

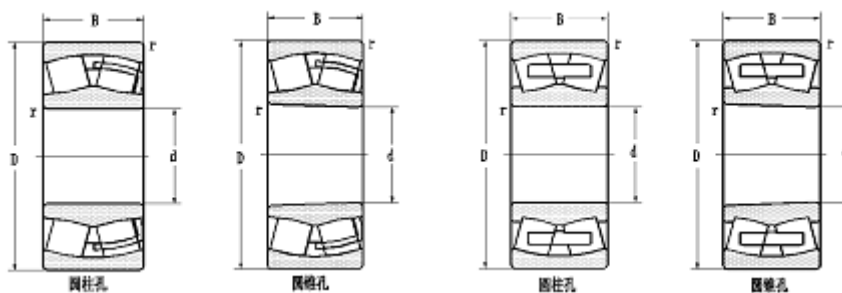
SPHERICAL ROLLER BEARINGS

Spherical roller bearing can bear heavy load, it has two row rollers, one common spherical raceway in outer ring, two raceway in the inner ring which inclined to a certain angle relative to the center line of axis, the bearing can be automatically self-aligning. when the bearing bent by the force or its installation of different mind, the bearing can still be normal use. Such bearing can withstand both radial load and bi-directional axial load, the fight ability is better. Generally, spherical roller bearing permit the work of low speed.

Spherical roller bearing can be **classified** into symmetrical and non-symmetrical roller bearing in structure according to the section's shape of roller. non-symmetrical spherical roller bearing are the earlier products, by comprehensive design and parameter optimization of the internal structure, symmetrical spherical roller bearing can bear larger axial load compared to the earlier spherical roller bearing, its working temperature is lower, suitable for the high speed occasion. **according to whether the inner rings have ribs and what the cage are adopted, cages can be classified into C type and CA type. C type is without ribs on inner ring and using pressed steel plate cage, CA type is with ribs on both side of inner ring and using machined solid cage.**

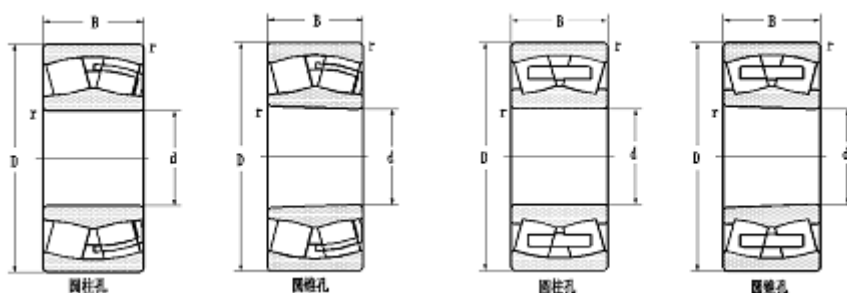
In order to **replace** bearings and improve lubrication with convenience, our company can supply the users with spherical **roller bearing with tapered bore**, generally the taper is 1:20, and 1:30 is a special requirements, its **suffix code** respectively express by K and K30; the suffix code of spherical roller bearing with ring tank and three grease holes is expressed by /W33. we can also supplied customers with **Adapter, Withdrawal Sleeves** as well as spherical roller bearing with tank and grease holes **in** inner ring.

SPHERICAL ROLLER BEARINGS d140-160mm



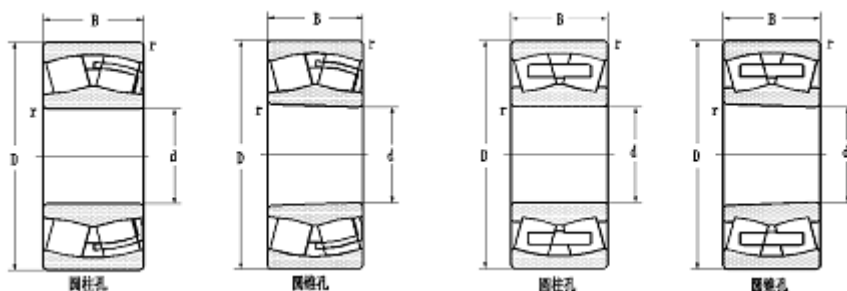
Principle dimensions	Basic load ratings		Old spec.	Designations .	Speed ratings		Weight			
	Dyc	Stc			Grease	oil				
d D B r _{smin}	Cr	Cor								
mm	KN				r/min	kg				
140	210	53	2	410	700	3053128	23028CA	1800	2400	62
	210	69	2	474	857	4053128	24028CA	1700	2200	8.36
	225	68	2.1	532	867	3003728	23128	1700	2200	11
	250	68	3	635	890	3528	22228	1700	2200	15.3
	250	68	3	635	890	113528	22228K	1700	2200	14.8
	250	68	3	640	950	53528	22228CA	1700	2200	15.8
	250	88	3	805	1253	3053228	23228CA	1200	1600	18.8
	300	102	4	1105	1428	3628	22328	1100	1500	344
	300	102	4	1128	1534	53628	22328CA	1100	1500	36
150	225	56	2.1	409	770	3003130	23030	1700	2200	8.25
	225	56	2.1	446	763	3053130	23030CA	1700	2200	7.73
	250	80	2.1	623	1057	3003730	23130	1400	1800	18.3
	250	80	2.1	743	1232	3053730	23130CA	1400	1800	17.3
	270	73	3	702	1005	3530	22230A	1600	2000	18.2
	270	73	3	725	1048	53530	22230CA	1600	2000	18
	270	96	3	953	1522	3053230	23230CA	1100	1500	28.7
	320	108	4	1250	1646	3630	22330	1000	1400	42
	320	108	4	1300	1713	53630	22330CA	1000	1400	43.8
160	240	60	2.1	469	827	3003132	23032	1700	2200	9.84
	240	60	2.1	495	841	3053132	23032CA	1700	2200	9.74
	240	80	21	650	1180	4053132	24032CA	1100	1500	13
	270	86	21	713	1145	3003732	23132	1300	1700	21
	270	86	21	798	1288	3053732	23132CA	1300	1700	20.5
	270	109	21	1008	1730	4053732	24132CA	700	900	24
	290	80	3	804	1146	3532	22232	1500	1900	23.5
	290	80	3	838	1220	53532	22232CA	1500	1900	22.5
	290	80	3	838	1220	153532	22232CAK	1500	1900	22
	290	104	3	1100	1765	3053232	23232CA	1000	1400	35.7
	340	114	4	1368	1814	3632	22332	950	1300	50.2
	340	114	4	1368	1814	113632	22332K	950	1300	49.1
	340	114	4	1375	1872	53632	22332CA	950	1300	51.1

SPHERICAL ROLLER BEARINGS d170-190mm



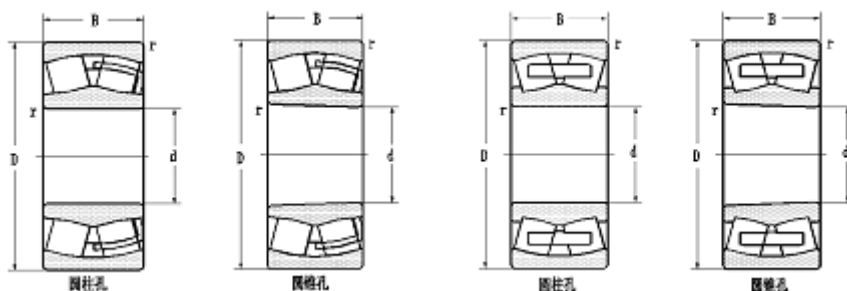
Principle dimensions	Basic load ratings		Old spec.	Designations .	Speed ratings		Weight			
	d	D			B	r _{smin}		Dyc Cr	Stc Cor	Grease
mm				KN		r/min		Kg		
170	260	67	2.1	557	1006	3003134	23034	1600	2000	14.3
	260	67	2.1	570	1030	3053134	23034CA	1600	2000	13.6
	280	88	2.1	840	1350	3003734	23134	1200	1600	23.9
	280	88	2.1	864	1423	3053734	23134CA	1200	1600	22.1
	280	109	2.1	993	1656	4453734	24134CAK	670	850	26.5
	310	86	4	964	1383	3534	22234	1300	1700	39.4
	310	86	4	964	1383	113534	22234K	1300	1700	38.8
	310	86	4	1100	1430	53534	22234CA	1300	1700	39.2
	310	110	4	1180	1830	3053234	23234CA	950	1300	37.6
	360	120	4	1480	2125	3634	22334	950	1300	60.2
	360	120	4	1480	2125	113634	22334K	950	1300	58.6
	360	120	4	1500	2150	53634	22334CA	950	1300	61.2
	360	136	4	1660	2450	3734k	-	670	850	71.7
	180	280	74	2.1	700	1200	3003136	23036	1400	1800
280		74	2.1	765	1250	3053136	23036CA	1400	1800	17.5
280		74	2.1	765	1250	3153136	23036CAK	1400	1800	17.2
280		100	2.1	914	1665	41053136Y	24036CA/W33	950	1300	22.8
300		96	3	953	1601	3003736	23136	1100	1500	29.2
300		96	3	1000	1701	3053736	23136CA	1100	1500	25.9
300		96	3	1000	1701	3153736	23136CAK	1100	1500	25
300		118	3	1169	2036	4053736	24136CA	630	800	32.8
320		86	4	956	1409	3536	22236	1300	1700	30.8
320		86	4	956	1409	113536	22236K	1300	100	30
320		86	4	993	1493	53536	22236CA	1300	700	32.3
320		86	4	993	1493	153536	22236CAK	1300	1700	31.6
320		112	4	1269	2048	3053236	23236CA	900	1200	42.8
380		126	4	1622	2358	3636	22336	900	1200	73.7
380	126	4	1686	2412	53636	22336CA	900	1200	72.6	
190	280	67	2.1	610	1070	53738	-	1300	1700	14.7
	290	75	2.1	740	1295	3053138	23038CA	1300	1700	18.1
	290	100	2.1	940	1740	4053138Y	24038CA/W33	950	1300	23.8

SPHERICAL ROLLER BEARINGS d190-220mm



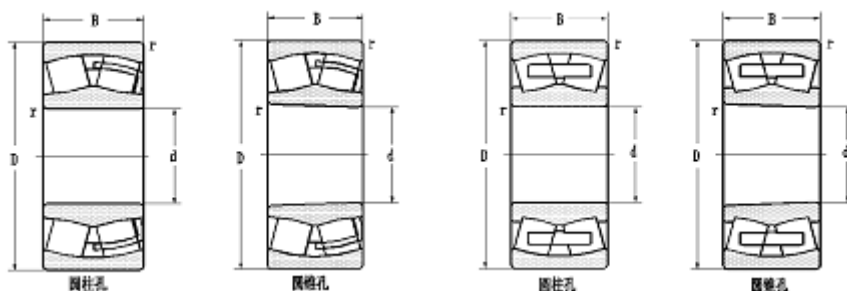
Principle dimensions d D B r _{smin}	Basic load ratings		Old spec.	Designations .	Speed ratings		Weight			
	Dyc Cr	Stc Cor			Grease	oil				
mm	KN				r/min		kg			
190	320	104	3	1200	2000	3003738	23138	1000	1400	34.7
	320	104	3	1200	2000	3113738	23138K	1000	1400	34
	320	128	3	1355	2433	4453738Y	24138CAK/W33	600	750	42.1
	340	92	4	1045	1593	3538	22238	1200	1600	41.5
	340	92	4	1097	1643	53538	22238CA	1200	1600	40.7
	340	92	4	1097	1643	153538	22238CAK	1200	1600	40.3
	340	120	4	1455	2410	3053238	23238CA	850	1100	48.3
	400	132	5	1759	2582	3638	22338	850	1100	81
	400	132	5	1820	2600	53638	22338CA	850	1100	83.2
200	310	82	2.1	750	1370	3003140	23040	1200	1600	24.4
	310	82	2.1	900	1610	3053140	23040CA	1200	1600	24.1
	340	112	3	1123	2052.	3003740	23140	950	1300	45
	340	112	3	1123	2052	3113740	23140K	950	1300	44
	340	140	3	1482	2634	4053740	24140CA	560	700	52.3
	360	98	4	1250	1950	3540	22240	1100	1500	42.8
	360	98	4	1250	1950	113540	22240K	1100	1500	42.5
	360	98	4	1260	2000	53540	22240CA	1100	1500	43.9
	360	98	4	1260	2000	153540	22240CAK	1100	1500	43.3
	360	128	4	1630	2680	3053240	23240CA	850	1100	57.9
	360	128	4	1630	2680	3153240	23240CAK	850	1100	56
	420	138	5	1865	2725	3640	22340	850	1100	95.7
	420	138	5	1870	2730	153640	22340CAK	850	1100	89.5
220	340	90	3	960	1830	3003144	23044	1100	1500	26.8
	340	90	3	1025	1900	3153144	23044CAK	1100	1500	30.8
	370	120	4	1320	2430	3003744	23144	900	1200	55.4
	370	120	4	1320	2430	3113744	23144K	900	1200	54.6
	370	120	4	1470	2460	3053744	23144CA	900	1200	54.4
	370	120	4	1470	2460	3153744	23144CAK	900	1200	54.1
	400	108	4	1500	2290	3544	22244	950	1300	61.7
	400	108	4	1500	2290	113544	22244K	950	1300	61
	400	108	4	1480	2230	153544	22244CAK	950	1300	59.5

SPHERICAL ROLLER BEARINGS d220-260mm



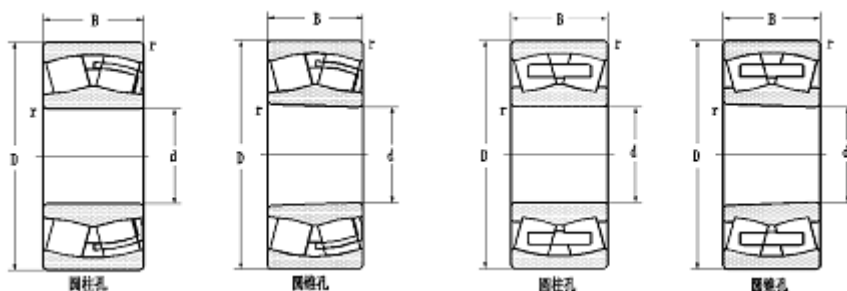
Principle dimensions				Basic load ratings		Old spec.	Designations .	Speed ratings		Weight
d	D	B	r _{smin}	Dyc Cr	Stc Cor			Grease	oil	
mm				KN				r/min		kg
220	460	145	5	2225	3380	3644	22344	750	950	123.4
	460	145	5	2315	3400	53644	22344CA	750	950	118.8
240	360	92	3	1050	2110	3003148	23048	1000	1400	34.6
	360	92	3	1050	2110	3113148	23048K	1000	1400	34
	360	92	3	1100	2150	3053148	23048CA	1000	1400	34
	360	118	3	1370	2680	4453148	24048CAK	800	1000	45.1
	400	128	4	1590	2960	3003748	23148	850	1100	68.4
	400	128	4	1590	2960	3113748	23148K	850	1000	66.3
	400	128	4	1685	3000	3053748	23148CA	850	1100	66.4
	400	128	4	1685	3000	3153748	23148CAK	850	1100	64.3
	400	160	4	2050	3770	4053748	24148CA	480	600	91.4
	440	120	4	1810	2855	3548	22248	900	1200	88.7
	440	120	4	1815	2865	153548	22248CAK	900	1200	83
	440	160	4	2385	3985	3153248K	23248CAK/W33	670	850	111.5
	260	500	155	5	2650	3960	3648	22348	430	530
500		155	5	2700	4000	53648	22348CA	430	530	149
360		75	2.1	860	1670	3053952	23952CA	1100	1500	23.3
400		104	4	1395	2525	3003152	23052	900	1200	49.8
400		104	4	1395	2525	3113152	23052K	900	1200	48.5
400		104	4	1410	2560	3053152	23052CA	900	1200	48.7
440		144	4	1935	3650	3003752	23152	800	1000	93
440		144	4	1935	3650	3113752	23152K	800	1000	90
440		144	4	2130	3780	3053752	23152CA	800	1000	93.2
440		180	4	2405	4375	4053752	24152CA	430	530	109
480		130	5	2055	3230	3552	22252	850	1100	109
480		130	5	2170	3420	53552	22252CA	850	1100	106
480		130	5	2170	3420	153552	22252CAK	850	1100	104
480	174	5	2795	4690	3053252	23252CA	630	800	149	
480	174	5	2795	4690	3153252	23252CAK	630	800	145	
540	165	6	2880	4330	3652	22352	630	800	188	
540	165	6	2950	4480	53652	22352CA	630	800	186	

SPHERICAL ROLLER BEARINGS d280-320mm



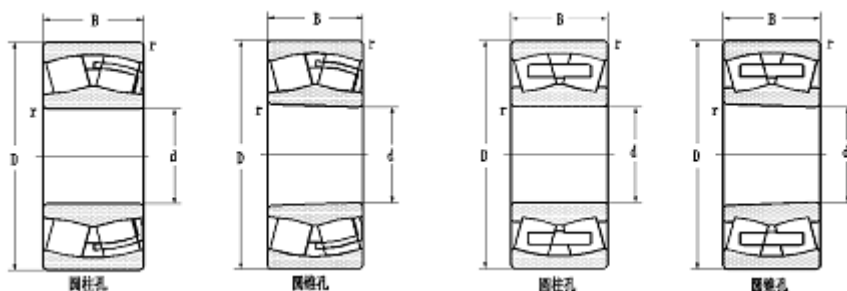
Principle dimensions	Basic load ratings		Old spec.	Designations .	Speed ratings		Weight			
	Dyc	Stc			Grease	oil				
d D B r _{sm}	Cr	Cor				r/min	kg			
mm	KN				r/min		kg			
280	380	75	2.1	830	1650	3053956	23956CA	1000	1400	25
	420	106	4	1430	2670	3003156	23056	850	1100	54.7
	420	106	4	1510	2860	3053156	23056CA	850	1100	52.7
	420	106	4	1510	2860	3153156	23056CAK	850	1100	52
	460	146	5	2320	4230	3053756	23156CA	750	950	404.5
	460	146	5	2320	4230	3153756	23156CAK	750	950	101.3
	460	180	5	2510	4625	4053756	24156CA	400	500	120
	460	130	4	2010	3565	53756	-	750	950	88
	460	150	5	2420	4220	53756Y	-	750	950	103
	500	130	5	2120	3410	3556	22256	800	1000	116
	500	130	5	2140	3450	53556	22256CA	800	1000	108
	500	130	5	2140	3450	153556	22256CAK	800	1000	107
	580	175	6	3445	5240	3656	22356	600	750	227
	580	175	6	3445	5240	113656	22356K	600	750	222
	580	175	6	3450	5250	53656	22356CA	600	750	228
300	460	118	4	1615	3140	3003160	23060	800	1000	70
	460	118	4	1615	3140	3113160	23060K	800	1000	69
	460	118	4	1800	3300	3053160	23060CA	800	1000	72.7
	460	160	4	2315	4640	4053160	24060CA	600	750	94.7
	500	160	5	2620	4700	3003760	23160	670	850	142
	500	160	5	2630	4730	3053760	23160CA	670	850	135
	500	160	5	2630	4730	3153760	23060CAK	670	850	131
	500	200	5	3060	5740	4053760	24160CA	530	670	159
	500	200	5	3060	5740	4453760	24160CAK	530	670	157
	540	140	5	2275	3765	3560	22260	750	950	152
	540	150	5	2630	4220	53560Y	22260CA/W33	750	950	148
	540	192	5	3270	5620	3053260	23260CA	530	670	202
580	185	6	3400	5510	53660X1	22360CAX1	500	630	229	
320	480	121	4	1850	3520	3003164	23064	800	1000	81.3
	480	121	4	1920	3690	3053164	23064CA	800	1000	78.8
	480	121	4	1920	3690	3153164	23064CAK	800	1000	76.4

SPHERICAL ROLLER BEARINGS d320-360mm



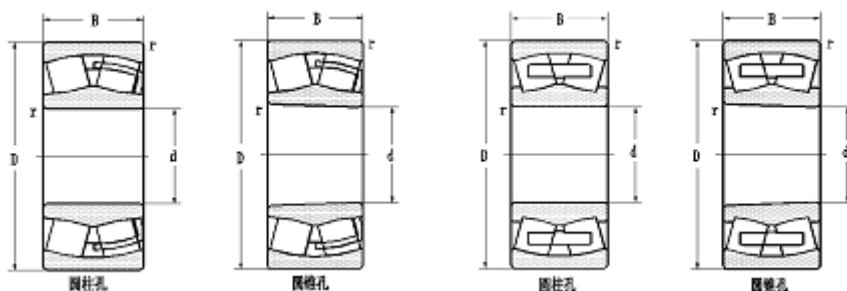
Principle	dimensions			Basic load ratings		Old spec.	Designations .	Speed ratings		Weight
	d	D	B	r _{min}	Dyc Cr			Stc Cor	Grease	
mm				KN				r/min		kg
320	480	160	4	2360	4830	4053164	24064CA	560	700	107
	480	160	4	2360	4830	4453164	24064CAK	560	700	105.7
	540	176	5	3135	5730	3003764	23164	630	800	187
	540	176	5	3150	5750	3053764	23164CA	630	800	175
	540	176	5	3150	5750	3153764	23164CAK	630	800	170
	540	218	5	3645	6930	4053764	24164CA	500	630	208
	580	208	5	3830	6650	3053264	23264CA	500	630	253
	580	208	5	3830	6650	3153264	23264CAK	500	630	244
	620	198	6	3970	6420	53864	-	450	560	278
340	520	133	5	2200	4200	3003168	23068	700	900	101
	520	133	5	2200	4200	3113168	23068K	700	900	98
	520	133	5	2200	4200	3053168	23068CA	700	900	99.7
	520	133	5	2200	4200	3153168	23068CAK	700	900	96.6
	520	180	5	2780	5720	4453168	24068CAK	530	670	138
	580	190	5	3430	6155	3113768	23168K	600	750	225
	580	190	5	3560	6420	3053768	23168CA	600	750	213
	580	190	5	3560	6420	3153768	23168CAK	600	750	208
	580	200	5	3730	6650	3053768F	23168F	400	500	222
	640	200	6	4260	6990	53868	-	300	380	292
360	480	90	3	1240	2765	3053972	23972CA	850	1100	46
	540	134	5	2270	4440	3003172	23072	670	850	115
	540	134	5	2330	4570	3053172	23072CA	670	850	111
	540	134	5	2330	4570	3153172	23072CAK	670	850	108
	540	180	5	2930	6120	4053172	24072CA	560	700	143
	600	192	5	3440	6540	3003772	23172	560	700	215
	600	192	5	3440	6540	3113772	23172K	560	700	209
	600	243	5	4300	8350	4453772	23172CAK	450	560	287
	620	224	6	4220	7910	3053272F	23272CAF	450	560	288
	650	232	6	4600	8115	3153272	23272CAK	400	500	380
	750	224	7.5	5640	8990	53672	22372CA	400	500	492

SPHERICAL ROLLER BEARINGS d380-480mm



Principle dimensions	Basic load ratings		Old spec.	Designations .	Speed ratings		Weight
	Dyc	Stc			Grease	oil	
d D B r _{smin}	Cr	Cor					
mm	KN				r/min		kg
380 560 135 5	2370	4770	3003176	23076	630	800	124.5
560 135 5	2370	4770	3113176	23076k	630	800	122
560 135 5	2380	4800	3053176	23076CA	630	800	115
560 135 5	2380	4800	3153176	23076CAK	630	800	111
560 180 5	2990	6570	4053176	24076CA	480	600	160
620 194 5	3680	7190	3003776	23176	400	500	244
620 194 5	3680	7200	3153776	23176CAK	400	500	242
400 600 148 5	2760	5410	3003180	23080	600	750	154
600 148 5	2850	5600	3053180	23080CA	600	750	155
600 148 5	2850	5600	3153180	23080CAK	600	750	146
600 200 5	3520	7530	4053180	24080CA	450	560	202
650 200 6	3745	7600	3003780	23180	380	480	263
650 200 6	3745	7600	3113780	23180K	380	480	256
650 200 6	3820	7650	3153780	23180CAK	380	480	270
420 560 106 4	1830	3470	3053984	23984CA	600	750	73.5
620 150 5	2830	5740	3003184	23084	450	560	161
620 200 5	3780	8210	4053184	24084CA	380	480	210
620 200 5	3780	8210	4453184	24084CAK	380	480	207
700 224 6	4950	9365	3053784	23184CA	360	450	355
760 272 5	6205	11190	3153284	23284CAK	320	400	531
440 650 157 6	3025	6140	3003188	23088	430	530	183
720 226 6	5095	9870	3153788	23188CA	340	430	364
790 280 7.5	7110	13170	3053288	23288CA	300	380	610
460 680 163 6	3310	6730	3003192	23092	400	500	220
760 240 7.5	5520	10580	3053792	23192CA	320	400	451
830 296 7.5	310	13760	3153292	23292CAK	300	380	695
480 700 165 6	3360	6940	3003196	23096	300	380	222
870 310 7.5	8210	15400	3153296	23296CA	260	340	801

SPHERICAL ROLLER BEARINGS d500-1180mm



Principle dimensions	Basic load ratings		Old spec.	Designations .	Speed ratings		Weight
	Dyc	Stc			Grease	oil	
d D B r _{smin}	Cr	Cor					
mm	KN				r/min	kg	
500 720 167 6	3425	7215	30031/500.	230/500	380 480	219	
720 167 6	3425	7215	31131/500	230/500k	380 480	212	
830 264 7.5	6430	12570	30037/500	231/500	300 380	590	
920 336 7.5	9200	17000	30532/500	232/500CA	280 360	1014	
530 780 185 6	4245	8829	30031/530	230/530	340 430	323	
780 250 6	5440	12100	40531/530	240/530CA	300 380	410	
560 820 195 6	4840	10480	30031/560	230/560	320 410	365	
920 280 7.5	7500	14800	30037/560	231/560	240 320	756	
600 870 200 6	5110	11100	30031/600	230/600	300 380	412	
870 200 6	5110	11100	31131/600	230/600K	300 380	400	
980 375 7.5	10450	22000	40537/600	241/600CA	110 150	1127	
630 920 212 7.5	5850	12440	30031/630	230/630	260 340	495	
670 980 230 7.5	6320	13700	31131/670	230/670K	240 320	609	
710 1150 438 9.5	12830	28800	40537/710	241/710CA	200 280	1810	
750 1090 250 8	6960	16530	30531/750	230/750CA	200 280	810	
800 1150 258 7.5	7540	16630	30531/800	230/800CA	170 220	888	
850 1220 272 7.5	9130	21080	30031/850	230/850	160 200	1064	
1180 1660 355 9.5	14420	35880	30031/1180	230/1180	110 150	2460	