



Tapered Roller Bearings, RBC Tapered Thrust Bearings

Producing high-quality products since 1929.



ISO 9001:2000

www.rbcbearings.com
800.390.3300

RBC Bearings 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.
- **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.

Disclaimer and Intellectual Property Statement

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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 the 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."

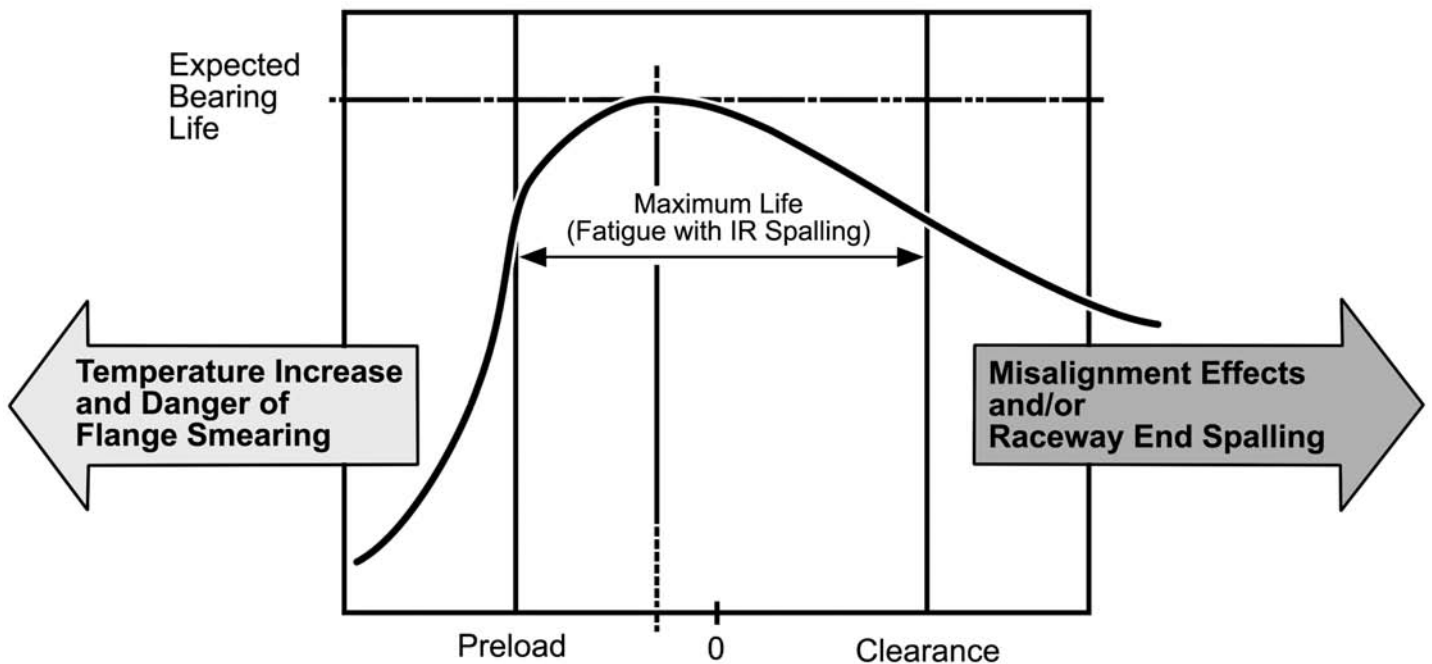
Installation and Maintenance

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.

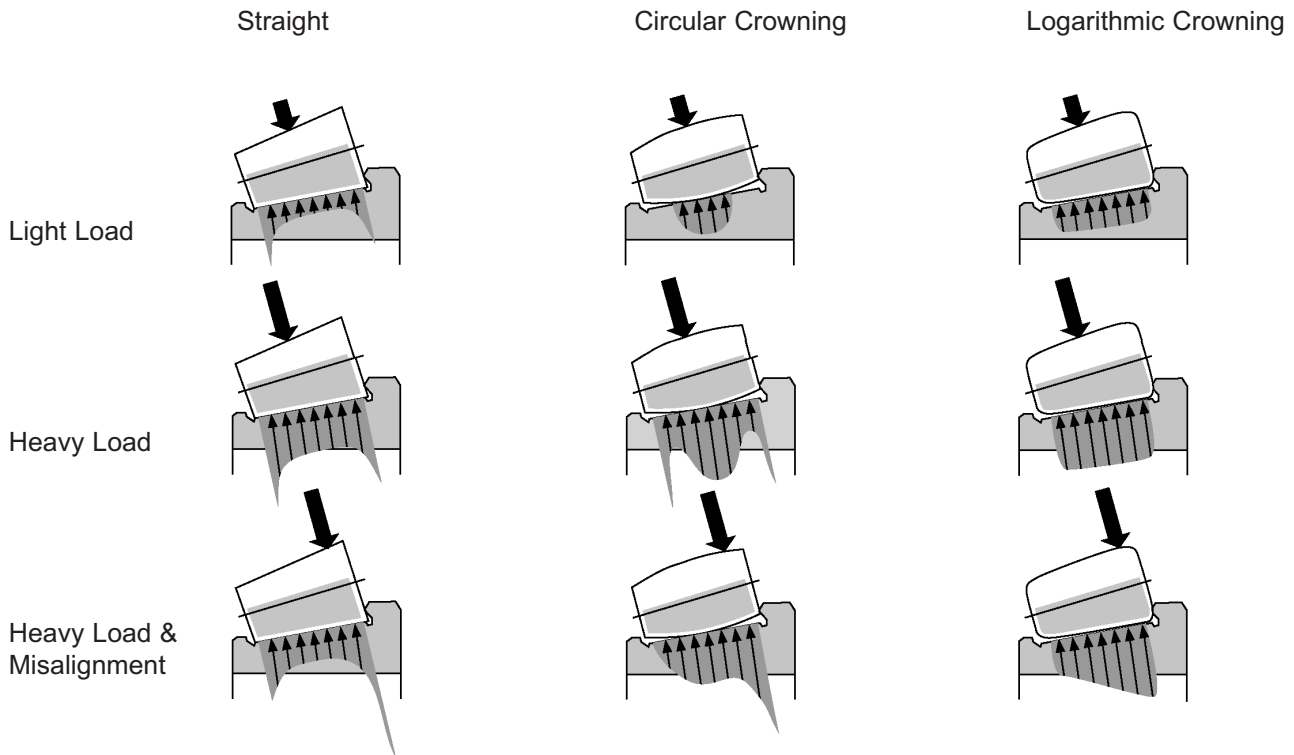
Tyson® tapered roller bearings come from the factory with a light coat of preservative designed to keep the bearings from rusting. It does not provide adequate operating lubrication. The bearings must either be thoroughly greased or immersed in the oil used in oil bath lubrication before assembly. The 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



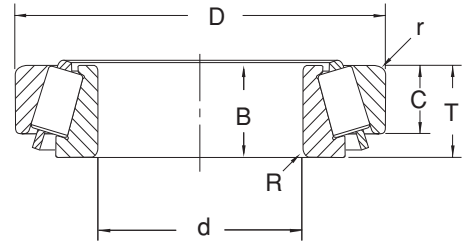
Stress Distribution with Different Raceway Profiles

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

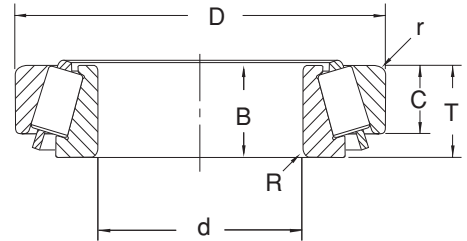
Tyson® focuses on manufacturing tapered roller bearings in the dimensional range of 3.5" to 8" cup OD. Tyson® can currently manufacture the following cups and cones, listed by series. Not all of these are available from stock and some have minimum purchase quantities. Please call RBC Customer Service 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 Service 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 57.150	0.8640 21.946	0.09 2.3	0.87 0.39	382	3.8750 98.425	0.7018 17.826	0.03 0.8	0.8268 21.000	0.49 0.22
	387 A	2.2500 57.150	0.8640 21.946	0.14 3.5	0.89 0.40	382 A	3.8125 96.838	0.6250 15.875	0.03 0.8	0.8268 21.000	0.39 0.18
	387 AS	2.2500 57.150	0.8640 21.946	0.20 5.1	0.86 0.39	382 S	3.8125 96.838	0.7982 20.274	0.09 2.3	1.0000 25.400	0.55 0.25
	387 S	2.2500 57.150	0.8640 21.946	0.03 0.8	0.91 0.41	383	3.9370 100.000	0.8268 21.000	0.08 2.0	0.8268 21.000	0.63 0.29
	388 A	2.2650 57.531	0.8640 21.946	0.14 3.5	0.87 0.39	383 A	3.9370 100.000	0.7018 17.826	0.08 2.0	0.8268 21.000	0.57 0.26
	395	390	2.2500 57.150	0.8660 21.996	0.09 2.3	1.47 0.67	394 A	4.3307 110.000	0.7411 18.824	0.05 1.3	0.8661 22.000
390 A		2.5000 63.500	0.8660 21.996	0.06 1.5	1.25 0.57	394 AS	4.3307 110.000	0.7411 18.824	0.13 3.3	0.8661 22.000	0.57 0.26
392		2.4375 61.912	0.8660 21.996	0.03 0.8	1.33 0.60						
395		2.5000 63.500	0.8660 21.996	0.14 3.5	1.24 0.56						
395 A		2.6250 66.675	0.8660 21.996	0.03 0.8	1.20 0.54						
395 S		2.6250 66.675	0.8660 21.996	0.14 3.5	1.14 0.52						
399 A		2.6875 68.262	0.8660 21.996	0.09 2.3	1.09 0.49						
455		455	2.0000 50.800	1.1542 29.317	0.03 0.8	1.77 0.80	453 A	4.2500 107.950	0.8750 22.225	0.03 0.8	1.0938 27.782
	460	1.7500 44.450	1.1542 29.317	0.14 3.5	1.98 0.90	453 X	4.1250 104.775	0.9687 24.605	0.13 3.3	1.1875 30.162	0.82 0.37
	462	2.2500 57.150	1.1542 29.317	0.09 2.3	1.48 0.67						
	462 A	2.2500 57.150	1.1542 29.317	0.09 2.3	1.50 0.68						
	467	1.8750 47.625	1.1542 29.317	0.03 0.8	1.88 0.85						
495	495	3.2500 82.550	1.1720 29.769	0.14 3.5	2.34 1.06	492 A	5.2500 133.350	0.8750 22.225	0.13 3.3	1.1875 30.162	0.95 0.43
	495 A	3.0000 76.200	1.1720 29.769	0.14 3.5	2.75 1.25	493	5.3750 136.525	0.8750 22.225	0.13 3.3	1.1875 30.162	1.19 0.54
	495 AS	3.0625 77.788	1.1720 29.769	0.14 3.5	2.72 1.23						
	495 AX	3.0000 76.200	1.1720 29.769	0.25 6.4	2.73 1.24						
	496	3.1875 80.962	1.1720 29.769	0.14 3.5	2.44 1.11						
	497	3.3750 85.725	1.1720 29.769	0.14 3.5	2.13 0.97						
	497 A	3.3750 85.725	1.1720 29.769	0.25 6.4	2.12 0.96						
	498	3.3125 84.138	1.1720 29.769	0.14 3.5	2.23 1.01						

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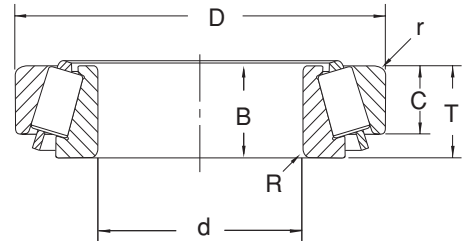
Inch dimensions are in bold print.



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									

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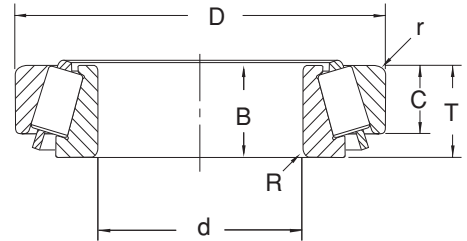
Inch dimensions are in bold print.



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

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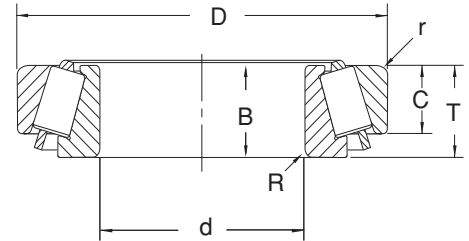
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SERIES	CONE	d BORE	B WIDTH	R MAX SFT FILLET RADIUS	WEIGHT lb/kg	CUP	D O.D.	C WIDTH	r MAX HSG FILLET RADIUS	T BEARING WIDTH	WEIGHT lb/kg												
755	755	3.0000	1.9000	0.14	6.83	752	6.3750	1.5000	0.13	1.8750	3.50												
		76.200	48.260	3.5	3.10		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		752	6.3750	1.5000	0.13	1.8750	3.50											
		82.550	48.260	3.5	2.81																		
	758	3.3750	1.9000	0.14	5.62								752 A	6.2990	1.5000	0.03	1.8750	3.21					
		85.725	48.260	3.5	2.55																		
759	3.5000	1.9000	0.14	5.25	752	6.3750							1.5000	0.13	1.8750	3.50							
	88.900	48.260	3.5	2.38																			
760	3.5625	1.9000	0.14	5.06	752 A	6.2990							1.5000	0.03	1.8750	3.21							
	90.488	48.260	3.5	2.30																			
766	3.5000	1.9000	0.28	5.44	752	6.3750	1.5000	0.13	1.8750	3.50													
	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							772	7.1250	1.5000	0.13	1.8750	4.27						
		104.775	48.006	3.5	2.92																		
	786	4.1250	1.8900	0.25	6.38							772	7.1250	1.5000	0.13	1.8750	4.27						
104.775		48.006	6.4	2.89																			
787	4.1250	1.8900	0.28	6.38	772	7.1250	1.5000	0.13	1.8750	4.27													
	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							3720	3.6718	0.9375	0.13	1.1875	0.63						
		47.625	30.302	3.5	0.60																		
	3780	2.0000	1.1930	0.14	1.22													3732	3.8750	0.9375	0.13	1.1875	0.95
		50.800	30.302	3.5	0.55																		
3782	1.7500	1.1930	0.14	1.46	3720	3.6718	0.9375	0.13	1.1875	0.63													
	44.450	30.302	3.5	0.66																			
3783	1.7500	1.1930	0.25	1.48	3732	3.8750	0.9375	0.13	1.1875	0.95													
	44.450	30.302	6.4	0.67																			
3795	2.0000	1.1930	0.14	1.21	3720	3.6718	0.9375	0.13	1.1875	0.63													
	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	3920	4.4375	0.9375	0.13	1.1875	1.00													
	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							

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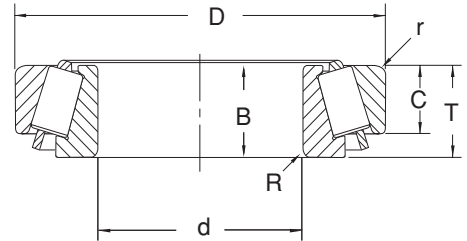
Inch dimensions are in bold print.



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

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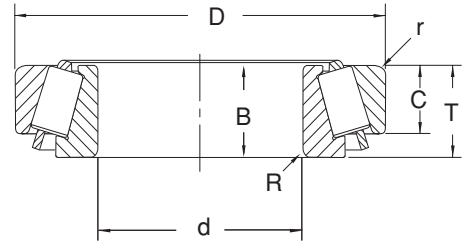
Inch dimensions are in bold print.



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 133.350	1.0313 26.195	0.13 3.3	1.3125 33.338	1.26									
		76.200	33.338	6.4	1.31						0.57									
	47679	3.0000	1.3125	0.14	2.94						76.200	33.338	3.5	1.33	1.33					
		76.200	33.338	3.5	1.33						1.33									
	47686	3.2500	1.3125	0.14	2.48						82.550	33.338	3.5	1.12	1.12					
82.550						33.338	6.8	1.11												
47800	47890	3.6250	1.3750	0.14	3.08	47820	5.7500 146.050	1.0313 26.195	0.13 3.3	1.3125 33.338	1.45									
		92.075	34.925	3.5	1.40						0.66									
48200						48220	7.1875 182.562	1.3125 33.338	0.13 3.3	1.5625 39.688	2.50 1.13									
55000 C	55175 C	1.7500	1.0594	0.14	2.11	55437	4.3750 111.125	0.8125 20.638	0.13 3.3	1.1875 30.162	1.11									
		44.450	26.909	3.5	0.96						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 165.100	1.0625 26.988	0.13 3.3	1.4375 36.512	1.88									
		106.362	36.512	3.5	1.84						0.85									
		107.950	36.512	3.5	1.82															
	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 177.800	1.1875 30.162	0.13 3.3	1.6250 41.275	2.43									
		114.300	41.275	3.5	2.41						1.10									
65000						65500	5.0000 127.000	1.3750 34.925	0.13 3.3	1.7500 44.450	2.25 1.02									
72000 C	72187 C	1.8750	1.2910	0.14	3.20	72487	4.8750 123.825	1.0000 25.400	0.13 3.3	1.4375 36.512	1.72									
		47.625	32.791	3.5	1.45						0.78									
	72188 C	1.8750	1.2910	0.03	3.26						47.625	32.791	0.8	1.48						
		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	1.42					
																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	1.42					
																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	1.35					
																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	1.31											
										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	1.28											
										57.150	32.791	3.5	1.28							
HM 212000	HM 212044	2.3750	1.5100	0.31	3.14	HM 212010	4.8125 122.238	1.1700 29.718	0.06 1.5	1.5000 38.100	1.32									
		60.325	38.354	8.0	1.42						0.60									
	HM 212046	2.5000	1.5100	0.14	2.89						HM 212011	4.8125 122.238	1.1700 29.718	0.13 3.3	1.5000 38.100	1.31				
		63.500	38.354	3.5	1.31											0.59				
	HM 212047	2.5000	1.5100	0.28	2.93											63.500	38.354	7.0	1.33	1.33
HM 212049	2.6250	1.5100	0.14	2.68	66.675	38.354	3.5	1.22	1.22											
										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	1.25										
											66.675	38.354	7.0	1.25						
HM 218200	HM 218248	3.5423	1.5748	0.28	3.80	HM 218210	5.7864 146.975	1.2795 32.500	0.14 3.5	1.5748 40.000	1.73									
		89.974	40.000	7.0	1.72						0.78									

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

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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.

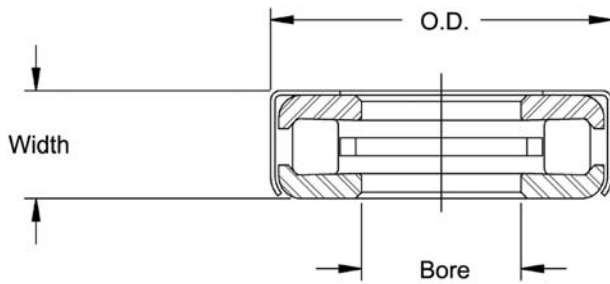
RBC stocks most of the sizes shown in the following section of this catalog. In addition, RBC will consider adding new sizes to the existing product assortment on a case-by-case basis. RBC products are available in both bulk and single boxes to meet customers' packaging requirements.



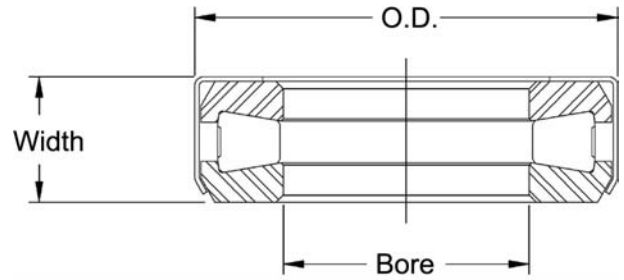
RBC Tapered Thrust Bearings

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.

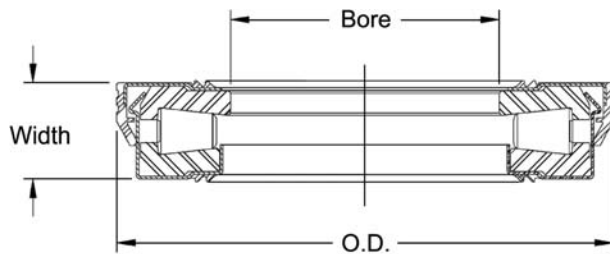
RBC tapered thrust bearings have been developed in 6 configurations. Please refer to the table on the opposite page to determine which style corresponds to your part number.



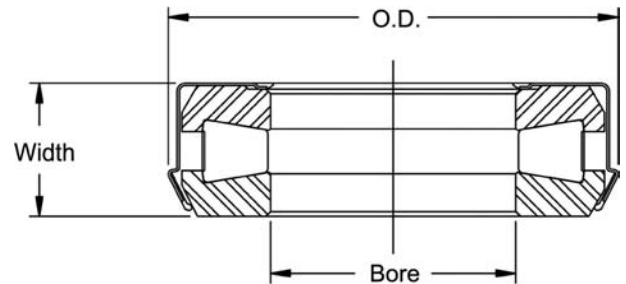
Style 1



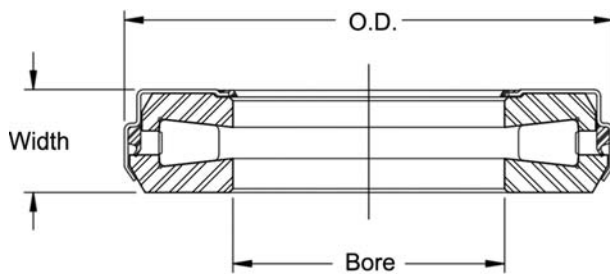
Style 2



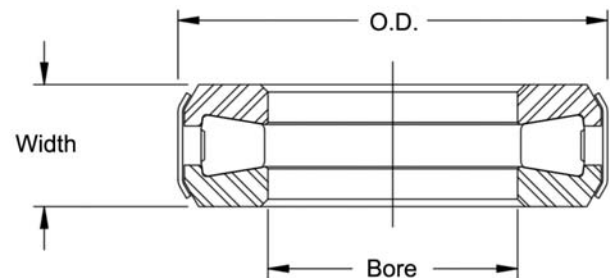
Style 3



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.



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

Pitchline® 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.