



SKF Double-row spherical roller bearing Cylindrical bore

Spherical roller bearings have two rows of rollers, a common sphered outer ring raceway and two inner ring raceways inclined at an angle to the bearing axis. The centre point of the sphere in the outer ring raceway is at the bearing axis. Therefore, the bearings are self-aligning and insensitive to misalignment of the shaft relative to the housing, which can be caused, for example, by shaft deflection. Spherical roller bearings are designed to accommodate heavy radial loads, as well as heavy axial loads in both directions.

The assortment of standard bearings includes basic design bearings, sealed bearings, bearings for vibratory applications.

Spherical roller bearings without seals

Open spherical roller bearings are available with either a cylindrical or tapered bore to suit all mounting methods. Depending on the bearing series, the tapered bore has a taper of either 1:12 [designation suffix K] or 1:30 [designation suffix K30]. To facilitate efficient lubrication, most bearings are provided with an annular groove and three lubrication holes in the outer ring.

Characteristics

Series: 223

Bore: Cylindrical bore

With sealing: No

Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Cage	Article
Max. 200 articles in the table						
22205 E/C3VQ335	25	52	18	C3	Steel	12699568
22208 E/C5	40	80	23	C5	Steel	12121536
22308 EN/VB238	40	90	33	CN (normal)	Steel	13196092
21309 EW	45	100	25	CN (normal)	Steel	13195871
22309 E/C4	45	100	36	C4	Steel	13196094
22210 E/C5	50	90	23	C5	Steel	13195961
22211 E/C2	55	100	25	C2	Steel	11953838
22311 E/C2	55	120	43	C2	Steel	13196100
22212 E/C2	60	110	28	C2	Steel	13195973
22312 E/C1	60	130	46	C1	Steel	13196104
24015 CC/C3W33	75	115	40	C3	Steel	13196550
24015 CC/C4S3W33	75	115	40	C4	Steel	13196551
22315 E/C2	75	160	55	C2	Steel	13196112
22216 E/C5	80	140	33	C5	Steel	12121537
22317 E/C4	85	180	60	C4	Steel	13196119
22218 E/C2	90	160	40	C2	Steel	13196004
22218 E/C103H	90	160	40	CN (normal)	Steel	13196003
23218 CC/C2W33	90	160	52.4	C2	Steel	12121569
23218 CC/C3	90	160	52.4	C3	Steel	13196423
23218 CC/C5W33	90	160	52.4	C5	Steel	13196424
23120 CC/C2W33	100	165	52	C2	Steel	13196324
23220 CC/C2W33	100	180	60.3	C2	Steel	13196427
22320 E/C2H	100	215	73	C2	Steel	13196131
22320 E/C3W26	100	215	73	C3	Steel	13196132
23122 CC/C2W33	110	180	56	C2	Steel	13196330
23122 CC/C3W509	110	180	56	C3	Steel	13196332
23122 CC/C3W33VG114	110	180	56	C3	Steel	13196331
23122 VAF	110	180	56	CN (normal)	Steel	13196339
22222 E/C2	110	200	53	C2	Steel	13196028

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	mm	mm	mm			Max. 200 articles in the table
23222 CC/C2W33	110	200	69.8	C2	Steel	13196435
22322 EW/C3VA355	110	240	80	C3	Steel	13196141
22324/114.8 CC/C3	114.8	260	86	C3	Steel	13196164
23024 CC/C2W33	120	180	46	C2	Steel	13196220
24024 CC/C2W33	120	180	60	C2	Steel	13196558
24024 CC/ C4W33VE294	120	180	60	C4	Steel	13196561
23224 CC/C2W33	120	215	76	C2	Steel	13196442
23224 CC/C3	120	215	76	C3	Steel	13196443
22324 CC/C1W33	120	260	86	C1	Steel	13196142
22324 CC/C2W33	120	260	86	C2	Steel	13196153
22324 CC/ C3W33VU053	120	260	86	C3	Steel	13196155
22324 CC/C3	120	260	86	C3	Steel	13196154
22324 CC/C401W33	120	260	86	C4	Steel	13196157
22324 VAJ	120	260	86	CN (normal)	Steel	13196163
22324 CC/W513	120	260	86	CN (normal)	Steel	13196158
23026 CC/C2W33	130	200	52	C2	Steel	13196224
24026 CC/ C4W33VE294	130	200	69	C4	Steel	13196567
23126 CC/W513	130	210	64	CN (normal)	Steel	13196343
22226 E/C2	130	230	64	C2	Steel	13196041
23226 CC/C2MW33	130	230	80	C2	Brass	13196454
23226 CC/C2W33	130	230	80	C2	Steel	13196455
23226 CC/C1W33	130	230	80	CN (normal)	Steel	13196453
22326 CC/C2W33	130	280	93	C2	Steel	13196167
22326 CC/C3VA355	130	280	93	C3	Steel	13196168
22326 CC/C3W513	130	280	93	C3	Steel	13196170
22326 CC/C3W502	130	280	93	C3	Steel	13196169
23028 CC/C2W33	140	210	53	C2	Steel	13196235
23028 CC/C5W33	140	210	53	C5	Steel	13196236
22228 CC/C2W33	140	250	68	C2	Steel	13196043
22228 CC/C403W33	140	250	68	C4	Steel	13196046
23228 CC/C2W33	140	250	88	C2	Steel	13196465
22328 CC/C2W33	140	300	102	C2	Steel	13196180
22328 CC/C3W513	140	300	102	C3	Steel	13196182
22328 CC/C3W502	140	300	102	C3	Steel	13196181
24030 CC/C2W33	150	225	75	C2	Steel	13196577
23130 CC/C2W33	150	250	80	C2	Steel	13196352
23130 CC/C5W33	150	250	80	C5	Steel	13196356
22230 CC/C2W33	150	270	73	C2	Steel	13196055
22230 CC/C3W513	150	270	73	C3	Steel	13196056
22230 CC/C4W33	150	270	73	C4	Steel	13196058
23230 CC/W33VE194	150	270	96	CN (normal)	Steel	13196473
22330 CC/C3W502	150	320	108	C3	Steel	13196190
22330 CC/C3W509	150	320	108	C3	Steel	13196191
22330 CC/C3W513	150	320	108	C3	Steel	13196192
22330 CC/C4W33	150	320	108	C4	Steel	13196196
22330 CC/C4	150	320	108	C4	Steel	13196195
23032 CC/C2W33	160	240	60	C2	Steel	13196248
23032 CC/W33VE194	160	240	60	CN (normal)	Steel	13196249
24032 CC/C2W33	160	240	80	C2	Steel	13196583
24032 CC/ C4W33VE294	160	240	80	C4	Steel	13196585
24032 CC/C4	160	240	80	C4	Steel	13196584

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Manufacturer ID	Inner diameter	Outer diameter	Width	Internal clearance	Cage	Article
	mm	mm	mm			Max. 200 articles in the table
23132 CC/C2W33	160	270	86	C2	Steel	13196363
23132 CC/C5W33	160	270	86	C5	Steel	13196365
23132 CC/C08W33	160	270	86	CN (normal)	Steel	13196362
23132 CC/W513	160	270	86	CN (normal)	Steel	13196367
22232 CC/C2W33	160	290	80	C2	Steel	13196064
22232 CC/C3S2W33	160	290	80	C3	Steel	13196065
22232 CC/C4W33	160	290	80	C4	Steel	12215193
23232 CC/C4W33	160	290	104	C4	Steel	12134614
23232 CC/W33VG114	160	290	104	CN (normal)	Steel	13196479
23034 CC/C2LW33	170	260	67	C2L	Steel	13196254
23034 CC/C2W33	170	260	67	C2	Steel	13196255
23034 CC/C3	170	260	67	C3	Steel	13196256
23034 CC/C5W33	170	260	67	C5	Steel	13196258
24034 CC/C2W33	170	260	90	C2	Steel	13196594
22234 CC/C2W33	170	310	86	C2	Steel	13196075
22234 CC/C403W33	170	310	86	C4	Steel	13196076
23234 CC/C3W513	170	310	110	C3	Steel	13196481
23234 CC/C4W33	170	310	110	C4	Steel	13196482
23234 CC/W513	170	310	110	CN (normal)	Steel	13196483
22334 CC/C4W33	170	360	120	C4	Steel	13196208
22334 CC/W513	170	360	120	CN (normal)	Steel	13196209
23936 CC/C4W33	180	250	52	C4	Steel	13196507
23036 CC/C082W33	180	280	74	C2	Steel	13196263
23036 CC/C2W33	180	280	74	C2	Steel	11935812
23036 CC/C4W33	180	280	74	C4	Steel	13196265
23036 CC/C5W33	180	280	74	C5	Steel	13196266
23036 CC/W33VE194	180	280	74	CN (normal)	Steel	13196267
23036 CC/C08W33	180	280	74	CN (normal)	Steel	13196264
24036 CC/HA3C3W33	180	280	100	C3	Steel	13196600
24036 CC/HA3C4W33	180	280	100	C4	Steel	13196601
24036 CC/C5W33	180	280	100	C5	Steel	13196599
23136 CC/C2W33	180	300	96	C2	Steel	13196376
23136 CC/C5W33	180	300	96	C5	Steel	13196377
23136 CC/C08W33	180	300	96	CN (normal)	Steel	13196375
22236 CC/C5W33	180	320	86	C5	Steel	13196081
23236 CC/C2W33	180	320	112	C2	Steel	13196485
23236 CC/C3W513	180	320	112	C3	Steel	13196488
23236 CC/C3W26	180	320	112	C3	Steel	13196486
22336 CC/C2W33	180	380	126	C2	Steel	13196213
22336 CC/C4W33	180	380	126	C4	Steel	13196214
23138 CC/C2W33	190	320	104	C2	Steel	13196385
23138 CC/C4W33	190	320	104	C4	Steel	13196386
23238 CC/C2W33	190	340	120	C2	Steel	13196492
23940 CC/C2W33	200	280	60	C2	Steel	13196514
23940 CC/C3HW33	200	280	60	C3	Steel	13196515
23940 CC/C5W33	200	280	60	C5	Steel	13196516
23940 CC/W507	200	280	60	CN (normal)	Steel	13196517
23040 CC/C3W33VR506	200	310	82	C3	Steel	13196271
23040 CC/C5W33	200	310	82	C5	Steel	13196274
23040 CC/W513	200	310	82	CN (normal)	Steel	13196275
23040 CC/C08W33	200	310	82	CN (normal)	Steel	13196270
24040 CC/HA3C3W33	200	310	109	C3	Steel	13196607

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	mm	mm	mm			Max. 200 articles in the table
24040 CC/C3W513	200	310	109	C3	Steel	13196605
24040 CC/HA3C4W33	200	310	109	C4	Steel	13196608
24040 CC/C5W33	200	310	109	C5	Steel	13196606
24040 CC/HA3W33	200	310	109	CN (normal)	Steel	13196609
23140 CC/C2W33	200	340	112	C2	Steel	13196394
23140 CC/C085W33	200	340	112	C5	Steel	13196392
23240 CC/C4W33	200	360	128	C4	Steel	13196499
22340 CC/C4W33	200	420	138	C4	Steel	13196216
23944 CC/C2W33	220	300	60	C2	Steel	13196521
23944 CC/C3W513	220	300	60	C3	Steel	13196522
23044 CC/C5W33	220	340	90	C5	Steel	13196281
23044 CC/C08W33	220	340	90	CN (normal)	Steel	13196280
24044 CC/C2W33	220	340	118	C2	Steel	13196616
24044 CC/C4W33	220	340	118	C4	Steel	13196618
24044 CC/C5W33	220	340	118	C5	Steel	12762367
24044 CC/W33VE194	220	340	118	CN (normal)	Steel	13196619
23144 CC/C5W33	220	370	120	C5	Steel	13196403
24144 CC/C4W33	220	370	150	C4	Steel	11618033
23244 CC/C2W33	220	400	144	C2	Steel	13196504
23244 CC/C4W33	220	400	144	C4	Steel	11617227
23948 CC/C3W513	240	320	60	C3	Steel	13196527
23048 CC/C2W33	240	360	92	C2	Steel	13196287
23048 CC/C4W33	240	360	92	C4	Steel	13196288
23048 CC/C5W33	240	360	92	C5	Steel	13196289
23048 CC/C08W509	240	360	92	CN (normal)	Steel	13196286
24048 CC/C4W33	240	360	118	C4	Steel	13196623
23148 CC/C2W33	240	400	128	C2	Steel	13196410
23148 CC/C5W33	240	400	128	C5	Steel	13196411
24148 CC/C4W33	240	400	160	C4	Steel	11618036
22348 CC/C3W33	240	500	155	C3	Steel	11617113
23952 CC/C2W33	260	360	75	C2	Steel	13196532
23952 CC/W33VE194	260	360	75	CN (normal)	Steel	13196533
23052 CC/C2W33	260	400	104	C2	Steel	13196297
23052 CC/C5W33	260	400	104	C5	Steel	13196298
23052 CC/C08W506	260	400	104	CN (normal)	Steel	13196294
23052 CC/C08W509	260	400	104	CN (normal)	Steel	13196295
23052 CC/W77	260	400	104	CN (normal)	Steel	13196300
23052 CC/C08W33	260	400	104	CN (normal)	Steel	13196293
22252 CAC/C3W33	260	480	130	C3	Brass	11968654
23252 CC/C3W33	260	480	174	C3	Steel	12709221
23956 CC/C2W33	280	380	75	C2	Steel	12579425
23956 CC/W513	280	380	75	CN (normal)	Steel	13196538
23056 CC/C2W33	280	420	106	C2	Steel	13196303
23056 CC/W33VQ424	280	420	106	CN (normal)	Steel	13196304
23960 CC/C3W513	300	420	90	C3	Steel	13196542
23060 CC/W513	300	460	118	CN (normal)	Steel	11617147
22260 CC/W33	300	540	140	CN (normal)	Steel	12954238
23964 CC/C4W33	320	440	90	C4	Steel	12653737
24064 CC/C4W33	320	480	160	C4	Steel	12227919
23968 CC/C5W33	340	460	90	C5	Steel	12765531
23172 CAC/C08W509	360	600	192	CN (normal)	Brass	12988867
23076 CC/C3W33	380	560	135	C3	Steel	11617159
23080 CAC/C08W509	400	600	148	CN (normal)	Brass	12124774

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	mm	mm	mm			Max. 200 articles in the table
24092 ECA/W33	460	680	218	CN (normal)	Brass	12766321
230/530 CA/W33	530	780	185	CN (normal)	Brass	13196218
240/630 ECJ/W33	630	920	290	CN (normal)	Steel	13196548
						11617242
						11617266
						11610715
						12133733
						12691969
						12698618
						12569101
						12650072
						12692040
						12725599
						12647864

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