



55PW95



55PZ06

NTN

Tapered Roller Bearing Cones and Cups

Carry maximum combinations of radial and thrust loads simultaneously. Feature roller guiding inner ring construction. Roller bearing cones have steel cages and are nonlubricated. Use in lower-speed applications where there is a high degree of thrust or radial load, shock loads, and/or alternating thrust and radial loads.

Note: When replacing bearings, replace both cone and cup to ensure optimum performance and longer life.

Bearing Industry Number	Bore Dia.	Outside Dia.	Cone Width	Dynamic Load Capacity	Compatible Cup Manufacturer Part Number	Cone Item No.	Cup Item No.
LM11949V1	3/4 in	1.634 in	0.875 in	31.5 kN	LM11910	1YT2	55PY97
LM11749	49/64 in	1.457 in	0.575 in	26.4 kN	LM11710	55PY96	55PY95
LM67048V2	1 1/4 in	2.205 in	0.78 in	38.5 kN	LM67010	1YT8	55PZ09
25580	1 1/4 in	3.031 in	1 in	84.5 kN	25520	55PX28	55PX27
L68149V1	1 3/8 in	2.205 in	0.78 in	39 kN	L68110, L68111	1YT3	1YT4
LM48548	1 3/8 in	2.402 in	0.78 in	51.5 kN	LM48510	55PZ05	55PZ04
LM501349	1 3/8 in	2.756 in	0.78 in	62 kN	LM501310	55PZ07	55PZ06
JLM104948	1 3/2 in	3.071 in	0.846 in	77.5 kN	JLM104910	55PY74	55PY73
L44643	1 in	1.85 in	0.58 in	32 kN	L44610	1YT6	55PW96
07100	1 in	1.85 in	0.561 in	28.8 kN	07196	55PW95	55PW96

35TW65



Koyo

Needle Roller Bearings

Feature a thin profile where the radial space is limited. Alloy steel ring. Support high radial loads and high speed applications. **Drawn-Cup** support radial loads with reduced friction and are often used in steering systems and drive-lines for automotive applications. **Heavy-Duty** have a thicker outer shell that serves as the outer-ring raceway for high-load capacity and shock resistance. For demanding applications such as industrial machinery and wind power generation. **Single-Direction Assemblies** include a clutch in the assembly that move the bearing in a single direction. Commonly used in conveyor applications that require movement in only one direction.

Bearing Industry Number	Bore Dia.	Outside Dia.	Overall Width	Dyn. Radial Load Cap.	Full Complement	Brand	Item No.
Drawn-Cup Needle Roller Bearings							
Bearing Designation B, Open Closure							
1012	3/8 in	1 1/8 in	0.75 in	3,720 lbf	Yes	Tritan	35TW65
1416	3/8 in	1 1/8 in	1 in	7,100 lbf	Yes	Tritan	35TW74
1612	1 in	1 1/4 in	0.75 in	5,770 lbf	Yes	Tritan	35TW77
1616	1 in	1 1/4 in	1 in	7,630 lbf	Yes	Tritan	35TW78
Bearing Designation BH, Open Closure							
812	1/2 in	3/4 in	0.75 in	3,910 lbf	Yes	Tritan	35TX18
1616	1 in	1 1/8 in	1 in	8,200 lbf	Yes	Tritan	35TX14
1616	1 in	1 1/8 in	1 in	8,200 lbf	Yes	Koyo	779K92
Bearing Designation HK, Open Closure							
810	8	12	10 mm	3.8 kN	No	Ina	42ZW6
1010	10	14	10 mm	4.4 kN	No	Ina	42ZW8
1210	12	16	10 mm	4,982 kN	No	Tritan	35TZ12
1212	12	18	12 mm	6.5 kN	No	Ina	42Z29
2020	20	26	20 mm	15,700 N	No	Ina	42ZX3
Bearing Designation JH, Open Closure							
88	1/2 in	3/4 in	0.5 in	1,700 lbf	No	Tritan	35TX73
Bearing Designation SCE, Open Closure							
47	3/4 in	1 1/8 in	0.438 in	921.8 lbf	No	Ina	4XF63
68	3/4 in	1 1/8 in	0.5 in	1,304 lbf	No	Ina	4XF68
88	3/4 in	1 1/8 in	0.5 in	1,551.3 lbf	No	Ina	4XFH5
108	3/4 in	1 1/8 in	0.5 in	1,821 lbf	No	Ina	4XFH8
148	3/4 in	1 1/8 in	0.5 in	1,843.5 lbf	No	Ina	4XFJ5
610	3/4 in	1 1/8 in	0.625 in	1,663.7 lbf	No	Ina	4XF69
810	3/4 in	1 1/8 in	0.625 in	1,978.4 lbf	No	Ina	4XFH2
812	3/4 in	1 1/8 in	0.75 in	2,225.7 lbf	No	Ina	4XFH3
1010	3/4 in	1 1/8 in	0.625 in	2,338.1 lbf	No	Ina	4XFH9
1210	3/4 in	1 in	0.625 in	2,877.7 lbf	No	Ina	4XFJ3
1212	3/4 in	1 in	0.75 in	3,462.2 lbf	No	Ina	4XFJ4
1612	1 in	1 1/4 in	0.75 in	4,046.8 lbf	No	Ina	4XFJ8
Heavy-Duty Needle Roller Bearings							
Bearing Designation HJ, Double Sealed Closure							
162416	1 in	1 1/2 in	1 in	5,680 lbf	No	Koyo	779K08
Bearing Designation MR, Double Sealed Closure							
12	1/2 in	3/4 in	1 in	6,190 lbf	No	Tritan	35TX89
Single-Direction Needle Roller Clutch & Bearing Assemblies							
Bearing Designation RC, Open Closure							
81208	1/2 in	3/4 in	0.5 in	—	No	Tritan	35TY16
101410	3/4 in	1 in	0.625 in	—	No	Tritan	35TY17
162110	1 in	1 1/8 in	0.625 in	—	No	Tritan	35TY19
Bearing Designation RCB, Open Closure							
81214	1/2 in	3/4 in	0.875 in	1,600 lbf	No	Tritan	35TY21
121616	3/4 in	1 in	1 in	2,000 lbf	No	Tritan	35TY23
162117	1 in	1 1/8 in	1.062 in	3,460 lbf	No	Tritan	35TY24

Tapered Roller Bearing Assemblies

Commonly used in vehicles where the wheel bearings must handle large vertical (radial) and horizontal (axial) forces at the same time. Held together by an inner race that has a tapered surface for the bearings to roll against, and a flat inner radial surface to slide over a shaft. The outer race is the opposite design with the inner surface that's tapered, and the outer surface being flat. These tapered roller bearing assemblies are case-hardened steel construction and resist heat, heavy loads, humidity, and shocks. Suitable for use in hydraulic engines, gear motor transmissions, and locomotive axles.



55PX44

Bearing Industry Number	Bore Dia.	Outside Dia.	Overall Width	Cone Width	Cup Width	Item No.
4T-30204	20 mm	47 mm	15.25 mm	14 mm	12 mm	55PX44
4T-30205	25 mm	52 mm	16.25 mm	15 mm	13 mm	55PX45
4T-32005X	25 mm	47 mm	15 mm	15 mm	11.5 mm	55PX46
4T-32006	30 mm	62 mm	17.25 mm	16 mm	14 mm	55PX47
4T-32006X	30 mm	55 mm	17 mm	17 mm	13 mm	55PX47
4T-32007	35 mm	72 mm	18.25 mm	17 mm	15 mm	55PX47

4ZZP5



Banded Ball Thrust Bearings



Can run at higher speeds but with a lower load capacity than roller bearings. They support axial, or thrust, loads in a single direction. **Banded** ease installation and provide extra protection to the internal bearing components against contaminants. They consist of a housing washer, a shaft washer, and a ball and cage assembly that are banded together as one unit. **Separable Grooved-Race** can be separated in three parts to ease repair and replacement. They have grooved raceways which help guide the balls and limit variations in the ball's movement. Bearings can handle higher loads than flat race ball thrust bearings.

Bearing Industry Number	Bore Dia.	Outside Dia.	Overall Width	Dyn. Axial Load Cap.	Static Axial Load Cap.	Brand	Item No.
Banded Ball Thrust Bearings							
D1	1/2 in	1 1/2 in	0.563 in	3,850 lbf	5,600 lbf	Ina	42ZP5
D3	3/8 in	1 1/2 in	0.563 in	4,100 lbf	6,700 lbf	Ina	42ZP6
D5	3/4 in	1 1/2 in	0.563 in	4,250 lbf	7,300 lbf	Ina	42ZP8
D6	13/16 in	1 1/2 in	0.563 in	4,250 lbf	7,300 lbf	Ina	42ZP9
D9	1 in	1 3/2 in	0.625 in	6,700 lbf	13,100 lbf	Ina	42ZR3
D11	1 1/8 in	2 3/8 in	0.625 in	6,900 lbf	14,000 lbf	Ina	42ZR5
D12	1 3/8 in	2 3/8 in	0.625 in	6,900 lbf	14,000 lbf	Ina	42ZR6
D15	1 3/8 in	2 1/2 in	0.625 in	7,300 lbf	16,600 lbf	Ina	42ZR9
D17	1 1/2 in	2 1/2 in	0.625 in	7,700 lbf	18,300 lbf	Ina	42ZT1
D25	2 in	3 1/2 in	0.813 in	10,800 lbf	29,000 lbf	Ina	42ZT5
D33	2 1/2 in	3 3/2 in	0.813 in	11,500 lbf	34,000 lbf	Ina	42ZT7
Separable Grooved-Race Ball Thrust Bearings							
F8-16M	8 mm	16 mm	5 mm	3,920 N	4,990 N	Ezo	45VD14



35TX91

Needle Roller Thrust Bearings



Consist of an axial cage with needle rollers. Support axial loads in 1 direction. Use directly with surrounding hardened faces or separate thrust washers to provide the most compact thrust solution.

Bearing Industry Number	Bore Dia.	Outside Dia.	Overall Width	Dyn. Axial Load Cap.	Static Axial Load Cap.	Max. Speed (RPM)	Brand	Item No.
512	3/8 in	3/4 in	0.078 in	1,300 lbf	2,900 lbf	24,000	Tritan	35TY07
815	1/2 in	1 1/8 in	0.078 in	1,600 lbf	4,300 lbf	18,000	Tritan	35TY12
815	1/2 in	1 1/8 in	0.078 in	1,910 lbf	5,300 lbf	13,000	Ina	4XFN2
821	8 mm	21 mm	2 mm	7,800 N	19,400 N	18,000	Ina	4XFN3
1018	3/8 in	1 1/8 in	0.078 in	2,160 lbf	6,630 lbf	11,000	Ina	4XFN9
1220	3/4 in	1 1/4 in	0.078 in	2,400 lbf	8,200 lbf	13,000	Tritan	35TX91
1220	3/4 in	1 1/4 in	0.078 in	2,410 lbf	8,000 lbf	9,500	Ina	4XFN4
1226	12 mm	26 mm	2 mm	9,900 N	29,000 N	15,000	Ina	4XFN5
1625	1 in	1 3/8 in	0.078 in	3,100 lbf	12,000 lbf	11,000	Tritan	35TX93
1625	1 in	1 3/8 in	0.078 in	3,130 lbf	12,100 lbf	7,500	Ina	4XFN6
2435	1 1/2 in	2 3/8 in	0.078 in	5,200 lbf	26,000 lbf	7,000	Tritan	35TX97
3244	2 in	2 3/8 in	0.078 in	5,800 lbf	32,600 lbf	4,000	Ina	4XFP3
6681	4 1/8 in	5 1/8 in	0.125 in	14,000 lbf	93,000 lbf	3,000	Tritan	35TY11

Needle Roller Thrust Bearing Washers



Use as fatigue liners for soft housing faces. Combine with needle roller and cage assembly to form a complete needle roller thrust bearing.



35TY61

Compatible Bearing	Bore Dia.	Outside Dia.	Washer Thickness	Brand	Item No.
0821	8 mm	21 mm	1 mm	Ina	42ZL1
1018	3/8 in	1 1/8 in	1/2 in	Ina	4XFR1
1226	12 mm	26 mm	1 mm	Ina	42ZL3
3244	2 in	2 3/8 in	3/2 in	Tritan	35TY74
3244	2 in	2 3/8 in	1/2 in	Ina	4XFN1
4060	40 mm	60 mm	1 mm	Ina	42ZT1
4860	3 in	3 3/4 in	1/2 in	Tritan	35TY61