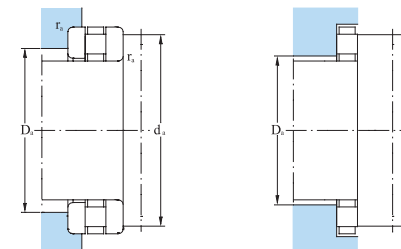
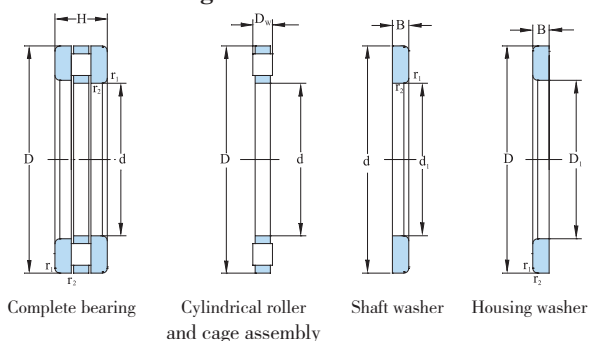


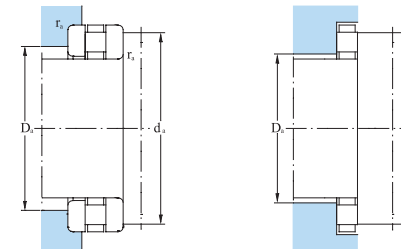
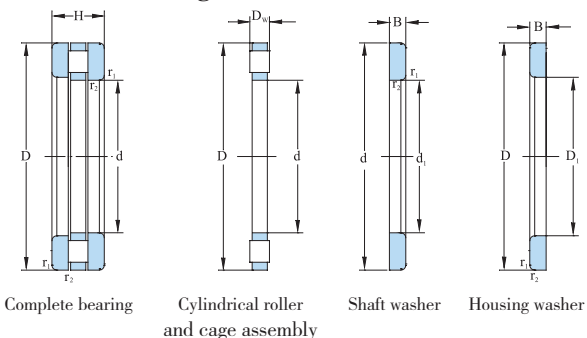
Cylindrical roller thrust bearings



Bearing designations				Boundary dimensions							
Complete bearing	Roller and cage assembly	Shaft washer	Housing washer	d	D	T	d ₁	D ₁	Dw	B	r _{1,2min}
mm											
81102	K81102	WS81102	GS81102	15	28	9	28	16	3.5	2.75	0.3
81103	K81103	WS81103	GS81103	17	30	9	30	18	3.5	2.75	0.3
81104	K81104	WS81104	GS81104	20	35	10	35	21	4.5	2.75	0.3
81105	K81105	WS81105	GS81105	25	42	11	42	26	5	3	0.6
81106	K81106	WS81106	GS81106	30	47	11	47	32	5	3	0.6
81206	K81206	WS81206	GS81206		52	16	52	32	7.5	4.25	0.6
81107	K81107	WS81107	GS81107	35	52	12	52	37	5	3.5	0.6
81207	K81207	WS81207	GS81207		62	18	62	37	7.5	5.25	1
81108	K81108	WS81108	GS81108	40	60	13	60	42	6	3.5	0.6
81208	K81208	WS81208	GS81208		68	19	68	42	9	5	1
81109	K81109	WS81109	GS81109	45	65	14	65	47	6	4	0.6
81209	K81209	WS81209	GS81209		73	20	73	47	9	5.5	1
81110	K81110	WS81110	GS81110	50	70	14	70	52	6	4	0.6
81210	K81210	WS81210	GS81210		78	22	78	52	9	6.5	1
81111	K81111	WS81111	GS81111	55	78	16	78	57	6	5	0.6
81211	K81211	WS81211	GS81211		90	25	90	57	11	7	1
81112	K81112	WS81112	GS81112	60	85	17	85	62	7.5	4.75	1
81212	K81212	WS81212	GS81212		95	26	95	62	11	7.5	1
81113	K81113	WS81113	GS81113	65	90	18	90	67	7.5	5.25	1
81213	K81213	WS81213	GS81213		100	27	100	67	11	8	1
81114	K81114	WS81114	GS81114	70	95	18	95	72	7.5	5.25	1
81214	K81214	WS81214	GS81214		105	27	105	72	11	8	1
81115	K81115	WS81115	GS81115	75	100	19	100	77	7.5	5.75	1
81215	K81215	WS81215	GS81215		110	27	110	77	11	8	1
81116	K81116	WS81116	GS81116	80	105	19	105	82	7.5	5.75	1
81216	K81216	WS81216	GS81216		115	28	115	82	11	8.5	1
81117	K81117	WS81117	GS81117	85	110	19	110	87	7.5	5.75	1
81217	K81217	WS81217	GS81217		125	31	125	88	12	9.5	1
81118	K81118	WS81118	GS81118	90	120	22	120	92	9	6.5	1
81218	K81218	WS81218	GS81218		135	35	135	93	14	10.5	1.1
81120	K81120	WS81120	GS81120	100	135	25	135	102	11	7	1
81220	K81220	WS81220	GS81220		150	38	150	103	15	11.5	1.1

Basic load ratings		Minimum Load factor A	Limiting speeds		Abutment and fillet dimensions			Mass
Ca	Coa		grease	oil	d _a min	D _a max	r _a max	
kN			r/min		mm			kg
11.2	27	0.058	3200	4300	27	16	0.3	0.024
11.6	29	0.067	3200	4300	29	18	0.3	0.027
17.6	44	0.15	2800	3800	34	21	0.3	0.037
24	65.5	0.34	2200	3200	41	26	0.6	0.053
24.5	69.5	0.39	2000	3000	46	32	0.6	0.057
50	134	1.4	1700	2400	50	32	0.6	0.12
27	83	0.55	1900	2800	51	37	0.6	0.073
62	190	2.9	1500	2000	58	39	1	0.2
38	118	1.1	1700	2400	58	42	0.6	0.11
83	255	5.2	1400	1900	66	43	1	0.25
40.5	132	1.4	1600	2200	63	47	0.6	0.13
86.5	270	5.8	1300	1800	70	48	1	0.3
42.5	146	1.7	1600	2200	68	52	0.6	0.14
91.5	300	7.2	1200	1700	75	53	1	0.36
69.5	285	6.5	1400	1900	77	57	1	0.22
116	365	11	950	1400	85	59	1	0.57
80	300	7.2	1300	1800	82	62	1	0.27
137	465	17	950	1400	91	64	1	0.64
83	320	8.2	1200	1700	87	67	1	0.31
140	490	19	900	1300	96	69	1	0.72
86.5	345	9.5	1200	1700	92	72	1	0.33
146	530	22	900	1300	102	74	1	0.77
75	290	6.7	1100	1600	97	78	1	0.38
125	440	15	850	1200	106	79	1	0.81
76.5	300	7.2	1000	1500	102	83	1	0.4
160	610	30	850	1200	112	84	1	0.9
76.5	310	7.7	1000	1500	108	87	1	0.42
153	550	24	800	1100	119	90	1	1.3
104	415	14	900	1300	117	93	1	0.64
232	865	60	750	1000	129	95	1	1.75
146	585	27	850	1200	131	104	1	1
224	830	55	670	900	142	107	1	2.2

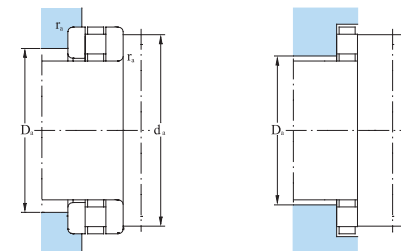
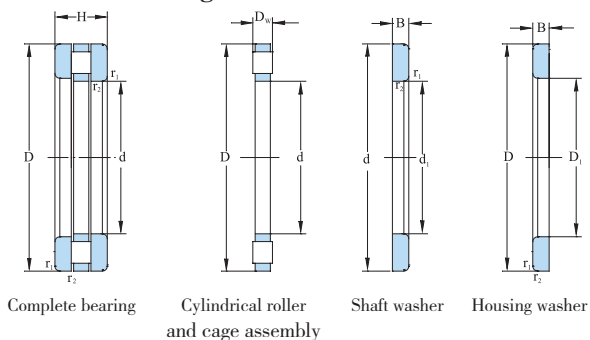
Cylindrical roller thrust bearings



Bearing designations				Boundary dimensions							
Complete bearing	Roller and cage assembly	Shaft washer	Housing washer	d	D	T	d ₁	D ₁	Dw	B	r _{1,2} min
mm											
81122	K81122	WS81122	GS81122	110	145	25	145	112	11	7	1
81222	K81222	WS81222	GS81222		160	38	160	113	15	11.5	1.1
81124	K81124	WS81124	GS81124	120	155	25	155	122	11	7	1
81224	K81224	WS81224	GS81224		170	39	170	123	15	12	1.1
81126	K81126	WS81126	GS81126	130	170	30	170	132	12	9	1
81226	K81226	WS81226	GS81226		190	45	187	133	19	13	1.5
81128	K81128	WS81128	GS81128	140	180	31	178	142	12	9.5	1
81228	K81228	WS81228	GS81228		200	46	197	143	19	13.5	1.5
81130	K81130	WS81130	GS81130	150	190	31	188	152	12	9.5	1
81230	K81230	WS81230	GS81230		215	50	212	153	21	14.5	1.5
81132	K81132	WS81132	GS81132	160	200	31	198	162	12	9.5	1
81232	K81232	WS81232	GS81232		225	51	222	163	21	15	1.5
81134	K81134	WS81134	GS81134	170	215	34	213	172	14	10	1.1
81234	K81234	WS81234	GS81234		240	55	237	173	22	16.5	1.5
81136	K81136	WS81136	GS81136	180	225	34	222	183	14	10	1.1
81236	K81236	WS81236	GS81236		250	56	247	183	22	17	1.5
81138	K81138	WS81138	GS81138	190	240	37	237	193	15	11	1.1
81238	K81238	WS81238	GS81238		270	62	267	194	26	18	2
81140	K81140	WS81140	GS81140	200	250	37	247	203	15	11	1.1
81240	K81240	WS81240	GS81240		280	62	277	204	26	18	2
81144	K81144	WS81144	GS81144	220	270	37	267	223	15	11	1.1
81244	K81244	WS81244	GS81244		300	63	297	224	26	18.5	2
81148	K81148	WS81148	GS81148	240	300	45	297	243	18	13.5	1.5
81248	K81248	WS81248	GS81248		340	78	335	244	32	23	2.1
81152	K81152	WS81152	GS81152	260	320	45	317	263	18	13.5	1.5
81252	K81252	WS81252	GS81252		360	79	355	264	32	23.5	2.1
81156	K81156	WS81156	GS81156	280	350	53	347	283	22	15.5	1.5
81256	K81256	WS81256	GS81256		380	80	375	284	32	24	2.1
81160	K81160	WS81160	GS81160	300	380	62	376	304	25	18.5	2
81260	K81260	WS81260	GS81260		420	95	415	304	38	28.5	3
81164	K81164	WS81164	GS81164	320	400	63	396	324	25	19	2
81264	K81264	WS81264	GS81264		440	95	435	325	38	28.5	3

Basic load ratings		Minimum Load factor A	Limiting speeds		Abutment and fillet dimensions			Mass
Ca	Coa		grease	oil	d _a min	D _a max	r _a max	
kN			r/min		mm			kg
153	630	32	800	1100	141	114	1	1.1
240	915	67	630	850	152	117	1	2.45
160	680	37	800	1100	151	124	1	1.15
245	965	74	600	800	162	127	1	2.7
183	780	49	700	950	165	135	1	1.7
335	1250	130	530	700	181	137	1.5	4.2
193	850	58	670	900	175	145	1	1.95
360	1400	160	530	700	191	147	1.5	4.55
200	900	65	630	850	185	155	1	2.05
465	1900	290	480	630	211	158	1.5	5.9
204	965	74	630	850	195	165	1	2.2
480	2000	320	450	600	220	168	1.5	6.2
260	1180	110	600	800	209	176	1	2.95
540	2280	420	430	560	235	180	1.5	7.7
270	1270	130	560	750	219	185	1	3.05
550	2400	460	430	560	245	190	1.5	8.25
310	1460	170	530	700	233	197	1	3.85
695	2900	670	380	500	265	200	1.8	10.5
310	1500	180	530	700	243	206	1	4
720	3100	770	380	500	275	210	2	12
335	1700	230	500	670	263	226	1	1.5
750	3350	900	360	480	296	230	2	13
475	2450	480	430	560	296	248	1.5	7.25
11000	4900	4900	300	400	335	261	2	22
490	2600	540	400	530	316	268	1.5	7.85
1140	5300	2200	280	380	353	280	2	24
680	3550	1000	360	480	346	288	1.5	10.5
1160	5500	2400	260	360	373	300	2	26
850	4400	1500	320	430	373	315	2	16.5
1530	7200	4100	220	320	413	328	2.5	40.5
880	4650	1700	300	400	394	334	2	18
1560	7500	4500	200	300	434	348	2.5	42.5

Cylindrical roller thrust bearings



Bearing designations				Boundary dimensions							
Complete bearing	Roller and cage assembly	Shaft washer	Housing washer	d	D	T	d ₁	D ₁	Dw	B	r _{1,2} min
				mm							
81168	K81168	WS81168	GS81168	340	420	64	416	344	25	19.5	2
81268	K81268	WS81268	GS81268		460	96	455	345	38	29	3
81172	K81172	WS81172	GS81172	360	440	65	436	364	25	20	2
81272	K81272	WS81272	GS81272		500	110	495	365	45	32.5	4
81176	K81176	WS81176	GS81176	380	460	65	456	384	25	20	2
81276	K81276	WS81276	GS81276		520	112	515	385	45	33.5	4
81180	K81180	WS81180	GS81180	400	480	65	476	404	25	20	2
81280	K81280	WS81280	GS81280		540	112	535	405	45	33.5	4
81184	K81184	WS81184	GS81184	420	500	65	495	424	25	20	2
81284	K81284	WS81284	GS81284		580	130	575	425	52	39	5
81188	K81188	WS81188	GS81188	440	540	80	535	444	32	24	2.1
81288	K81288	WS81288	GS81288		600	130	595	445	52	39	5
81192	K81192	WS81192	GS81192	460	560	80	555	464	32	24	2.1
81292	K81292	WS81292	GS81292		620	130	615	465	52	39	5
81196	K81196	WS81196	GS81196	480	580	80	575	484	32	24	2.1
81296	K81296	WS81296	GS81296		650	135	645	485	56	39.5	5
811/500	K811/500	WS811/500	GS811/500	500	600	80	595	505	32	24	2.1
812/500	K812/500	WS812/500	GS812/500		670	135	665	505	56	39.5	5
811/530	K811/530	WS811/530	GS811/530	530	640	85	635	535	34	25.5	2.5
812/530	K812/530	WS812/530	GS812/530		710	140	705	535	60	40	4
811/560	K811/560	WS811/560	GS811/560	560	670	85	665	565	34	25.5	2.5
812/560	K812/560	WS812/560	GS812/560		750	150	745	565	60	45	4
811/600	K811/600	WS811/600	GS811/600	600	710	85	705	605	34	25.5	2.5
812/600	K812/600	WS812/600	GS812/600		800	160	795	605	64	48	4

Basic load ratings		Minimum Load factor A	Limiting speeds		Abutment and fillet dimensions			Mass
Ca	Coa		grease	oil	d _a min	D _a max	r _a max	
kN			r/min		mm			kg
900	4900	1900	280	380	414	354	2	19.5
1630	8000	5100	200	300	452	367	2.5	47
915	5000	2000	280	380	434	374	2	19.5
2160	10400	8700	180	260	492	393	3	65.5
930	5300	2200	260	360	453	393	2	22
2200	10800	9300	180	260	511	413	3	70
965	5600	2500	260	360	473	413	2	23
2240	11200	10000	170	240	531	433	3	73
980	5850	2700	240	340	493	433	2	24
2850	14000	16000	160	220	571	459	4	95.5
1430	8000	5100	200	300	533	459	2	39.5
2900	14600	17000	160	220	591	479	4	110
1460	8500	5800	200	300	553	479	2	41
3000	15300	19000	150	200	611	499	4	118
1460	8650	6000	190	280	573	500	2	43
3350	17000	23000	150	200	641	520	4	128
1530	9150	6700	190	280	592	519	2	44
3400	17600	25000	140	190	661	540	4	133
1700	10400	8700	180	260	632	554	2.5	55.5
3800	20000	32000	130	180	701	572	4	154
1760	10800	9300	180	260	662	584	2.5	58
3900	20800	35000	120	170	741	611	4	187
1760	11200	10000	170	240	702	624	2.5	62
4400	24000	46000	110	160	789	651	4	24