



SKF Double-row self-aligning ball bearing Cylindrical bore Open

Self-aligning ball bearings have two rows of balls and a common sphered raceway in the outer ring. The bearings are insensitive to angular misalignment of the shaft relative to the housing. They generate less friction than any other type of rolling bearing, which enables them to run cooler even at high speeds. Self-aligning ball bearing variants are:

Open

- with cylindrical bore
- with tapered bore, e.g. for use with adapter sleeves
- with extended inner ring

Sealed

- with cylindrical bore
- with tapered bore, e.g. for use with adapter sleeves

Bearings with seals

Some self-aligning ball bearings are also available with seals. Sealed bearings have a contact seal on both sides that is made of oil and wear-resistant NBR and reinforced with a sheet steel insert (designation suffix 2RS1). Sealed bearings are lubricated for the life of the bearing and should not be washed or relubricated. The bearings are considered virtually maintenance-free.

Bearings with an extended inner ring

Self-aligning ball bearings with an extended inner ring are designed for less demanding applications that use commercial grade shafting. The special bore tolerance, class JS7, facilitates mounting and dismounting. Self-aligning ball bearings with an extended inner ring are located axially on the shaft by means of a slot at one end of the inner ring that engages a pin or shoulder screw fitted to the shaft. The holding device also prevents the shaft from spinning in the bearing bore. When two of these bearings are used to support a shaft, they should be positioned so that the inner ring slots either face each other, or are opposed to each other. If this is not the case, the shaft is located axially in one direction only.

Characteristics

Series: 13

Bore: Cylindrical bore

Sealing: Open

Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Article Max. 200 articles in the table
135 TN9	5	19	6	CN (normal)	23755199
126 TN9/W64	6	19	6	CN (normal)	13195783
126 TN9	6	19	6	CN (normal)	23755129
127 TN9	7	22	7	CN (normal)	23755130
108 TN9	8	22	7	CN (normal)	23755045
129 TN9	9	26	8	CN (normal)	23755131
1200 ETN9	10	30	9	CN (normal)	23755058
2200 ETN9	10	30	14	CN (normal)	23755430
2200 ETN9/W64	10	30	14	CN (normal)	13195894
1201 ETN9/C2	12	32	10	C2	13195711
1201 ETN9	12	32	10	CN (normal)	23755059
2201 ETN9	12	32	14	CN (normal)	23755432
1301 EM/P62	12	37	12	C2	12121345

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Manufacturer ID	Inner diameter	Outer diameter	Width	Internal clearance	Article
	mm	mm	mm		Max. 200 articles in the table
1301 ETN9	12	37	12	CN (normal)	23755132
1202 ETN9/C2	15	35	11	C2	13195744
1202 ETN9/C3	15	35	11	C3	23755061
1202 ETN9	15	35	11	CN (normal)	23755060
1202 ETN9/W64	15	35	11	CN (normal)	13195745
2202 ETN9/C3	15	35	14	C3	23755435
2202 ETN9	15	35	14	CN (normal)	23755434
2202 ETN9/W64F	15	35	14	CN (normal)	13195899
1302 ETN9	15	42	13	CN (normal)	23755133
2302	15	42	17	CN (normal)	23755896
1203 ETN9	17	40	12	CN (normal)	23755062
1203 ETN9/W64	17	40	12	CN (normal)	13195746
2203 ETN9	17	40	16	CN (normal)	23755437
2203 ETN9/W64	17	40	16	CN (normal)	13195901
2203 ETN9/W64F	17	40	16	CN (normal)	13195902
1303 EM/P62	17	47	14	C2	23755134
1303 ETN9	17	47	14	CN (normal)	23755135
1204 ETN9/C2	20	47	14	C2	13195747
1204 ETN9/C3W64	20	47	14	C3	13195748
1204 ETN9/C3W64F	20	47	14	C3	13195749
1204 ETN9/C3	20	47	14	C3	23755064
1204 ETN9/W64	20	47	14	CN (normal)	13195750
1204 ETN9	20	47	14	CN (normal)	23755063
2204 ETN9/C3	20	47	18	C3	23755441
2204 ETN9/W64	20	47	18	CN (normal)	13195904
2204 ETN9/W64F	20	47	18	CN (normal)	13195905
2204 ETN9	20	47	18	CN (normal)	23755440
1304 ETN9/C3	20	52	15	C3	23755138
1304 ETN9	20	52	15	CN (normal)	23755137
1304 ETN9/W64	20	52	15	CN (normal)	13195785
2304 TN9	20	52	21	CN (normal)	23755951
2304 M	20	52	21	CN (normal)	23755950
1205 ETN9/C3	25	52	15	C3	23755068
1205 ETN9	25	52	15	CN (normal)	23755067
1205 ETN9/W64	25	52	15	CN (normal)	13195753
1205 EM	25	52	15	CN (normal)	13195752
2205 ETN9/C3	25	52	18	C3	23755449
2205 ETN9	25	52	18	CN (normal)	23755448
2205 ETN9/W64	25	52	18	CN (normal)	13195908
1305 ETN9/C3	25	62	17	C3	23755142
1305 ETN9	25	62	17	CN (normal)	23755141
2305 ETN9/C3	25	62	24	C3	23755972
2305 M/P6	25	62	24	CN (normal)	23755974
2305 M	25	62	24	CN (normal)	23755973
2305 ETN9	25	62	24	CN (normal)	23755971
1206 ETN9/C3	30	62	16	C3	23755073
1206 ETN9/W64	30	62	16	CN (normal)	13195756
1206 EM	30	62	16	CN (normal)	23755071
1206 ETN9	30	62	16	CN (normal)	23755072
2206 ETN9/C3	30	62	20	C3	23755457
2206 ETN9	30	62	20	CN (normal)	23755456
2206 ETN9/W64	30	62	20	CN (normal)	13195912
1306 ETN9/C3	30	72	19	C3	23755146

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1306 ETN9	30	72	19	CN (normal)	23755145
1306 ETN9/W64	30	72	19	CN (normal)	13195787
2306/C3	30	72	27	C3	23755989
2306 M/P6	30	72	27	CN (normal)	12947290
2306 M	30	72	27	CN (normal)	23755988
2306	30	72	27	CN (normal)	23755984
1207 ETN9/C3	35	72	17	C3	23755077
1207 ETN9	35	72	17	CN (normal)	23755076
2207 ETN9/C3	35	72	23	C3	23755465
2207 ETN9	35	72	23	CN (normal)	23755464
2207 ETN9/W64	35	72	23	CN (normal)	13195915
1307 ETN9	35	80	21	CN (normal)	23755150
2307 ETN9/C3	35	80	31	C3	23756012
2307 EM/C3	35	80	31	C3	23756010
2307 EM	35	80	31	CN (normal)	23756009
2307 ETN9	35	80	31	CN (normal)	23756011
2307 ETN9/W64	35	80	31	CN (normal)	13196310
2307 EM/W64	35	80	31	CN (normal)	13196309
1208 ETN9/C3	40	80	18	C3	23755081
1208 ETN9	40	80	18	CN (normal)	23755080
1208 ETN9/W64	40	80	18	CN (normal)	13195759
2208 ETN9/C3	40	80	23	C3	23755472
2208 ETN9	40	80	23	CN (normal)	23755471
2208 ETN9/W64	40	80	23	CN (normal)	23195302
1308 ETN9/C3	40	90	23	C3	23755155
1308 EM	40	90	23	CN (normal)	23755153
1308 ETN9	40	90	23	CN (normal)	23755154
1308 ETN9/W64	40	90	23	CN (normal)	13195788
2308 EM/C3	40	90	33	C3	23756023
2308 ETN9/C3	40	90	33	C3	23756026
2308 EM/P6	40	90	33	CN (normal)	23756024
2308 M/VQ335	40	90	33	CN (normal)	23756027
2308 EM	40	90	33	CN (normal)	23756022
2308 ETN9	40	90	33	CN (normal)	23756025
1209 ETN9	45	85	19	CN (normal)	23755084
2209 ETN9/C3	45	85	23	C3	23755479
2209 ETN9	45	85	23	CN (normal)	23755478
2209 ETN9/W64	45	85	23	CN (normal)	13195920
1309 ETN9/C3	45	100	25	C3	23755159
1309 ETN9	45	100	25	CN (normal)	23755158
1309 ETN9/W64	45	100	25	CN (normal)	13195789
2309 ETN9/C3W64	45	100	36	C3	13196316
2309 EM/C3	45	100	36	C3	23756039
2309 ETN9/C3	45	100	36	C3	23756041
2309 EM	45	100	36	CN (normal)	23756038
2309 ETN9	45	100	36	CN (normal)	23756040
2309 M/VQ335	45	100	36	CN (normal)	23195385
1210 ETN9/C3	50	90	20	C3	23755088
1210 ETN9	50	90	20	CN (normal)	23755087
1210 ETN9/W64	50	90	20	CN (normal)	13195766
2210 ETN9/C3	50	90	23	C3	23755486
2210 ETN9/W64	50	90	23	CN (normal)	13195921
2210 ETN9	50	90	23	CN (normal)	23755485

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1310 ETN9/C3	50	110	27	C3	23755163
1310 ETN9	50	110	27	CN (normal)	23755162
1211 ETN9/C3	55	100	21	C3	23755092
1211 ETN9	55	100	21	CN (normal)	23755091
1211 ETN9/W64	55	100	21	CN (normal)	13195772
1211 ETN9/VK313	55	100	21	CN (normal)	13195771
2211 ETN9/C3	55	100	25	C3	23755493
2211 ETN9	55	100	25	CN (normal)	23755492
2211 ETN9/W64	55	100	25	CN (normal)	13195926
1311 ETN9	55	120	29	CN (normal)	23755166
1212 ETN9/C3	60	110	22	C3	23755096
1212 ETN9	60	110	22	CN (normal)	23755095
1212 ETN9/W64	60	110	22	CN (normal)	13195774
2212 ETN9/C3	60	110	28	C3	23755498
2212 ETN9	60	110	28	CN (normal)	23755497
2212 ETN9/W64	60	110	28	CN (normal)	13195928
1312 ETN9/C3	60	130	31	C3	23755170
1312 ETN9	60	130	31	CN (normal)	23755169
2312/W64	60	130	46	CN (normal)	13196323
1412 M	60	150	42	CN (normal)	23755202
1213 ETN9/C3	65	120	23	C3	23755100
1213 ETN9	65	120	23	CN (normal)	23755099
2213 ETN9/C3	65	120	31	C3	23755505
2213 ETN9	65	120	31	CN (normal)	23755504
1313 ETN9/C3	65	140	33	C3	23755174
1313 ETN9	65	140	33	CN (normal)	23755173
2313 M/C3	65	140	48	C3	13196350
2313 M	65	140	48	CN (normal)	13196349
1214 ETN9	70	125	24	CN (normal)	23755101
1214 ETN9/W64	70	125	24	CN (normal)	13195777
2214	70	125	31	CN (normal)	23755506
1314/C3	70	150	35	C3	23755176
1314	70	150	35	CN (normal)	23755175
2314/W64	70	150	51	CN (normal)	13196391
1215	75	130	25	CN (normal)	23755102
2215 ETN9/C3	75	130	31	C3	23755511
2215 ETN9/W64	75	130	31	CN (normal)	13195934
2215 ETN9	75	130	31	CN (normal)	23755510
1315/C3	75	160	37	C3	13195792
1315	75	160	37	CN (normal)	23755177
1216/C3	80	140	26	C3	23755108
1216	80	140	26	CN (normal)	23755105
2216 ETN9/C3	80	140	33	C3	23755515
2216 ETN9	80	140	33	CN (normal)	23755514
1316/C3	80	170	39	C3	23755183
1316	80	170	39	CN (normal)	23755180
2316 M/C2	80	170	58	C2	13196419
2316 M/C3W64	80	170	58	C3	13196420
2316 M/W64	80	170	58	CN (normal)	13196421
1217	85	150	28	CN (normal)	23755109
2217	85	150	36	CN (normal)	23755516
1317	85	180	41	CN (normal)	23755184
1218/C3	90	160	30	C3	23755116

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1218/C5	90	160	30	C5	12121344
1218	90	160	30	CN (normal)	23755112
2218/C3	90	160	40	C3	23755522
2218	90	160	40	CN (normal)	23755519
1318	90	190	43	CN (normal)	23755187
1219/C3	95	170	32	C3	13195781
1219	95	170	32	CN (normal)	23755117
2219 M	95	170	43	CN (normal)	23755525
1319	95	200	45	CN (normal)	23755190
1220	100	180	34	CN (normal)	23755120
2220 M/C3	100	180	46	C3	23755531
2220 M	100	180	46	CN (normal)	23755530
2220	100	180	46	CN (normal)	23755527
1320/C3	100	215	47	C3	13195797
1320	100	215	47	CN (normal)	23755192
2320 M/C3	100	215	73	C3	13196422
1222	110	200	38	CN (normal)	23755123
2222 M/C3	110	200	53	C3	23755623
2222/C3	110	200	53	C3	13196019
2222 M/W64	110	200	53	CN (normal)	13196018
2222	110	200	53	CN (normal)	13196016
2222 M	110	200	53	CN (normal)	23755622
1322 M	110	240	50	CN (normal)	23755197
1224 M/C3	120	215	42	C3	13529420
1224 M	120	215	42	CN (normal)	23755128
13030	150	225	56	CN (normal)	23755136
13944/VE294	220	300	60	CN (normal)	13529422

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