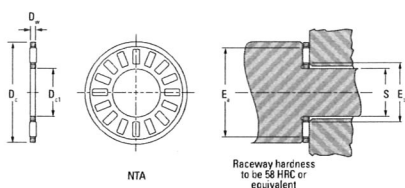


THRUST NEEDLE ROLLER AND CAGE ASSEMBLIES, THRUST WASHERS

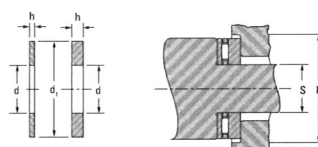
INCH SERIES

- Dimensions for bore and O.D. of thrust assemblies and washers are nominal.
- See page B-6-36 for details on piloting and backup surfaces.
- Thrust washers finished at least one-quarter of bore area (remainder is rough breakaway finish).
- O.D. finish of washers will be as blanked.



Shaft Dia.	Assembly Dimensions					Assembly Designation	Load Ratings		Fatigue Limit Life C_1	Speed Rating ¹⁾
	D_1	D_2	D_3	D_4	D_5		Dynamic C	Static C_0		
in	mm	in	mm	in	mm		lb	kg	in	mm
2 1/4	68.85 2.352	92.875 3.655	3.175 0.1250	72.64 2.860	87.884 3.460	NTA-4858	47.68 10000	256.8 57000	26.8	4800
3	76.20 3.000	96.25 3.790	1.964 0.0781	76.41 3.006	96.618 3.800	NTA-4860	26.96 6060	112.1 24900	17.8	4800
3 1/4	82.55 3.250	104.78 4.125	3.175 0.1250	85.34 3.360	106.58 4.192	NTA-5280	51.60 11600	294.9 66300	30.9	4200
3 3/4	95.25 3.750	117.48 4.625	3.175 0.1250	98.04 3.860	113.28 4.460	NTA-6016	56.05 12600	344.3 77400	35.5	3600
4 1/4	104.78 4.125	128.57 5.062	3.175 0.1250	107.44 4.230	124.46 4.900	NTA-6881	63.61 14300	416.6 93200	41.3	3200

¹⁾Speed ratings listed are based on adequate oil lubrication. See page B-6-37 for lubrication information. Suggestions for an application requiring O.D. piloting should be determined in consultation with your representative.



Approx. Wt.	Thrust Washer Designation	Washer Dimensions					Piloting Dimensions					Dia. to Case O.D.	Washer Wt.	Shaft Dia.
		d	d ₁	d ₂	d ₃	d ₄	S	S ₁	S ₂	S ₃				
		mm	mm	mm	mm	mm	mm	mm	mm	mm				
kg	lb	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	in.
0.037 0.082	TRC-4052	63.50 2.500	82.55 3.250	2.04 0.081	2.34 0.092	63.50 2.500	63.42 2.497	82.54 3.251	82.54 3.251	82.54 3.251	82.54 3.251	0.041 0.08	2 3/4	
	TRC-4052	63.50 2.500	82.55 3.250	2.28 0.090	3.12 0.123	63.50 2.500	63.42 2.497	82.54 3.251	82.54 3.251	82.54 3.251	82.54 3.251	0.054 0.119		
	TRA-4060	68.85 2.705	92.08 3.625	0.81 0.032	0.90 0.035	68.85 2.705	68.77 2.703	92.08 3.618	92.08 3.618	92.08 3.618	92.08 3.618	0.018 0.040		
	TRP-4066	68.85 2.705	92.08 3.625	0.80 0.031	1.52 0.060	68.85 2.705	68.77 2.703	92.08 3.618	92.08 3.618	92.08 3.618	92.08 3.618	0.026 0.077		
	TRC-4068	68.85 2.705	92.08 3.625	2.41 0.095	2.34 0.092	68.85 2.705	68.77 2.703	92.08 3.618	92.08 3.618	92.08 3.618	92.08 3.618	0.051 0.113		
	TRD-4068	68.85 2.705	92.08 3.625	0.26 0.010	3.12 0.123	68.85 2.705	68.77 2.703	92.08 3.618	92.08 3.618	92.08 3.618	92.08 3.618	0.065 0.152		
0.022 0.048	TRF-4069	68.85 2.705	92.08 3.625	0.48 0.019	4.78 0.189	68.85 2.705	68.77 2.703	92.08 3.618	92.08 3.618	92.08 3.618	92.08 3.618	0.104 0.229	3	
	TRA-4080	76.20 3.000	96.25 3.790	0.82 0.032	0.90 0.035	76.20 3.000	76.10 2.997	96.24 3.791	96.24 3.791	96.24 3.791	96.24 3.791	0.014 0.034		
	TRC-4086	76.20 3.000	96.25 3.790	0.60 0.023	1.52 0.060	76.20 3.000	76.12 2.999	96.04 3.787	96.04 3.787	96.04 3.787	96.04 3.787	0.032 0.077		
	TRD-4086	76.20 3.000	96.25 3.790	0.28 0.011	3.12 0.123	76.20 3.000	76.12 2.999	96.04 3.787	96.04 3.787	96.04 3.787	96.04 3.787	0.061 0.136		
	TRC-4086	76.20 3.000	96.25 3.790	0.98 0.039	4.78 0.189	76.20 3.000	76.12 2.999	96.04 3.787	96.04 3.787	96.04 3.787	96.04 3.787	0.104 0.229		
	TRF-4086	76.20 3.000	96.25 3.790	0.82 0.032	0.90 0.035	76.20 3.000	76.10 2.997	96.04 3.787	96.04 3.787	96.04 3.787	96.04 3.787	0.014 0.034		
0.042 0.092	TRA-5306	82.55 3.250	104.78 4.125	0.81 0.032	0.90 0.035	82.55 3.250	82.47 3.243	105.54 4.156	105.54 4.156	105.54 4.156	105.54 4.156	0.024 0.049	3 1/4	
	TRC-5306	82.55 3.250	104.78 4.125	0.81 0.032	3.12 0.123	82.55 3.250	82.47 3.243	105.54 4.156	105.54 4.156	105.54 4.156	105.54 4.156	0.060 0.135		
	TRA-5074	95.25 3.750	117.48 4.625	0.20 0.008	0.90 0.035	95.25 3.750	95.17 3.747	118.26 4.658	118.26 4.658	118.26 4.658	118.26 4.658	0.022 0.05		
	TRP-5074	95.25 3.750	117.48 4.625	1.60 0.063	1.52 0.060	95.25 3.750	95.17 3.747	118.26 4.658	118.26 4.658	118.26 4.658	118.26 4.658	0.046 0.101		
	TRC-5074	95.25 3.750	117.48 4.625	2.41 0.095	2.34 0.092	95.25 3.750	95.17 3.747	118.26 4.658	118.26 4.658	118.26 4.658	118.26 4.658	0.069 0.152		
	TRD-5074	95.25 3.750	117.48 4.625	0.28 0.010	3.12 0.123	95.25 3.750	95.17 3.747	118.26 4.658	118.26 4.658	118.26 4.658	118.26 4.658	0.062 0.202		
0.062 0.138	TRA-5081	104.78 4.125	128.57 5.062	0.81 0.032	0.90 0.035	104.78 4.125	104.70 4.123	129.29 5.094	129.29 5.094	129.29 5.094	129.29 5.094	0.027 0.064	4 1/4	
	TRC-5081	104.78 4.125	128.57 5.062	2.41 0.095	2.34 0.092	104.78 4.125	104.70 4.123	129.29 5.094	129.29 5.094	129.29 5.094	129.29 5.094	0.081 0.178		
	TRD-5081	104.78 4.125	128.57 5.062	0.28 0.010	3.12 0.123	104.78 4.125	104.70 4.123	129.29 5.094	129.29 5.094	129.29 5.094	129.29 5.094	0.109 0.244		
	TRF-5081	104.78 4.125	128.57 5.062	4.78 0.188	4.78 0.188	104.78 4.125	104.70 4.123	129.29 5.094	129.29 5.094	129.29 5.094	129.29 5.094	0.165 0.364		
	TRC-5081	104.78 4.125	128.57 5.062	0.81 0.032	0.90 0.035	104.78 4.125	104.70 4.123	129.29 5.094	129.29 5.094	129.29 5.094	129.29 5.094	0.027 0.064		
	TRD-5081	104.78 4.125	128.57 5.062	0.28 0.010	3.12 0.123	104.78 4.125	104.70 4.123	129.29 5.094	129.29 5.094	129.29 5.094	129.29 5.094	0.109 0.244		