



## SKF Double-row spherical roller bearing Cylindrical bore With sealing

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.

### Sealed spherical roller bearings

- Sealed 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]. The seals, specially developed for spherical roller bearings, effectively prevent contaminants from entering into the bearing. This is not only true in operation, but also during bearing installation, resulting in long service life. Sealed spherical roller bearings have a contact seal reinforced with a sheet steel insert, fitted on both sides. They can also be supplied with a seal on only one side. The bearings can be fitted with seals made of one of the following materials: [ul2]Nitrile butadiene rubber [NBR], designation suffix CS or RS
- Hydrogenated Nitrile Butadiene Rubber [HNBR], designation suffix CS5 or RS5
- Fluoro rubber [FKM], designation suffix CS2

### Characteristics

**Series:** BS2-..2RS

**Bore:** Cylindrical bore

**With sealing:** Yes

Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Cage	Article
BS2-2205-2RS5/GLE	25	52	23	CN [normal]	Steel	13529948
BS2-2205-2RS/VT143	25	52	23	CN [normal]	Steel	12754311
BS2-2206-2RS5/ C4GEM9	30	62	25	C4	Brass	13529949
BS2-2206-2RS/VT143	30	62	25	CN [normal]	Steel	12950441
BS2B 321642 EB	30	68	20	CN [normal]	Steel	24003145
BS2B 321642 EBA	30	68	20	CN [normal]	Steel	13199535
BS2-2207-2RS/VT143	35	72	28	CN [normal]	Steel	12973934
BS2-2207-RS	35	72	28	CN [normal]	Steel	13199499
BS2-2207-2RS5/GLE	35	72	28	CN [normal]	Steel	13529950
BS2B 417771 E	35	82	23	CN [normal]	Steel	13199536
BS2-2208-2RS5/ C4GEM9	40	80	28	C4	Steel	13199501
BS2-2208-2RS/VT143C	40	80	28	CN [normal]	Steel	13199500
BS2-2208-2RS/VT143	40	80	28	CN [normal]	Steel	12959410
BS2-2308-2RS/VT143	40	90	38	CN [normal]	Steel	13029251
BS2-6020 CEB	40	114.3	60	CN [normal]	Steel	13199528
BS2-2209-2RS/ C3VT143	45	85	28	C3	Steel	13199503
BS2-2209-2RS5/ C4GEM9	45	85	28	C4	Steel	13199504
BS2-2209-2RS/VT143	45	85	28	CN [normal]	Steel	23760278
BS2-2309-2RS/VT143	45	100	42	CN [normal]	Steel	13189932

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## Spherical Roller Bearings | Double Row Spherical Roller Bearings

Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Cage	Article
BS2-2210-2RS5/ C4GEM9	50	90	28	C4	Steel	13199506
BS2-2210-2CS/VT143	50	90	28	CN (normal)	Steel	23760281
BS2-2210-2RS/VT143	50	90	28	CN (normal)	Steel	12983703
BS2-2310-2RS/VT143	50	110	45	CN (normal)	Steel	13529990
BS2-2211-2RS/C3VT143	55	100	31	C3	Steel	12950442
BS2-2211-2RS5/ C4GEM9	55	100	31	C4	Steel	12950524
BS2-2211-2RS/VT143C	55	100	31	CN (normal)	Steel	12950523
BS2-2211-2RS/VT143	55	100	31	CN (normal)	Steel	12957302
BS2-2311-2RS/VT143	55	120	49	CN (normal)	Steel	12950534
BS2-2212-2RS/C2VT143	60	110	34	C2	Steel	13199508
BS2-2212-2RS5/ C3GEM9	60	110	34	C3	Steel	13030574
BS2-2212-2RS/C3VT143	60	110	34	C3	Steel	13529952
BS2-2212-2RS5/ C4GEM9	60	110	34	C4	Steel	13199509
BS2-2212-RS5	60	110	34	CN (normal)	Steel	13199510
BS2-2212-2RS/VT143	60	110	34	CN (normal)	Steel	23760284
BS2-2212-2RS5/GLE	60	110	34	CN (normal)	Steel	13529953
BS2-2312-2RS/VT143	60	130	53	CN (normal)	Steel	13529991
24013-2RS5W/ C3S3GEM9	65	100	35	C3	Brass	13529457
24013-2RS5W/ C3VT143	65	100	35	C3	Steel	13529458
24013-2RS5W/ C4S3GEM9	65	100	35	C4	Steel	13189993
BS2-2213-2RS5/ C4GEM9	65	120	38	C4	Brass	13529954
BS2-2213-2RS5/GLE	65	120	38	CN (normal)	Steel	13529955
BS2-2213-2RS/GEA9	65	120	38	CN (normal)	Steel	13199512
BS2-2213-2RS/VT143	65	120	38	CN (normal)	Steel	12982653
BS2-2313-2RS/VT143	65	140	56	CN (normal)	Steel	13529994
BS2-2214-2RS5/ C3GEM9	70	125	38	C3	Steel	13199513
BS2-2214-2RS5/ C4GEM9	70	125	38	C4	Steel	13199514
BS2-2214-2RS/VT143	70	125	38	CN (normal)	Steel	12959969
BS2-2314-2RS/VT143	70	150	60	CN (normal)	Steel	13189868
24015-2RS5/C3GEM9	75	115	40	C3	Brass	13529459
24015-2RS5/GEM9	75	115	40	CN (normal)	Brass	13529460
24015-2RS5/VT143C	75	115	40	CN (normal)	Steel	13529461
BS2-2215-2RS5/ C4GEM9	75	130	38	C4	Steel	12950527
BS2-2215-2RS/VT143	75	130	38	CN (normal)	Steel	12950526
BS2-2215-2RS5/VT143	75	130	38	CN (normal)	Steel	13529956
BS2-2315-2RS/VT143	75	160	64	CN (normal)	Steel	13457776
BS2-2216-2RS5/ C3GEM9	80	140	40	C3	Steel	12950530
BS2-2216-2RS5/ C4GEM9	80	140	40	C4	Steel	12950531
BS2-2216-2RS5/GEM9	80	140	40	CN (normal)	Steel	12950532
BS2-2216-2RS/VT143	80	140	40	CN (normal)	Steel	12950529
BS2-2217-2RS5/ C3GEM9	85	150	44	C3	Brass	13529957
BS2-2217-2RS/VT143	85	150	44	CN (normal)	Steel	13225764
BS2B 243359 C	90	150	72	CN (normal)	Steel	13199532
BS2B 243359 D	90	150	72	CN (normal)	Steel	13199533
BS2-2218-2RS/C3VT143	90	160	48	C3	Steel	13529959

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Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Cage	Article
BS2-2218-2RS5/ C4GEM9	90	160	48	C4	Brass	13529961
BS2-2218-2RS5/GEM9	90	160	48	CN (normal)	Brass	13529962
BS2-2218-2RS/GEM7	90	160	48	CN (normal)	Brass	13529960
BS2-2218-2RS/VT143	90	160	48	CN (normal)	Steel	12995295
BS2-2318-2RS5/ C3VT143	90	190	73	C3	Steel	13529999
BS2-2318-2RS5/VT143	90	190	73	CN (normal)	Steel	13530000
BS2-2219-2RS/VT143	95	170	51	CN (normal)	Steel	13529965
24020-2RS5/C3GEM9	100	150	50	C3	Brass	13529462
24020-2RS5/C4GEM9	100	150	50	C4	Brass	13360464
24020-2RS5/GEM9	100	150	50	CN (normal)	Brass	13529463
24020-2RS5/VT143B	100	150	50	CN (normal)	Steel	12950440
23120-2RS5/VT143B	100	165	52	CN (normal)	Steel	13529452
23120-2RS5/VT143	100	165	52	CN (normal)	Steel	13529451
24120-2RS5W/ C3GEM9	100	165	65	C3	Brass	13529468
BS2B 248180	100	165	65	CN (normal)	Steel	13199534
BS2B 444169 B	100	170	65	CN (normal)	Steel	24003147
BS2B 444169 A	100	170	65	CN (normal)	Steel	24003146
BS2-2220-2RS5W/ C3VT143	100	180	55	C3	Steel	13529970
BS2-2220-2RS5/ C3VT143	100	180	55	C3	Steel	13529966
BS2-2220-2RS5W/ VE736	100	180	55	CN (normal)	Steel	13529971
BS2-2220-2RS5/VT143	100	180	55	CN (normal)	Steel	13406189
23220-2RS5W/GEM9	100	180	60.3	CN (normal)	Brass	13529455
23220-2RS/VT143	100	180	60.3	CN (normal)	Steel	13228458
23022-2RS5W/ C4GEM9	110	170	45	C4	Brass	13529444
23022-2RS/VT143	110	170	45	CN (normal)	Steel	13529443
24022-2RS5W/255926	110	170	60	CN (normal)	Steel	13529464
23122-2CS5W/GEM9	110	180	56	CN (normal)	Brass	13529454
23122-2CS5/VT143	110	180	56	CN (normal)	Steel	23772283
BS2B 445553 A	110	180	56	CN (normal)	Steel	13199540
BS2B 445553	110	180	56	CN (normal)	Steel	13199539
24122-2CS5/VT143	110	180	69	CN (normal)	Steel	13196635
24122-2CS5/GEM	110	180	69	CN (normal)	Steel	13196634
BS2-2222-2RS5/ C3VT143	110	200	63	C3	Steel	13529983
BS2-2222-2RS5W/ C4GEM9	110	200	63	C4	Brass	13529984
BS2-2222-2CS5W/ C4GEM9	110	200	63	C4	Steel	13199525
BS2-2222-2RS5W/ GMD9	110	200	63	CN (normal)	Brass	13529985
BS2-2222-2RS5/VT143	110	200	63	CN (normal)	Steel	13189986
BS2-2222-2RS5W/LT20	110	200	63	CN (normal)	Steel	13529986
23222-2CS5/VT143	110	200	69.8	CN (normal)	Steel	13196439
23024-2RS5/C3GEA9	120	180	46	C3	Steel	13529445
23024-2RS5W/ C4GEM9	120	180	46	C4	Brass	13529446
23024-2RS5/VT143B	120	180	46	CN (normal)	Steel	12950439
23024-2RS5/VT143	120	180	46	CN (normal)	Steel	12950438
24024-2CS5W/GEM9	120	180	60	CN (normal)	Brass	13529465
24024-2CS5/VT143	120	180	60	CN (normal)	Steel	12704383
24024-2CS5/VT143C	120	180	60	CN (normal)	Steel	13196564

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Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Cage	Article
24124-2CS5W/ C3GEM9	120	200	80	C3	Brass	13529469
24124-2CS5W/ C4GEM9	120	200	80	C4	Brass	13529470
24124-2CS5/VT143	120	200	80	CN (normal)	Steel	13196639
24124-2CS5/VT143C	120	200	80	CN (normal)	Steel	13196640
BS2-2224-2RS5/ C3VT143	120	215	69	C3	Steel	13529987
BS2-2224-2RS5/VT143	120	215	69	CN (normal)	Steel	13529989
BS2-2224-2RS5/ CNLVT143	120	215	69	CN (normal)	Steel	13529988
BS2-2224-2RS5/ VT143C	120	215	69	CN (normal)	Steel	13189988
23224-2CS5/VT143	120	215	76	CN (normal)	Steel	13196451
22324-2CS5/VT143	120	260	86	CN (normal)	Steel	13196165
23026-2CS5/VT143	130	200	52	CN (normal)	Steel	13196233
24026-2CS5W/ C3GEM9	130	200	69	C3	Brass	13529466
24026-2CS5/VT143	130	200	69	CN (normal)	Steel	13196570
24126-2CS5W/ C4GEM9	130	210	80	C4	Steel	13196645
24126-2CS5W/GEM9	130	210	80	CN (normal)	Brass	13529471
24126-2CS5/VT143	130	210	80	CN (normal)	Steel	13196644
BS2B 229750 A	130	220	73	CN (normal)	Steel	13199530
BS2B 229750 D	130	220	73	CN (normal)	Steel	13199531
BS2-2226-2CS5/VT143	130	230	75	CN (normal)	Steel	13199526
BS2B 444256	130	230	80	CN (normal)	Steel	13199537
23226-2CS5/VT143	130	230	80	CN (normal)	Steel	12951386
BS2B 444257	130	230	80	CN (normal)	Steel	23760295
22326-2CS5/VT143	130	280	93	CN (normal)	Steel	13196178
23028-2CS5/VT143	140	210	53	CN (normal)	Steel	13196240
24028-2CS5/ C3VT143C	140	210	69	C3	Steel	13196573
24028-2CS5/VT143	140	210	69	CN (normal)	Steel	13196574
24028-2CS5W/VT143	140	210	69	CN (normal)	Steel	13196575
24128-2CS5/VT143	140	225	85	CN (normal)	Steel	13175784
22228-2CS5/VT143	140	250	68	CN (normal)	Steel	11816825
23228-2CS5/VT143	140	250	88	CN (normal)	Steel	12302071
BS2B 444258	140	250	88	CN (normal)	Steel	13199538
22328-2CS5/VT143	140	300	102	CN (normal)	Steel	13196187
23030-2CS5/VT143	150	225	56	CN (normal)	Steel	13196246
24030-2CS5W/ C3GEM9	150	225	75	C3	Brass	13529467
24030-2CS5W/ C4GEM9	150	225	75	C4	Steel	13196581
24030-2CS5/VT143	150	225	75	CN (normal)	Steel	13196579
24030-2CS5W/VT143C	150	225	75	CN (normal)	Steel	13196582
24030-2CS5/VT143C	150	225	75	CN (normal)	Steel	13196580
23130-2CS5/VT143	150	250	80	CN (normal)	Steel	13196360
24130-2CS5/VT143	150	250	100	CN (normal)	Steel	13529472
22230-2CS5/VT143	150	270	73	CN (normal)	Steel	13196062
23230-2CS5/VT143	150	270	96	CN (normal)	Steel	13196476
22330-2CS5/VT143	150	320	108	CN (normal)	Steel	13196200
23032-2CS5/VT143	160	240	60	CN (normal)	Steel	13196252
24032-2CS5/C3VT143	160	240	80	C3	Steel	13196591
24032-2CS5/ C3VT143C	160	240	80	C3	Steel	13196592
24032-2CS5/VT143	160	240	80	CN (normal)	Steel	13196593

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Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Cage	Article
23132-2CS5/VT143	160	270	86	CN (normal)	Steel	13196370
24132-2CS5/VT143	160	270	109	CN (normal)	Steel	13196663
22232-2CS5/VT143	160	290	80	CN (normal)	Steel	13196073
22332-2CS5/VT143	160	340	114	CN (normal)	Steel	13196206
23034-2CS5/VT143	170	260	67	CN (normal)	Steel	13196261
24034-2CS5/VT143	170	260	90	CN (normal)	Steel	13196597
23134-2CS5/VT143	170	280	88	CN (normal)	Steel	13196374
24134-2CS5/VT143	170	280	109	CN (normal)	Steel	13196666
22234-2CS5/VT143	170	310	86	CN (normal)	Steel	13196080
23036-2CS5/VT143	180	280	74	CN (normal)	Steel	13196268
24036-2CS5/VT143	180	280	100	CN (normal)	Steel	13196604
23136-2CS5/VT143	180	300	96	CN (normal)	Steel	13196383
24136-2CS5/C4GEM	180	300	118	C4	Steel	13196673
22236-2CS5/VT143	180	320	86	CN (normal)	Steel	12121538
23138-2CS5/VT143	190	320	104	CN (normal)	Steel	13196389
24138-2CS5/VT143	190	320	128	CN (normal)	Steel	13196676
22238-2CS5/VT143	190	340	92	CN (normal)	Steel	12121540
23040-2CS5/VT143	200	310	82	CN (normal)	Steel	13529447
23140-2CS5/VT143	200	340	112	CN (normal)	Steel	13196401
24140-2CS5/VT143	200	340	140	CN (normal)	Steel	13196680
22240-2CS5/VT143	200	360	98	CN (normal)	Steel	12121542
23240-2CS5/VT143	200	360	128	CN (normal)	Steel	13196501
23044-2CS5/VT143	220	340	90	CN (normal)	Steel	13529448
23144-2CS5/VT143	220	370	120	CN (normal)	Steel	13196408
22244-2CS5/VT143	220	400	108	CN (normal)	Steel	12121544
23048-2CS5/VT143	240	360	92	CN (normal)	Steel	12121554
23148-2CS5/VT143	240	400	128	CN (normal)	Steel	13196417
23052-2CS5/VT143	260	400	104	CN (normal)	Steel	12121556

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