, Kentucky for the purpose of manufacturing Tyson tapered roller bearings for automotive wheel bearing applications. In 1976, the size of the plant was doubled.

In 1981, it was decided to market the products as SKF bearings, and the Tyson trademark was retired from active use.

In the 1980's, the market demand for the type of bearings produced by Tyson changed and the result was a consolidation of the production of the Massillon plant into the newer plant in Glasgow. The original plant in Massillon was closed at the end of 1985.

RBC purchased the tapered roller bearing operations of SKF USA Inc. in June, 1999. The name of the company again became Tyson Bearing Company, Inc., and the Tyson brand name and trademark were reactivated after a hiatus of almost 20 years.

Quality - A Tradition of Tyson Bearing Company

Many of Tyson's employees have over 30 years of experience in the manufacture of tapered roller bearings. The Hartsville, SC factory is ISO 9001:2000 certified for the design, manufacture, and assembly of tapered roller bearings, and the quality systems and equipment are state-of-the-art.

Tyson Tapered Roller Bearing Cones and Cups - Available Separately or as Sets

Tapered roller bearing cups and cones are not just ordinary bearings. A bearing is a complete unit. Cups and cones retain their separate identity and can be purchased separately. They can also be interchanged at will within a given series. In the United States, the majority of tapered roller bearings are purchased as separate cups and cones. Within a given series we can also furnish bearings packaged as a cup and cone set, a complete bearing unit. Due to the variability in other manufacturers' processes, we recommend pairing a Tyson cone and cup for optimum performance in most applications.

The Tyson Tapered Roller Bearing - Another Name for Long and Reliable Service

All ABMA-designated inch tapered roller bearings with a given part number are, theoretically, interchangeable. However, the design of Tyson bearings and the manufacturing processes provide the benefits and reliability demanded by your application at the most competitive prices offered in the industry for comparable products. The internal geometry provides additional benefits that are lacking in many other products currently being marketed as "equivalent."

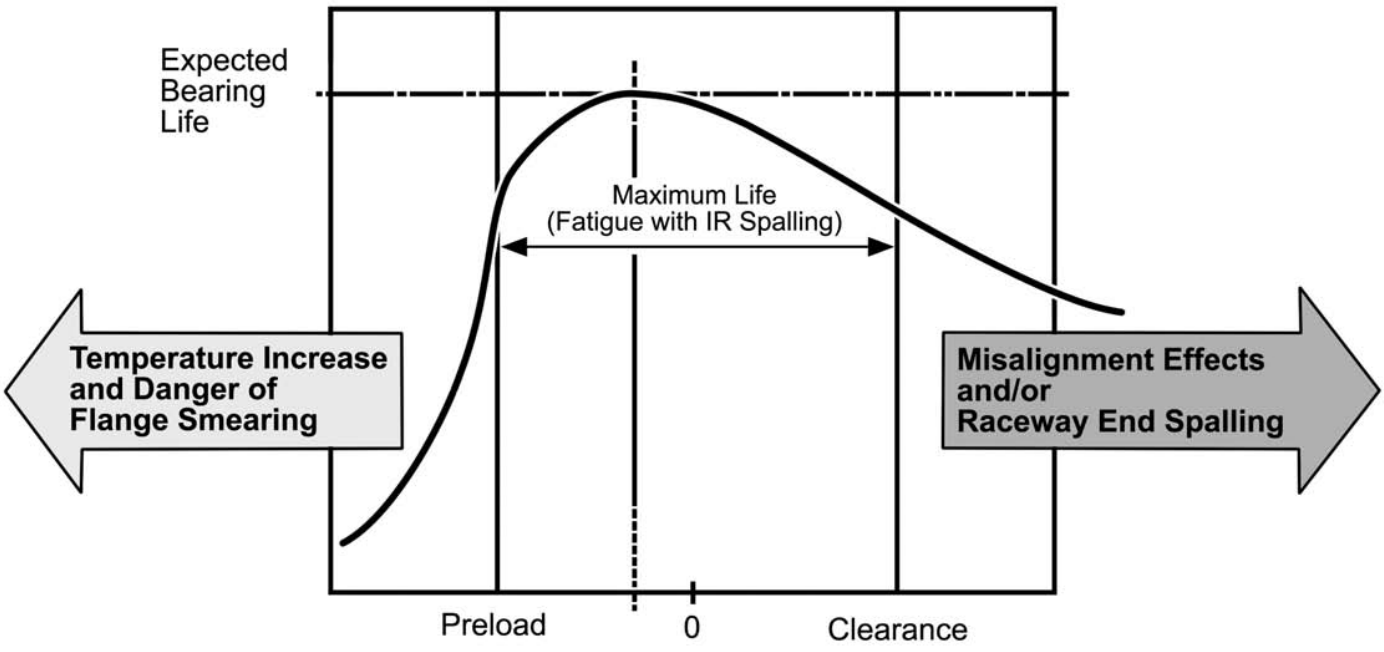
Installation and Maintenance

Tapered roller bearings should always be installed and maintained according to the original equipment manufacturer's recommendations. Failure to lubricate, install, adjust, and maintain these bearings properly can result in shortened bearing life, equipment failure, and personal injury.

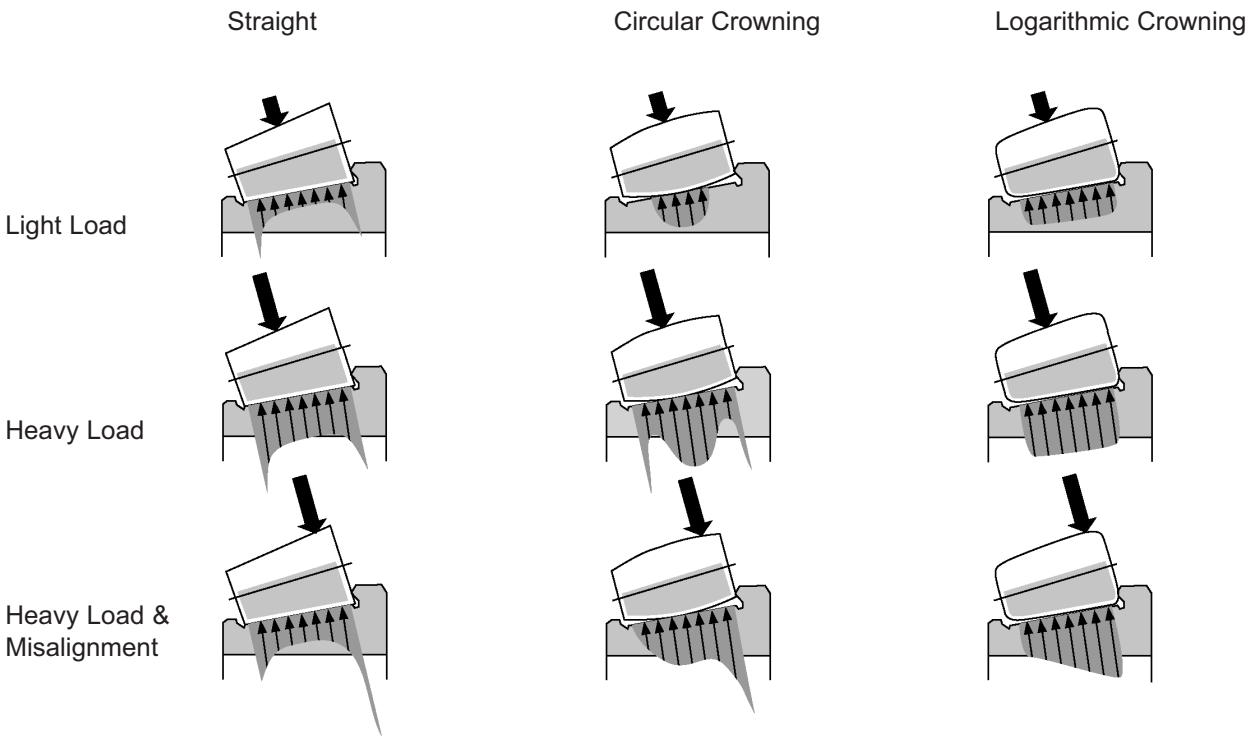
Tyson tapered roller bearings come from the factory with a light coat of preservative designed to keep the bearings from rusting. It does not provide adequate operating lubrication. The bearings must either be thoroughly greased or immersed in the oil used in oil bath lubrication before assembly. The bearings and lubricant must be kept very clean through the installation process. It is not necessary to remove the preservative coating before installation as long as the bearing is clean.

Adjustment of the bearings is critical to achieving the best possible bearing life. As shown in the graph, a slight amount of preload provides maximum life, but it falls off dramatically if too much preload is applied. Many applications recommend a small amount of end play in the final adjustment because preload is hard to measure without equipment specifically designed for that purpose, and that equipment is not normally available in the field. Again, it is most important that the OEM's instructions are followed with regard to bearing adjustment and maintenance.

Effect of Preload or Clearance on Life and Failure Mode



The Tyson Advantage
Logarithmic Crowning of Inner Ring Raceways



Stress Distribution with Different Raceway Profiles

Your best value is Tyson tapered roller bearings:

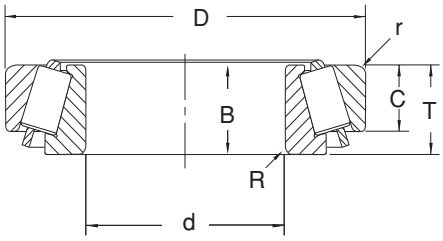
- Your choice of case hardened or through hardened inner rings, rollers, and outer rings
- Optimized roller flange contact with improved flange and roller large end surfaces
- Improved roller/raceway contact with superior roller surface finishes and logarithmic inner ring raceway profile
- Longer service life
- Increased load carrying capacity
- Lower maintenance
- Lower operating temperatures

• Tyson's devotion to quality has made Tyson bearings top performers in some of the most demanding applications.

• Tyson tapered roller bearings are interchangeable with other tapered roller bearings manufactured to ABMA specifications.

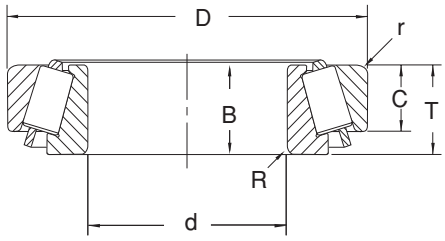
Tyson Tapered Roller Bearing Availability by Part Number

Tyson focuses on manufacturing tapered roller bearings in the dimensional range of 3.5" to 8" cup OD. Tyson can currently manufacture the following cups and cones, listed by series. Not all of these are available from stock and some have minimum purchase quantities. Please call RBC Customer Serice at 800.390.3300 regarding availability and pricing of any of these bearings. Part numbers not listed, but within the specified size range will be considered for production on a case-by-case basis. Again, please call RBC Customer Serice regarding availability of part numbers not listed. Tyson products are available in both bulk and single boxes to meet both your and your customer's packaging requirements.



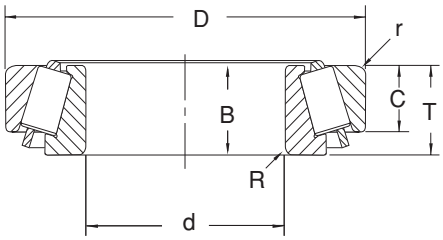
SERIES	CONE	d BORE	B WIDTH	R MAX SFT FILLET RADIUS	WEIGHT lb/kg	CUP	D O.D.	C WIDTH	r MAX HSG FILLET RADIUS	T BEARING WIDTH	WEIGHT lb/kg
385	**387**	**2.2500**	**0.8640**	**0.09**	**0.87**	**382**	**3.8750**	**0.7018**	**0.03**	**0.8268**	**0.49**
		57.150	21.946	2.3	0.39		98.425	17.826	0.8	21.000	0.22
	387 A	**2.2500**	**0.8640**	**0.14**	**0.89**	**382 A**	**3.8125**	**0.6250**	**0.03**	**0.8268**	**0.39**
		57.150	21.946	3.5	0.40		96.838	15.875	0.8	21.000	0.18
	387 AS	**2.2500**	**0.8640**	**0.20**	**0.86**	**382 S**	**3.8125**	**0.7982**	**0.09**	**1.0000**	**0.55**
		57.150	21.946	5.1	0.39		96.838	20.274	2.3	25.400	0.25
	387 S	**2.2500**	**0.8640**	**0.03**	**0.91**	**383**	**3.9370**	**0.8268**	**0.08**	**0.8268**	**0.63**
		57.150	21.946	0.8	0.41		100.000	21.000	2.0	21.000	0.29
	388 A	**2.2650**	**0.8640**	**0.14**	**0.87**	**383 A**	**3.9370**	**0.7018**	**0.08**	**0.8268**	**0.57**
		57.531	21.946	3.5	0.39		100.000	17.826	2.0	21.000	0.26
395	**390**	**2.2500**	**0.8660**	**0.09**	**1.47**	**394 A**	**4.3307**	**0.7411**	**0.05**	**0.8661**	**0.57**
		57.150	21.996	2.3	0.67		110.000	18.824	1.3	22.000	0.26
	390 A	**2.5000**	**0.8660**	**0.06**	**1.25**	**394 AS**	**4.3307**	**0.7411**	**0.13**	**0.8661**	**0.57**
		63.500	21.996	1.5	0.57		110.000	18.824	3.3	22.000	0.26
	392	**2.4375**	**0.8660**	**0.03**	**1.33**						
		61.912	21.996	0.8	0.60						
	395	**2.5000**	**0.8660**	**0.14**	**1.24**						
		63.500	21.996	3.5	0.56						
	395 A	**2.6250**	**0.8660**	**0.03**	**1.20**						
		66.675	21.996	0.8	0.54						
	395 S	**2.6250**	**0.8660**	**0.14**	**1.14**						
		66.675	21.996	3.5	0.52						
	399 A	**2.6875**	**0.8660**	**0.09**	**1.09**						
		68.262	21.996	2.3	0.49						
455	**455**	**2.0000**	**1.1542**	**0.03**	**1.77**	**453 A**	**4.2500**	**0.8750**	**0.03**	**1.0938**	**0.93**
		50.800	29.317	0.8	0.80		107.950	22.225	0.8	27.782	0.42
	460	**1.7500**	**1.1542**	**0.14**	**1.98**	**453 X**	**4.1250**	**0.9687**	**0.13**	**1.1875**	**0.82**
		44.450	29.317	3.5	0.90		104.775	24.605	3.3	30.162	0.37
	462	**2.2500**	**1.1542**	**0.09**	**1.48**						
		57.150	29.317	2.3	0.67						
	462 A	**2.2500**	**1.1542**	**0.09**	**1.50**						
		57.150	29.317	2.3	0.68						
	467	**1.8750**	**1.1542**	**0.03**	**1.88**						
		47.625	29.317	0.8	0.85						
495	**495**	**3.2500**	**1.1720**	**0.14**	**2.34**	**492 A**	**5.2500**	**0.8750**	**0.13**	**1.1875**	**0.95**
		82.550	29.769	3.5	1.06		133.350	22.225	3.3	30.162	0.43
	495 A	**3.0000**	**1.1720**	**0.14**	**2.75**	**493**	**5.3750**	**0.8750**	**0.13**	**1.1875**	**1.19**
		76.200	29.769	3.5	1.25		136.525	22.225	3.3	30.162	0.54
	495 AS	**3.0625**	**1.1720**	**0.14**	**2.72**						
		77.788	29.769	3.5	1.23						
	495 AX	**3.0000**	**1.1720**	**0.25**	**2.73**						
		76.200	29.769	6.4	1.24						
	496	**3.1875**	**1.1720**	**0.14**	**2.44**						
		80.962	29.769	3.5	1.11						
	497	**3.3750**	**1.1720**	**0.14**	**2.13**						
		85.725	29.769	3.5	0.97						
	497 A	**3.3750**	**1.1720**	**0.25**	**2.12**						
		85.725	29.769	6.4	0.96						
	498	**3.3125**	**1.1720**	**0.14**	**2.23**						
		84.138	29.769	3.5	1.01						

Inch dimensions are in bold print.



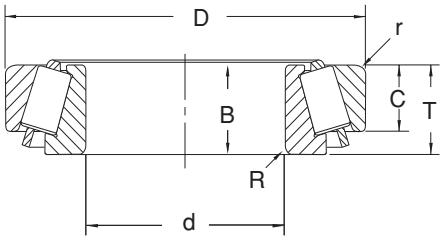
SERIES	CONE	d BORE	B WIDTH	R MAX SFT FILLET RADIUS	WEIGHT lb/kg	CUP	D O.D.	C WIDTH	r MAX HSG FILLET RADIUS	T BEARING WIDTH	WEIGHT lb/kg
555	**555 S**	**2.2500**	**1.4440**	**0.14**	**3.04**	**552 A**	**4.8750**	**1.1875**	**0.13**	**1.5000**	**1.67**
		57.150	36.678	3.5	1.38		123.825	30.162	3.3	38.100	0.76
	557 S	**2.1250**	**1.4440**	**0.14**	**3.25**	**553 X**	**4.8125**	**1.1875**	**0.13**	**1.5000**	**1.51**
		53.975	36.678	3.5	1.47		122.238	30.162	3.3	38.100	0.68
	559	**2.5000**	**1.4440**	**0.14**	**2.74**						
		63.500	36.678	3.5	1.24						
	560	**2.6250**	**1.4440**	**0.14**	**2.50**						
		66.675	36.678	3.5	1.13						
565	**566**	**2.7500**	**1.4240**	**0.14**	**2.70**	**562**	**5.1200**	**1.1250**	**0.03**	**1.4375**	**1.76**
		69.850	36.170	3.5	1.22		130.048	28.575	0.8	36.512	0.80
	567	**2.8750**	**1.4240**	**0.14**	**2.48**	**563**	**5.0000**	**1.1250**	**0.13**	**1.4375**	**1.43**
		73.025	36.170	3.5	1.12		127.000	28.575	3.3	36.512	0.65
	567 A	**2.8125**	**1.4240**	**0.14**	**2.60**						
		71.438	36.170	3.5	1.18						
	568	**2.9062**	**1.4240**	**0.03**	**2.44**						
		73.817	36.170	0.8	1.11						
575	**575**	**3.0000**	**1.4212**	**0.14**	**3.48**	**572**	**5.5115**	**1.1250**	**0.13**	**1.4375**	**1.74**
		76.200	36.098	3.5	1.58		139.992	28.575	3.3	36.512	0.79
	576	**2.8750**	**1.4212**	**0.14**	**3.72**						
		73.025	36.098	3.5	1.69						
	580	**3.2500**	**1.4212**	**0.14**	**3.00**						
		82.550	36.098	3.5	1.36						
	581	**3.1875**	**1.4212**	**0.14**	**3.12**						
		80.962	36.098	3.5	1.42						
	582	**3.2500**	**1.4212**	**0.27**	**2.96**						
		82.550	36.098	6.8	1.34						
595	**593**	**3.5000**	**1.4300**	**0.14**	**3.75**	**592**	**6.0000**	**1.3125**	**0.13**	**1.5625**	**2.46**
		88.900	36.322	3.5	1.70		152.400	33.338	3.3	39.688	1.12
	593 A	**3.5000**	**1.4300**	**0.25**	**3.71**	**592 A**	**6.0000**	**1.1875**	**0.13**	**1.5625**	**2.32**
		88.900	36.322	6.4	1.68		152.400	30.162	3.3	39.688	1.05
	594	**3.7500**	**1.4300**	**0.14**	**3.16**						
		95.250	36.322	3.5	1.43						
	594 A	**3.7500**	**1.4300**	**0.20**	**3.14**						
		95.250	36.322	5.0	1.42						
	595	**3.2500**	**1.4300**	**0.14**	**4.32**						
		82.550	36.322	3.5	1.96						
	595 A	**3.1250**	**1.4300**	**0.14**	**4.55**						
		79.375	36.322	3.5	2.06						
	596	**3.3750**	**1.4300**	**0.14**	**4.02**						
		85.725	36.322	3.5	1.82						
	598	**3.6250**	**1.4300**	**0.14**	**3.47**						
		92.075	36.322	3.5	1.57						
	598 A	**3.6250**	**1.4300**	**0.25**	**3.41**						
		92.075	36.322	6.4	1.55						
615	**621**	**2.1250**	**1.6250**	**0.14**	**2.94**	**612**	**4.7500**	**1.2500**	**0.13**	**1.6250**	**1.89**
		53.975	41.275	3.5	1.33		120.650	31.750	3.3	41.275	0.86
	623	**2.2500**	**1.6250**	**0.14**	**2.72**						
		57.150	41.275	3.5	1.23						

Inch dimensions are in bold print.



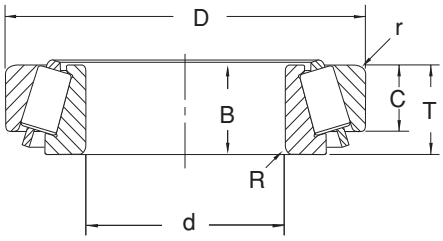
SERIES	CONE	d BORE	B WIDTH	R MAX SFT FILLET RADIUS	WEIGHT lb/kg	CUP	D O.D.	C WIDTH	r MAX HSG FILLET RADIUS	T BEARING WIDTH	WEIGHT lb/kg
635						**632**	**5.3750**	**1.2500**	**0.13**	**1.6250**	**2.28**
							136.525	31.750	3.3	41.275	1.03
						633	**5.1250**	**1.2500**	**0.13**	**1.6250**	**1.56**
							130.175	31.750	3.3	41.275	0.71
655	**655**	**2.7500**	**1.6250**	**0.14**	**5.23**	**652**	**6.0000**	**1.2500**	**0.13**	**1.6250**	**2.81**
		69.850	41.275	3.5	2.37		152.400	31.750	3.3	41.275	1.27
	659	**3.0000**	**1.6250**	**0.14**	**4.70**	**653**	**5.7500**	**1.2500**	**0.13**	**1.6250**	**1.95**
		76.200	41.275	3.5	2.13		146.050	31.750	3.3	41.275	0.88
	663	**3.2500**	**1.6250**	**0.14**	**4.07**						
		82.550	41.275	3.5	1.85						
	665	**3.3750**	**1.6250**	**0.14**	**3.83**						
		85.725	41.275	3.5	1.74						
	665 A	**3.3750**	**1.6250**	**0.25**	**3.82**						
		85.725	41.275	6.4	1.73						
675	**679**	**3.5000**	**1.6250**	**0.14**	**6.08**	**672**	**6.6250**	**1.1875**	**0.13**	**1.6250**	**2.71**
		88.900	41.275	3.5	2.76		168.275	30.162	3.3	41.275	1.23
	681	**3.6250**	**1.6250**	**0.14**	**5.80**						
		92.075	41.275	3.5	2.63						
	681 A	**3.6250**	**1.6250**	**0.25**	**5.68**						
		92.075	41.275	6.4	2.58						
	683	**3.7500**	**1.6250**	**0.14**	**5.41**						
		95.250	41.275	3.5	2.45						
	683 XA	**3.7500**	**1.6250**	**0.20**	**5.35**						
		95.250	41.275	5.0	2.43						
	685	**3.8750**	**1.6250**	**0.14**	**5.03**						
		98.425	41.275	3.5	2.28						
	687	**4.0000**	**1.6250**	**0.14**	**4.68**						
		101.600	41.275	3.5	2.12						
745	**740**	**3.1875**	**1.8375**	**0.20**	**5.12**	**742**	**5.9090**	**1.4375**	**0.13**	**1.7500**	**2.32**
		80.962	46.672	5.0	2.32		150.089	36.512	3.3	44.450	1.05
	744	**2.8750**	**1.8375**	**0.14**	**5.89**						
		73.025	46.672	3.5	2.67						
	745 A	**2.7500**	**1.8375**	**0.14**	**6.21**						
		69.850	46.672	3.5	2.82						
	748 S	**3.0000**	**1.8375**	**0.14**	**5.59**						
		76.200	46.672	3.5	2.54						
	749	**3.3475**	**1.8375**	**0.14**	**4.70**						
		85.026	46.672	3.5	2.13						
	749 A	**3.2500**	**1.8375**	**0.14**	**4.95**						
		82.550	46.672	3.5	2.25						
	749 S	**3.3475**	**1.8375**	**0.20**	**4.70**						
		85.026	46.672	5.0	2.13						
	750	**3.1250**	**1.8375**	**0.14**	**5.35**						
		79.375	46.672	3.5	2.43						
	750 A	**3.2500**	**1.8375**	**0.27**	**4.97**						
		82.550	46.672	6.9	2.25						

Inch dimensions are in bold print.



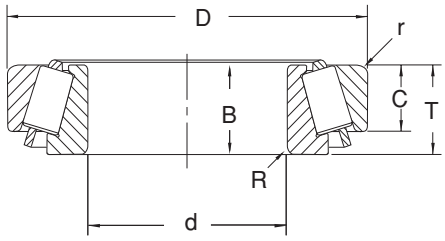
SERIES	CONE	d BORE	B WIDTH	R MAX SFT FILLET RADIUS	WEIGHT lb/kg	CUP	D O.D.	C WIDTH	r MAX HSG FILLET RADIUS	T BEARING WIDTH	WEIGHT lb/kg
755	**755**	**3.0000**	**1.9000**	**0.14**	**6.83**	**752**	**6.3750**	**1.5000**	**0.13**	**1.8750**	**3.50**
		76.200	48.260	3.5	3.10		161.925	38.100	3.3	47.625	1.59
	756 A	**3.1250**	**1.9000**	**0.31**	**6.55**	**752 A**	**6.2990**	**1.5000**	**0.03**	**1.8750**	**3.21**
		79.375	48.260	8.0	2.97		159.995	38.100	0.8	47.625	1.46
	757	**3.2500**	**1.9000**	**0.14**	**6.20**						
		82.550	48.260	3.5	2.81						
	758	**3.3750**	**1.9000**	**0.14**	**5.62**						
		85.725	48.260	3.5	2.55						
	759	**3.5000**	**1.9000**	**0.14**	**5.25**						
		88.900	48.260	3.5	2.38						
	760	**3.5625**	**1.9000**	**0.14**	**5.06**						
		90.488	48.260	3.5	2.30						
	766	**3.5000**	**1.9000**	**0.28**	**5.44**						
		88.900	48.260	7.0	2.47						
775	**780**	**4.0000**	**1.8900**	**0.14**	**6.89**	**772**	**7.1250**	**1.5000**	**0.13**	**1.8750**	**4.27**
		101.600	48.006	3.5	3.13		180.975	38.100	3.3	47.625	1.94
	782	**4.1250**	**1.8900**	**0.14**	**6.44**						
		104.775	48.006	3.5	2.92						
	786	**4.1250**	**1.8900**	**0.25**	**6.38**						
		104.775	48.006	6.4	2.89						
	787	**4.1250**	**1.8900**	**0.28**	**6.38**						
		104.775	48.006	7.1	2.89						
3700	**3767**	**2.0625**	**1.1930**	**0.09**	**1.15**	**3720**	**3.6718**	**0.9375**	**0.13**	**1.1875**	**0.63**
		52.388	30.302	2.3	0.52		93.264	23.812	3.3	30.162	0.29
	3778	**1.8750**	**1.1930**	**0.25**	**1.32**	**3732**	**3.8750**	**0.9375**	**0.13**	**1.1875**	**0.95**
		47.625	30.302	6.4	0.60		98.425	23.812	3.3	30.162	0.43
	3779	**1.8750**	**1.1930**	**0.14**	**1.33**						
		47.625	30.302	3.5	0.60						
	3780	**2.0000**	**1.1930**	**0.14**	**1.22**						
		50.800	30.302	3.5	0.55						
	3782	**1.7500**	**1.1930**	**0.14**	**1.46**						
		44.450	30.302	3.5	0.66						
	3783	**1.7500**	**1.1930**	**0.25**	**1.48**						
		44.450	30.302	6.4	0.67						
	3795	**2.0000**	**1.1930**	**0.14**	**1.21**						
		50.800	30.302	3.5	0.55						
3900	**3979**	**2.2500**	**1.1830**	**0.14**	**2.01**	**3920**	**4.4375**	**0.9375**	**0.13**	**1.1875**	**1.00**
		57.150	30.048	3.5	0.91		112.712	23.812	3.3	30.162	0.45
	3982	**2.5000**	**1.1830**	**0.14**	**1.69**	**3925**	**4.4375**	**0.9375**	**0.03**	**1.1875**	**1.01**
		63.500	30.048	3.5	0.77		112.712	23.812	0.8	30.162	0.46
	3984	**2.6250**	**1.1830**	**0.14**	**1.52**	**3926**	**4.4375**	**1.0625**	**0.13**	**1.3125**	**1.18**
		66.675	30.048	3.5	0.69		112.712	26.988	3.3	33.338	0.54
	3994	**2.6250**	**1.1830**	**0.22**	**1.51**						
		66.675	30.048	5.5	0.68						
5500						**5535**	**4.8125**	**1.4375**	**0.13**	**1.7188**	**1.78**
							122.238	36.512	3.3	43.658	0.81
5700	**5760**	**3.0000**	**1.8150**	**0.14**	**4.05**	**5735**	**5.3438**	**1.3750**	**0.13**	**1.7500**	**1.95**
		76.200	46.100	3.5	1.84		135.733	34.925	3.3	44.450	0.88

Inch dimensions are in bold print.



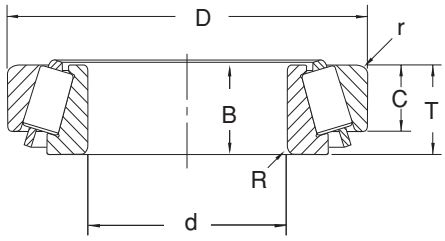
SERIES	CONE	d BORE	B WIDTH	R MAX SFT FILLET RADIUS	WEIGHT lb/kg	CUP	D O.D.	C WIDTH	r MAX HSG FILLET RADIUS	T BEARING WIDTH	WEIGHT lb/kg
6300	**6379**	**2.5625**	**2.2050**	**0.14**	**4.99**	**6320**	**5.3447**	**1.7500**	**0.13**	**2.1250**	**3.05**
		65.088	56.007	3.5	2.26		135.755	44.450	3.3	53.975	1.38
	6386	**2.6250**	**2.2050**	**0.17**	**4.80**	**6321**	**5.1875**	**1.7500**	**0.13**	**2.1250**	**2.41**
		66.675	56.007	4.3	2.18		131.762	44.450	3.3	53.975	1.09
	6389	**2.6250**	**2.2050**	**0.25**	**4.80**						
		66.675	56.007	6.4	2.18						
6400	**6461**	**3.0000**	**2.1350**	**0.14**	**5.83**	**6420**	**5.8750**	**1.7500**	**0.13**	**2.1250**	**3.57**
		76.200	54.229	3.5	2.64		149.225	44.450	3.3	53.975	1.62
	6461 A	**3.0000**	**2.1350**	**0.38**	**5.70**						
		76.200	54.229	9.7	2.59						
6500	**6580**	**3.5000**	**2.1693**	**0.14**	**6.75**	**6535**	**6.3750**	**1.6875**	**0.13**	**2.1250**	**3.66**
		88.900	55.100	3.5	3.06		161.925	42.862	3.3	53.975	1.66
	6581 X	**3.5433**	**2.1693**	**0.12**	**6.54**	**6535 W**	**6.3750**	**1.6875**	**0.13**	**2.1250**	**3.66**
		90.000	55.100	3.0	2.97		161.925	42.862	3.3	53.975	1.66
29500						**29520**	**4.2500**	**0.7500**	**0.13**	**1.0000**	**0.61**
							107.950	19.050	3.3	25.400	0.28
29600	**29675**	**2.7500**	**1.0000**	**0.06**	**1.46**	**29620**	**4.4375**	**0.7500**	**0.13**	**1.0000**	**0.60**
		69.850	25.400	1.5	0.66		112.712	19.050	3.3	25.400	0.27
	29685	**2.8750**	**1.0000**	**0.14**	**1.30**	**29630**	**4.7500**	**0.7500**	**0.13**	**1.0000**	**1.06**
		73.025	25.400	3.5	0.59		120.650	19.050	3.3	25.400	0.48
33000	**33275**	**2.7500**	**1.1875**	**0.14**	**1.79**	**33462**	**4.6250**	**0.9375**	**0.13**	**1.1875**	**0.94**
		69.850	30.162	3.5	0.81		117.475	23.812	3.3	30.162	0.43
	33281	**2.8125**	**1.1875**	**0.14**	**1.70**	**33472**	**4.7244**	**0.9230**	**0.03**	**1.1730**	**1.15**
		71.438	30.162	3.5	0.77		120.000	23.444	0.8	29.794	0.52
	33287	**2.8750**	**1.1875**	**0.14**	**1.61**						
		73.025	30.162	3.5	0.73						
36600	**36690**	**5.7500**	**1.1250**	**0.06**	**3.39**						
		146.050	28.575	1.5	1.54						
	36691	**5.7500**	**1.1250**	**0.19**	**3.35**						
		146.050	28.575	4.8	1.52						
39500	**39580**	**2.2500**	**1.1875**	**0.14**	**2.26**	**39520**	**4.4375**	**0.9375**	**0.13**	**1.1875**	**0.78**
		57.150	30.162	3.5	1.03		112.712	23.812	3.3	30.162	0.35
	39581	**2.2500**	**1.1875**	**0.31**	**2.18**						
		57.150	30.162	8.0	0.99						
	39585	**2.5000**	**1.1875**	**0.14**	**1.95**						
		63.500	30.162	3.5	0.88						
	39590	**2.6250**	**1.1875**	**0.14**	**1.78**						
		66.675	30.162	3.5	0.81						
42000	**42346**	**3.4630**	**1.1406**	**0.12**	**3.12**	**42584**	**5.8437**	**0.8438**	**0.12**	**1.1250**	**1.20**
		87.960	28.971	3.0	1.42		148.430	21.433	3.0	28.575	0.54
	42362	**3.6250**	**1.1406**	**0.14**	**2.82**	**42586**	**5.8437**	**1.2500**	**0.13**	**1.3750**	**1.83**
		92.075	28.971	3.5	1.28		148.430	31.750	3.3	34.925	0.83
	42381	**3.8125**	**1.1406**	**0.14**	**2.44**						
		96.838	28.971	3.5	1.11						
45200						**45220**	**4.1250**	**0.9375**	**0.13**	**1.1875**	**0.76**
							104.775	23.812	3.3	30.162	0.34
						45221	**4.1250**	**0.9375**	**0.03**	**1.1875**	**0.77**
							104.775	23.812	0.8	30.162	0.35

Inch dimensions are in bold print.



SERIES	CONE	d BORE	B WIDTH	R MAX SFT FILLET RADIUS	WEIGHT lb/kg	CUP	D O.D.	C WIDTH	r MAX HSG FILLET RADIUS	T BEARING WIDTH	WEIGHT lb/kg
47600	**47678**	**3.0000**	**1.3125**	**0.25**	**2.89**	**47620**	**5.2500**	**1.0313**	**0.13**	**1.3125**	**1.26**
		76.200	33.338	6.4	1.31		133.350	26.195	3.3	33.338	0.57
	47679	**3.0000**	**1.3125**	**0.14**	**2.94**						
		76.200	33.338	3.5	1.33						
	47686	**3.2500**	**1.3125**	**0.14**	**2.48**						
		82.550	33.338	3.5	1.12						
	47687	**3.2500**	**1.3125**	**0.27**	**2.45**						
		82.550	33.338	6.8	1.11						
47800	**47890**	**3.6250**	**1.3750**	**0.14**	**3.08**	**47820**	**5.7500**	**1.0313**	**0.13**	**1.3125**	**1.45**
		92.075	34.925	3.5	1.40		146.050	26.195	3.3	33.338	0.66
48200						**48220**	**7.1875**	**1.3125**	**0.13**	**1.5625**	**2.50**
							182.562	33.338	3.3	39.688	1.13
55000 C	**55175 C**	**1.7500**	**1.0594**	**0.14**	**2.11**	**55437**	**4.3750**	**0.8125**	**0.13**	**1.1875**	**1.11**
		44.450	26.909	3.5	0.96		111.125	20.638	3.3	30.162	0.50
	55200 C	**2.0000**	**1.0594**	**0.14**	**1.89**						
		50.800	26.909	3.5	0.86						
56000	**56418**	**4.1875**	**1.4375**	**0.14**	**4.06**	**56650**	**6.5000**	**1.0625**	**0.13**	**1.4375**	**1.88**
		106.362	36.512	3.5	1.84		165.100	26.988	3.3	36.512	0.85
	56425	**4.2500**	**1.4375**	**0.14**	**4.02**						
		107.950	36.512	3.5	1.82						
64000	**64450**	**4.5000**	**1.6250**	**0.14**	**5.31**	**64700**	**7.0000**	**1.1875**	**0.13**	**1.6250**	**2.43**
		114.300	41.275	3.5	2.41		177.800	30.162	3.3	41.275	1.10
65000						**65500**	**5.0000**	**1.3750**	**0.13**	**1.7500**	**2.25**
							127.000	34.925	3.3	44.450	1.02
72000 C	**72187 C**	**1.8750**	**1.2910**	**0.14**	**3.20**	**72487**	**4.8750**	**1.0000**	**0.13**	**1.4375**	**1.72**
		47.625	32.791	3.5	1.45		123.825	25.400	3.3	36.512	0.78
	72188 C	**1.8750**	**1.2910**	**0.03**	**3.26**						
		47.625	32.791	0.8	1.48						
	72200 C	**2.0000**	**1.2910**	**0.14**	**3.12**						
		50.800	32.791	3.5	1.42						
	72201 C	**2.0000**	**1.2910**	**0.03**	**3.12**						
		50.800	32.791	0.8	1.42						
	72212 C	**2.1250**	**1.2910**	**0.14**	**2.97**						
		53.975	32.791	3.5	1.35						
	72218 C	**2.1875**	**1.2910**	**0.14**	**2.89**						
		55.562	32.791	3.5	1.31						
	72225 C	**2.2500**	**1.2910**	**0.14**	**2.81**						
		57.150	32.791	3.5	1.28						
HM 212000	**HM 212044**	**2.3750**	**1.5100**	**0.31**	**3.14**	**HM 212010**	**4.8125**	**1.1700**	**0.06**	**1.5000**	**1.32**
		60.325	38.354	8.0	1.42		122.238	29.718	1.5	38.100	0.60
	HM 212046	**2.5000**	**1.5100**	**0.14**	**2.89**	**HM 212011**	**4.8125**	**1.1700**	**0.13**	**1.5000**	**1.31**
		63.500	38.354	3.5	1.31		122.238	29.718	3.3	38.100	0.59
	HM 212047	**2.5000**	**1.5100**	**0.28**	**2.93**						
		63.500	38.354	7.0	1.33						
	HM 212049	**2.6250**	**1.5100**	**0.14**	**2.68**						
		66.675	38.354	3.5	1.22						
	HM 212049 X	**2.6250**	**1.5100**	**0.28**	**2.75**						
		66.675	38.354	7.0	1.25						
HM 218200	**HM 218248**	**3.5423**	**1.5748**	**0.28**	**3.80**	**HM 218210**	**5.7864**	**1.2795**	**0.14**	**1.5748**	**1.73**
		89.974	40.000	7.0	1.72		146.975	32.500	3.5	40.000	0.78

Inch dimensions are in bold print.



SERIES	CONE	d BORE	B WIDTH	R MAX SFT FILLET RADIUS	WEIGHT lb/kg	CUP	D O.D.	C WIDTH	r MAX HSG FILLET RADIUS	T BEARING WIDTH	WEIGHT lb/kg
H 414200						**H 414210**	**5.3750**	**1.2500**	**0.13**	**1.6250**	**1.75**
							136.525	31.750	3.3	41.275	0.79
HM 516400	**HM 516448**	**3.2500**	**1.5625**	**0.27**	**3.08**	**HM 516410**	**5.2500**	**1.2813**	**0.13**	**1.5625**	**1.71**
		82.550	39.688	6.8	1.39		133.350	32.545	3.3	39.688	0.78
	HM 516449	**3.2500**	**1.5625**	**0.14**	**3.09**						
		82.550	39.688	3.5	1.40						
	HM 516449 A	**3.2500**	**1.5625**	**0.25**	**2.98**						
		82.550	39.688	6.2	1.35						
HM 518400	**HM 518445**	**3.5000**	**1.5625**	**0.25**	**4.41**	**HM 518410**	**6.0000**	**1.1875**	**0.13**	**1.5625**	**1.70**
		88.900	39.688	6.4	2.00		152.400	30.162	3.3	39.688	0.77
H 715300	**H 715334**	**2.4375**	**1.8125**	**0.14**	**5.54**	**H 715310**	**5.5000**	**1.4375**	**0.13**	**1.8125**	**2.54**
		61.912	46.038	3.5	2.51		139.700	36.512	3.3	46.038	1.15
	H 715343	**2.6875**	**1.8125**	**0.14**	**5.10**	**H 715311**	**5.3750**	**1.4375**	**0.13**	**1.8125**	**2.12**
		68.262	46.038	3.5	2.31		136.525	36.512	3.3	46.038	0.96
	H 715345	**2.8125**	**1.8125**	**0.14**	**4.64**	**H 715311 W**	**5.3750**	**1.5625**	**0.13**	**1.9375**	**2.34**
		71.438	46.038	3.5	2.10		136.525	39.688	3.3	49.213	1.06
						H 715313 W	**5.3750**	**1.5625**	**0.13**	**1.9375**	**2.34**
							136.525	39.688	3.3	49.213	1.06
M 716600	**JM 716648**	**3.3465**	**1.1417**	**0.24**	**2.01**	**JM 716610**	**5.1181**	**0.9449**	**0.10**	**1.1811**	**1.00**
		85.000	29.000	6.0	0.91		130.000	24.000	2.5	30.000	0.45
	JM 716649	**3.3465**	**1.1417**	**0.12**	**2.03**						
		85.000	29.000	3.0	0.92						
HM 813800	**HM 813841**	**2.3750**	**1.4375**	**0.14**	**3.37**	**HM 813811**	**5.0000**	**1.0625**	**0.06**	**1.4375**	**1.38**
		60.325	36.512	3.5	1.53		127.000	26.988	1.5	36.512	0.63
	HM 813849	**2.8125**	**1.4375**	**0.14**	**2.66**						
		71.438	36.512	3.5	1.21						
M 822000	**JM 822049**	**4.3307**	**1.3780**	**0.12**	**3.56**	**JM 822010**	**6.4961**	**1.0433**	**0.10**	**1.3780**	**1.80**
		110.000	35.000	3.0	1.61		165.000	26.500	2.5	35.000	0.82
HM 903200	**HM 903247**	**1.7500**	**1.1142**	**0.05**	**1.32**	**HM 903210**	**3.7500**	**0.8750**	**0.03**	**1.2188**	**0.85**
		44.450	28.300	1.3	0.60		95.250	22.225	0.8	30.958	0.39
	HM 903249	**1.7500**	**1.1250**	**0.14**	**1.31**						
		44.450	28.575	3.5	0.59						
	HM 903249 A	**1.7500**	**1.1142**	**0.14**	**1.41**						
		44.450	28.300	3.5	0.64						

Inch dimensions are in bold print.

ISO Class Bearings:

30221J2	**R30221J2**	**105.000**	**36.000**	**3.0**	**2.85**	**L30221**	**190.000**	**30.000**	**2.5**	**39.000**	**1.41**
		4.1339	1.4173	0.12	6.28		7.4803	1.1811	0.10	1.5354	3.11
32022X	**R32022X**	**110.000**	**38.000**	**2.5**	**2.16**	**L32022**	**170.000**	**29.000**	**2.0**	**38.000**	**0.87**
		4.3307	1.4961	0.10	4.76		6.6929	1.1417	0.08	1.4961	1.92

For ISO class bearings, dimensions in bold print are in mm and weight in kg.

RBC Tapered Thrust Bearings

In 2001, RBC purchased the assets of an Oklahoma-based company that manufactures tapered thrust bearings. The primary application for these bearings is in the heavy truck and trailer industry. Applications include steer axles for trucks, tractors, and construction equipment, and landing gear for class 8 trailers. Due to the tapered roller design, these bearings offer significant thrust load capacity and can be used in a variety of other applications where that is a requirement. Both the races and rollers of the thrust bearings are case hardened which offers advantages in applications where shock loads and/or misalignment are present.

RBC utilizes a full complement of rollers where possible, which provides higher load capacity than designs using roller retainers. Also, there is better roller alignment with the full complement design. This improves the life of the bearing.

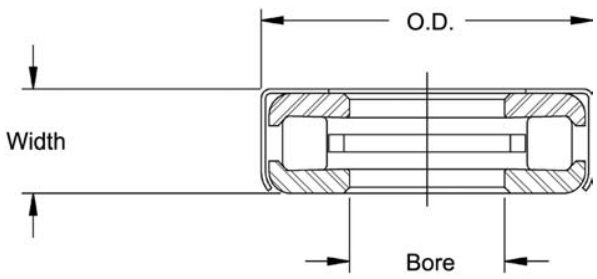
As an option, RBC offers many sizes of thrust bearings with an integral seal. These bearings are designated with a -S suffix. This provides ease of installation and simplifies the design of the end product. Bearings can also be supplied greased as an option. Greased bearings are designated with a -GX suffix. Bearings designated with a -C suffix denote a cylindrical roller design which requires an application review by an RBC application engineer before installing in your application.

RBC stocks most of the sizes shown in the following section of this catalog. In addition, RBC will consider adding new sizes to the existing product assortment on a case-by-case basis. RBC products are available in both bulk and single boxes to meet customers' packaging requirements.

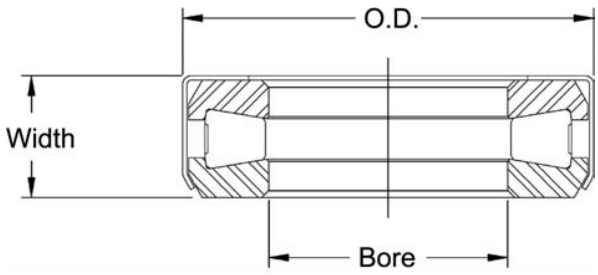
RBC Tapered Thrust Bearings

RBC tapered thrust bearings are manufactured in the RBC's Oklahoma City, Oklahoma plant. The rollers and races are constructed from high grade bearing steel and are case hardened. Sealed, unsealed, and greased versions are available. RBC manufactures the most popular sizes for truck steer axle, trailer landing gear, and other industrial applications. Most of the sizes shown are stocked.

RBC tapered thrust bearings have been developed in 6 configurations. Please refer to the table on the opposite page to determine which style corresponds to your part number.



Style 1



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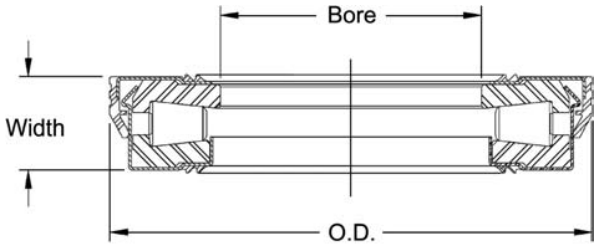

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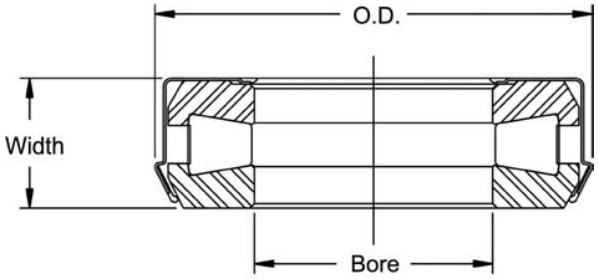
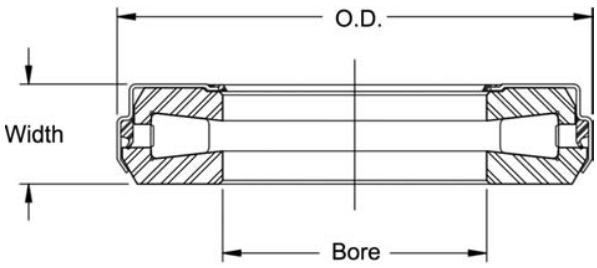
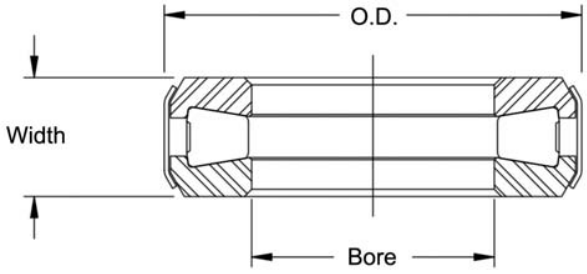


Style 4



Style 5



Style 6

RBC Tapered Thrust Bearings

Part Number	Bore (inch)	O.D. (inch)	Width (inch)	Shaft Fillet Radius	Weight (lb)	Style	Dynamic Load (lb)	Static Load (lb)	Pivot Load (lb)
T88C	0.8850	1.8906	0.5940	0.03	0.24	1	7500	13700	3890
T101C	1.0100	2.0000	0.6250	0.03	0.27	1	8300	20500	4200
T110C	1.1350	2.0940	0.6250	0.03	0.31	1	8700	17300	4500
T1150	1.2600	2.1875	0.6250	0.03	0.31	2	12000	34100	6200
T1190	1.2600	2.1875	0.6250	0.03	0.31	2	12000	34100	6200
T126	1.2600	2.1875	0.6250	0.03	0.31	2	12000	34100	6200
T1260S	1.2600	2.2900	0.6770	0.03	0.36	4	12000	34100	6200
T127	1.2600	2.6250	0.7658	0.03	0.68	2	18300	55500	9450
T1370C	1.3787	2.1875	0.6250	0.03	0.28	1	7000	25500	3600
T1390	1.3850	2.3980	0.6560	0.03	0.35	4	14500	42000	7500
T139S	1.3850	2.3980	0.6560	0.03	0.35	4	14500	42000	7500
T149	1.5080	2.5938	0.7650	0.03	0.53	2	20300	58000	10500
T1490S	1.5080	2.7050	0.8150	0.03	0.63	4	20300	58000	10500
T151	1.5100	2.8590	0.8438	0.03	0.82	2	20500	62500	10600
T163	1.6350	2.8590	0.8438	0.03	0.77	2	20500	62500	10600
T163S	1.6350	2.9800	0.8438	0.03	0.80	4	20500	62500	10600
T1760C	1.7568	3.0000	0.4300	0.03	0.40	1	13800	56400	71000
T1822S	1.8220	3.3000	0.6840	0.03	0.76	5	24500	89500	12700
T1910	1.6350	3.3650	0.6450	0.03	0.69	3	24500	89500	12700
T1920	1.8220	3.3650	0.6450	0.03	0.67	3	24500	89500	12700
T1921	1.8220	3.1500	0.6290	0.03	0.75	2	24500	89500	12700
T182	1.8220	3.2660	0.9375	0.03	1.15	2	28400	91400	14700
T18294S	1.8220	3.4550	0.9375	0.03	1.15	4	28400	91400	14700
T182S	1.8220	3.4550	0.9900	0.03	1.20	4	28400	91400	14700
T188S	1.8850	3.4550	0.9375	0.03	1.20	4	28400	91400	14700
T189S	1.8850	3.4550	0.9063	0.03	1.15	4	28400	91400	14700
T193	1.9470	3.6720	1.0310	0.03	1.73	6	37500	115000	19400
T194	1.9470	3.6720	1.0620	0.03	1.88	2	37500	115000	19400
T201	2.0100	3.6720	1.0310	0.13	1.70	6	37500	115000	19400
T202	2.0100	3.6720	1.0620	0.13	1.76	2	37500	115000	19400
T208	2.0720	3.6720	1.0620	0.03	1.74	2	37500	115000	19400
T209	2.0720	3.6720	1.0310	0.03	1.65	6	37500	115000	19400
T194S	1.9470	3.8230	1.1210	0.03	1.95	4	37500	115000	19400
T195S	1.8850	3.8230	1.1210	0.03	2.01	4	37500	115000	19400
T208S	2.0720	3.8230	1-1210	0.03	1.80	4	37500	115000	19400

Innovation. Commitment. Quality.

RBC Bearings 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:

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.

Thin Section Ball Bearings

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

Tapered Roller Bearings

Tyson® case-hardened and through-hardened tapered roller bearings. Available in many sizes. Used in Class 8 heavy truck and trailer wheel bearings, gear boxes, and final drive transmissions.

Tapered Roller Thrust Bearings

Case-hardened. Sealed and unsealed for truck, tractor, and construction equipment steer axles, and Class 8 trailer landing gear.

Ball Screws

Precision ground, rolled, ball splines. Long life, low wear, high accuracy. QuickTurn® Ball Screw Repair Service.

Integrated Assemblies

For robots and other process tool applications. Engineering design assistance. Production volume capacity.

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.

Needle Roller Bearings

Pitchlign® caged heavy duty needle roller bearings, inner rings, TJ TandemRoller® bearings for long life.

Self-Lubricating Bearings

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

Airframe Control Bearings

Ball bearing types, self-lubricating types, needle roller track rollers.

Dowel Pins, Loose Needle Rollers, Shafts

Precision Products dowel pins, loose needle rollers, and shafts.

Commercial Rod Ends

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

Ball Bearings

Precision ground, semi-ground, unground. High loads, long life, smooth operation. Nice® ball bearings are offered in caged and full complement configurations.

Specials

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

www.rbcbearings.com
800.390.3300

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