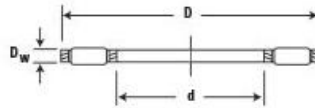


Thrust Bearings & Washers



For high axial loads when envelop space is minimal.

When high axial load capacities are needed and envelope space is minimal, **needle thrust bearings** are an option. These bearings consist of a stamped or machined cage and rollers. The cage retaining the rollers is paired with thrust washers that act as raceways. Thrust bearings can be used without thrust washers when the faces of adjacent machine components can serve as raceways, allowing the machine to be even more compact. These bearings provide a high degree of stiffness and are most suitable where high accuracy is required at high speeds and under fluctuating heavy loads, such as machine tools and high-pressure pumps.

THRUST NEEDLE ROLLER BEARINGS											
DIMENSIONS						INTERCHANGE					
d		D		D _w		INA AXK	SKF AXK	FAG AXK	IKO NTB	Torrington FNT(A)	Torrington NTA
inch	mm	inch	mm	inch	mm						
0.250	6.350	0.687	17.450	0.0781	1.984						NTA-411
0.312	7.925	0.750	19.050	0.0781	1.984						NTA-512
0.375	9.525	0.812	20.625	0.0781	1.984						NTA-613
0.394	10.000	0.945	24.000	0.0787	2.000	AXK 1024	AXK 1024	AXK 1024	NTB 1024	FNT-1024	
0.472	12.000	1.024	26.000	0.0787	2.000	AXK 1226	AXK 1226	FNT-1226	NTB 1226	FNT-1226	
0.500	12.700	0.937	23.800	0.0781	1.984						NTA-815
0.562	14.275	1.000	25.400	0.0782	1.986						NTA-916
0.591	15.000	1.102	28.000	0.0787	2.000	AXK 1528	AXK 1528	AXK 1528	NTB 1528	FNTA-1528	
0.625	15.875	1.125	28.575	0.0781	1.984						NTA-1018
0.630	16.000	1.142	29.000	0.0787	2.000				NTB 1629		
0.669	17.000	1.181	30.000	0.0787	2.000	AXK 1730	AXK 1730	AXK 1730	NTB 1730	FNT-1730	
0.709	18.000	1.220	31.000	0.0787	2.000				NTB 1831		
0.750	19.050	1.250	31.750	0.0781	1.984						NTA-1220
0.787	20.000	1.378	35.000	0.0787	2.000	AXK 2035	AXK 2035	AXK 2035	NTB 2035	FNTA-2035	
0.875	22.225	1.437	36.500	0.0781	1.984						NTA-1423
0.984	25.000	1.654	42.000	0.0787	2.000	AXK 2542	AXK 2542	AXK 2542	NTB 2542	FNTA-2542	
1.000	25.400	1.562	39.675	0.0781	1.984						NTA-1625
1.125	28.575	1.750	44.450	0.0781	1.984						NTA-1828
1.181	30.000	1.850	47.000	0.0787	2.000	AXK 3047	AXK 3047	AXK 3047	NTB 3047	FNTA-3047	
1.250	31.750	1.937	49.200	0.0781	1.984						NTA-2031
1.375	34.925	2.062	52.375	0.0781	1.984						NTA-2233

THRUST WASHERS											
DIMENSIONS						INTERCHANGE					
d		D		S		INA AS	SKF AS	FAG AS	IKO AS	Torrington FTRA	Torrington TRA
inch	mm	inch	mm	inch	mm						
0.250	6.350	0.687	17.450	.030-.032	.76-.81						TRA-411
0.312	7.925	0.750	19.050	.030-.032	.76-.81						TRA-512
0.375	9.525	0.812	20.625	.030-.032	.76-.81						TRA-613
0.394	10.000	0.945	24.000	0.0394	1	AS 1024	AS 1024	AS 1024	AS 1024	FTRA-1024	
0.472	12.000	1.024	26.000	0.0394	1	AS 1226	AS 1226	AS 1226	AS 1226	FTRA-1226	
0.500	12.700	0.937	23.800	.030-.032	.76-.81						TRA-815
0.562	14.275	1.000	25.400	.030-.032	.76-.81						TRA-916
0.591	15.000	1.102	28.000	0.0394	1	AS 1528	AS 1528	AS 1528	AS 1528	FTRA-1528	
0.625	15.875	1.125	28.575	.030-.032	.76-.81						TRA-1018
0.630	16.000	1.142	29.000	0.0394	1				AS 1629		
0.669	17.000	1.181	30.000	0.0394	1	AS 1730	AS 1730	AS 1730	AS 1730	FTRA-1730	
0.709	18.000	1.220	31.000	0.0394	1				AS 1831		
0.750	19.050	1.250	31.750	.030-.032	.76-.81						TRA-1220
0.787	20.000	1.378	35.000	0.0394	1	AS 2035	AS 2035	AS 2035	AS 2035	FTRA-2035	
0.875	22.225	1.437	36.500	.030-.032	.76-.81						TRA-1423
0.984	25.000	1.654	42.000	0.0394	1	AS 2542	AS 2542	AS 2542	AS 2542	FTRA-2542	
1.000	25.400	1.562	39.675	.030-.032	.76-.81						TRA-1625