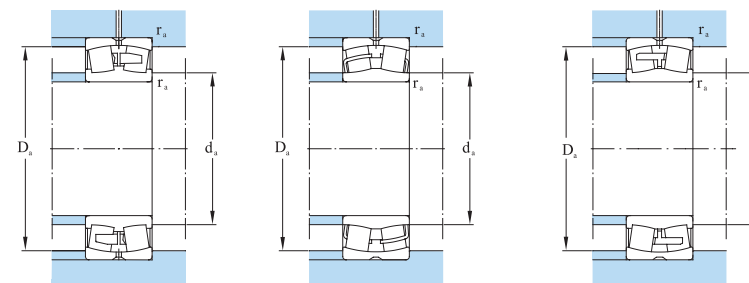
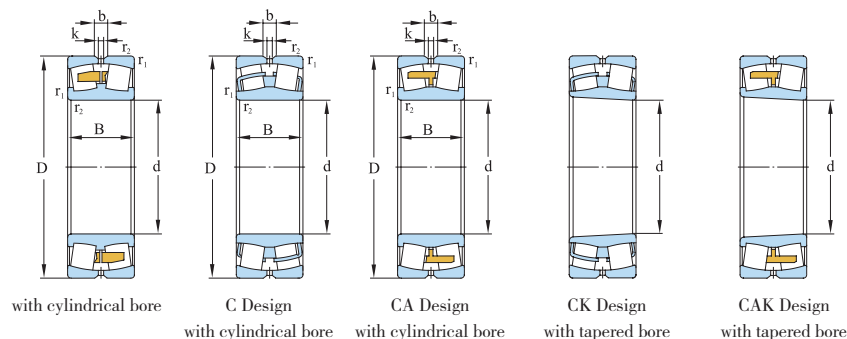


Spherical roller bearings



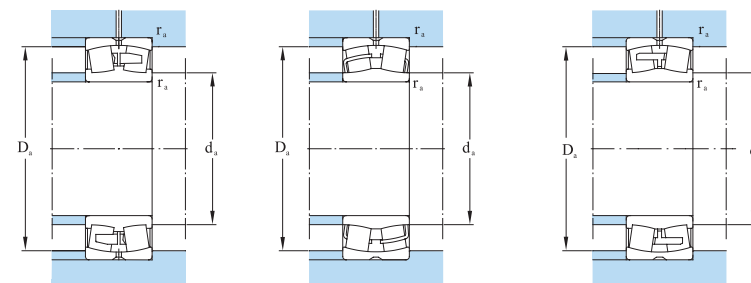
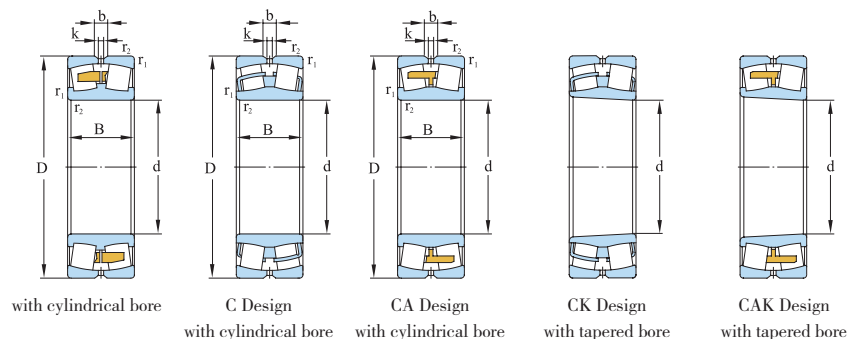
Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
22205C	22205CK	25	52	18			1
22205CA	22205CAK		52	18			1
21305C	21305CK		62	17			1.1
22206C	22206CA	30	62	20			1
22206CA	22206CAK		62	20			1
21306C	21306CK		72	19			1.1
22207C	22207CK	35	72	23			1.1
22207CA	22207CAK		72	23			1.1
21307C	21307CK		80	21			1.5
22208C	22208CK	40	80	23			1.1
22208CA	22208CAK		80	23			1.1
21308C	21308CK		90	23			1.5
22308C	22308CK		90	33			1.5
22308CA	22308CAK		90	33			1.5
22209C	22209CK	45	85	23			1.1
22209CA	22209CAK		85	23			1.1
21309C	21309CK		100	25			1.5
22309C	22309CK		100	36			1.5
22309CA	22309CAK		100	36			1.5
22210C	22210CK	50	90	23			1.1
22210CA	22210CAK		90	23			1.1
22210CA/W33			90	23	5.5	2	1.1
21310C	21310CK		110	27			2
22310	22310K		110	40			2
22310C	22310CK		110	40			2
22310CA	22310CAK		110	40			2
22310CA/W33	22310CAK/W33		110	40	5.5	2.5	2
22211C	22211CK	55	100	25			1.5
22211CA	22211CAK		100	25			1.5
22211CA/W33	22211CAK/W33		100	25	5.5	2	1.5
21311C	21311CK		120	29			2
22311	22311K		120	43			2

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
35.7	35.7	8500	11000	31	46	1	0.18
43.1	44	8500	11000	31	46	1	0.18
41.4	41.5	6700	8500	32	55	1	0.25
48.9	52	7500	9500	36	56	1	0.28
48.9	52	7500	9500	36	56	1	0.32
55.2	61	6000	7500	37	65	1	0.38
67.3	73.5	6300	8000	42	65	1	0.43
67.3	73.5	6300	8000	42	65	1	0.46
65.6	72	5300	5700	44	71	1.5	0.51
73.6	81.5	6000	7500	47	73	1	0.52
73.6	81.5	6000	7500	47	73	1	0.54
82.8	98	4500	5600	49	81	1.5	0.71
115	112	4500	5600	49	81	1.5	1
115	112	4500	5600	49	81	1.5	1.01
77.1	88	5300	6700	52	78	1	0.56
77.1	88	5300	6700	52	78	1	0.629
101	114	4300	5300	54	91	1.5	0.95
138	160	3800	4800	54	91	1.5	1.35
138	160	3800	4800	54	91	1.5	1.52
84.5	100	5000	6300	57	83	1	0.6
84.5	100	5000	6300	57	83	1	0.63
84.5	100	5000	6300	57	83	1	0.63
120	140	3600	4800	60	100	2	1.2
157	258	3400	4300	60	100	2	2.1
176	200	3400	4300	60	100	2	1.85
176	200	3400	4300	60	100	2	2.17
176	200	3400	4300	60	100	2	2.17
99.5	118	4500	5600	64	91	1.5	0.82
99.5	118	4500	5600	64	91	1.5	0.887
99.5	118	4500	5600	64	91	1.5	0.879
138	163	3400	4300	65	110	2	1.6
175	230	2300	4000	65	110	2	1.6



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Spherical roller bearings

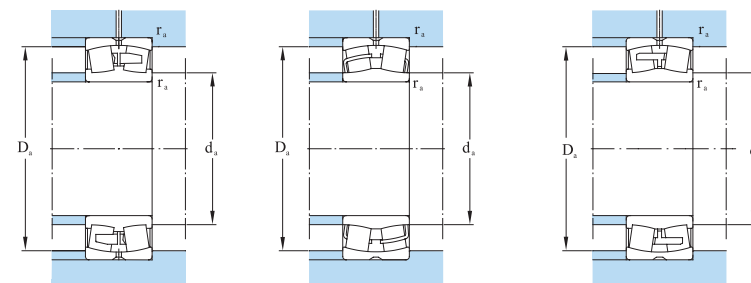
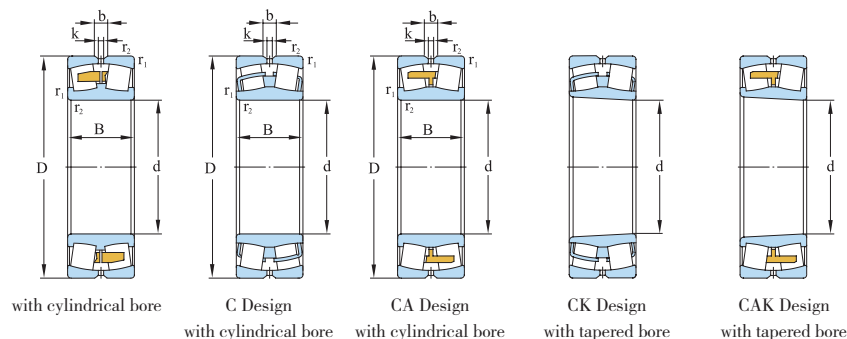


Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
22311/W33	22311CK	55	120	43	5.5	2.5	2
22311C	22311CK		120	43			2
22311CA	22311CAK		120	43			2
22311CA/W33	22311CAK/W33		120	43	5.5	2.5	2
22311CA/YB2			120	43			2
22311CAF3			120	43			2
22212C	22212CK	60	110	28			1.5
22212CA	22212CAK		110	28			1.5
22212CA/W33	22212CAK/W33		110	28	5.5	2	1.5
21312C	21312CK		130	31			2.1
22312	22312K		130	46			2.1
22312C	22312CK		130	46			2.1
22312CA	22312CAK		130	46			2.1
22312CA/W33			130	46	5.5	3	2.1
22312CA/YB2			130	46			2.1
22312CAF3			130	46			2.1
22213C	22213CK	65	120	31			1.5
22213CA	22213CAK		120	31			1.5
22213CA/W33	22213CAK/W33		120	31	5.5	2.5	1.5
21313C	21313CK		140	33			2.1
21313CA	21313CAKF3		140	33			2.1
22313	22313K		140	48			2.1
22313C	22313CK		140	48			2.1
22313C/YB2			140	48			2.1
22313CA	22313CAK		140	48			2.1
22313CA/W33	22313CAK/W33		140	48	5.5	3	2.1
22214C	22214CK	70	125	31			1.5
22214CA	22214CAK		125	31			1.5
22214CA/W33			125	31	6	2.5	1.5
21314C	21314CK		150	35			2.1
22314	22314K		150	51			2.1
22314C/W33	22314CK/W33		150	51	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
175	230	2300	4000	65	110	2	1.6
199	232	2300	4000	65	110	2	2.35
199	232	2300	4000	65	110	2	2.6
175	230	2300	4000	65	110	2	2.42
175	230	2300	4000	65	110	2	2.6
175	230	2300	4000	65	110	2	2.6
122	146	4000	5000	69	101	1.5	1.1
122	146	4000	5000	69	101	1.5	1.01
122	146	4000	5000	69	101	1.5	0.982
161	200	3000	3800	72	118	2	1.95
212	284	3000	3800	72	118	2	1.95
235	280	3000	3800	72	118	2	2.95
235	280	3000	3800	72	118	2	3.33
235	280	3000	3800	72	118	2	3.33
235	280	3000	3800	72	118	2	3.33
235	280	3000	3800	72	118	2	3.33
148	183	3800	4800	74	111	1.5	1.45
148	183	3800	4800	74	111	1.5	1.56
148	183	3800	4800	74	111	1.5	1.56
184	240	2800	3600	77	128	2	2.45
184	240	2800	3600	77	128	2	2.58
253	300	2600	3400	77	128	2	4.97
253	300	2600	3400	77	128	2	3.55
253	300	2600	3400	77	128	2	4.97
253	300	2600	3400	77	128	2	4.92
253	300	2600	3400	77	128	2	4.9
148	186	3600	4500	79	116	1.5	1.55
148	186	3600	4500	79	116	1.5	1.83
148	186	3600	4500	79	116	1.5	1.83
207	260	2600	3400	82	138	2	3
311	380	2400	3200	82	138	2	4.48
311	380	2400	3200	82	138	2	4.3



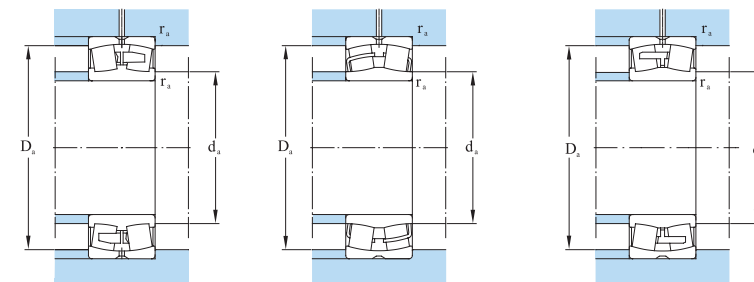
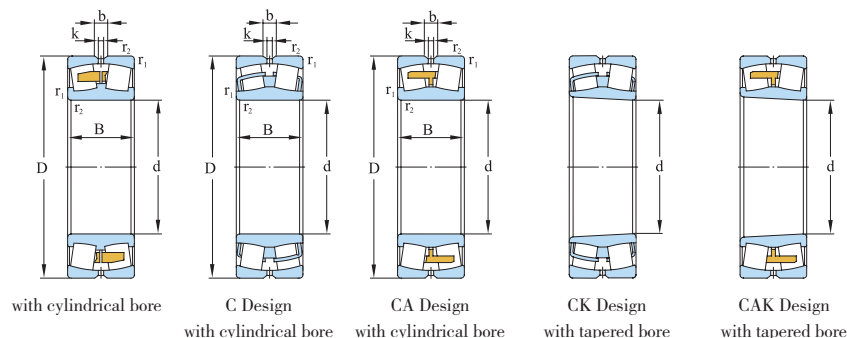
Spherical roller bearings



Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
22314CA	22314CAK	70	150	51			2.1
22314CA/W33	22314CAK/W33		150	51	8.3	4.5	2.1
22314CAF3	22314CAF3		150	51			2.1
22215C	22215CK	75	130	31			1.5
22215CA	22215CAK		130	31			1.5
22215CA/W33			130	31	5.5	2.5	1.5
21315C	21315CK		160	37			2.1
21315CA	21315CAK		160	37			2.1
22315	22315K/W33		160	55	8.3	4.5	2.1
22315/W33			160	55	8.3	4.5	2.1
22315C/W33	22315CK/W33		160	55	8.3	4.5	2.1
22315CA	22315CAK		160	55			2.1
22315CA/W33	22315CAK/W33		160	55	8.3	4.5	2.1
22315CAF3			160	55			2.1
22315CAF3/W33			160	55	8.3	4.5	2.1
22216	22216K	80	140	33			2
22216C	22216CK		140	33			2
22216CA	22216CAK		140	33			2
21316C	21316CK		170	39			2.1
21316CA	21316CAK		170	39			2.1
22316	22316K		170	39			2.1
22316C/W33	22316CK/W33		170	58	8.3	4.5	2.1
22316CA	22316CAK		170	58			2.1
22316CA/W33	22316CAK/W33		170	58	8.3	4.5	2.1
22316CA/HAC9W33YA8			170	58	8.3	4.5	2.1
22316CAF3			170	58			2.1
22217/W33		85	150	36	8.3	4.5	2
22217C/W33	22217CK/W33		150	36	8.3	4.5	2
22217CA/W33	22217CAK/W33		150	36	8.3	4.5	2
21317C	21317CK		180	41			3
21317CA	21317CAK		180	41			3
21317C/W33	21317CAK/W33		180	41	8.3	4.5	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
311	380	2400	3200	82	138	2	4.3
311	380	2400	3200	82	138	2	5.23
311	380	2400	3200	82	138	2	5.23
158	208	3400	4300	84	121	1.5	1.65
158	208	3400	4300	84	121	1.5	1.71
158	208	3400	4300	84	121	1.5	1.71
235	300	2400	3200	87	148	2	3.55
235	300	2400	3200	87	148	2	5.44
345	430	2200	3000	87	148	2	5.56
345	430	2200	3000	87	148	2	5.56
345	430	2200	3000	87	148	2	5.25
345	430	2200	3000	87	148	2	5.44
345	430	2200	3000	87	148	2	5.4
345	430	2200	3000	87	148	2	5.32
176	228	3200	4000	90	130	2	2.1
176	228	3200	4000	90	130	2	2.05
176	228	3200	4000	90	130	2	2.03
258	335	2200	3000	92	158	2	4.2
258	335	2200	3000	92	158	2	4.48
258	335	2200	3000	92	158	2	6.79
374	455	2000	2800	92	158	2	6.2
374	455	2000	2800	92	158	2	7.47
374	455	2000	2800	92	158	2	7.47
374	455	2000	2800	92	158	2	7.36
374	455	2000	2800	92	158	2	7.34
210	270	3000	3800	95	140	2	2.73
210	270	3000	3800	95	140	2	2.55
210	270	3000	3800	95	140	2	2.69
293	375	2000	2800	99	166	2.5	5
293	375	2000	2800	99	166	2.5	5.3
293	375	2000	2800	99	166	2.5	5.3

Spherical roller bearings



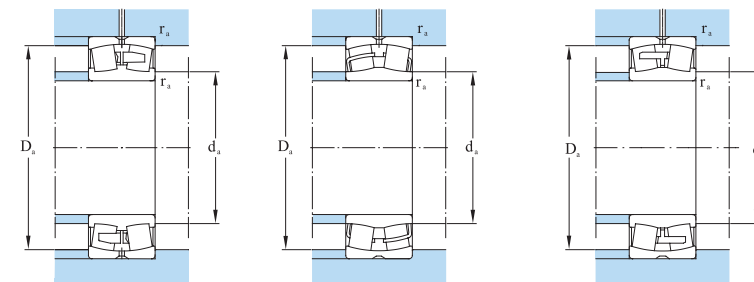
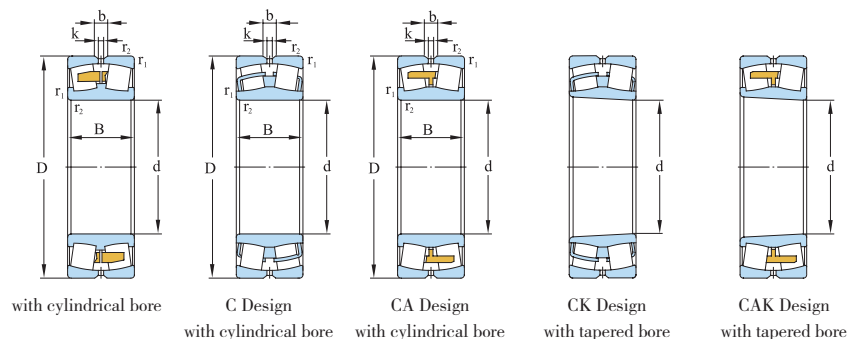
Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
22317		85	180	60			3
22317/W33			180	60	8.3	4.5	3
22317C/W33	22317CK/W33		180	60	8.3	4.5	3
22317CA/W33	22317CAK/W33		180	60	8.3	4.5	3
22317CAF3			180	60			3
22218		90	160	40			2
22218CA	22218CAK		160	40			2
2218CAF3			160	40			2
22218C/W33	22218CK/W33		160	40	8.3	4.5	2
22218CA/W33	22218CAK/W33		160	40	8.3	4.5	2
23218			160	52.4			2
23218C/W33	23218CK/W33		160	52.4	5.5	3	2
23218CA	23218CAK		160	52.4			2
23218CA/HAC9S0W24			160	52.4			2
23218CA/W33	23218CAK/W33		160	52.4	5.5	3	2
21318C	21318CK		190	43			3
21318CA	21318CAK		190	43			3
22318	22318K		190	64			3
22318C/W33	22318CK/W33		190	64	8.3	4.5	3
22318CA	22318CAK	95	190	64			3
22318C/W33	22318CAK/W33		190	64	8.3	4.5	3
22318CAF3	22318CAKF3		190	64			3
22219			170	43			2.1
22219C/W33	22219CK/W33		170	43	8.3	4.5	2.1
22219CA	22219CAK		170	43			2.1
22219C/W33	22219CAK/W33		170	43	8.3	4.5	2.1
21319C	21319CK		200	45			3
21319CA	21319CAK		200	45			3
22319			200	67			3
22319/W33			200	67	8.3	4.5	3
	22319CK		200	67			3
22319C/W33	22319CK/W33		200	67	8.3	4.5	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
420	520	1900	2600	99	166	2.5	8
420	520	1900	2600	99	166	2.5	8
420	520	1900	2600	99	166	2.5	7.25
420	520	1900	2600	99	166	2.5	8.19
420	520	1900	2600	99	166	2.5	8.12
253	340	2600	3400	100	150	2	3.4
253	340	2600	3400	100	150	2	3.4
253	340	2600	3400	100	150	2	3.38
253	340	2600	3400	100	150	2	3.4
253	340	2600	3400	100	150	2	3.4
311	440	1900	2600	100	150	2	4.66
311	440	1900	2600	100	150	2	4.6
311	440	1900	2600	100	150	2	4.82
311	440	1900	2600	100	150	2	4.72
311	440	1900	2600	100	150	2	4.82
322	425	1900	2600	104	176	2.5	5.8
322	425	1900	2600	104	176	2.5	6.15
477	610	1800	2400	104	176	2.5	8.6
477	610	1800	2400	104	176	2.5	8.6
477	610	1800	2400	104	176	2.5	11.5
477	610	1800	2400	104	176	2.5	11.5
477	610	1800	2400	104	176	2.5	11.2
282	375	2400	3200	107	158	2	4.27
282	375	2400	3200	107	158	2	4
282	375	2400	3200	107	158	2	4.68
282	375	2400	3200	107	158	2	4.68
351	480	1800	2400	109	186	2.5	7.15
351	480	1800	2400	109	186	2.5	7.49
518	670	1800	2400	109	186	2.5	10.6
518	670	1800	2400	109	186	2.5	10.6
518	670	1800	2400	109	186	2.5	10.4
518	670	1800	2400	109	186	2.5	10



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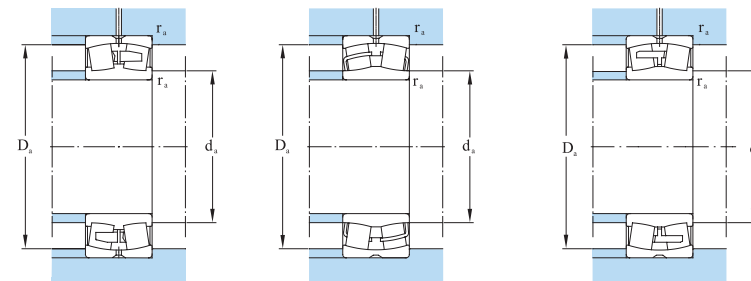
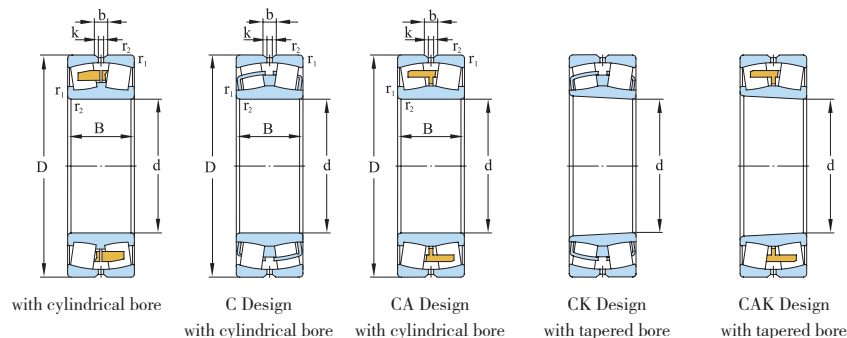
Spherical roller bearings



Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
22319CA		95	200	67			3
22319CA/W33	22319CAK/W33		200	67	8.3	4.5	3
23020C/W33	23020CK/W33		150	37	5.5	3	1.5
23020CA			150	37			1.5
23020CA/W33	23020CAK/W33		150	37	5.5	3	1.5
23120C/W33	23120CK/W33		165	52	5.5	3	2
23120CA			165	52			2
23120CA/W33	23120CAK/W33		165	52	5.5	3	2
22220			180	46			2.1
22220C/W33	22220CK/W33		180	46	8.3	4.5	2.1
22220CA	22220CAK	100	180	46			2.1
22220CA/W33	22220CAK/W33		180	46	8.3	4.5	2.1
22220CAF3	22220CAKF3		180	46			2.1
23220C/W33	23220CK/W33		180	60.3	9.5	4	2.1
23220CA	23220CAKF3/W33		180	60.3	9.5	4	2.1
23220CA/W33	23220CAK/W33		180	60.3	9.5	4	2.1
21320C	21320CK		215	47			3
21320CA	21320CAK		215	47			3
22320	22320CK		215	73			3
22320C/W33	22320CK/W33		215	73	11.1	6	3
22320CA	22320CAK	105	215	73			3
22320CA/W33	22320CAK/W33		215	73	11.1	6	3
22320CAF3	22320CAKF3		215	73			3
23121CA	23121CAK		175	56			2
23121CAL			175	56			2
23022C	23022CK		170	45			2
23022CA	23022CAK		170	45			2
23022CA/W33			170	45	7.5	3	2
23022CAF3			170	45			2
23022CAF3/W33			170	45	7.5	3	2
23122C/W33	23122CK/W33	110	180	56	5.5	3	2
23122CAF3			180	56			2

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
518	670	1800	2400	109	186	2.5	10.5
518	670	1800	2400	109	186	2.5	10.5
215	400	2400	3200	110	140	2	2.51
215	400	2400	3200	110	140	2	2.51
215	400	2400	3200	110	140	2	2.51
322	490	2000	2800	110	155	2	4.4
322	490	2000	2800	110	155	2	4.42
322	490	2000	2800	110	155	2	4.42
311	415	2200	3000	112	168	2	5.37
311	415	2200	3000	112	168	2	4.85
311	415	2200	3000	112	168	2	5.18
311	415	2200	3000	112	168	2	5.18
311	415	2200	3000	112	168	2	5.1
414	600	1700	2200	112	168	2	6.7
414	600	1700	2200	112	168	2	6.58
414	600	1700	2200	112	168	2	6.58
385	530	1700	2200	114	201	2.5	8.8
385	530	1700	2200	114	201	2.5	9
610	800	1700	2200	114	201	2.5	13.8
610	800	1700	2200	114	201	2.5	13
610	800	1700	2200	114	201	2.5	13
610	800	1700	2200	114	201	2.5	13.8
610	800	1700	2200	114	201	2.5	13.4
365	550	1900	2700	115	165	2	5.48
365	550	1900	2700	115	165	2	5.48
267	440	2200	3000	120	160	2	3.75
267	440	2200	3000	120	160	2	3.54
267	440	2200	3000	120	160	2	3.54
267	440	2200	3000	120	160	2	3.54
267	440	2200	3000	120	160	2	3.5
374	585	1900	2600	120	170	2	5.55
374	585	1900	2600	120	170	2	5.73

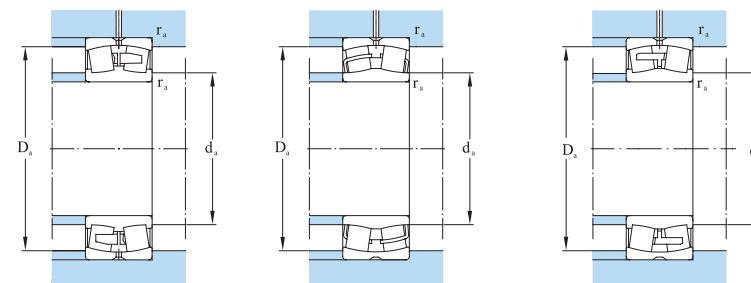
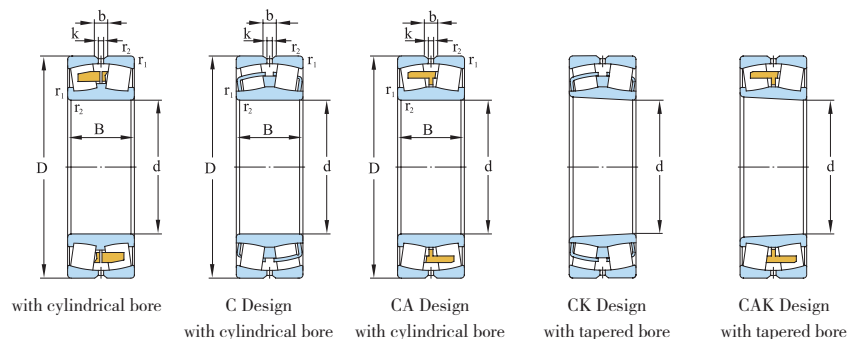
Spherical roller bearings



Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
23122CA		110	180	56			2
23122CA/W33	23122CAK/W33		180	56	5.5	3	2
24122/W33			180	69	5.5	3	2
24122C/W33	24122CK30/W33		180	69	5.5	3	2
24122CA			180	69			2
24122CA/W33	24122CAK30/W33		180	69	5.5	3	2
22222			200	53			2.1
22222/W33			200	53	8.3	4.5	2.1
	22222CK		200	53			2.1
22222C/W33	22222CK/W33		200	53	8.3	4.5	2.1
22222CA			200	53			2.1
22222CAF3			200	53			2.1
22222CA/W33	22222CAK/W33		200	53	8.3	4.5	2.1
23222C/W33	23222CK/W33		200	69.8	5.5	3	2.1
23222CA/W33	23222CAK/W33		200	69.8	5.5	3	2.1
23222CA			200	69.8			2.1
23222CAF3			200	69.8			2.1
23222CAF3/W33			200	69.8	5.5	3	2.1
21322C	21322CK	120	240	50			3
21322CA	21322CAK		240	50			3
22322	22322CK		240	80			3
22322C/W33	22322CK/W33		240	80	13.9	7.5	3
22322CA	22322CAK		240	80			3
22322CA/W33	22322CAK/W33		240	80	13.9	7.5	3
22322CAF3	22322CAKF3		240	80			3
23024	23024K		180	46			2
23024C/W33	23024CK/W33		180	46	5.5	3	2
	23024CK		180	46			2
23024CA	23024CAK		180	46			2
23024CA/W33	23024CAK/W33		180	46	5.5	3	2
24024C/W33	24024CK30/W33		180	60	5.5	3	2
24024CA			180	60			2

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
374	585	1900	2600	120	170	2	5.73
374	585	1900	2600	120	170	2	5.73
460	750	1000	1400	120	170	2	6.9
460	750	1000	1400	120	170	2	6.85
460	750	1000	1400	120	170	2	6.92
460	750	1000	1400	120	170	2	6.92
408	560	2000	2800	122	188	2	7
408	560	2000	2800	122	188	2	7.43
408	560	2000	2800	122	188	2	7.43
408	560	2000	2800	122	188	2	7
408	560	2000	2800	122	188	2	7.43
408	560	2000	2800	122	188	2	7.43
408	560	2000	2800	122	188	2	7.43
408	560	2000	2800	122	188	2	7.43
518	765	1600	2000	122	188	2	9.7
518	765	1600	2000	122	188	2	10.1
518	765	1600	2000	122	188	2	10.1
518	765	1600	2000	122	188	2	10.1
460	630	1600	2000	124	226	2.5	12
460	630	1600	2000	124	226	2.5	13
725	965	1600	2000	124	226	2.5	18.9
725	965	1600	2000	124	226	2.5	18
725	965	1600	2000	124	226	2.5	18.9
725	965	1600	2000	124	226	2.5	18.9
725	965	1600	2000	124	226	2.5	18.9
305	510	2000	2800	130	170	2	4.19
305	510	2000	2800	130	170	2	4.2
305	510	2000	2800	130	170	2	4.2
305	510	2000	2800	130	170	2	4.44
305	510	2000	2800	130	170	2	4.44
374	670	1600	2000	130	170	2	5.4
374	670	1600	2000	130	170	2	5.83

Spherical roller bearings

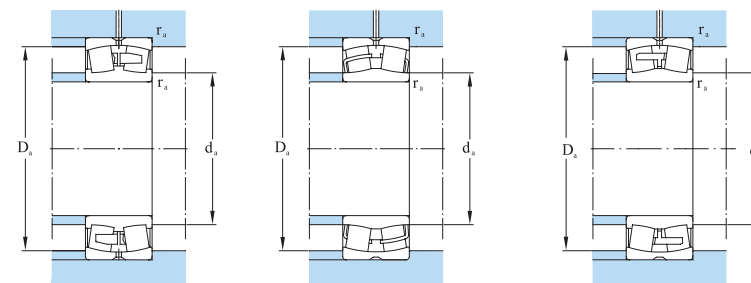
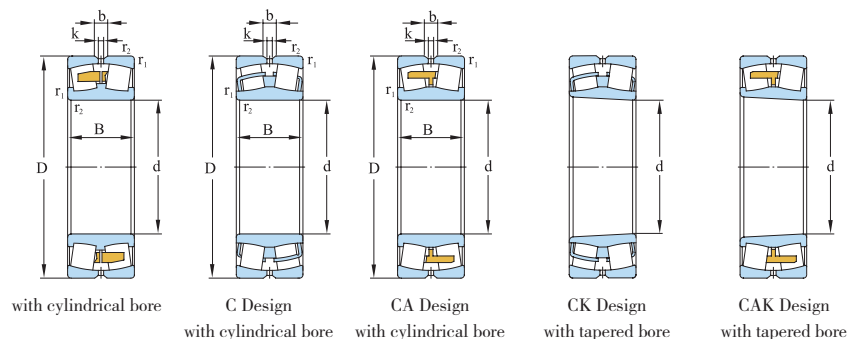


Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
24024CA/W33	24024CAK30/W33	120	180	60	5.5	3	2
23124C/W33	23124CK/W33		200	62	5.5	3	2
24124C/W33	24124CK30/W33		200	80	5.5	3	2
24124CA			200	80			2
24124CA/W33	24124CAK30/W33		200	80	5.5	3	2
24124CAF3			200	80			2
22224	22224K		215	58			2.1
22224C/W33	22224CK/W33		215	58	11.1	6	2.1
22224CA	22224CAK		215	58			2.1
22224CAF3	22224CAKF3		215	58			2.1
	22224CAKF3/W33		215	58	11.1	6	2.1
23026C/W33	23026CK/W33	130	200	52	5.5	3	2
23026CA	23026CAK		200	52			2
23026CA/W33	23026CAK/W33		200	52	5.5	3	2
23026CAF3	23026CAKF3		200	52			2
23026CAF3/W33	23026CAKF3/W33		200	52	5.5	3	2
24026C/W33	24026CK30/W33		200	69	5.5	3	2
24026CA/W33	24026CAK30/W33		210	69	5.5	3	2
23126C/W33	23126CK/W33		210	64	8.3	4.5	2
23126CA	23126CAKF3/W33		210	64	8.3	4.5	2
23126CA/W33	23126CAK/W33		210	64	8.3	4.5	2
24126C/W33	24126CK30/W33		210	80	8.3	4.5	2
24126CA/W33	24126CAK30/W33		210	80	8.3	4.5	3
22226/W33			230	64	11.1	6	3
22226C/W33	22226CK/W33		230	64	11.1	6	3
22226CA	22226CAK		230	64			3
22226CA/W33	22226CAK/W33		230	64	11.1	6	3
	22226CAKF3		230	64			3
23226C/W33	23226CK/W33		230	80	8.3	4.5	3
23226CA	23226CAK		230	80			3
23226CA/W33			230	80	8.3	4.5	3
23226CAF3	23226CAKF3		230	80			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
374	670	1600	2000	130	170	2	5.83
449	695	1800	2400	130	190	2	7.8
575	950	900	1200	130	190	2	10
575	950	900	1200	130	190	2	10.6
575	950	900	1200	130	190	2	10.6
575	950	900	1200	130	190	2	10.6
466	670	1900	2600	132	203	2	8.7
466	670	1900	2600	132	203	2	8.7
466	670	1900	2600	132	203	2	9.76
466	670	1900	2600	132	203	2	9.68
466	670	1900	2600	132	203	2	9.68
374	610	1900	2600	140	190	2	6.1
374	610	1900	2600	140	190	2	7.04
374	610	1900	2600	140	190	2	7.04
374	610	1900	2600	140	190	2	6.75
374	610	1900	2600	140	190	2	6.75
477	815	1500	1900	140	190	2	7.95
477	815	1500	1900	140	190	2	8.28
489	780	1700	2200	140	200	2	8.55
489	780	1700	2200	140	200	2	10.7
489	780	1700	2200	140	200	2	10.7
587	1000	900	1200	140	200	2	11
587	1000	900	1200	140	200	2	12
546	800	1800	2400	144	216	2.5	11
546	800	1800	2400	144	216	2.5	11
546	800	1800	2400	144	216	2.5	12.4
546	800	1800	2400	144	216	2.5	12.4
546	800	1800	2400	144	216	2.5	12.4
690	1060	1300	1700	144	216	2.5	14
690	1060	1300	1700	144	216	2.5	14
690	1060	1300	1700	144	216	2.5	14



Spherical roller bearings

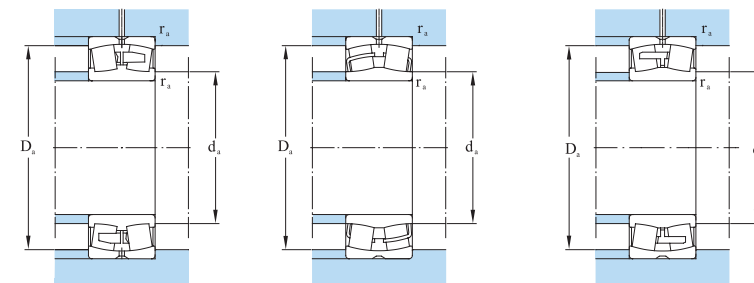
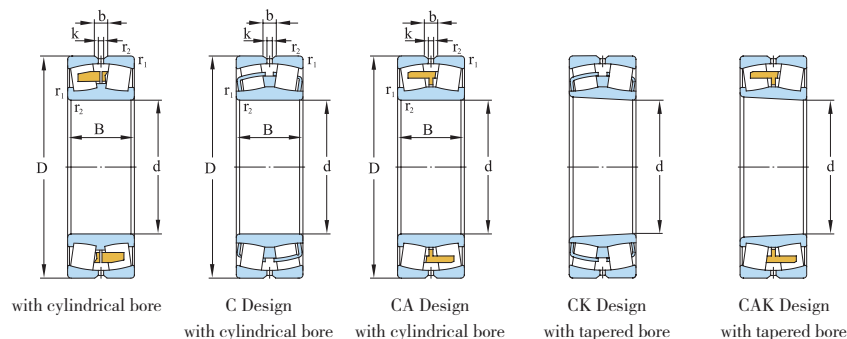


Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
23226CAF3/W33		130	230	80	12	5	3
23226CAF3/HAC9SOW20X			230	80			3
22326C/W33	22326CK/W33		230	93	16.7	9	4
22326CA	22326CAK		230	93			4
22326CAF3			230	93			4
22326CAF3/W33			230	93	16.7	9	4
22326CA/W33	22326CAK/W33		230	93	16.7	9	4
22326CAQ1/HA			230	93			4
23028C/W33	23028CK/W33	140	210	53	8.3	4.5	2
23028CA	23028CAK		210	53			2
23028CAF3	23028CAKF3		210	53			2
23028CA/W33	23028CAK/W33		210	53	8.3	4.5	2
24028C/W33	24028CK30/W33		210	69	5.5	3	2
24028CA/W33	24028CAK30/W33		210	69	5.5	3	2
23128C/W33	23128CK/W33		225	68	8.3	4.5	2.1
23128CA			225	68			2.1
23128CA/W33	23128CAK/W33		225	68	8.3	4.5	2.1
24128C/W33	24128CK/W33		225	85	8.3	4.5	2.1
24128CA	24128CAK30/W33		225	85	8.3	4.5	2.1
24128CAF3			225	85			2.1
24128CA/W33	24128CAK/W33		225	85	8.3	4.5	2.1
22228C/W33	22228CK/W33		250	68	11.1	6	3
22228CA	22228CAK		250	68			3
22228CA/W33	22228CAK/W33		250	68	11.1	6	3
22228CAF3			250	68			3
22228CAF3/W33	22228CAKF3/W33		250	68	11.1	6	3
23228C/W33	23228CK/W33		250	88	11.1	6	3
23228CA/W33	23228CAK/W33		250	88	11.1	6	3
23228CAF3/W33			250	88	11.1	6	3
22328			300	102			3.7
22328C/W33	22328CK/W33		300	102	16.7	9	4
22328CA	22328CAK		300	102			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
690	1060	1300	1700	144	216	2.5	14
690	1060	1300	1700	144	216	2.5	14
978	1320	1300	1700	148	262	3	28.5
978	1320	1300	1700	148	262	3	28.5
978	1320	1300	1700	148	262	3	28.5
978	1320	1300	1700	148	262	3	28.5
978	1320	1300	1700	148	262	3	18.3
978	1320	1300	1700	148	262	3	18.3
397	680	1800	2400	150	200	2	6.55
397	680	1800	2400	150	200	2	6.55
397	680	1800	2400	150	200	2	6.55
397	680	1800	2400	150	200	2	6.7
495	900	1400	1800	150	200	2	8.45
495	900	1400	1800	150	200	2	8.65
546	900	1600	2000	152	213	2	10.5
546	900	1600	2000	152	213	2	10.9
546	900	1600	2000	152	213	2	10.9
673	1160	850	1100	152	213	2	13
673	1160	850	1100	152	213	2	13.5
673	1160	850	1100	152	213	2	13.5
610	900	1700	2200	154	236	2.5	14
610	900	1700	2200	154	236	2.5	16.2
610	900	1700	2200	154	236	2.5	16.2
610	900	1700	2200	154	236	2.5	15.6
610	900	1700	2200	154	236	2.5	15.6
799	1250	1200	1600	154	236	2.5	18.5
799	1250	1200	1600	154	236	2.5	19.7
799	1250	1200	1600	154	236	2.5	19.3
1130	1560	1100	1500	158	282	3	
1130	1560	1100	1500	158	282	3	34.5
1130	1560	1100	1500	158	282	3	36.2



Spherical roller bearings

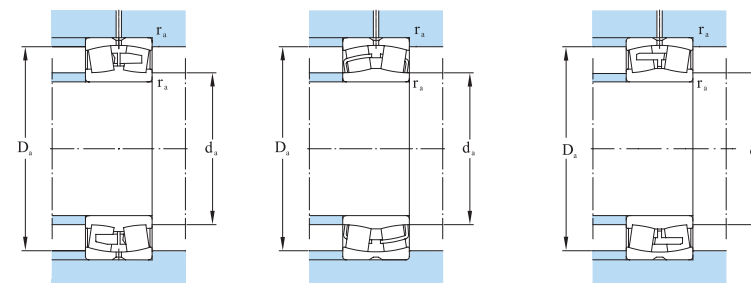
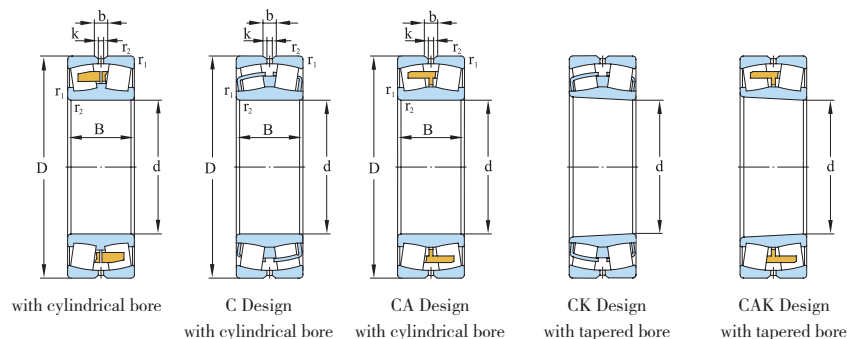


Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
22328CA/W33	22328CAK/W33	140	300	102	16.7	9	4
22328CAF3			300	102			4
22328CAQ1/HA			300	102			4
23030	23030K	150	225	56			2.1
23030C/W33	23030CK/W33		225	56	8.3	4.5	2.1
23030CA			225	56			2.1
23030CAF3			225	56			2.1
23030CA/W33	23030CAK/W33		225	56	8.3	4.5	2.1
24030C/W33	24030CK30/W33		225	75	5.5	3	2.1
24030CA/W33	24030CAK30/W33		225	75	5.5	3	2.1
23130/W33			250	80	11.1	6	2.1
23130C/W33	23130CK/W33		250	80	11.1	6	2.1
23130CA	23130CAK		250	80			2.1
23130CA/W33	23130CAK/W33		250	80	11.1	6	2.1
23130CAF3			250	80			2.1
23130CAF3/W33	23130CAKF3/W33		250	80	11.1	6	2.1
24130C/W33	24130CK30/W33		250	100	8.3	4.5	2.1
24130CA/W33	24130CAK30/W33		250	100	8.3	4.5	2.1
22230/W33			270	73	13.9	7.5	3
22230C/W33	22230CK/W33		270	73	13.9	7.5	3
22230CA	22230CAK		270	73			3
22230CAF3			270	73			3
22230CA/W33	22230CAK/W33		270	73	13.9	7.5	3
23230			270	96			3
23230C/W33	23230CK/W33		270	96	11.1	6	3
23230CA			270	96			3
23230CA/W33	23230CAK/W33		270	96	11.1	6	3
22330C/W33	22330CK/W33		320	108	16.7	9	4
22330CA	22330CAK		320	108			4
22330CA/W33	22330CAK/W33		320	108	16.7	9	4
	22330CAKF3		320	108			4
23032	23032K	160	240	60			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
1130	1560	1100	1500	158	282	3	36.2
1130	1560	1100	1500	158	282	3	36.2
1130	1560	1100	1500	158	282	3	36.2
437	750	1700	2200	162	213	2	7.44
437	750	1700	2200	162	213	2	7.95
437	750	1700	2200	162	213	2	8.01
437	750	1700	2200	162	213	2	8.01
437	750	1700	2200	162	213	2	8.01
564	1040	1300	1700	162	213	2	10.5
564	1040	1300	1700	162	213	2	9.39
725	1200	1400	1800	162	238	2	16
725	1200	1400	1800	162	238	2	16
725	1200	1400	1800	162	238	2	16.5
725	1200	1400	1800	162	238	2	16.5
725	1200	1400	1800	162	238	2	16.5
725	1200	1400	1800	162	238	2	16.5
897	1530	800	1000	162	238	2	19.5
897	1530	800	1000	162	238	2	21
736	1080	1600	2000	164	256	2.5	18
736	1080	1600	2000	164	256	2.5	18
736	1080	1600	2000	164	256	2.5	18
736	1080	1600	2000	164	256	2.5	18.7
937	1460	1100	1500	164	256	2.5	24
937	1460	1100	1500	164	256	2.5	24
937	1460	1100	1500	164	256	2.5	24
937	1460	1100	1500	164	256	2.5	26.6
1270	1760	1000	1400	168	302	3	41.5
1270	1760	1000	1400	168	302	3	42.7
1270	1760	1000	1400	168	302	3	42.7
1270	1760	1000	1400	168	302	3	42.7
506	880	1700	2200	172	228	2	8.86



Spherical roller bearings



Designations		Boundary dimensions					
		d	D	B	b	k	r _{1,2} min
with cylindrical bore	with tapered bore	mm					
23032C/W33	23032CK/W33	160	240	60	11.1	6	2.1
23032CA			240	60			2.1
23032CA/W33	23032CAK/W33		240	60	11.1	6	2.1
23032CAF3			240	60			2.1
24032C/W33	24032CK30/W33		240	80	8.3	4.5	2.1
24032CA/W33	24032CAK30/W33		240	80	8.3	4.5	2.1
24032CAF3/W33	24032CAK30F3		240	80	8.3	4.5	2.1
	24032CAK30/W33		240	80	8.3	4.5	2.1
23132C/W33	23132CK/W33		270	86	13.9	7.5	2.1
23132CA	23132CAK		270	86			2.1
23132CA/W33	23132CAK/W33		270	86	13.9	7.5	2.1
23132CAF3			270	86			2.1
24132C/W33	24132CK30/W33		270	109	8.3	4.5	2.1
24132CA/W33	24132CAK30/W33		270	109	8.3	4.5	2.1
24132CA/W33X			270	109	8.3	4.5	2.1
24132CA/HAC9SOW20X			270	109			2.1
22232C/W33	22232CK/W33		290	80	13.9	7.5	3
22232CA	22232CAK		290	80			3
22232CA/W33	22231CAK/W33		290	80	13.9	7.5	3
22232CAF3			290	80			3
23232			290	104			3
23232/W33			290	104	13.9	7.5	3
23232C/W33	23232CK/W33		290	104	13.9	7.5	3
23232CA	23232CAK		290	104			3
23232CA/W33	23232CAK/W33		290	104	13.9	7.5	3
22332			340	114			4
22332C/W33	22332CK/W33		340	114	16.7	9	4
22332CA	22332CAK		340	114			4
22332CA/W33	22332CAK/W33		340	114	16.7	9	4
22332CAF3			340	114			4
22332CAF3/W33	22332CAKF3/W33		340	114	16.7	9	4
23034	23034K	170	260	67			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
506	880	1700	2200	172	228	2	9.7
506	880	1700	2200	172	228	2	10
506	880	1700	2200	172	228	2	10
506	880	1700	2200	172	228	2	9.97
656	1200	1100	1500	172	228	2	13
656	1200	1100	1500	172	228	2	13.2
656	1200	1100	1500	172	228	2	13.2
656	1200	1100	1500	172	228	2	13.2
845	1370	1300	1700	172	258	2	20.5
845	1370	1300	1700	172	258	2	21.9
845	1370	1300	1700	172	258	2	21.9
845	1370	1300	1700	172	258	2	21.9
1040	1760	700	900	172	258	2	25
1040	1760	700	900	172	258	2	24.6
1040	1760	700	900	172	258	2	24.6
1040	1760	700	900	172	258	2	24.6
863	1290	1500	1900	174	276	2.5	22.5
863	1290	1500	1900	174	276	2.5	24.6
863	1290	1500	1900	174	276	2.5	24.6
863	1290	1500	1900	174	276	2.5	24.6
1070	1660	1000	1400	174	276	2.5	30
1070	1660	1000	1400	174	276	2.5	30.2
1070	1660	1000	1400	174	276	2.5	30
1070	1660	1000	1400	174	276	2.5	30.2
1070	1660	1000	1400	174	276	2.5	30.2
1380	1960	950	1300	178	322	3	50
1380	1960	950	1300	178	322	3	50
1380	1960	950	1300	178	322	3	50
1380	1960	950	1300	178	322	3	52.8
1380	1960	950	1300	178	322	3	52.5
1380	1960	950	1300	178	322	3	52.5
621	1060	1600	2000	182	248	2	13