



SKF Double-row spherical roller bearing Tapered 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: 222

Bore: Tapered 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 EK/C3	25	52	18	C3	Steel	23755536
22205 EK	25	52	18	CN (normal)	Steel	23755535
22206 EK/C3	30	62	20	C3	Steel	23755541
22206 EK	30	62	20	CN (normal)	Steel	23755540
22207 EK/C3	35	72	23	C3	Steel	23755545
22207 EK	35	72	23	CN (normal)	Steel	23755544
22208 EK/C3	40	80	23	C3	Steel	23755552
22208 EK	40	80	23	CN (normal)	Steel	23755551
21308 EKW	40	90	23	CN (normal)	Steel	23755375
22308 EK/C2	40	90	33	C2	Steel	13196091
22209 EK/C3	45	85	23	C3	Steel	23755557
22209 EK	45	85	23	CN (normal)	Steel	23755556
21309 EK/C3	45	100	25	C3	Steel	23755379
21309 EK	45	100	25	CN (normal)	Steel	23755378
22210 EK/C3	50	90	23	C3	Steel	23755562
22210 EK/C4	50	90	23	C4	Steel	13195962
22210 EK	50	90	23	CN (normal)	Steel	23755561
22210 EK/VA751	50	90	23	CN (normal)	Steel	12174005
21310 EK/C3	50	110	27	C3	Steel	23755383
21310 EK	50	110	27	CN (normal)	Steel	23755382
22238 CCK/C403W33	50	340	92	C4	Steel	13196086
22211 EK/C3	55	100	25	C3	Steel	23755568
22211 EK/VA759	55	100	25	CN (normal)	Steel	13195969
22211 EK	55	100	25	CN (normal)	Steel	23755567
21311 EK/C3	55	120	29	C3	Steel	23755387
21311 EK	55	120	29	CN (normal)	Steel	23755386
22212 EK/C2	60	110	28	C2	Steel	12115538
22212 EK/C3	60	110	28	C3	Steel	23755574
22212 EK/C4	60	110	28	C4	Steel	13195976
22212 EK	60	110	28	CN (normal)	Steel	23755573

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Spherical Roller Bearings | Double Row Spherical Roller Bearings

Manufacturer ID	Inner diameter	Outer diameter	Width	Internal clearance	Cage	Article
	mm	mm	mm			Max. 200 articles in the table
21312 EK/C3	60	130	31	C3	Steel	23755391
21312 EK	60	130	31	CN (normal)	Steel	23755390
22312 EK/VA751	60	130	46	CN (normal)	Steel	23228345
22213 EK/C3	65	120	31	C3	Steel	23755580
22213 EK/C4	65	120	31	C4	Steel	23755581
22213 EK	65	120	31	CN (normal)	Steel	23755579
21313 EK/C3	65	140	33	C3	Steel	23755395
21313 EK	65	140	33	CN (normal)	Steel	23755394
22214 EK/C3	70	125	31	C3	Steel	23755586
22214 EK	70	125	31	CN (normal)	Steel	23755585
21314 EK	70	150	35	CN (normal)	Steel	23755398
22215 EK/C3	75	130	31	C3	Steel	23755593
22215 EK	75	130	31	CN (normal)	Steel	23755592
21315 EK/C3	75	160	37	C3	Steel	23755402
21315 EK	75	160	37	CN (normal)	Steel	23755401
22315 EK/VA751	75	160	55	CN (normal)	Steel	13529431
22216 EK/C2	80	140	33	C2	Steel	13195994
22216 EK/C3	80	140	33	C3	Steel	23755599
22216 EK/C4	80	140	33	C4	Steel	23755600
22216 EK	80	140	33	CN (normal)	Steel	23755598
22216 EK/VA759	80	140	33	CN (normal)	Steel	13195996
21316 EK/C3	80	170	39	C3	Steel	23755406
21316 EK	80	170	39	CN (normal)	Steel	23755405
22217 EK/C3	85	150	36	C3	Steel	23755605
22217 EK/C4	85	150	36	C4	Steel	23755606
22217 EK	85	150	36	CN (normal)	Steel	23755604
22217 EK/VA759	85	150	36	CN (normal)	Steel	13196001
21317 EK/C3	85	180	41	C3	Steel	23755410
21317 EK	85	180	41	CN (normal)	Steel	23755409
22218 EK/VA751	90	160	40	CN (normal)	Steel	12174006
21318 EK	90	190	43	CN (normal)	Steel	23755413
21319 EK	95	200	45	CN (normal)	Steel	23755416
23120 CCK/CNHW33	100	165	52	CNH	Steel	13196328
22220 EK/VA751	100	180	46	CN (normal)	Steel	13310181
22220 EKW	100	180	46	CN (normal)	Steel	13196024
23220 CCK/C4W33	100	180	60.3	C4	Steel	13196431
21320 EK/C3	100	215	47	C3	Steel	23755420
21320 EK	100	215	47	CN (normal)	Steel	23755419
22320 EK/C2	100	215	73	C2	Steel	12058872
22320 EKN1/C3	100	215	73	C3	Steel	13196136
23022 CCK/W33	110	170	45	CN (normal)	Steel	13529432
23122 CCK/C08W33	110	180	56	CN (normal)	Steel	13196336
23122 CCK/VA759	110	180	56	CN (normal)	Steel	13196337
23222 CCK/C2W33	110	200	69.8	C2	Steel	13196437
22322 EK/C4	110	240	80	C4	Steel	13196139
23224 CCK/W33VS025	120	215	76	CN (normal)	Steel	13196450
22324 CCK/C2W33	120	260	86	C2	Steel	13196160
22324 CCK/C3	120	260	86	C3	Steel	13196161
23026 CCK/C2W33	130	200	52	C2	Steel	13196232
23226 CCK/C4W33	130	230	80	C4	Steel	13196463
22326 CCK/C2W33	130	280	93	C2	Steel	13196175
22326 CCK/C4W33	130	280	93	C4	Steel	13196176
23028 CCK/C2W33	140	210	53	C2	Steel	13196238

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Manufacturer ID	Inner diameter	Outer diameter	Width	Internal clearance	Cage	Article
	mm	mm	mm			Max. 200 articles in the table
24028 CCK30/C4W33	140	210	69	C4	Steel	13196572
23128 CCK/C08W33	140	225	68	CN (normal)	Steel	13196347
22228 CCK/C4S3W33	140	250	68	C4	Steel	13196051
22228 CCK/C403W33	140	250	68	C4	Steel	13196050
22228 CCK/C5W33	140	250	68	C5	Steel	13196052
23228 CCK/C082W33	140	250	88	C2	Steel	13196469
22328 CCK/C4W33	140	300	102	C4	Steel	13196186
452328 KM2/W502	140	300	102	CN (normal)	Brass	13196987
23030 CCK/C2W33	150	225	56	C2	Steel	13196245
23030 CCK/C082W507	150	225	56	CN (normal)	Steel	13196244
24130 CCK30/C4W33	150	250	100	C4	Steel	13196652
23230 CCK/C4W33	150	270	96	C4	Steel	13196475
23230 CCK/C082W33	150	270	96	CN (normal)	Steel	13196474
22330 CCK/C2W33	150	320	108	C2	Steel	13196198
22330 CCK/C4W33	150	320	108	C4	Steel	13196199
23032 CCK/C2W33	160	240	60	C2	Steel	13196250
23032 CCK/C5W33	160	240	60	C5	Steel	13196251
24032 CCK30/C3FW503	160	240	80	C3	Steel	13196589
24032 CCK30/C4HW33	160	240	80	C4H	Steel	13196590
24032 CCK30/C4HW33VK103	160	240	80	C4H	Steel	13202256
24032 CCK30/C083FVE604	160	240	80	CN (normal)	Steel	13196586
24032 CCK30/C083HW503	160	240	80	CN (normal)	Steel	13196588
24032 CCK30/C083HVE604	160	240	80	CN (normal)	Steel	13196587
23132 CCK/C2W33	160	270	86	C2	Steel	13196368
24132 CCK30/C2W33	160	270	109	C2	Steel	13196660
24132 CCK30/C4W33	160	270	109	C4	Steel	13196662
22232 CCK/C403W33	160	290	80	C4	Steel	13196070
22232 CCK/C5W33	160	290	80	C5	Steel	13196071
22332 CCK/C2W33	160	340	114	C2	Steel	13196204
22332 CACKM2/C3W33	160	340	114	C3	Brass	13196202
23134 CCK/C2W33	170	280	88	C2	Steel	13196372
24134 CCK30/C4W33	170	280	109	C4	Steel	13196665
22234 CCK/C2W33	170	310	86	C2	Steel	13196077
23234 CCK/C5W33	170	310	110	C5	Steel	13196484
22334 CCK/C2W33	170	360	120	C2	Steel	13196211
22334 CCK/C4W33	170	360	120	C4	Steel	13196212
23936 CCK/C3W33	180	250	52	C3	Steel	13196508
23936 CCK/W33	180	250	52	CN (normal)	Steel	13196510
24036 CCK30/C4W33	180	280	100	C4	Steel	13196602
23136 CCK/C2W33	180	300	96	C2	Steel	13196379
24136 CCK30/W513	180	300	118	CN (normal)	Steel	13196671
22236 CCK/C403W33	180	320	86	C4	Steel	13196082
23938 CCK/C3W33	190	260	52	C3	Steel	13196511
23938 CCK/W33	190	260	52	CN (normal)	Steel	13196512
23138 CCK/C2W33	190	320	104	C2	Steel	13196388
24138 CCK30/C2W33VG004	190	320	128	C2	Steel	13196675
22238 CCK/C02W33	190	340	92	CN (normal)	Steel	13196084
23238 CCK/C2W33	190	340	120	C2	Steel	13196495

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	mm	mm	mm			Max. 200 articles in the table
23940 CCK/C2W33	200	280	60	C2	Steel	13196518
23940 CCK/C3W33	200	280	60	C3	Steel	13196519
23940 CCK/C4W33	200	280	60	C4	Steel	13196520
23040 CCK/C5W33	200	310	82	C5	Steel	13196278
23040 CCK/C084W33	200	310	82	CN (normal)	Steel	13196276
24040 CCK30/HA3C3W33	200	310	109	C3	Steel	13196612
24040 CCK30/HA3C4W33	200	310	109	C4	Steel	13196613
24040 CCK30/C4W33	200	310	109	C4	Steel	13196611
24040 CCK30/C084W33	200	310	109	CN (normal)	Steel	13196610
24040 CCK30/HA3W33	200	310	109	CN (normal)	Steel	13196614
23140 CCK/C2W33	200	340	112	C2	Steel	13196399
24140 CCK30/C4W33	200	340	140	C4	Steel	13196679
23240 CCK/C08W33	200	360	128	CN (normal)	Steel	13196500
23944 CCK/C2W33	220	300	60	C2	Steel	13196524
23944 CCK/C3W33	220	300	60	C3	Steel	13196525
23044 CCK/C5W33	220	340	90	C5	Steel	13196285
23044 CCK/C08W33	220	340	90	CN (normal)	Steel	13196284
24044 CCK30/C2W33	220	340	118	C2	Steel	13196621
24044 CCK30/C4W33	220	340	118	C4	Steel	13196622
23144 CCK/C2W33	220	370	120	C2	Steel	13196405
23144 CCK/C5W33	220	370	120	C5	Steel	13196407
23144 CCK/C02W507	220	370	120	CN (normal)	Steel	13196404
24144 CCK30/C2LW33VG004	220	370	150	C2L	Steel	13202257
24144 CCK30/C4W33	220	370	150	C4	Steel	13196683
22244 CCK/C2W33	220	400	108	C2	Steel	13196088
22244 CCK/C403W33	220	400	108	C4	Steel	13196089
23244 CCK/C083W33	220	400	144	CN (normal)	Steel	13196505
23948 CCK/C3W33	240	320	60	C3	Steel	13196529
23948 CCK/C4W33	240	320	60	C4	Steel	13196530
23948 CCK/W33	240	320	60	CN (normal)	Steel	13196531
23048 CCK/C2W33	240	360	92	C2	Steel	13196290
23148 CCK/C2W33	240	400	128	C2	Steel	13196414
23148 CCK/C3W33VQ424	240	400	128	C3	Steel	13196415
23148 CCK/C02W507	240	400	128	CN (normal)	Steel	13196412
24148 CCK30/C4W33	240	400	160	C4	Steel	13196686
24148 CCK30/W77	240	400	160	CN (normal)	Steel	13196687
23952 CCK/C3W33	260	360	75	C3	Steel	13196534
23952 CCK/C4W33	260	360	75	C4	Steel	13196535
23952 CCK/W33	260	360	75	CN (normal)	Steel	13196537
23052 CCK/C2W33	260	400	104	C2	Steel	13196301
24052 CCK30/C4W33	260	400	140	C4	Steel	13196626
23152 CCK/HA3C4W33	260	440	144	C4	Steel	23228315
23956 CCK/C3W33	280	380	75	C3	Steel	13196539
23956 CCK/C4W33	280	380	75	C4	Steel	13196540
23956 CCK/C5W33	280	380	75	C5	Steel	13196541
24056 CCK30/C4W33	280	420	140	C4	Steel	13196628
24156 CCK30/C4W33	280	460	180	C4	Steel	12751747
23960 CCK/C3W33	300	420	90	C3	Steel	13196544
23960 CCK/C4W33	300	420	90	C4	Steel	13196545

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	mm	mm	mm			Max. 200 articles in the table
23960 CCK/W33	300	420	90	CN (normal)	Steel	13196547
23160 CCK/C4W33	300	500	160	C4	Steel	11617198
23260 CACK/W33	300	540	192	CN (normal)	Brass	13683145
23964 CCK/C3W33	320	440	90	C3	Steel	13306782
23964 CCK/W33	320	440	90	CN (normal)	Steel	11617255
23064 CCK/C4W33	320	480	121	C4	Steel	11617152
24064 CCK30/C3W33	320	480	160	C3	Steel	13213910
23264 CACK/C3W33	320	580	208	C3	Brass	12714196
23068 CCK/C3W33	340	520	133	C3	Steel	23228250
24168 ECACK30/W33	340	580	243	CN (normal)	Brass	13196688
23076 CCK/C3W33	380	560	135	C3	Steel	11617160
24076 CCK30/C4W33	380	560	180	C4	Steel	13210627
23180 CAK/W33	400	650	200	CN (normal)	Steel	13579015
23984 CCK/W33	420	560	106	CN (normal)	Steel	11617263
23084 CAK/W33	420	620	150	CN (normal)	Brass	23227951
24088 ECAK30/ C3W33	440	650	212	C3	Brass	12979089
23092 CAK/C3W33	460	680	163	C3	Brass	13373536
239/560 CAK/W33	560	750	140	CN (normal)	Brass	23228321
230/560 CAK/C3W33	560	820	195	C3	Steel	12979090

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