



4ZZP5

Banded Ball Thrust Bearings

Support axial forces in a single direction. Grooved race and steel cage.

Bore Dia.	Outside Dia.	H	Dynamic Load Cap.	Static Load Cap.	Max. RPM	Mfr. Model	Item No.	Bore Dia.	Outside Dia.	H	Dynamic Load Cap.	Static Load Cap.	Max. RPM	Mfr. Model	Item No.
0.5 in	1.219 in	0.563 in	3,850 lb	5,600 lb	7,000 RPM	D1	4ZZP5	1.188 in	2.094 in	0.625 in	6,900 lb	14,000 lb	3,600 RPM	D12	4ZZR6
0.625 in	1.344 in	0.563 in	4,100 lb	6,700 lb	6,000 RPM	D3	4ZZP6	1.25 in	2.344 in	0.625 in	7,200 lb	15,700 lb	3,200 RPM	D13	4ZZR7
0.688 in	1.344 in	0.563 in	4,100 lb	6,700 lb	6,000 RPM	D4	4ZZP7	1.313 in	2.344 in	0.625 in	7,200 lb	15,700 lb	3,200 RPM	D14	4ZZR8
0.75 in	1.469 in	0.563 in	4,250 lb	7,300 lb	5,500 RPM	D5	4ZZP8	1.375 in	2.469 in	0.625 in	7,300 lb	16,300 lb	3,000 RPM	D15	4ZZR9
0.813 in	1.469 in	0.563 in	4,250 lb	7,300 lb	5,500 RPM	D6	4ZZP9	1.5 in	2.594 in	0.625 in	7,700 lb	18,300 lb	2,800 RPM	D17	4ZZT1
0.875 in	1.844 in	0.625 in	6,600 lb	12,200 lb	4,100 RPM	D7	4ZZR1	1.625 in	2.969 in	0.813 in	10,300 lb	25,000 lb	2,400 RPM	D19	4ZZT3
0.938 in	1.844 in	0.625 in	6,600 lb	12,200 lb	4,100 RPM	D8	4ZZR2	1.75 in	3.094 in	0.813 in	10,600 lb	26,500 lb	2,300 RPM	D21	4ZZT4
1 in	1.969 in	0.625 in	6,700 lb	13,100 lb	3,800 RPM	D9	4ZZR3	2 in	3.344 in	0.813 in	10,800 lb	29,000 lb	2,100 RPM	D25	4ZZT5
1.063 in	1.969 in	0.625 in	6,700 lb	13,100 lb	3,800 RPM	D10	4ZZR4	2.5 in	3.969 in	0.813 in	11,500 lb	34,000 lb	1,800 RPM	D33	4ZZT7
1.125 in	2.094 in	0.625 in	6,900 lb	14,000 lb	3,600 RPM	D11	4ZZR5	2.563 in	3.969 in	0.813 in	11,500 lb	34,000 lb	1,800 RPM	D34	4ZZT8



4XF9

Drawn Cup Needle Roller Bearings

Provide maximum capacity in minimal radial space. Caged with open ends for through shafts. Mount with press fit in housing.

Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.	Bore Dia.	Outside Dia.	W	Mfr. Model	Item No.
0.187 in	0.344 in	0.375 in	SCE36	4XF9	1.25 in	1.5 in	0.75 in	SCE2012	4XFK1
	0.437 in	0.25 in	SCE44	4XF61		1.5 in	1 in	SCE2016	4XFK2
0.25 in	0.437 in	0.313 in	SCE45	4XF62	1.375 in	1.625 in	0.5 in	SCE2228	4XFK3
	0.437 in	0.437 in	SCE47	4XF63		1.625 in	0.75 in	SCE2212	4XFK4
0.313 in	0.5 in	0.563 in	SCE59	4XF66	1.5 in	1.875 in	0.75 in	SCE2412	4XFK6
	0.563 in	0.313 in	SCE65	4XF67	1.75 in	2.125 in	1 in	SCE2816	4XFK7
0.375 in	0.563 in	0.5 in	SCE68	4XF68					
	0.563 in	0.625 in	SCE610	4XF69					
0.437 in	0.625 in	0.5 in	SCE78	4XFH1					
	0.687 in	0.37 in	SCE86	4XFH4					
	0.687 in	0.5 in	SCE88	4XFH5					
0.5 in	0.687 in	0.625 in	SCE810	4XFH2					
	0.687 in	0.75 in	SCE812	4XFH3					
	0.813 in	0.437 in	SCE107	4XFH7					
0.625 in	0.813 in	0.5 in	SCE108	4XFH8					
	0.813 in	0.625 in	SCE1010	4XFH9					
0.687 in	0.875 in	0.5 in	SCE118	4XFJ1					
	1 in	0.5 in	SCE128	4XFJ2					
0.75 in	1 in	0.625 in	SCE1210	4XFJ3					
	1 in	0.75 in	SCE1212	4XFJ4					
0.875 in	1.125 in	0.5 in	SCE148	4XFJ5					
	1.125 in	0.75 in	SCE1412	4XFJ6					
	1.25 in	0.5 in	SCE168	4XFJ7					
1 in	1.25 in	0.75 in	SCE1612	4XFJ8					
1.125 in	1.375 in	0.75 in	SCE1812	4XFJ9					



4XFL8

Needle Roller Thrust Bearings

Needle Roller and Cage Assemblies—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.

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

Bore Dia.	Outside Dia.	H	Dynamic Load Cap.	Static Load Cap.	Max. RPM	Mfr. Model	Item No.
0.25 in	0.687 in	0.078 in	1,370 lb	3,000 lb	20,000 RPM	TC411	4XFL8
0.375 in	0.812 in	0.078 in	1,620 lb	4,000 lb	16,000 RPM	TC613	4XFN1
0.5 in	0.937 in	0.078 in	1,920 lb	5,300 lb	13,000 RPM	TC815	4XFN2
0.625 in	1.125 in	0.078 in	2,170 lb	6,600 lb	11,000 RPM	TC1018	4XFN3
0.75 in	1.25 in	0.078 in	2,410 lb	8,000 lb	9,500 RPM	TC1220	4XFN4
0.875 in	1.437 in	0.078 in	2,900 lb	10,500 lb	8,000 RPM	TC1423	4XFN5
1 in	1.562 in	0.078 in	3,150 lb	12,100 lb	7,500 RPM	TC1625	4XFN6
1.125 in	1.75 in	0.078 in	3,850 lb	16,300 lb	6,500 RPM	TC1828	4XFN7
1.25 in	1.937 in	0.078 in	4,500 lb	20,500 lb	6,000 RPM	TC2031	4XFN8
1.375 in	2.062 in	0.078 in	4,600 lb	21,600 lb	5,500 RPM	TC2233	4XFN9
1.5 in	2.187 in	0.078 in	4,850 lb	23,700 lb	5,000 RPM	TC2435	4XFP1
1.75 in	2.5 in	0.078 in	5,600 lb	30,000 lb	4,400 RPM	TC2840	4XFP2
2 in	2.75 in	0.078 in	5,800 lb	32,500 lb	4,000 RPM	TC3244	4XFP3
2.5 in	3.25 in	0.078 in	6,200 lb	37,500 lb	3,300 RPM	TC4052	4XFP5



4XFP6

Inside Dia.	Outside Dia.	1/2 in WIDTH Mfr. Model	Item No.	1/4 in WIDTH Mfr. Model	Item No.	3/8 in WIDTH Mfr. Model	Item No.	1/2 in WIDTH Mfr. Model	Item No.
0.25 in	0.688 in	TWA411	4XFP6	—	—	TWC411	4XFU4	—	—
0.313 in	0.75 in	TWA512	4XFP7	—	—	—	—	—	—
0.375 in	0.813 in	TWA613	4XFP8	TWB613	4XFT4	—	—	—	—
0.5 in	0.938 in	TWA815	4XFP9	TWB815	4XFT5	TWC815	4XFU5	—	—
0.625 in	1.125 in	TWA1018	4XFR1	TWB1018	4XFT6	TWC1018	4XFU6	—	—
0.75 in	1.25 in	TWA1220	4XFR2	TWB1220	4XFT7	TWC1220	4XFU7	TWD1220	4XFW3
0.875 in	1.438 in	TWA1423	4XFR3	—	—	TWC1423	4XFU8	TWD1423	4XFW4
1.0 in	1.563 in	TWA1625	4XFR4	TWB1625	4XFT8	TWC1625	4XFU9	TWD1625	4XFW5
1.125 in	1.75 in	TWA1828	4XFR5	TWB1828	4XFT9	TWC1828	4XFU1	TWD1828	4XFW6
1.25 in	1.938 in	TWA2031	4XFR6	TWB2031	4XFU1	—	—	8666030	4XFW7
1.375 in	2.063 in	TWA2233	4XFR7	—	—	TWC2233	4XFU2	—	—
1.5 in	2.188 in	TWA2435	4XFR8	TWB2435	4XFU2	—	—	TWD2435	4XFW8
1.75 in	2.5 in	TWA2840	4XFR9	TWB2840	4XFU3	—	—	TWD2840	4XFW9
2.0 in	2.75 in	TWA3244	4XFT1	—	—	—	—	—	—
2.25 in	3.0 in	TWA3648	4XFT2	—	—	—	—	—	—
2.5 in	3.25 in	TWA4052	4XFT3	—	—	—	—	—	—

Bore Dia.	Outside Dia.	H	Dynamic Load Cap.	Static Load Cap.	Max. RPM	Mfr. Model	Item No.	Inside Dia.	Outside Dia.	Mfr. Model	Item No.
8 mm	21 mm	2 mm	7,800 N	19,400 N	18,000 RPM	AXK0821-TV	4ZZN3	8 mm	21 mm	AS0821	4ZZL1
10 mm	24 mm	2 mm	9,200 N	25,500 N	17,000 RPM	AXK1024	4ZZN4	10 mm	24 mm	AS1024	4ZZL2
12 mm	26 mm	2 mm	9,900 N	29,000 N	15,000 RPM	AXK1226	4ZZN5	12 mm	26 mm	AS1226	4ZZL3
15 mm	28 mm	2 mm	11,300 N	36,000 N	13,000 RPM	AXK1528	4ZZN6	15 mm	28 mm	AS1528	4ZZL4
17 mm	30 mm	2 mm	11,900 N	39,500 N	12,000 RPM	AXK1730	4ZZN7	17 mm	30 mm	AS1730	4ZZL5
20 mm	35 mm	2 mm	13,100 N	46,500 N	10,000 RPM	AXK2035	4ZZN8	20 mm	35 mm	AS2035	4ZZL6
25 mm	42 mm	2 mm	14,700 N	58,000 N	8,500 RPM	AXK2542	4ZZN9	25 mm	42 mm	AS2542	4ZZL7
30 mm	47 mm	2 mm	16,300 N	70,000 N	7,500 RPM	AXK3047	4ZZP1	30 mm	47 mm	AS3047	4ZZL8
35 mm	52 mm	2 mm	17,800 N	81,000 N	6,500 RPM	AXK3552	4ZZP2	35 mm	52 mm	AS3552	4ZZL9
40 mm	60 mm	3 mm	28,000 N	114,000 N	6,000 RPM	8665484	4ZZP3	40 mm	60 mm	AS4060	4ZZN1
45 mm	65 mm	3 mm	30,000 N	128,000 N	5,000 RPM	AXK4565	4ZZP4	45 mm	65 mm	AS4565	4ZZN2