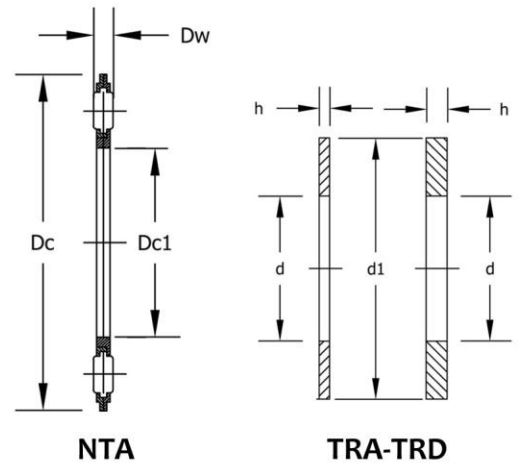


## Needle Roller Thrust Bearings

Needle Roller Thrust Bearings roller assemblies (NTA Series) utilize small diameter needle rollers configured in a spoke-like pattern, equally spaced by a cage that keeps the rollers separated and tracking in an orbital path. They are most commonly used sandwiched between thrust washers (TRA, TRB, TRC, TRD Series). These assemblies transmit a thrust load between two relative rotating objects while greatly reducing friction.



Shaft Diameter (in.)	Bore (Dc1)	Outside Diameter (Dc)	Width (Dw)	Bearing Designation	Dynamic Load C (Lbs)	Static Load Co (Lbs)	Limiting Speed Oil (RPM)	Approx. Wgt. (lbs.)	Washer Designation	Bore (d)	Outside Diameter (d1)	Width (h)	Approx. Wgt. (lbs.)
1/4	0.25"	0.687"	0.0781"	NTA411	1100	2400	26000	0.01	TRA411	0.25"	0.688"	0.03"	0.01
									TRB411	0.25"	0.688"	0.06"	0.01
									TRC411	0.25"	0.688"	0.092"	0.01
5/16	0.312"	0.75"	0.0781"	NTA512	1300	2900	24000	0.01	TRA512	0.312"	0.75"	0.032"	0.01
									TRB512	0.312"	0.75"	0.063"	0.01
3/8	0.375"	0.812"	0.0781"	NTA613	1300	3200	22000	0.01	TRA613	0.375"	0.812"	0.032"	0.01
									TRB613	0.375"	0.812"	0.063"	0.01
									TRC613	0.375"	0.812"	0.095"	0.02
1/2	0.5"	0.937"	0.0781"	NTA815	1600	4300	18000	0.01	TRA815	0.5"	0.937"	0.03"	0.004
									TRB815	0.5"	0.937"	0.063"	0.01
									TRC815	0.5"	0.937"	0.095"	0.01
9/16	0.562"	1"	0.0781"	NTA916	1700	4800	17000	0.01	TRA916	0.562"	1"	0.032"	0.01
									TRB916	0.562"	1"	0.063"	0.01
5/8	0.625"	1.125"	0.0781"	NTA1018	2200	6800	14000	0.01	TRA1018	0.625"	1.125"	0.032"	0.01
									TRB1018	0.625"	1.125"	0.063"	0.01
									TRC1018	0.625"	1.125"	0.095"	0.02
3/4	0.75"	1.25"	0.0781"	NTA1220	2400	8200	13000	0.01	TRA1220	0.75"	1.25"	0.032"	0.01
									TRB1220	0.75"	1.25"	0.063"	0.01
									TRC1220	0.75"	1.25"	0.095"	0.02
									TRD1220	0.75"	1.25"	0.126"	0.03
7/8	0.875"	1.437"	0.0781"	NTA1423	3000	11000	12000	0.01	TRA1423	0.875"	1.437"	0.03"	0.01
									TRB1423	0.875"	1.437"	0.063"	0.017
									TRC1423	0.875"	1.437"	0.095"	0.03
									TRD1423	0.875"	1.4375"	0.126"	0.0432
1	1"	1.5625"	0.0781"	NTA1625	3100	12000	11000	0.01	TRA1625	1"	1.562"	0.03"	0.01
									TRB1625	1"	1.562"	0.063"	0.02
									TRC1625	1"	1.562"	0.095"	0.03
									TRD1625	1"	1.562"	0.126"	0.04
1 1/8	1.125"	1.75"	0.0781"	NTA1828	3700	16000	9000	0.02	TRA1828	1.125"	1.75"	0.032"	0.03
1 1/4	1.25"	1.937"	0.0781"	NTA2031	4500	21000	8000	0.02	TRA2031	1.25"	1.937"	0.03"	0.01
									TRB2031	1.25"	1.937"	0.063"	0.03
									TRC2031	1.25"	1.937"	0.095"	0.04
									TRD2031	1.25"	1.937"	0.126"	0.06

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## Needle Roller Thrust Bearings



Shaft Diameter (in.)	Bore (Dc1)	Outside Diameter (Dc)	Width (Dw)	Bearing Designation	Dynamic Load C (Lbs)	Static Load Co (Lbs)	Limiting Speed Oil (RPM)	Approx. Wgt. (lbs.)	Washer Designation	Bore (d)	Outside Diameter (d1)	Width (h)	Approx. Wgt. (lbs.)
1 3/8	1.375"	2.062"	0.0781"	NTA2233	4800	23000	7500	0.02	TRA2233	1.375"	2.062"	0.03"	0.02
									TRB2233	1.375"	2.062"	0.063"	0.03
									TRC2233	1.375"	2.062"	0.095"	0.05
									TRD2233	1.375"	2.062"	0.126"	0.07
1 1/2	1.5"	2.187"	0.0781"	NTA2435	5200	26000	7000	0.02	TRA2435	1.5"	2.187"	0.032"	0.02
									TRB2435	1.5"	2.187"	0.063"	0.04
									TRC2435	1.5"	2.187"	0.095"	0.05
									TRD2435	1.5"	2.187"	0.126"	0.07
									TRF2435	1.5"	2.187"	0.188"	0.09
1 3/4	1.75"	2.5"	0.0781"	NTA2840	5600	30000	6700	0.53	TRA2840	1.75"	2.5"	0.03"	0.021
									TRB2840	1.75"	2.5"	0.06"	0.044
									TRC2840	1.75"	2.5"	0.092"	0.063
									TRD2840	1.75"	2.5"	0.126"	0.09
2	2"	2.75"	0.0781"	NTA3244	5300	29000	6000	0.03	TRA3244	2"	2.75"	0.032"	0.02
									TRB3244	2"	2.75"	0.06"	0.048
									TRC3244	2"	2.75"	0.095"	0.06
									TRD3244	2"	2.75"	0.126"	0.1
2 1/8	2.125"	2.875"	0.0781"	NTA3446	5400	30000	5800	0.04	TRA3446	2.125"	2.875"	0.032"	0.02
									TRD3446	2.125"	2.875"	0.126"	0.11
2 1/4	2.25"	3"	0.0781"	NTA3648	5500	32000	5500	0.04	TRA3648	2.25"	3"	0.032"	0.03
									TRB3648	2.25"	3"	0.063"	0.06
									TRD3648	2.25"	3"	0.126"	0.11
2 1/2	2.5"	3.25"	0.0781"	NTA4052	5600	32000	5000	0.06	TRA4052	2.5"	3.25"	0.03"	0.03
									TRB4052	2.5"	3.25"	0.06"	0.059
									TRC4052	2.5"	3.25"	0.095"	0.09
									TRD4052	2.5"	3.25"	0.126"	0.12
2 3/4	2.75"	3.625"	0.125"	NTA4458	10000	57000	4500	0.08	TRA4458	2.75"	3.625"	0.03"	0.039
									TRB4458	2.75"	3.625"	0.06"	0.063
									TRD4458	2.75"	3.625"	0.123"	0.15
3	3"	3.75"	0.0781"	NTA4860	6000	38000	4000	0.05	TRA4860	3"	3.75"	0.032"	0.03
									TRB4860	3"	3.75"	0.063"	0.07
									TRD4860	3"	3.75"	0.126"	0.14
3 1/4	3.25"	4.125"	0.125"	NTA5266	11000	66000	4000	0.06	TRA5266	3.25"	4.125"	0.032"	0.04
									TRD5266	3.25"	4.125"	0.126"	0.18
3 3/4	3.75"	4.625"	0.125"	NTA6074	12000	77000	3500	0.06	TRA6074	3.75"	4.625"	0.032"	0.05
									TRD6074	3.75"	4.625"	0.126"	0.2
4 1/8	4.125"	5.062"	0.125"	NTA6681	14000	93000	3000	0.07	TRA6681	4.125"	5.062"	0.032"	0.06

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