

Thrust Cylindrical Roller Bearings

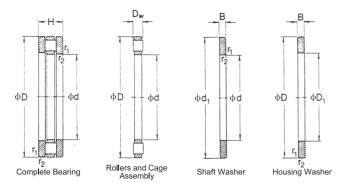
Thrust cylindrical roller bearings are applicable to applications with heavy axial load from one direction, where thrust ball bearings have insufficient load capacity.

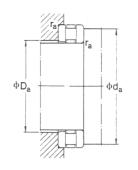
Thrust cylindrical roller bearings strong rigidity and only require limited axial space, and resistant to shock load.

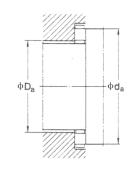
The cylindrical surface of the rollers become slightly tapered at the end of the roller. Such design almost completely eliminates any possible damaging edge stresses.



d: 15 ~ 80 mm







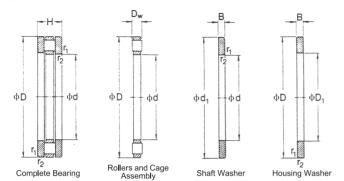
	Principal Dim (mm)	ensions	Basic Loa (N	d Ratings I)	Limiting (rp		Weight	Bearing	Principal Dimensions (mm)					Abutmen	t and Fi	llet Dime	ensions	Roller and	Shaft Washer	Housing
d	D	Н	Dynamic Cr	Static Cor	Grease	Oil	(kg)	Designations	d	d ₁	D ₁	D_{w}	В	r ₁ r ₂ (min)	d _a (min)	D _a (max)	r _a (max)	Cage Assembly	cage Assembly	Washer
15	28	9	11200	12000	3200	4300	0.024	81102	15	28	16	3.5	2.75	0.3	27	16	0.3	K81102	WS81102	GS81102
_17	30	9	11600	12900	3200	4300	0.027	81103	 17	30	18	3.5	2.75	0.3	29	18	0.3	K81103	WS81103	GS81103
20	35	10	17600	19600	2800	3800	0.037	81104	20	35	21	4.5	2.75	0.3	34	21	0.3	K81104	WS81104	GS81104
25	42	11	24000	29000	2200	3200	0.053	81105	25	42	26	5	3	0.6	41	26	0.6	K81105	WS81105	GS81105
30	47	11	24500	31000	2000	3000	0.057	81106	30	47	32	5	3	0.6	46	31	0.6	K81106	WS81106	GS81106
	52	16	50000	58500	1700	2400	0.12	81206	 	52	32	7.5	4.25	0.6	50	31	0.6	K81206	WS81206	GS81206
35	52	12	27000	37500	1900	2800	0.073	81107	35	52	37	5	3.5	0.6	51	36	0.6	K81107	WS81107	GS81107
	62	18	62000	83000	1500	2000	0.20	81207		62	37	7.5	5.25	1	58	39	1	K81207	WS81207	GS81207
40	60	13	38000	52000	1700	2400	0.11	81108	40	60	42	6	3.5	0.6	58	42	0.6	K81108	WS81108	GS81108
	68	19	83000	112000	1400	1900	0.25	81208	40	68	42	9	5	1	66	43	1	K81208	WS81208	GS81208
45	65	14	40500	58500	1600	2200	0.13	81109	45	65	47	6	4	0.6	63	47	0.6	K81109	WS81109	GS81109
	73	20	8650	120000	1300	1800	0.30	81209	40	73	47	9	5.5	1	70	48	1	K81209	WS81209	GS81209
50	70	14	42500	64000	1600	2200	0.14	81110	50	70	52	6	4	0.6	68	52	0.6	K81110	WS81110	GS81110
	78	22	91500	134000	1200	1700	0.36	81210	30	78	52	9	6.5	1	75	53	1	K81210	WS81210	GS81210
55	78	16	69500	127000	1400	1900	0.22	81111	55	78	57	6	5	0.6	77	56	0.6	K81111	WS81111	GS81111
	90	25	116000	163000	950	1400	0.57	81211	 33	90	57	11	7	1	85	59	1	K81211	WS81211	GS81211
60	85	17	80000	134000	1300	1800	0.27	81112	60	85	62	7.5	4.75	1	82	62	1	K81112	WS81112	GS81112
	95	26	137000	204000	950	1400	0.64	81212	00	95	62	11	7.5	1	91	64	1	K81212	WS81212	GS81212
65	90	18	83000	143000	1200	1700	0.31	81113	0.5	90	67	7.5	5.25	1	87	67	1	K81113	WS81113	GS81113
	100	27	140000	216000	900	1300	0.72	81213	65	100	67	11	8	1	96	69	1	K81213	WS81213	GS81213
70	95	18	86500	153000	1200	1700	0.33	81114	70	95	72	7.5	5.25	1	92	72	1	K81114	WS81114	GS81114
7.0	105	27	146000	236000	900	1300	0.77	81214	70	105	72	11	8	1	102	74	1	K81214	WS81214	GS81214
75	100	19	75000	129000	1100	1600	0.38	81115	75	100	77	7.5	5.75	1	97	78	1	K81115	WS81115	GS81115
-75	110	27	125000	193000	850	1200	0.81	81215	, ,	110	77	11	8	1	106	79	1	K81215	WS81215	GS81215
	105	19	76500	134000	1000	1500	0.40	81116	80	105	82	7.5	5.75	1	102	83	1	K81116	WS81116	GS81116
80	115	28	160000	270000	850	1200	0.90	81216	60	115	82	11	8.5	1	112	84	1	K81216	WS81216	GS81216

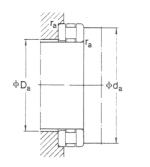


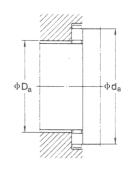
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d: 85 ~ 220 mm





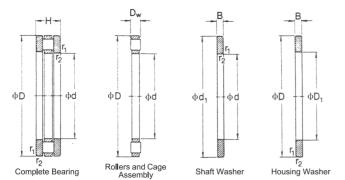


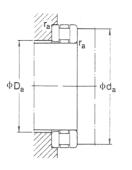
	Principal Di (mn		Basic Load Ratings (N)				Weight	Bearing		Principal Dimensions (mm)				Abutmen	t and Fi	llet Dime	ensions	Roller and	Shaft Washer	Housing
d	D	Н	Dynamic Cr	Static Cor	Grease	Oil	(kg)	Designations	d	d ₁	D ₁	$D_{\rm w}$	В	r ₁ r ₂ (min)	d _a (min)	D _a (max)	r _a (max)	Cage Assembly	Silait Wasilei	Washer
85	110	19	76500	137000	1000	1500	0.42	81117	85	110	87	7.5	5.75	1	108	87	1	K81117	WS81117	GS81117
	125	31	153000	245000	800	1100	1.30	81217		125	88	12	9.5	1	119	90	11	K81217	WS81217	GS81217
90	120	22	104000	183000	900	1300	0.64	81118	90	120	92	9	6.5	1	117	93	1	K81118	WS81118	GS81118
	135	35	232000	390000	750	1000	1.75	81218		135	93	14	10.5	1.1	129	95	1.1	K81218	WS81218	GS81218
100	135	25	146000	260000	850	1200	1.00	81120	100	135	102	11	7	1	131	104	1	K81120	WS81120	GS81120
	150	38	224000	385000	670	900	2.20	81220		150	103	15	11.5	1.1	142	107	1.1	K81220	WS81220	GS81220
110		25	153000	280000	800	1100	1.10	81122	110	145	112	11	7	1	141	114	1	K81122	WS81122	GS81122
	160	38	240000	405000	630	850	2.45	81222		160	113	15	11.5	1.1	152	117	1.1	K81222	WS81222	GS81222
120	155	25	160000	300000	800	1100	1.15	81124	120	155	122	11	7	1	151	124	1	K81124	WS81124	GS81124
	170	39	245000	425000	600	800	2.70	81224		170	123	15	12	1.1	162	127	1.1	K81224	WS81224	GS81224
130		30	183000	345000	700	950	1.70	81126	130	170	132	12	9	1	165	135	1	K81126	WS81126	GS81126
	190	45	335000	560000	530	700	4.20	81226		187	133	19	13	1.5	181	137	1.5	K81226	WS81226	GS81226
140		31	193000	375000	670	900	1.95	81128	140	178	142	12	9.5	1	175	145	1	K81128	WS81128	GS81128
	200	46	360000	620000	530	700	4.55	81228		197	143	19	13.5	1.5	191	147	1.5	K81228	WS81228	GS81228
150	190	31	200000	400000	630	850	2.05	81130	150	188	152	12	9.5	1	185	155	1	K81130	WS81130	GS81130
	215	50	465000	830000	480	630	5.90	81230		212	153	21	14.5	1.5	211	158	1.5	K81230	WS81230	GS81230
160	200	31	204000	425000	630	850	2.20	81132	160	198	162	12	9.5	1	195	165	1	K81132	WS81132	GS81132
	225	51	480000	880000	450	600	6.20	81232		220	163	21	15	1.5	220	168	1.5	K81232	WS81232	GS81232
170	215	34	260000	530000	600	800	2.95	81134	170	213	172	14	10	1.1	209	176	1.1	K81134	WS81134	GS81134
	240	55	540000	1020000	430	560	7.70	81234		237	173	22	16.5	1.5	235	180	1.5	K81234	WS81234	GS81234
180	225	34	270000	560000	560	750	3.05	81136	180	222	183	14	10	1.1	219	185	1.1	K81136	WS81136	GS81136
	250	56	550000	1060000	430	560	8.25	81236		247	183	22	17	1.5	245	190	1.5	K81236	WS81236	GS81236
190	240	37	310000	655000	530	700	3.85	81138	190	237	193	15	11	1.1	233	197	1.1	K81138	WS81138	GS81138
	270	62	695000	1320000	380	500	10.5	81238		267	194	26	18	2	265	200	2	K81238	WS81238	GS81238
200	250	37	310000	670000	530	700	4.00	81140	200	250	203	15	11	1.1	243	206	1.1	K81140	WS81140	GS81140
	280	62	720000	1370000	380	500	12.0	81240	200	277	204	26	18	2	275	210	2	K81240	WS81240	GS81240
	270	37	335000	750000	500	670	4.50	81144		267	223	15	11	1.1	263	226	1.1	K81144	WS81144	GS81144
220	300	63	750000	1500000	360	480	13.0	81244	220	297	224	26	18.5	2	296	230	2	K81244	WS81244	GS81244

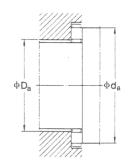




d: 240 ~ 500 mm







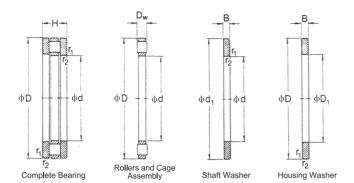
260 280 300	300 340 320 360 350 380 380 420	H 45 78 45 79 53 80 62	Dynamic Cr 475000 1100000 490000 1140000 680000 1160000	Static Cor 1080000 2160000 1140000 2360000 1600000	Grease 430 300 400 280	Oil 560 400 530	Weight (kg) 7.25 22.0	Bearing Designations 81148	d	d.	D ₁	$D_{\rm w}$	В	r ₁ r ₂ (min)	d _a (min)	D _a	- 4	Cage Assembly	Shaft Washer	Washer
260 280 300	340 320 360 350 380 380	78 45 79 53 80	1100000 490000 1140000 680000	2160000 1140000 2360000	300 400	400	22.0	81148						(111111)	(111111)	(max)	(max)	′	Silait Wasilei	Washer
260 280 300	320 360 350 380 380	45 79 53 80	490000 1140000 680000	1140000 2360000	400				240	29	243	18	13.5	1.5	296	248	1.5	K81148	WS81148	GS81148
280	360 350 380 380	79 53 80	1140000 680000	2360000		530		81248		33	244	32	23	2.1	335	261	2.1	K81248	WS81248	GS81248
280	350 380 380	53 80	680000		280		7.85	81152	260	31	263	18	13.5	1.5	316	268	1.5	K81152	WS81152	GS81152
300	380 380	80		1600000		380	24.0	81252		35	264	32	23.5	2.1	353	280	2.1	K81252	WS81252	GS81252
300	380		1160000		360	480	10.5	81156	280	34	283	22	15.5	1.5	346	288	1.5	K81156	WS81156	GS81156
300		62		2450000	280	360	26.0	81256	200	37	284	32	24	2.1	373	300	2.1	K81256	WS81256	GS81256
	420	02	850000	1960000	320	430	16.5	81160	300	370	304	25	18.5	2	373	315	2	K81160	WS81160	GS81160
		95	1530000	3200000	220	320	40.5	81260		41	304	38	28.5	3	413	328	3	K81260	WS81260	GS81260
320	400	63	880000	2080000	300	400	18.0	81164	320	390	324	25	19	2	394	334	2	K81164	WS81164	GS81164
320	440	95	1560000	3350000	200	300	42.5	81264	320	43	325	38	28.5	3	434	348	2.5	K81264	WS81264	GS81264
340	420	64	900000	2200000	280	380	19.5	81168	340	410	344	25	19.5	2	414	354	2	K81168	WS81168	GS81168
	460	96	1630000	3600000	200	300	47.0	81268		45	345	38	29	3	452	367	2.5	K81268	WS81268	GS81268
360	440	65	915000	2240000	280	380	19.5	81172	360	430	364	25	20	2	434	374	2	K81172	WS81172	GS81172
	500	110	2160000	4650000	180	260	65.5	81272	555	49	365	45	32.5	4	492	393	3	K81272	WS81272	GS81272
380	460	65	930000	2360000	260	360	22.0	81176	380	450	384	25	20	2	453	393	2	K71176	WS71176	GS71176
300	520	112	2200000	4800000	180	260	70.0	81276	300	51	385	45	33.5	4	511	413	3	K81276	WS81276	GS81276
400	480	65	965000	2450000	260	360	23.0	81180	400	470	404	25	20	2	473	413	2	K81180	WS81180	GS81180
400	540	112	2240000	5000000	170	240	73.0	81280	400	53	405	45	33.5	4	531	433	3	K81280	WS81280	GS81280
420	500	65	980000	2600000	240	340	24.0	81181	420	49	424	25	20	2	493	433	2	K81184	WS81184	GS81184
420	580	130	2850000	6200000	160	220	95.5	81284	420	57	425	52	39	5	571	459	4	K81284	WS81284	GS81284
440	540	80	1430000	3600000	200	300	39.5	81188	440	53	444	32	24	2.1	533	459	2	K81188	WS81188	GS81188
	600	130	2900000	6550000	160	220	110	81288	440	59	445	52	39	5	591	479	4	K81288	WS81288	GS81288
460	560	80	1460000	3750000	200	300	41.0	81192	460	55	464	32	24	2.1	553	479	2	K81192	WS81192	GS81192
400	620	130	3000000	6700000	150	200	118	81292	400	61	465	52	39	5	611	499	4	K81292	WS81292	GS81292
400	580	80	1460000	3900000	190	280	43.0	81196	400	57	484	32	24	2.1	573	500	2	K81196	WS81196	GS81196
480	650	135	3350000	7500000	150	200	128	81296	480	64	485	56	39.5	2	641	520	4	K81296	WS81296	GS81296
500	600	80	1530000	4050000	190	280	44.0	811/500	500	59	505	32	24	2.1	592	519	2	K811/500	WS811/500	GS811/500
500	670	135	3400000	7800000	140	190	133	812/500	500	66	5 505	56	39.5	5	661	540	4	K812/500	WS812/500	GS812/500

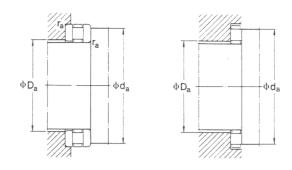


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d: 530 ~ 600 mm





	Principal Dimensions (mm)		Basic Load Ratings (N)		Limiting Speed (rpm)		Weight	Bearing			Principal Dimensions (mm)					Abutment and Fillet Dimensions				Shaft Washer	Housing Washer	
	d	D	Н	Dynamic Cr	Static Cor	Grease	Oil	(kg)	Designations		d	d ₁	D ₁	D_{w}	В	r ₁ r ₂ (min)	d _a (min)	D _a (max)	r _a (max)	Cage Assembly	Silait Wasilei	Washer
5	30	640	85	1700000	4550000	180	260	55.5	811/530		530	635	535	34	25.5	3	632	554	2.5	K811/530	WS811/530	GS811/530
330	30	710	140	3800000	9000000	130	180	154	812/530		330	705	535	60	40	5	701	572	4	K812/530	WS812/530	GS812/530
-	60	670	85	1760000	4800000	180	260	58.0	811/560		560	665	565	34	25.5	3	662	584	2.5	K811/560	WS811/560	GS811/560
300	00	750	150	3900000	9300000	120	170	187	812560		500	745	565	60	45	5	741	611	4	K812/560	WS812/560	GS812/560
-	00	710	85	1760000	5000000	170	240	62.0	811/600		600	705	605	34	25.5	3	702	624	2.5	K811/600	WS811/600	GS811/600
600	00	800	160	4400000	10600000	110	160	240	811/600		600		605	64	48	5	789	651	4	K811/600	WS811/600	GS811/600



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