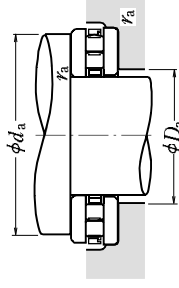
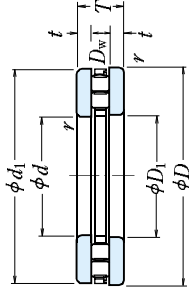


THRUST CYLINDRICAL ROLLER BEARINGS

Bore Diameter 35 – 130 mm



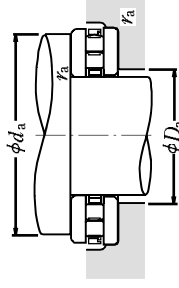
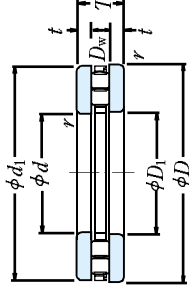
Boundary Dimensions (mm)			Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)	
d	D	T	C _a	C _{0a}	Grease	Oil
35	80	32	95 500	247 000	1 000	3 000
40	78	22	63 000	194 000	1 200	3 600
45	65	14	33 000	100 000	1 700	5 000
45	85	24	71 000	233 000	1 100	3 400
50	110	27	139 000	470 000	900	2 800
50	95	27	113 000	350 000	1 000	3 000
55	105	30	134 000	450 000	900	2 600
60	95	26	99 000	325 000	1 000	3 000
60	110	30	139 000	480 000	850	2 600
65	100	27	110 000	325 000	950	2 800
65	115	30	145 000	515 000	850	2 600
70	150	36	259 000	935 000	670	2 000
70	125	34	191 000	635 000	750	2 200
75	100	19	63 500	221 000	1 100	3 400
75	135	36	209 000	735 000	710	2 200
80	115	28	120 000	420 000	900	2 600
80	140	36	208 000	740 000	710	2 000
85	110	19	75 000	298 000	1 100	3 200
85	125	31	151 000	485 000	800	2 400
85	150	39	257 000	995 000	630	1 900
90	120	22	96 000	370 000	950	3 000
90	155	39	250 000	885 000	630	1 900
100	170	42	292 000	1 110 000	560	1 700
110	160	38	228 000	855 000	630	1 900
110	190	48	390 000	1 490 000	500	1 500
120	170	39	233 000	895 000	600	1 800
120	210	54	505 000	1 930 000	450	1 400
130	190	45	300 000	1 090 000	530	1 600
130	225	58	585 000	2 370 000	430	1 300
130	270	85	895 000	3 300 000	320	950

Bearing Numbers	d ₁	D ₁	D _w	t	d _a mm.	D _a mm.	r _a mm.	Mass (kg)
35 TMP 14	80	37	12	10	71	46	1	0.97
40 TMP 93	78	42	8	7	71	48	1	0.525
45 TMP 11	65	47	6	4	60	49	0.6	0.144
45 TMP 93	85	47	8	8	78	53	1	0.665
50 TMP 74	109	52	11	8	100	61	1	1.52
50 TMP 93	93	52	11	8	89	57	1	0.94
55 TMP 93	105	55.2	11	9.5	98	63	1	1.28
60 TMP 12	95	62	10	8	88	67	1	0.735
60 TMP 93	110	62	11	9.5	103	68	1	1.36
65 TMP 12	100	67	12.5	7.25	93	71	1	0.805
65 TMP 93	115	65.2	11	9.5	108	73	1	1.44
70 TMP 74	149	72	15	10.5	137	84	2	3.8
70 TMP 93	125	72	14	10	117	78	1	1.95
75 TMP 11	100	77	8	5.5	96	79	1	0.41
75 TMP 93	135	77	14	11	125	84	1.5	2.42
80 TMP 12	115	82	11	8.5	109	86	1	1.02
80 TMP 93	138	82	14	11	130	91	1.5	2.54
85 TMP 11	110	87	7.5	5.75	105	89	1	0.46
85 TMP 12	125	88	14	8.5	118	92	1	1.36
85 TMP 93	148	87	14	12.5	140	95	1.5	3.2
90 TMP 11	119	91.5	9	6.5	114	95	1	0.725
90 TMP 93	155	90.2	16	11.5	144	101	1.5	3.3
100 TMP 93	170	103	16	13	159	110	1.5	4.25
110 TMP 12	160	113	15	11.5	150	119	1	2.66
110 TMP 93	190	113	19	14.5	179	120	2	6.15
120 TMP 12	170	123	15	12	160	129	1	2.93
120 TMP 93	210	123	22	16	199	129	2	8.55
130 TMP 12	187	133	19	13	177	142	1.5	4.5
130 TMP 93	225	133	22	18	214	140	2	10.4
130 TMP 94	270	133	32	26.5	254	150	3	26.2

Remarks For cylindrical roller thrust bearings not listed above, please contact NSK.

THRUST CYLINDRICAL ROLLER BEARINGS

Bore Diameter 140 – 320 mm



Boundary Dimensions (mm)			Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)	
d	D	T	C _a	C _{0a}	Grease	Oil
140	200	46	285 000	1 120 000	500	1 500
	240	60	610 000	2 360 000	400	1 200
	280	85	990 000	3 800 000	300	900
150	215	50	375 000	1 500 000	480	1 400
	250	60	635 000	2 510 000	400	1 200
160	200	31	173 000	815 000	630	1 900
	270	67	745 000	3 150 000	360	1 100
170	240	55	485 000	1 960 000	430	1 300
	280	67	800 000	3 500 000	340	1 000
180	300	73	1 000 000	4 000 000	320	950
	360	109	1 640 000	6 200 000	240	710
190	270	62	705 000	2 630 000	360	1 100
	320	78	1 080 000	4 500 000	300	900
200	250	37	365 000	1 690 000	500	1 500
	340	85	1 180 000	5 150 000	280	800
220	270	37	385 000	1 860 000	480	1 500
	300	63	770 000	3 100 000	340	1 000
240	300	45	435 000	2 160 000	400	1 200
	340	78	965 000	4 100 000	280	850
260	320	45	460 000	2 350 000	400	1 200
	360	79	995 000	4 350 000	280	850
280	350	53	545 000	2 800 000	340	1 000
	380	80	1 050 000	4 750 000	260	800
300	380	62	795 000	4 000 000	300	900
	420	95	1 390 000	6 250 000	220	670
320	400	63	820 000	4 250 000	300	900
	440	95	1 420 000	6 550 000	220	670

Bearing Numbers	Dimensions (mm)				Abutment and Fillet Dimensions (mm)			Mass (kg)
	d ₁	D ₁	D _w	t	d _a min.	D _a max.	r _a max.	
140 TMP 12 140 TMP 93 140 TMP 94	197	143	17	14.5	188	153	2	4.85
	240	143	25	17.5	226	154	2	12.2
	280	143	32	26.5	262	158	3	27.5
150 TMP 12 150 TMP 93	215	153	19	15.5	202	163	2	6.15
	250	153	25	17.5	236	165	2	12.8
160 TMP 11 160 TMP 93	200	162	11	10	191	168	1	2.21
	265	164	25	21	255	173	2.5	16.9
170 TMP 12 170 TMP 93	237	173	22	16.5	227	182	1.5	8.2
	280	173	25	21	265	183	2.5	17.7
180 TMP 93 180 TMP 94	300	185	32	20.5	284	194	2.5	22.5
	354	189	45	32	335	205	4	58.2
190 TMP 12 190 TMP 93	266	195	30	16	255	200	2.5	11.8
	320	195	32	23	303	205	3	27.6
200 TMP 11 200 TMP 93	247	203	17	10	242	207	1	4.1
	340	205	32	26.5	322	218	3	34.5
220 TMP 11 220 TMP 12	267	223	17	10	262	227	1	4.5
	297	224	30	16.5	287	232	2	13.5
240 TMP 11 240 TMP 12	297	243	18	13.5	288	251	1.5	7.2
	335	244	32	23	322	258	2	23.3
260 TMP 11 260 TMP 12	317	263	18	13.5	308	272	1.5	7.75
	355	264	32	23.5	342	276	2	26.2
280 TMP 11 280 TMP 12	347	283	20	16.5	335	294	1.5	11.6
	375	284	32	24	362	296	2	27.2
300 TMP 11 300 TMP 12	376	304	25	18.5	365	315	2	16.7
	415	304	38	28.5	398	322	2.5	42
320 TMP 11 320 TMP 12	396	324	25	19	385	335	2	18
	435	325	38	28.5	418	340	2.5	44.5

Remarks For cylindrical roller thrust bearings not listed above, please contact NSK.