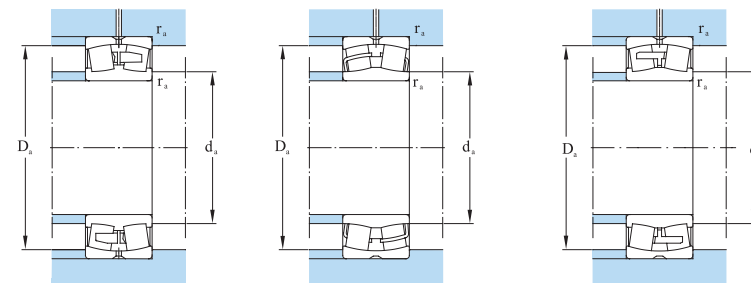
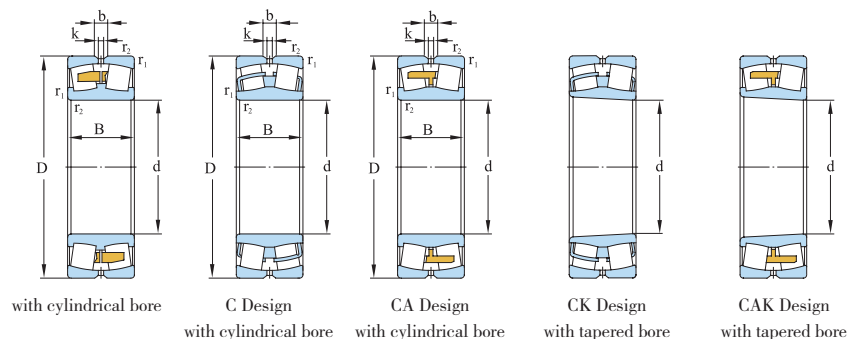




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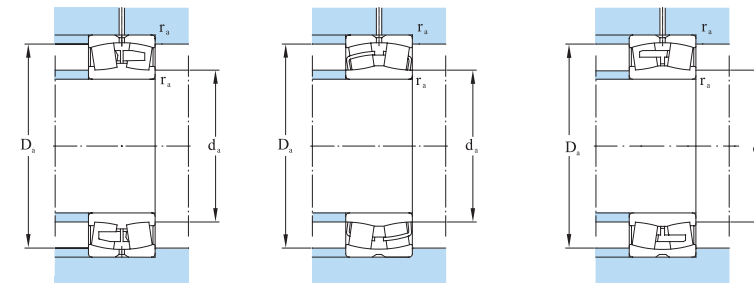
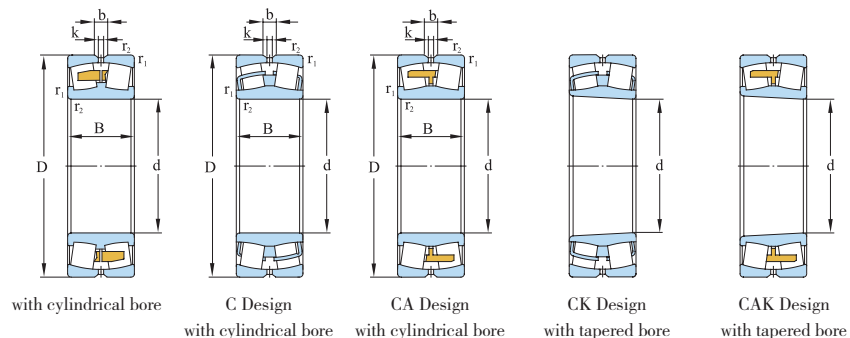
Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2min}
with cylindrical bore	with tapered bore	mm					
23034C/W33	23034CK/W33	170	260	67	11.1	6	2.1
23034CA	23034CAK		260	67			2.1
23034CA/W33	23034CAK/W33		260	67	11.1	6	2.1
23034CAF3			260	67			2.1
24034C/W33	24034CK30/W33		260	90	8.3	4.5	2.1
24034CA/W33	24034CAK30/W33		260	90	8.3	4.5	2.1
23134C/W33	23134CK/W33		280	88	13.9	7.5	2.1
23134CA	23134CAK		280	88			2.1
23134CA/W33	23134CAK/W33		280	88	13.9	7.5	2.1
	23134CAKF3		280	88			2.1
24134CA/HCW33YA2			280	109	8.3	5	2.1
24134C/W33	24134CK30/W33		280	109	8.3	4.5	2.1
24134CA/W33	24134CAK30/W33		280	109	8.3	4.5	2.1
22234C/W33	22234CK/33		310	86	16.7	9	4
22234CA	22234CAK		310	86			4
22234CA/W33	22234CAK/W33		310	86	16.7	9	4
23234C/W33	23234CK/W33		310	110	13.9	7.5	4
23234CA			310	110			4
23234CAF3/W33			310	110	13.9	7.5	4
23234CA/W33	23234CAK/W33		310	110	13.9	7.5	4
22334C/YA7		180	360	120			4
22334C/W33	22334CK/W33		360	120	16.7	9	4
22334CA			360	120			4
22334CA/W33	22334CAK/W33		360	120	16.7	9	4
23936C/W33	23936CK/W33		250	52	5.5	3	2
23936CA/W33	23936CAK/W33		250	52	5.5	3	2
23936CAF3/W33			250	52	5.5	3	2
23036C/W33	23036CK/W33		280	74	13.9	7.5	2.1
23036CA			280	74			2.1
23036CAF3			280	74			2.1
23036CA/W33	23036CAK/W33		280	74	13.9	7.5	2.1
24036C/W33	24036CK30/W33		280	100	8.3	4.5	2.1

Basic load ratings		Limiting speeds		Abutment and fillet dimensions			Mass
Cr	Cor	grease	oil	d _a min	D _a max	r _a max	
kN		r/min		mm			kg
621	1060	1600	2000	182	248	2	13
621	1060	1600	2000	182	248	2	13
621	1060	1600	2000	182	248	2	14.1
621	1060	1600	2000	182	248	2	13
799	1460	1000	1400	182	248	2	17.5
799	1460	1000	1400	182	248	2	17.8
897	1500	1200	1600	182	268	2	21.5
897	1500	1200	1600	182	268	2	26.1
897	1500	1200	1600	182	268	2	26.1
897	1500	1200	1600	182	268	2	24.6
1070	1860	670	850	182	268	2	26.5
1070	1860	670	850	182	268	2	26.5
1070	1860	670	850	182	268	2	24.8
978	1460	1300	1700	188	292	3	28.5
978	1460	1300	1700	188	292	3	28.6
978	1460	1300	1700	188	292	3	28.6
1220	1930	950	1300	188	292	3	36.5
1220	1930	950	1300	188	292	3	38
1220	1930	950	1300	188	292	3	38
1220	1930	950	1300	188	292	3	38
1540	2160	950	1300	188	342	3	59.7
1540	2160	950	1300	188	342	3	58.5
1540	2160	950	1300	188	342	3	62.6
1540	2160	950	1300	188	342	3	62.6
431	830	1700	2200	190	240	2	8.2
431	830	1700	2200	190	240	2	9.17
431	830	1700	2200	190	240	2	9.17
725	1250	1400	1800	192	268	2	17
725	1250	1400	1800	192	268	2	17
725	1250	1400	1800	192	268	2	17
725	1250	1400	1800	192	268	2	17.7
937	1730	950	1300	192	268	2	23



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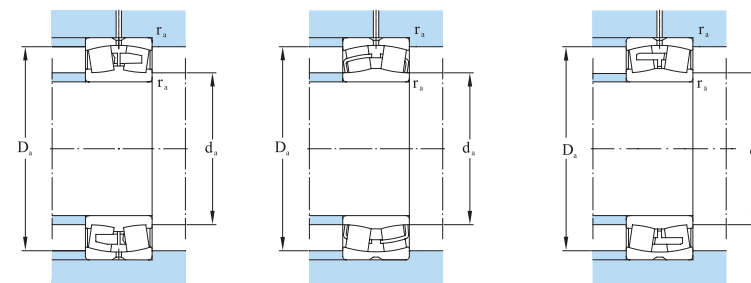
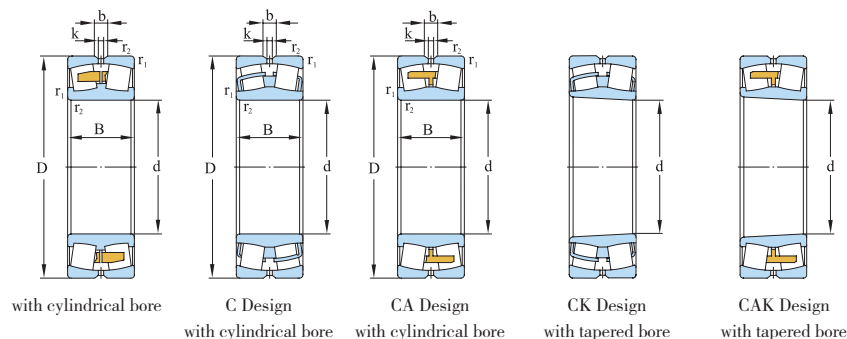


Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
24036CA		180	280	100			2.1
24036CA/W33	24036CAK30/W33		280	100	8.3	4.5	2.1
24036CAF3/W33	24036CAK30F3/W33		280	100	8.3	4.5	2.1
23136C/W33	23136CK/W33		300	96	13.9	7.5	3
23136CA	23136CAK		300	96			3
23136CA/W33	23136CAK/W33		300	96	13.9	7.5	3
23136CAF3			300	96			3
24136C/W33	24136CK30/W33		300	118	11.1	6	3
24136CA			300	118			3
24136CA/W33	24136CAK30/W33		300	118	11.1	6	3
24136CAQ1			300	118			3
22236C/W33	22236CK/W33		320	86	16.7	9	4
22236CA	22236CAK		320	86			4
22236CA/W33	22236CAK/W33		320	86	16.7	9	4
22236CAF3	22236CAKF3		320	86			4
22236CAQ1			320	86			4
23236C/W33	23236CK/W33		320	112	13.9	7.5	4
23236CA	23236CAK/W33		320	112	13.9	7.5	4
23236CA/HCW33			320	112	13.9	7.5	4
23236CA/HCW33YA2			320	112	13.9	7.5	4
23236CAF3	23236CAKF3/W33		320	112	13.9	7.5	4
23236CAF3/W33			320	112	13.9	7.5	4
23236CA/W33	23236CAK/W33		320	112	13.9	7.5	4
22336C/W33	22336CK/W33		380	126	22.3	12	4
22336CA	22336CAK		380	126			4
22336CA/W33	22336CAK/W33		380	126	22.3	12	4
22336CAF3/W33			380	126	22.3	12	4
23938C/W33	23938CK/W33	190	260	52	5.5	3	2
23938CA/W33	23938CAK/W33		260	52	5.5	3	2
23038			290	75			2.1
23038C/W33	23038CK/W33		290	75	13.9	7.5	2.1
23038CA/W33	23038CAK/W33		290	75	13.9	7.5	2.1

Basic load ratings		Limiting speeds		Abutment and fillet dimensions			Mass
Cr	Cor	grease	oil	d _a min	D _a max	r _a max	
kN		r/min		mm			kg
937	1730	950	1300	192	268	2	26.6
937	1730	950	1300	192	268	2	26.6
937	1730	950	1300	192	268	2	26.6
1050	1760	1100	1500	194	286	2.5	27.5
1050	1760	1100	1500	194	286	2.5	27.1
1050	1760	1100	1500	194	286	2.5	27.1
1050	1760	1100	1500	194	286	2.5	27.1
1220	2160	630	800	194	286	2.5	33.5
1220	2160	630	800	194	286	2.5	33
1220	2160	630	800	194	286	2.5	33
1220	2160	630	800	194	286	2.5	33
1010	1560	1300	1700	198	302	3	29.5
1010	1560	1300	1700	198	302	3	29.4
1010	1560	1300	1700	198	302	3	29.4
1010	1560	1300	1700	198	302	3	29.4
1010	1560	1300	1700	198	302	3	29.4
1290	2120	900	1200	198	302	3	39
1290	2120	900	1200	198	302	3	29.4
1290	2120	900	1200	198	302	3	29.4
1290	2120	900	1200	198	302	3	29.4
1290	2120	900	1200	198	302	3	38.7
1730	2450	900	1200	198	362	3	69
1730	2450	900	1200	198	362	3	72
1730	2450	900	1200	198	362	3	72
1730	2450	900	1200	198	362	3	72
414	800	1700	2200	200	250	2	8.4
414	800	1700	2200	200	250	2	9.2
753	1340	1300	1700	202	278	2	18
753	1340	1300	1700	202	278	2	18
753	1340	1300	1700	202	278	2	17.3



Spherical roller bearings

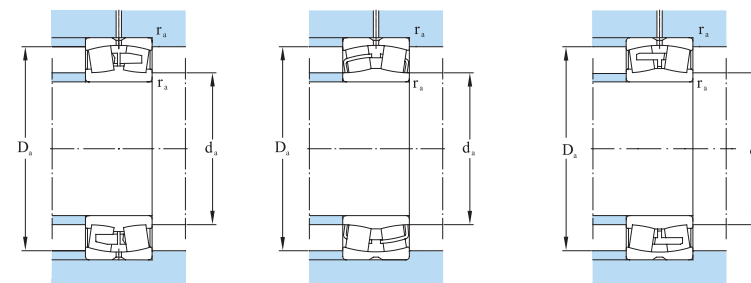
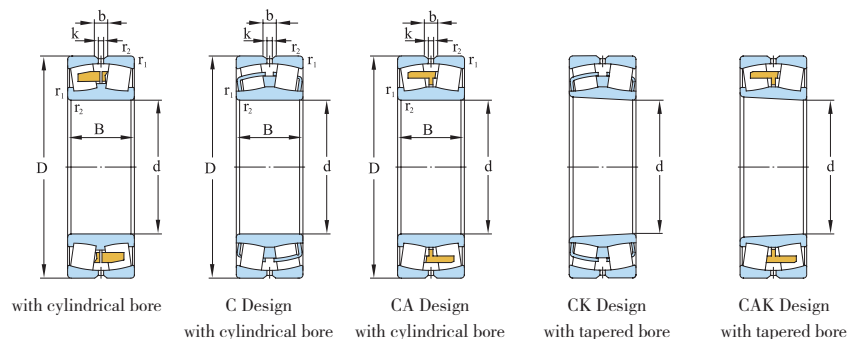


Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
23038CAF3		190	290	75			2.1
24038C/W33	24038CK30/W33		290	100	8.3	4.5	2.1
24038CA			290	100			2.1
24038CA/W33	24038CAK30/W33		290	100	8.3	4.5	2.1
24038CAF3			290	100			2.1
23138C/W33	23138CK/W33		320	104	13.9	7.5	3
23138CA			320	104			3
23138CA/W33	23138CAK/W33		320	104	13.9	7.5	3
24138C/W33	24138CK30/W33		320	128	11.1	6	3
24138CA			320	128			3
24138CA/W33	24138CAK30/W33		320	128	11.1	6	3
24138CAF3	24138CAKF3		320	128	11.1	6	3
22238			340	92			4
22238/W33			340	92	16.7	9	4
22238C/W33	22238CK/W33		340	92	16.7	9	4
22238CA/W33	22238CAK/W33		340	92	16.7	9	4
	22238CAK		340	92			4
22238CAF3	22238CAKF3		340	120			4
23238C/W33	23238CK/W33		340	120	16.7	9	4
23238CA			340	120			4
23238CA/W33	23238CAK/W33		340	120	16.7	9	4
22338			400	132			5
22338C/W33	22338CK/W33		400	132	22.3	12	5
22338CA			400	132			5
22338CA/W33	22338CAK/W33		400	132	22.3	12	5
22338CAF3			400	132			5
23940C/W33	23940CK/W33	200	280	60	8.3	4.5	2.1
23940CA/W33	23940CAK/W33		280	60	8.3	4.5	2.1
23940CAF3/W33			280	60	8.3	4.5	2.1
23040C/W33	23040CK/W33		310	82	13.9	7.5	2.1
23040CA	23040CAK		310	82			2.1
23040CA/W33	23040CAK/W33		310	82	13.9	7.5	2.1

Basic load ratings		Limiting speeds		Abutment and fillet dimensions			Mass
Cr	Cor	grease	oil	d _a min	D _a max	r _a max	
kN		r/min		mm			kg
753	1340	1300	1700	202	278	2	18
978	1800	950	1300	202	278	2	24
978	1800	950	1300	202	278	2	22.9
978	1800	950	1300	202	278	2	22.9
978	1800	950	1300	202	278	2	22.9
1200	2080	1000	1400	204	306	2.5	34.5
1200	2080	1000	1400	204	306	2.5	34.3
1200	2080	1000	1400	204	306	2.5	34.3
1400	2500	600	750	204	306	2.5	42
1400	2500	600	750	204	306	2.5	41.9
1400	2500	600	750	204	306	2.5	41.9
1400	2500	600	750	204	306	2.5	41.9
1110	1700	1200	1600	208	322	3	37.4
1110	1700	1200	1600	208	322	3	37.4
1110	1700	1200	1600	208	322	3	36.5
1110	1700	1200	1600	208	322	3	37.4
1110	1700	1200	1600	208	322	3	37.4
1460	2400	850	1100	208	322	3	47.5
1460	2400	850	1100	208	322	3	47.5
1460	2400	850	1100	208	322	3	44.8
1460	2400	850	1100	208	322	3	44.8
1870	2650	850	1100	212	378	4	80.8
1870	2650	850	1100	212	378	4	80
1870	2650	850	1100	212	378	4	82.2
1870	2650	850	1100	212	378	4	82.2
1870	2650	850	1100	212	378	4	82.2
546	1040	1600	2000	212	268	2	11.5
546	1040	1600	2000	212	268	2	12.1
546	1040	1600	2000	212	268	2	12.1
880	1530	1200	1600	212	298	2	23
880	1530	1200	1600	212	298	2	22.6
880	1530	1200	1600	212	298	2	22.6



Spherical roller bearings



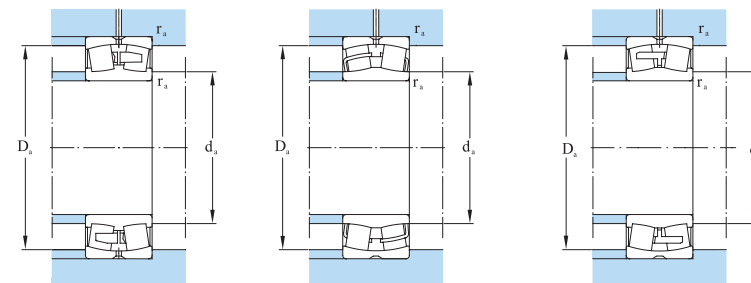
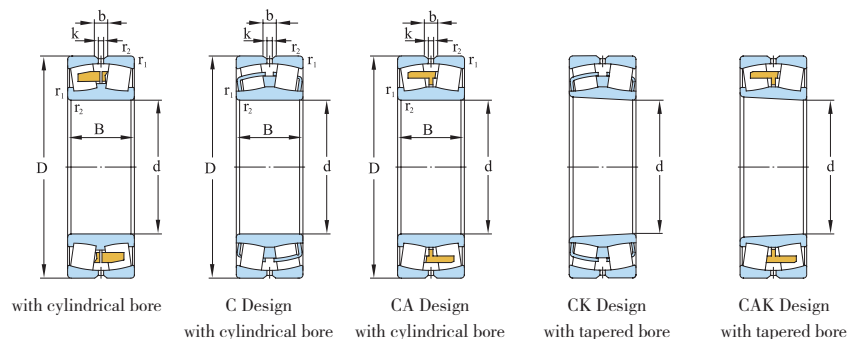
Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
24040C/W33	24040CK30/W33	200	310	109	11.1	6	2.1
24040CA/W33	24040CAK30/W33		310	109	11.1	6	2.1
23140C/W33	23140CK/W33		340	112	16.7	9	3
23140CA	23140CAK		340	112			3
23140CA/W33	23140CAK/W33		340	112	16.7	9	3
24140C/W33	24140CK30/W33		340	140	11.1	6	3
24140CA/W33	24140CAK30/W33		340	140	11.1	6	3
22240			360	98			4
22240C/W33	22240CK/W33		360	98	16.7	9	4
22240CA	22240CAK		360	98			4
22240CA/W33	22240CAK/W33		360	98	16.7	9	4
22240CAF3	22240CAKF3		360	98			4
23240C/W33	23240CK/W33		360	128	16.7	9	4
23240CA/W33	23240CAK/W33		360	128	16.7	9	4
	23240CAK		360	128			4
22340C/W33	22340CK/W33		420	138	22.3	12	5
22340CA	22340CAK		420	138			5
22340CA/W33	22340CAK/W33		420	138	22.3	12	5
22340CAF3			420	138			5
23340CAF3			420	165			5
23044CA/YA2		219.5	340	90			3
23944C/W33	23944CK/W33	220	300	60	8.3	4.5	2.1
23944CA/W33	23944CAK/W33		300	60	8.3	4.5	2.1
23044C/W33	23044CK/W33		340	90	13.9	7.5	3
23044CA	23044CAK		340	90			3
23044CA/W33	23044CAK/W33		340	90	13.9	7.5	3
	23044CAKF3		340	90			3
24044C/W33	24044CK30/W33		340	118	11.1	6	3
24044CA/W33	24044CAK30/W33		340	118	11.1	6	3
24044CAF3			340	118			3
24044CAF3/W33			340	118	11.1	6	3
24044CAF3/W33X			340	118	11.1	6	3

Basic load ratings		Limiting speeds		Abutment and fillet dimensions			Mass
Cr	Cor	grease	oil	d _a min	D _a max	r _a max	
kN		r/min		mm			kg
1130	2120	900	1200	212	298	2	30.5
1130	2120	900	1200	212	298	2	31.3
1380	2360	950	1300	214	326	2.5	42.5
1380	2360	950	1300	214	326	2.5	43.8
1380	2360	950	1300	214	326	2.5	43.8
1580	2600	560	700	214	326	2.5	52
1580	2600	560	700	214	326	2.5	52.1
1270	1930	1100	1500	281	342	3	43.5
1270	1930	1100	1500	281	342	3	43.5
1270	1930	1100	1500	281	342	3	44.7
1270	1930	1100	1500	281	342	3	44.7
1270	1930	1100	1500	281	342	3	44.7
1610	2700	850	1100	281	342	3	57
1610	2700	850	1100	281	342	3	53.4
1610	2700	850	1100	281	342	3	53.4
2020	2900	850	1100	222	398	4	92.5
2020	2900	850	1100	222	398	4	97
2020	2900	850	1100	222	398	4	97
2020	2900	850	1100	222	398	4	97
2020	3500	750	950	222	398	4	97
935	1900	1100	1500	234	326	2.5	31.5
546	1080	1500	1900	232	288	2	13
546	1080	1500	1900	232	288	2	13
1050	1860	1100	1500	234	326	2.5	30.5
1050	1860	1100	1500	234	326	2.5	31.6
1050	1860	1100	1500	234	326	2.5	31.6
1360	2600	850	1100	234	326	2.5	39.5
1360	2600	850	1100	234	326	2.5	39.1
1360	2600	850	1100	234	326	2.5	39.1
1360	2600	850	1100	234	326	2.5	39.1
1360	2600	850	1100	234	326	2.5	39.1



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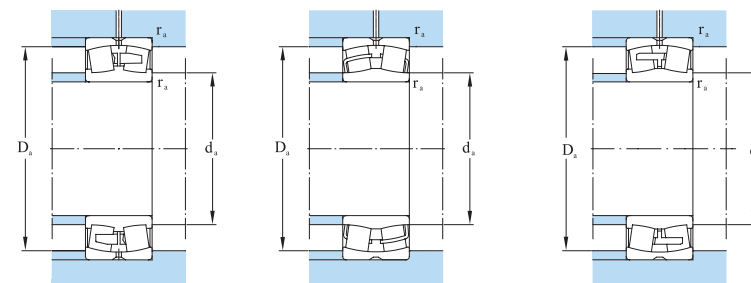
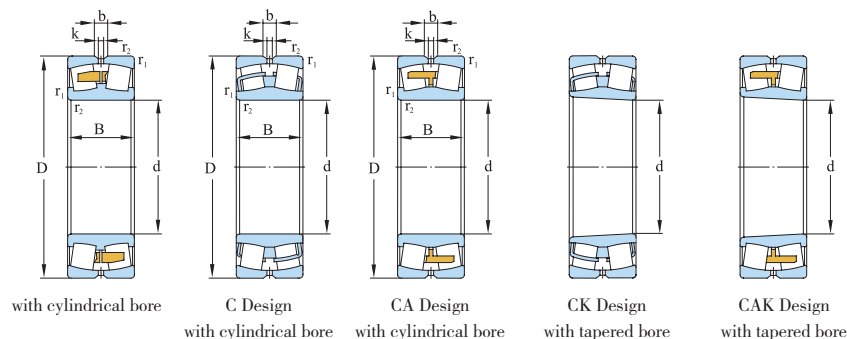
Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
23144C/W33	23144CK/W33	220	370	120	16.7	9	4
23144CA	23144CAK		370	120			4
23144CA/W33	23144CAK/W33		370	120	16.7	9	4
23144CAF3/W33	23144CAKF3/W33		370	120	16.7	9	4
24144C/W33	24144CK30/W33		370	150	11.1	6	4
24144CA/W33	24144CAK30/W33		370	150	11.1	6	4
22244C/W33	22244CK/W33		400	108	16.7	9	4
22244CA	22244CAK		400	108			4
22244CA/W33X			400	108	16.7	9	4
22244CAF3			400	108			4
22244CA/W33	22244CAK/W33		400	108	16.7	9	4
22344C/W33	22344CK/W33		460	145	22.3	12	5
22344CA/W33	22344CAK/W33		460	145	22.3	12	5
23244CA/W33	23244CAK/W33		400	144	16.7	12	4
23948C/W33	23948CK/W33	240	320	60	8.3	4.5	2.1
23948CA/W33	23948CAK/W33		320	60	8.3	4.5	2.1
23948CAF3			320	60			2.1
23948CAF3/W33			320	60	8.3	4.5	2.1
23048C/W33	23048CK/W33		360	92	13.9	7.5	3
23048CA	23048CAK		360	92			3
23048CA/W33	23048CAK/W33		360	92	13.9	7.5	3
23048CAQ1			360	92			3
24048C/W33	24048CK30/W33		360	118	11.1	6	3
24048CA	24048CAK30		360	118			3
24048CA/W33X			360	118	11.1	6	3
24048CA/W33	24048CAK30/W33		360	118	11.1	6	3
23148C/W33	23148CK/W33		400	128	16.7	9	4
23148CA			400	128			4
23148CA/W33	23148CAK/W33		400	128	16.7	9	4
24148C/W33	24148CK30/W33		400	160	11.1	6	4
24148CA	24148CAK30F3/W33		400	160	11.1	6	4
24148CA/W33	24148CAK30/W33		400	160	11.1	6	4

Basic load ratings		Limiting speeds		Abutment and fillet dimensions			Mass
Cr	Cor	grease	oil	d _a min	D _a max	r _a max	
kN			r/min	mm			kg
1580	2750	900	1200	238	352	3	53
1580	2750	900	1200	238	352	3	53.1
1580	2750	900	1200	238	352	3	53.1
1580	2750	900	1200	238	352	3	54.6
1840	3350	500	630	238	382	3	65
1840	3350	500	630	238	382	3	
1520	2360	950	1300	238	382	3	60.5
1520	2360	950	1300	238	382	3	60.5
1520	2360	950	1300	238	382	3	60.5
1520	2360	950	1300	238	382	3	60.5
1520	2360	950	1300	238	382	3	63.5
2350	3450	750	950	242	438	4	120
2350	3450	750	950	242	438	4	123
1720	3200	750	950	238	382	3	77.3
564	1160	1300	1700	252	308	2	14
564	1160	1300	1700	252	308	2	15
564	1160	1300	1700	252	308	2	15
1130	2080	1000	1400	245	346	2.5	33.5
1130	2080	1000	1400	245	346	2.5	34.2
1130	2080	1000	1400	245	346	2.5	34.2
1130	2080	1000	1400	245	346	2.5	34.2
1380	2700	800	1000	245	346	2.5	42.5
1380	2700	800	1000	245	346	2.5	46.5
1380	2700	800	1000	245	346	2.5	46.5
1380	2700	800	1000	245	346	2.5	46.5
1790	3200	850	1100	258	382	3	65.5
1790	3200	850	1100	258	382	3	68.2
1790	3200	850	1100	258	382	3	68.2
2100	3900	480	600	258	382	3	80.5
2100	3900	480	600	258	382	3	79
2100	3900	480	600	258	382	3	79



Harbin Bearing
Group Corporation

Spherical roller bearings

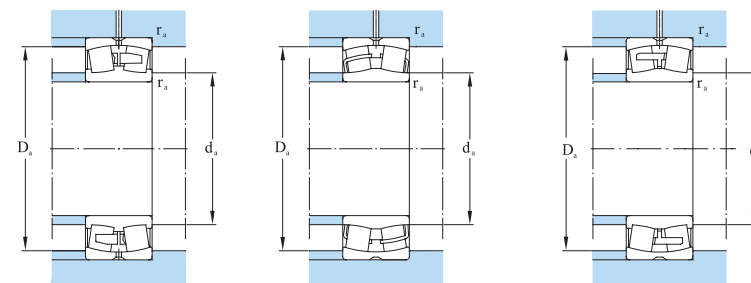
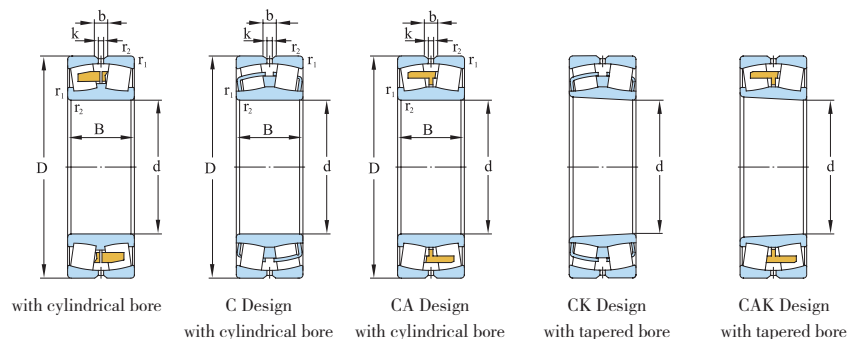


Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
22248C/W33	22248CK/W33	240	440	120	22.3	12	4
22248CA/W33	22248CAK/W33		440	120	22.3	12	4
22248CAF3/C9W33			440	120	22.3	12	4
22248CAF3/W33			440	120	22.3	12	4
23248C/W33	23248CK/W33		440	160	22.3	12	4
23248CA/W33	23248CAK/W33		440	160	22.3	12	4
23248CAF3			440	160			4
23048CAQ1/YA2			360	92			3
23952C/W33	23952CK/W33	241	360	75	8.3	4.5	2.1
23952CA		260	360	75			2.1
23952CA/W33	23952CAK/W33		360	75	8.3	4.5	2.1
23052C/W33	23052CK/W33		400	104	16.7	9	4
23052CA	23052CAK		400	104	16.7	9	4
23052CA/W33	23052CAK/W33		400	104			4
23052CAF3			400	104	11.1	6	4
24052C/W33	24052CK/W33		400	104	11.1	6	4
24052CA/W33	24052CAK/W33		400	104			4
24052CAF3			400	104			4
24052CAF3/W33			400	104	11.1	6	4
	24052CAK30/W33		400	104	11.1	6	4
23152C/W33	23152CK/W33		440	144	16.7	9	4
23152CA	23152CAK		440	144			4
23152CA/W33	23152CAK/W33		440	144	16.7	9	4
	24152CK30/W33		440	144	16.7	9	4
24152C/W33		280	440	180	13.9	7.5	4
24152CA	24152CAK		440	180			4
24152CA/W33	24152CAK/W33		440	180	13.9	7.5	4
24152CAF3/W33			440	180	13.9	7.5	4
22252CA			480	130			5
22252CA/W33			480	130			5
23252CA/W33	23252CAK/W33		480	174	22.3	8	5
23252CAF3/W33	23252CAK3/W33		480	174	22.3	8	5

Basic load ratings		Limiting speeds		Abutment and fillet dimensions			Mass
Cr	Cor	grease	oil	d _a min	D _a max	r _a max	
kN		r/min		mm			kg
1910	3000	900	1200	258	422	3	83
1910	3000	900	1200	258	422	3	83
1910	3000	900	1200	258	422	3	83
1910	3000	900	1200	258	422	3	83
2530	4300	670	850	258	422	3	83
2530	4300	670	850	258	422	3	83
2530	4300	670	850	258	422	3	83
985	2090	1000	1400	254	346	2.5	34
880	1800	1100	1500	272	348	2	24
880	1800	1100	1500	272	348	2	21.6
880	1800	1100	1500	272	348	2	21.6
1400	2550	900	1200	278	382	3	48.5
1400	2550	900	1200	278	382	3	49.8
1400	2550	900	1200	278	382	3	49.8
1400	2550	900	1200	278	382	3	49.8
1760	3450	700	900	278	382	3	64.5
1760	3450	700	900	278	382	3	66.7
1760	3450	700	900	278	382	3	66.7
1760	3450	700	900	278	382	3	66.7
1760	3450	700	900	278	382	3	66.7
2220	3900	800	1000	278	422	3	90.5
2220	3900	800	1000	278	422	3	88.9
2220	3900	800	1000	278	422	3	88.9
2220	3900	800	1000	278	422	3	88.9
2620	4800	430	530	278	422	3	110
2620	4800	430	530	278	422	3	115
2620	4800	430	530	278	422	3	115
2620	4800	430	530	278	422	3	115
2280	3600	850	1100	282	458	4	106
2280	3600	850	1100	282	458	4	106
2800	4750	630	800	282	458	4	145
2800	4750	630	800	282	458	4	145



Spherical roller bearings

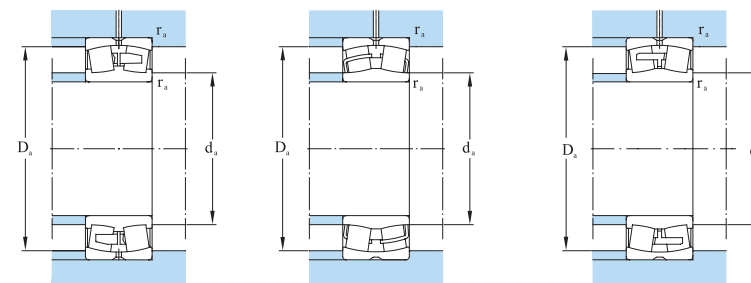
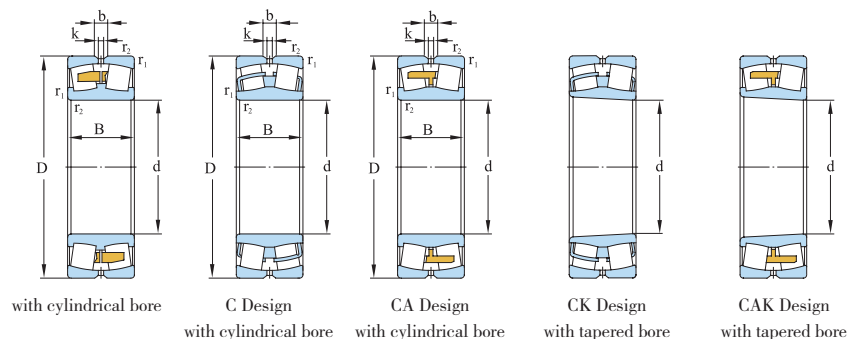


Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
22352CAF3/W33	22352CAKF3/W33	260	540	165	22.3	8	6
23956C/W33	23956CK/W33		380	75	11.1	6	2.1
23956CA/W33	23956CAK/W33		380	75	11.1	6	2.1
23956CAQ1/W33			380	75	11.1	6	2.1
23056C/W33	23056CK/W33		420	106	16.7	9	4
23056CA	23056CAK		420	106			4
23056CA/W33	23056CAK/W33		420	106	16.7	9	4
24056C/W33	24056CK30/W33		420	140	11.1	6	4
24056CA/W33	24056CAK30/W33		420	140	11.1	6	4
24056CAF3			420	140			4
24056CAF3/W33	24056CAK30F3/W33		420	140	11.1	6	4
23156CA	23156CAK		460	146			5
23156CA/W33	23156CAK/W33		460	146	16.7	8	5
23156CAF3	23156CAKF3		460	146			5
23156X2CA			460	146			5
24156CA			460	180			5
24156CA/W33			460	180	13.9	8	5
24156CA/HCW33			460	180	13.9	8	5
22256CA/W33	22256CAK/W33	280	500	130	22.3	8	5
22256CAF3			500	130			5
23256CA			500	176			5
23256CAF3			500	176			5
23256CAF3/W33			500	176	22.3	8	5
23256CA/W33			580	175	22.3	8	6
23960C/W33	23960CK/W33		420	90	11.1	6	3
23960CA/W33	23960CAK/W33		420	90	11.1	7	3
23060CAF3/W33			460	118	13.7	7	4
	23060CAK		460	118			4
	23060CAK/W33		460	118	16.7	7	4
24060CA			460	160			4
24060CA/W33			460	160	13.9	7	4
23160CA			500	160			5

Basic load ratings		Limiting speeds		Abutment and fillet dimensions			Mass
Cr	Cor	grease	oil	d _a min	D _a max	r _a max	
kN			r/min	mm			kg
3000	4700	630	800	288	512	5	184
845	1760	1000	1400	292	368	2	26
845	1760	1000	1400	292	368	2	25.7
845	1760	1000	1400	292	368	2	25.7
1520	2850	850	1100	298	402	3	52.5
1520	2850	850	1100	298	402	3	56.8
1520	2850	850	1100	298	402	3	56.8
1870	3800	670	850	298	402	3	68.5
1870	3800	670	850	298	402	3	69.2
1870	3800	670	850	298	402	3	69.2
1870	3800	670	850	298	402	3	69.2
1990	4150	750	950	302	438	4	104
1990	4150	750	950	302	438	4	101
1990	4150	750	950	302	438	4	103
1990	4150	750	950	302	438	4	87
2220	4750	400	500	302	438	4	119
2220	4750	400	500	302	438	4	119
2220	4750	400	500	302	438	4	119
1990	3600	800	1000	302	478	4	118
1990	3600	800	1000	302	478	4	118
2580	5100	600	750	302	478	4	147
2580	5100	600	750	302	478	4	146
2580	5100	600	750	302	478	4	146
3200	5700	600	750	308	552	5	221
1200	2500	950	1300	314	406	2.5	40.5
1200	2500	950	1300	314	406	2.5	40.1
1610	3450	800	1000	318	422	3	74.9
1610	3450	800	1000	318	422	3	73.6
1610	3450	800	1000	318	422	3	73.6
2020	2700	600	750	318	422	3	99
2020	2700	600	750	318	422	3	99
2310	4750	670	850	322	478	4	126



Spherical roller bearings

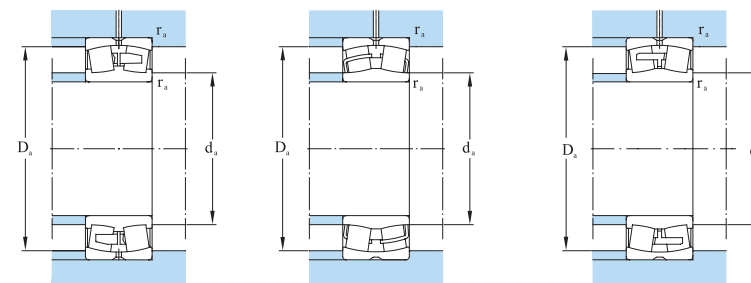
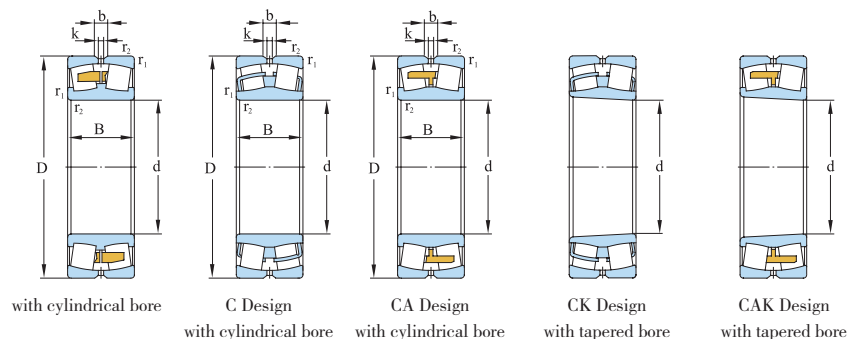


Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
23160CAF3	23160CAKF3	300	500	160			5
23160CAF3/C9W33			500	160	16.7	9	5
23160CA/W33	23160CAK/W33		500	160	16.7	9	5
22260CA			540	140			5
22260CAF3	22260CAKF3		540	140			5
23260CAF1	26260CAKF1/W33		540	192	22	10	5
23064CAF3/W33	23064CAKF3/W33	320	480	121	16.7	8	4
24064CAF3			480	160			4
24064CAF3/W33			480	160	22	8	4
23164CA			540	176			5
23164CA/W33			540	176	22.3	8	5
	23164CAK		540	176			5
	23164CAK/W33		540	176	22.3	8	5
22264CA	22264CAK		580	150			5
22264CA/W33			580	208	24	10	5
23264CAF3/W33			580	208	24	10	5
23264CAF3	23264CAKF3/W33	340	580	208	24	10	5
23968CAF3/W33			460	90	15	6	3
23068CA			520	133			5
23068CA/W33			520	133	22.3	8	5
23068CAF3			520	133			5
23068CAF3/W33			520	133	22.3	8	5
	23068CAKF3		520	133			5
	23068CAKF3/W33		520	133	22.3	8	5
24068CA/W33			520	180	16.7	8	5
24068CAF1/W33			520	180	16.7	8	5
	24068CAK30F1		520	180			5
23168CA/W33			580	190	22.3	8	5
23168CAF3/W33	23168CAKF3/W33		580	190	22.3	8	5
	24168CAK30/W33		580	234	22.3	10	5
23972CA		360	480	90			3
23072CA			540	134			5

Basic load ratings		Limiting speeds		Abutment and fillet dimensions			Mass
Cr	Cor	grease	oil	d _a min	D _a max	r _a max	
kN		r/min		mm			kg
2310	4750	670	850	322	478	4	125
2310	4750	670	850	322	478	4	125
2310	4750	670	850	322	478	4	125
2310	4300	750	950	322	478	4	138
2310	4300	750	950	322	478	4	138
3300	5600	530	670	322	518	4	192
1930	2200	800	1000	338	462	3	84.7
2480	5100	560	700	338	462	3	106
2480	5100	560	700	338	462	3	106
3150	3200	630	800	342	518	4	200
3150	3200	630	800	342	518	4	200
3150	3200	630	800	342	518	4	195
3150	3200	630	800	342	518	4	195
2490	4550	670	850	342	558	4	175
3900	6800	500	630	342	558	4	253
3900	6800	500	630	342	558	4	253
3900	6800	500	630	342	558	4	252
1200	2700	900	1200	354	446	2.5	45.6
1980	4400	700	900	362	498	4	115
1980	4400	700	900	362	498	4	115
1980	4400	700	900	362	498	4	114
1980	4400	700	900	362	498	4	114
1980	4400	700	900	362	498	4	111
1980	4400	700	900	362	498	4	111
2460	5700	530	670	362	498	4	137
2460	5700	530	670	362	498	4	137
2460	5700	530	670	362	498	4	134
3050	6300	600	750	362	558	4	211
3050	6300	600	750	362	558	4	211
3700	7950	320	400	362	558	4	256
1290	2820	850	1100	374	466	2.5	46.6
2280	4800	670	850	382	518	4	126



Spherical roller bearings

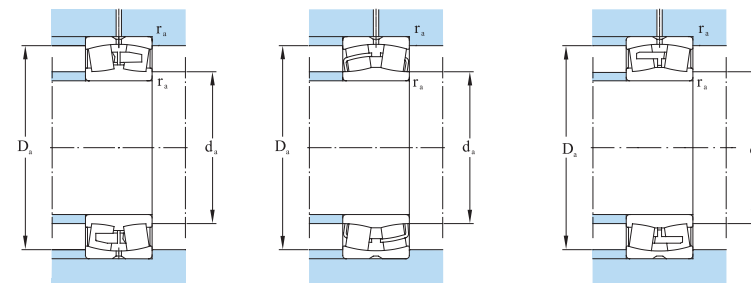
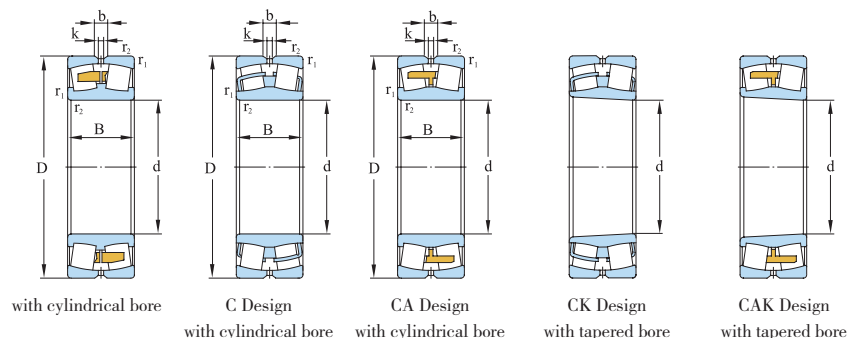


Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
23072CA/W33		360	540	134	22.3	8	5
23072CAF3			540	134			5
23072CAF3/W33	23072CAKF3/W33		540	134	22.3	8	5
23172CA			600	192			5
24172CA			600	243	20	12	5
24172CA/W33			600	243			5
24172CAF1			600	243	20	12	5
24172CAF1/W33			600	243	20	12	5
	24172CAK30/W33		600	243	20	12	5
	22372CAKF3/W33		650	232	22.3	10	6
22372CAF3	22372CAKF3/W33	380	750	224			7.5
	22372CAKF3/W33		750	224			7.5
23976CAKF1/W33			520	106	15	10	4
23076CA	23076CAKF3		560	135			5
	24076CAK30F1/W33		560	180	22	10	5
	23176CAK		620	194			5
23176CAF3/W33	23176CAKF3/W33		620	194	22	8	5
23176CAF3/HAW33			620	194	22	8	5
23980CAF1/W33		400	540	106	15	10	4
23080CA			600	148			5
23080CAF3	23080CAKF3		600	148			5
23080CAF3/W33			600	148	22	12	5
24080CAF3			600	200			5
24080CAF3/W33			600	200	22	12	5
23180CA			650	200			6
23180CA/W33			650	200	22.3	8	6
23080CAF3			650	200			6
23180CAF3/W33	23180CAKF3/W33		650	200	22.3	8	6
23180X3CA/W33			670	216	22.3	8	6
23280CA/W33			720	256	22	10	6
23280CAF3/W33			720	256	22	10	6
23084CA		420	620	150			5

Basic load ratings		Limiting speeds		Abutment and fillet dimensions			Mass
Cr	Cor	grease	oil	d _a min	D _a max	r _a max	
kN		r/min		mm			kg
2280	4800	670	850	382	518	4	126
2280	4800	670	850	382	518	4	126
2280	4800	670	850	382	518	4	126
3250	6850	560	700	382	578	4	255
5600	8400	300	380	382	578	4	270
5600	8400	300	380	382	578	4	270
5600	8400	300	380	382	578	4	269
5600	8400	300	380	382	578	4	269
5600	8400	300	380	382	578	4	270
4650	8300	400	500	388	622	5	330
4900	8600	400	500	392	720	6	466
4900	8600	400	500	392	720	6	460
1730	3800	800	1000	398	502	3	69.5
2480	5000	630	800	402	538	4	130
3150	6900	480	600	402	538	4	153
3400	7350	400	500	402	598	4	244
3400	7350	400	500	402	598	4	244
3400	7350	400	500	402	598	4	244
2540	3900	750	950	418	522	3	72.4
1730	3900	600	750	422	578	4	161
1730	3900	600	750	422	578	4	161
1730	3900	600	750	422	578	4	161
3600	7800	450	560	422	578	4	202
3600	7800	450	560	422	578	4	202
4100	7650	380	480	428	622	5	275
4100	7650	380	480	428	622	5	275
4100	7650	380	480	428	622	5	273
4100	7650	380	480	428	622	5	264
4000	8550	380	480	428	622	5	293
6150	11300	340	430	428	622	5	353
6150	11300	340	430	428	622	5	353
2700	6400	450	560	442	598	4	149



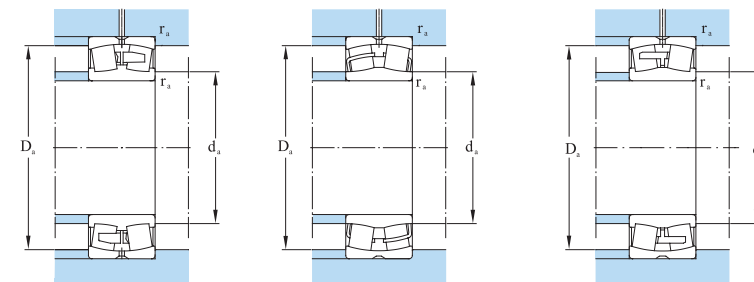
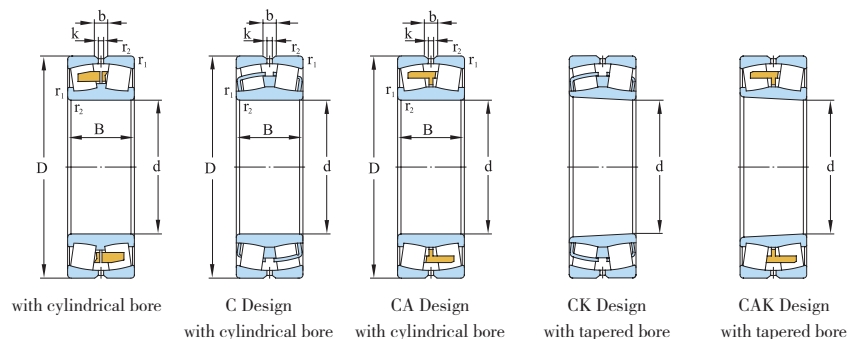
Spherical roller bearings



Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
23084CAF3	23084CAKF3	420	620	150			5
23084CAF3/W33			620	150	22	8	5
24084CA/W33			620	200	22.3	12	5
24084CAF3/W33			620	200	22.3	12	5
	24084CAK30F3/W33X		620	200	22.3	12	5
23184CAF3	23184CAK	440	700	224			6
23284CA/W33	23284CAK/W33		760	272	22	12	7.5
23284CAF3/C9W33			760	272	22	12	7.5
23088CAF3	23088CAKF3		650	157			6
23088CAF3/W33			650	157	22.3	8	6
23188CA		460	720	226			6
23092CAF3/W33	23092CAKF3		680	163	23.5	12	6
24092CAF3/W33			680	218	24	12	6
23192CAF3	23192CAKF3/W33		760	240	22	8	7.5
24192CA/W33			760	300	22.3	8	7.5
	23292CAKF3/W33	480	830	296	22.3	10	7.5
23896CA			600	90			3
23996CAF1/W33			650	128	16.7	10	5
23196CAF1/W33	23196CAKF1/W33		790	248	22	12	7.5
	23196CAKF3		870	310			7.5
239/500CAF1		500	670	128			5
230/500CAF3/HA/W33X			720	167	22.3	8	6
232/500CAF3/W33			920	336	22.3	12	7.5
230/530CA		530	780	185			6
230/530CA/W33X			780	185	24	12	6
230/530CAF3			780	185			6
230/530CAF3/W33			780	185	24	12	6
239/560CAF1		560	750	140			5
230/560CA	230/560CAK		820	195			6
230/560CAF3/W33			820	195	22.3	9	6
231/560CA/W33	231/560CAK/W33		920	280	22.3	12	7.5
231/560CAF3/W33	231/560CAKF3/W33		920	280	22.3	12	7.5

Basic load ratings		Limiting speeds		Abutment and fillet dimensions			Mass
Cr	Cor	grease	oil	d _a min	D _a max	r _a max	
kN		r/min		mm			kg
2700	6400	450	560	442	598	4	149
2700	6400	450	560	442	598	4	149
3350	8450	380	480	422	598	4	202
3350	8450	380	480	422	598	4	202
3350	8450	380	480	442	598	4	197
4250	9200	360	450	448	672	5	353
5610	11900	320	400	456	724	6	550
5610	11900	320	400	456	724	6	549
2780	6500	430	530	468	622	5	185
2780	6500	430	530	468	622	5	179
4500	10000	340	430	468	692	5	378
3450	6950	400	500	488	652	5	226
4200	9100	340	430	488	652	5	304
5500	10000	320	400	496	724	6	457
6100	14400	160	200	496	724	6	457
7350	13500	300	380	496	794	6	698
1290	4000	450	600	500	581	3	60.4
2150	5750	400	500	502	628	4	125
6100	12000	300	380	516	754	6	516
6750	15200	260	340	516	834	6	853
2530	6000	400	500	522	648	4	120
3150	7650	380	480	528	692	5	228
8600	18600	280	360	536	884	6	985
3900	9650	340	430	558	752	5	339
3900	9650	340	430	558	752	5	339
3900	9650	340	430	558	752	5	335
3900	9650	340	430	558	752	5	335
3050	7200	340	430	582	728	4	177
4300	10500	320	410	588	792	5	363
4300	10500	320	410	588	792	5	360
6900	15700	240	320	596	884	6	756
6900	15700	240	320	596	884	6	754

Spherical roller bearings



Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
230/600CAF3	230/600CAKF3	600	870	200			6
230/600CAF3/W33			870	200	22.3	9	6
241/600CA			980	375			7.5
230/630CAF3		630	920	212			7.5
230/670CAF3		670	980	230			7.5
230/750CA		750	1090	250			7.5
230/750CAF3			1090	250			7.5
240/800CAF1			1150	345			7.5
230/850CAF1	230/850CAKF1	850	1220	272			7.5
230/850CAF1/W33			1220	365	22.3	12	7.5
240/850CAF1			1220	365			7.5
	239/1180CAK	1180	1540	272			7.5
	239/1180CAKF1/W33		1540	272	24	12	7.5
230/1180CAF1/W33X			1660	355	24	12	9.5

Basic load ratings		Limiting speeds		Abutment and fillet dimensions			Mass
Cr	Cor	grease	oil	d _a min	D _a max	r _a max	
kN		r/min		mm			kg
4700	11600	300	380	628	842	5	442
4700	11600	300	380	628	842	5	430
8800	21600	100	150	636	944	6	1140
5150	12800	260	340	666	884	6	471
5730	14200	240	320	706	944	6	601
7000	17900	200	280	786	1054	6	789
7000	17900	200	280	786	1054	6	789
10300	24600	170	220	836	1114	6	1092
8450	22500	180	240	886	1184	6	1074
10400	29700	160	200	866	1184	6	1410
10400	29700	160	200	866	1184	6	1410
9350	29600	110	150	1216	1536	8	1350
9350	29600	110	150	1216	1536	8	1350
9350	29600	110	150	1240	1600	6	2460