

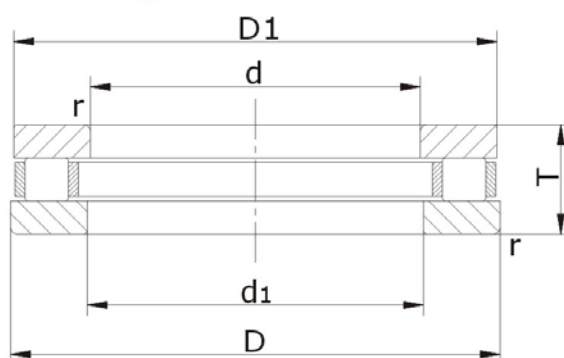
Cylindrical roller thrust bearings

Cylindrical roller thrust bearings are separable. They only carry axial loads in one direction and slight shock loads, but their loading capacity is much higher than thrust ball bearings with same dimensions. They can limit axial displacement of shafts or housings in one direction, so can be as axial locating bearings in one direction. The slippage will be formed on the raceways because of the linear velocity differences of two ends of rollers while rolling, so the limiting speed of these bearings is lower than thrust ball bearings, and they are usually applied to low speed applications.

Metal machined solid cages are used for cylindrical roller thrust bearings which are standard design, but other cages also can be provided according to customers.

Cylindrical roller thrust bearings mainly used in heavy machine tools, large power gear boxes for ships, oil rigs, vertical machines, etc.

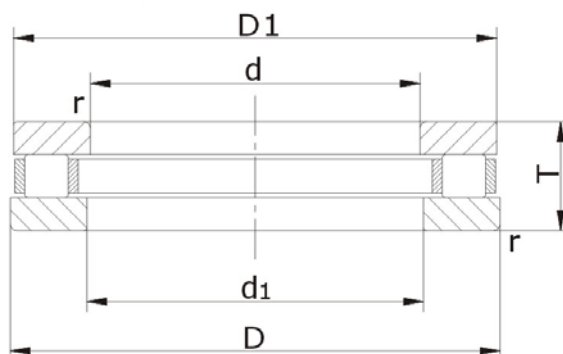
Cylindrical roller thrust bearings



Type 80000
(Type 9000)

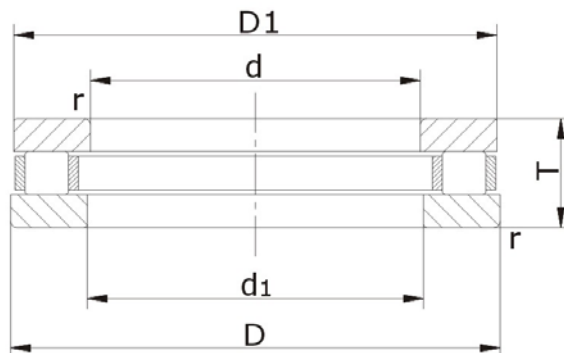
Boundary dimensions						Basic load ratings		Designations		Mass	Limiting speeds	
mm						kN					r/min	
d	d _{1min}	D	D _{1max}	T	r _{min}	Ca	Coa	Current	Original	kg	Grease	Oil
180	184	280	275	54	3	803	3717	81836	9836	13.4	680	900
200	203	250	247	37	1.1	278	1326	81140	9140	4.82	530	700
220	223	270	267	37	1.1	300	1530	81144	9144	4.50	500	670
	224	300	297	63	2	675	3015	81244	9244	13	360	480
	225	420	420	112	6	208	10080	89444	9009444	82	240	340
240	243	300	297	45	1.5	427	2205	81148	9148	7.25	430	560
	244	340	335	78	2.1	990	4410	81248	9248	22	300	400
	245	440	435	122	6	2160	10800	89448	9009448	88	280	380
260	263	320	317	45	1.5	440	2340	81152	9152	7.85	400	530
	264	360	355	79	2.1	1026	4770	81252	9252	24	280	380
	265	480	480	132	6	2560	12870	89452	9009452	114	200	300
280	283	350	347	53	1.5	6120	3195	81156	9156	10.5	360	480
	284	380	375	80	2	1044	4950	81256	9256	26	260	360
	285	520	520	145	5	3015	15570	89456	9009456	142	240	340
300	304	380	376	62	2	7650	3960	81160	9160	16.5	320	430

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mm						kN					r/min	
d	d _{1min}	D	D _{1max}	T	r _{min}	Ca	Coa	Current	Original	kg	Grease	Oil
300	304	420	415	95	3	1377	6480	81260	9260	40.5	220	320
	305	540	540	145	6	3105	16200	89460	9009460	153	200	320
320	324	400	396	63	2	792	4185	81164	9164	18	300	400
	325	440	435	95	3	1400	6750	81264	9264	42.5	200	300
340	344	420	416	64	2	810	4410	81168	9168	19.5	280	380
	345	460	455	96	3	1467	7200	81268	9268	47	200	300
360	363	440	437	48	2	612	3735	89172	9009172	15.5	300	400
	364	440	436	65	2	810	4410	81172	9172	19.5	280	380
	365	500	495	110	4	1940	93600	81272	9272	65.5	180	260
380	383	460	457	48	2	639	3960	89176	9009176	16.5	300	400
	384	460	456	65	2	837	4770	81176	9176	22	260	360
	385	520	515	112	4	1980	9720	81276	9276	70	180	260
400	403	480	477	48	2	661	4185	89180	9009180	17.5	300	400
	404	480	476	65	2	868	5040	81180	9180	23	260	360
	405	540	535	112	4	2010	10080	81280	9280	73	170	240
420	423	500	497	48	2	688	4410	89184	9009184	18	280	380
	424	500	495	65	2	882	5265	81184	9184	24	240	340
	425	580	575	130	5	2505	12600	81284	9284	95.5	160	220
440	443	540	537	60	2.1	936	5760	89188	9009188	30	220	320
	444	540	535	80	2.1	1430	8000	81188	9188	39.5	200	300
	445	600	595	130	5	2900	14600	81288	9288	110	160	220
460	463	560	557	60	2.1	972	6030	89192	9009192	31.5	220	320
	464	560	555	80	2.1	1314	7650	81192	9192	41	200	300
	465	620	615	130	5	2430	12060	81292	9292	118	150	200
480	483	580	577	60	2.1	990	6255	89196	9009196	32.5	220	320
	484	580	575	80	2.1	1310	7785	81196	9196	43	190	280
	485	650	645	135	5	3015	15300	81296	9296	128	150	200
500	503	600	597	60	2.1	1098	7335	891500	90091500	34	200	300
	505	600	595	80	2.1	1400	8370	811500	91500	44	190	280
	505	670	665	135	5	3400	17200	812500	92500	133	140	190
530	532	710	708	82	5	2280	17840	872/530	75492/530	96.6	220	290
	534	640	636	67	3	1233	7920	891/530	90091/530	44	190	280
	535	640	635	85	3	1557	9540	811/530	91/530	55.5	180	260
	535	710	705	140	5	3285	16740	812/530	92/530	154	130	180
560	564	670	666	67	3	1230	8235	891/560	90091/560	46.5	190	280
	565	670	665	85	3	1584	9990	811/560	91/560	58	180	260
	565	750	745	150	5	3900	20800	812/560	92/560	198	120	170

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mm						kN					r/min	
d	d _{1min}	D	D _{1max}	T	r _{min}	Ca	Coa	Current	Original	kg	Grease	Oil
600	602	860	860	125	6	3870	12980	817/600	5497/600	264	110	160
	604	710	706	67	3	1280	8685	891/600	90091/600	49.5	180	260
	605	710	705	85	3	1620	10400	811/600	91/600	62	170	240
	605	800	795	160	5	3960	21600	812/600	92/600	240	110	160
630	634	750	746	73	3	1467	10080	891/630	90091/630	62	170	240
	634	750	746	95	3	2160	13700	811/630	91/630	80	160	220
	638	850	842	175	6	4320	23400	812/630	92/630	295	95	140
670	672	900	900	103	6	3530	26503	872/670	75492/670	198	160	200
	675	800	795	78	4	1800	12060	891/670	90091/670	75.5	160	220
	675	800	795	105	4	2550	16300	811/670	91/670	110	150	200
	678	900	892	180	6	5130	27450	812/670	92/670	335	95	140
710	714	850	848	63	4	1440	13657	871/710	75491/710	79	240	300
	715	850	845	112	4	2610	16470	811/710	91/710	155	140	190
	718	950	942	190	6	5265	28800	812/710	92/710	395	90	130
800	805	950	945	90	4	2250	16200	891/800	90091/800	120	140	190
	805	950	945	120	4	3105	19800	811/800	91/800	165	120	170
	810	1060	1050	205	7.5	6615	36450	812/800	92/800	515	80	110
850	855	1000	995	67	4	1864	17480	871/850	75491/850	97.5	200	260
900	902	1180	1180	125	7.5	5300	50459	872/900	75492/900	386	100	130
	905	1060	1055	95	5	2745	19800	891/900	90091/900	150	120	170
	910	1180	1170	220	7.5	7650	44100	812/900	92/900	665	75	100
1060	1065	1250	1245	115	5	3730	27900	891/1060	90091/1060	260	90	130
	1066	1250	1244	150	5	4770	32850	811/1060	91/1060	225	90	130
	1065	1400	1400	155	9.5	8950	79388	872/1060	75492/1060	689	87	110
	1072	1400	1388	265	9.5	1080	63900	812/1060	92/1060	1150	80	110
1120	1125	1320	1315	122	5	4410	32850	891/1120	90091/1120	305	–	–
	1126	1320	1314	160	5	5400	37350	811/1120	91/1120	410	–	–
1200	1205	1660	1655	300	6	18720	114300	BGSB358235	–	2140	–	–
1280	1284	1400	1396	60	2.5	1530	17100	BGSB634152A	–	102	–	–