



Self Aligning ball Bearings

Self-aligning ball bearings have a common sphered raceway in the outer ring. This feature allows angular misalignment of the shaft relative to the housing.

Double row self-aligning ball bearings are manufactured both with cylindrical bore and tapered bore.

Product Highlights

Optimum performance

Capacity for resistance-free, self-alignment

Sealed bearings-greased for life

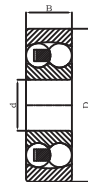
Self Aligning Ball Bearings



Bearing Designation	Principal Dimensions			Basic Load Ratings		Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static	Grease	Oil	
	mm			C (kN)	CO (kN)	rpm		kg
108	8	22	7	2.63	0.61	30000	35000	0.020
126	6	19	6	2.42	0.51	30000	35000	0.010
127	7	22	7	2.63	0.61	30000	35000	0.020
129	9	26	8	3.84	0.81	26000	32000	0.020
135	5	19	6	2.42	0.51	30000	35000	0.010

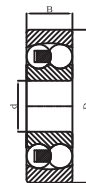
1200	10	30	9	5.35	1.11	24000	30000	0.030
1200 E	10	30	9	4.42	0.99	24000	30000	0.030
1201	12	32	10	5.56	1.31	23000	29000	0.040
1201 E	12	32	10	4.99	1.14	23000	29000	0.040
1202	15	35	11	7.58	1.72	20000	25000	0.050
1202 E	15	35	11	5.93	1.34	20000	25000	0.050
1203	17	40	12	8.08	2.02	18000	22000	0.080
1203 E	17	40	12	7.07	1.76	18000	22000	0.070
1204	20	47	14	10.10	2.68	15000	18000	0.130
1204 E	20	47	14	10.16	2.72	15000	18000	0.120
1204 K	20	47	14	10.10	2.68	15000	18000	0.120
1205	25	52	15	12.32	3.38	13000	16000	0.140
1205 E	25	52	15	11.44	3.20	13000	16000	0.014
1205 K	25	52	15	12.32	3.38	13000	16000	0.140
1206	30	62	16	15.76	4.70	11000	14000	0.220
1206 E	30	62	16	12.48	3.72	11000	14000	0.220
1206 K	30	62	16	15.76	4.70	11000	14000	0.220

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	d	D	B	Dynamic	Static	Grease	Oil	
	mm			C (kN)	CO (kN)	rpm		kg
1207	35	72	17	16.16	5.25	9500	12000	0.330
1207 E	35	72	17	15.20	4.80	9500	12000	0.320
1207 K	35	72	17	16.16	5.25	9500	12000	0.330
1208	40	80	18	19.49	6.62	8500	10000	0.420
1208 E	40	80	18	15.92	5.56	8500	10000	0.420
1208 K	40	80	18	19.49	6.62	8500	10000	0.420
1209 E	45	85	19	18.32	6.24	8500	10000	0.470
1210	50	90	20	23.03	8.23	7000	8500	0.530
1210 E	50	90	20	21.20	7.32	7000	8500	0.530
1210 K	50	90	20	23.03	8.23	7000	8500	0.530
1211	55	100	21	27.27	10.10	6300	7500	0.690
1211 E	55	100	21	22.08	8.48	6300	7500	0.710
1211 K	55	100	21	27.27	10.10	6300	7500	0.690
1212	60	110	22	30.30	11.72	5600	6700	0.900
1212 E	60	110	22	24.96	9.76	5600	6700	0.900
1212 K	60	110	22	30.30	11.72	5600	6700	0.900
1213	65	120	23	31.31	12.63	5300	6300	1.200
1213 E	65	120	23	28.08	11.20	5300	6300	1.150
1213 K	65	120	23	31.31	12.63	5300	6300	1.200
1214	70	125	24	34.85	13.84	5000	6000	1.300
1214 K	70	125	24	34.85	13.84	5000	6000	1.300
1215	75	130	25	39.39	15.76	4800	5600	1.400
1215 K	75	130	25	39.39	15.76	4800	5600	1.400

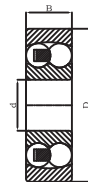
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Bearing Designation	Principal Dimensions			Basic Load Ratings		Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static	Grease	Oil	
	mm			C (kN)	CO (kN)	rpm		kg
1216	80	140	26	40.40	17.17	4300	5000	1.700
1216 K	80	140	26	40.40	17.17	4300	5000	1.700
1217	85	150	28	39.04	16.64	4000	4800	4.600
1217 K	85	150	28	49.49	20.60	4000	4800	2.200
1218	90	160	30	45.76	18.88	3800	4800	2.500
1219	95	170	32	50.96	21.60	3300	4600	3.100
1220	100	180	34	55.12	24.00	2900	4400	3.700
1221	105	190	36	59.28	26.00	2500	4200	4.350
1222	110	200	38	70.72	31.20	2100	3900	5.150
1224 M	120	215	42	95.20	42.40	1700	3600	6.750
1226 M	130	230	46	101.60	46.80	1100	3300	8.300

1300	10	35	11	7.17	1.62	20000	25000	0.060
1301	12	37	12	9.60	2.22	18000	22000	0.070
1301 E	12	37	12	7.49	1.73	18000	22000	0.070
1302	15	42	13	9.60	2.32	17000	20000	0.100
1302 E	15	42	13	8.64	2.08	17000	20000	0.090
1303	17	47	14	12.63	3.23	15000	17000	0.140
1303 E	17	47	14	10.16	2.72	15000	17000	0.130
1304	20	52	15	12.63	3.38	13000	16000	0.170
1304 E	20	52	15	11.44	3.20	13000	16000	0.160
1304 K	20	52	15	12.63	3.38	13000	16000	0.170
1305	25	62	17	18.18	5.05	11000	14000	0.280

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Bearing Designation	Principal Dimensions			Basic Load Ratings		Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static	Grease	Oil	
	mm			C (kN)	CO (kN)	rpm		kg
1305 E	25	62	17	15.20	4.32	11000	14000	0.260
1305 K	25	62	17	18.18	5.05	11000	14000	0.280
1306	30	72	19	21.41	6.36	9000	11000	0.410
1306 E	30	72	19	18.00	5.44	9000	11000	0.390
1306 K	30	72	19	21.41	6.36	9000	11000	0.410
1307	35	80	21	25.25	8.08	8000	9500	0.540
1307 E	35	80	21	21.20	6.80	8000	9500	0.510
1307 K	35	80	21	25.25	8.08	8000	9500	0.540
1308	40	90	23	29.29	9.75	7000	8500	0.740
1308 E	40	90	23	27.04	8.96	7000	8500	0.720
1308 K	40	90	23	29.29	9.75	7000	8500	0.720
1309 E	45	100	25	31.20	10.72	7000	8500	0.960
1310	50	110	27	41.92	14.44	5600	6700	1.290
1310 E	50	110	27	34.88	11.20	5600	6700	1.200
1310 K	50	110	27	41.92	14.44	5600	6700	1.290
1311	55	120	29	51.51	18.18	5000	6000	1.600
1311 E	55	120	29	40.56	14.40	5000	6000	1.600
1311 K	55	120	29	51.51	18.18	5000	6000	1.600
1312	60	130	31	57.57	21.01	4500	5300	2.000
1312 E	60	130	21	46.80	17.60	4500	5300	1.950
1312 K	60	130	31	57.57	21.01	4500	5300	2.000
1313	65	140	33	62.62	23.03	4300	5000	2.500
1313 E	65	140	33	52.40	20.40	4300	5000	2.450

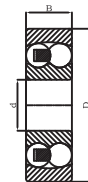
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Bearing Designation	Principal Dimensions			Basic Load Ratings		Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static	Grease	Oil	
	mm			C (kN)	CO (kN)	rpm		kg
1313 K	65	140	33	62.62	23.03	4300	5000	2.500
1314	70	150	35	75.75	27.78	4000	4800	3.100
1314 K	70	150	35	75.75	27.78	4000	4800	3.100
1315	75	160	37	80.80	30.30	3600	4300	3.600
1315 K	75	160	37	80.80	30.30	3600	4300	3.600
1316	80	1370	39	70.72	26.80	3375	4200	4.200
1317	85	180	41	78.00	30.40	3100	3600	5.000
1318	90	190	43	93.60	35.20	3000	3400	5.800
1319	95	200	45	106.40	40.80	2800	3200	6.700
1320	100	215	47	114.40	45.60	2700	3000	8.300
1322 M	110	240	50	130.40	57.60	2400	2700	12.000
1412 M	60	150	42	100.00	33.20	4000	4700	8.700

2200	10	30	14	8.38	1.77	22000	28000	0.050
2200 E	10	30	14	6.45	1.38	22000	28000	0.050
2201	12	32	14	9.09	1.97	20000	26000	0.050
2201 E	12	32	14	6.82	1.52	20000	26000	0.050
2202	15	35	14	9.19	2.12	19000	24000	0.060
2202 E	15	35	14	6.97	1.63	19000	24000	0.060
2203	17	40	16	11.31	2.73	16000	19000	0.090
2203 E	17	40	16	8.48	2.04	16000	19000	0.090
2204	20	47	18	14.14	3.54	14000	17000	0.140
2204 E	20	47	18	13.44	3.32	14000	17000	0.140

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Bearing Designation	Principal Dimensions			Basic Load Ratings		Speed ratings Lubrication		Mass
	d	D	B	Dynamic	Static	Grease	Oil	
	mm			C (kN)	CO (kN)	rpm		kg
2205	25	52	18	17.07	4.24	12000	15000	0.160
2205 E	25	52	18	13.44	3.52	12000	15000	0.160
2205 K	25	52	18	17.07	4.24	12000	15000	0.160
2206	30	62	20	25.25	6.97	9500	12000	0.250
2206 E	30	62	20	19.04	5.36	9500	12000	0.260
2206 K	30	62	20	25.25	6.06	9500	12000	0.250
2207	35	72	23	31.82	9.09	8000	9500	0.400
2207 E	35	72	23	24.56	7.04	8000	9500	0.400
2207 K	35	72	23	31.82	9.09	8000	9500	0.400
2208	40	80	23	32.32	9.60	7500	9000	0.490
2208 E	440	80	23	25.52	8.00	7500	9000	0.510
2208 K	40	80	23	32.32	9.60	7500	9000	0.490
2209 E	45	85	23	26.00	8.48	7500	9000	0.550
2210	50	90	23	28.28	9.60	6700	8000	0.600
2210 E	50	90	23	27.04	8.96	6700	8000	0.600
2210 K	50	90	23	28.28	9.60	6700	8000	0.600
2211	55	100	25	39.39	12.63	5500	6600	0.750
2211 E	55	100	25	31.20	10.72	5500	6600	0.810
2211 K	55	100	25	39.39	12.63	5500	6600	0.750
2211 M	105	190	50	86.40	36.00	5500	6600	6.100
2212	60	110	28	45.45	16.67	5200	6200	1.100
2212 E	60	110	28	39.04	13.60	5200	6200	1.100
2212 K	60	110	28	45.45	16.67	5200	6200	1.100

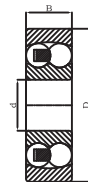
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	d	D	B	Dynamic	Static	Grease	Oil	
	mm			C (kN)	CO (kN)	rpm		kg
2213	65	120	31	57.57	19.70	4500	5200	1.400
2213 E	65	120	31	45.76	16.00	4500	5200	1.450
2213 K	65	120	31	57.57	19.70	4500	5200	1.400
2214	70	125	31	44.44	17.07	4700	5100	1.600
2214 K	70	125	31	44.44	17.07	4700	5100	1.600
2215	75	130	31	44.44	18.08	4500	5000	1.700
2215 K	75	130	31	44.44	18.08	4500	5000	1.700
2216	80	140	33	50.50	21.21	4200	4800	2.100
2216 K	80	140	33	50.50	21.21	4200	4800	2.100
2217	85	150	36	58.58	23.74	4000	4700	2.600
2217 K	85	150	36	58.58	23.74	4000	4700	2.600
2218	90	160	40	56.16	22.80	3750	4500	3.400
2219 M	95	170	43	66.56	27.60	3500	4250	4.100
2220	100	180	46	78.00	32.40	3400	4000	5.000
2222	110	200	53	99.20	41.60	3000	3650	7.000

2302	15	42	17	12.02	2.83	16000	19000	0.130
2302	15	42	17	9.52	2.32	16000	19000	0.110
2303	17	47	19	14.34	3.64	14000	17000	0.180
2303	17	47	19	11.68	2.84	14000	17000	0.160
2304	20	52	21	18.18	4.70	13000	16000	0.240
2304	20	52	21	14.56	3.80	13000	16000	0.210
2305	25	62	24	24.75	6.62	10000	13000	0.370

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	d	D	B	Dynamic	Static	Grease	Oil	
	mm			C (kN)	CO (kN)	rpm		kg
2305	25	62	24	19.36	5.24	10000	13000	0.340
2305 K	25	62	24	24.75	6.62	10000	13000	0.370
2306	30	72	27	31.82	8.74	8500	10000	0.550
2306	30	72	27	24.96	7.04	8500	10000	0.500
2306 K	30	72	27	31.82	8.74	8500	10000	0.550
2307	35	80	31	39.39	11.31	7500	9000	0.740
2307 E	35	80	31	31.76	8.96	7500	9000	0.680
2307 K	35	80	31	39.39	11.31	7500	9000	0.740
2308 E	40	90	33	43.20	4.80	7000	8500	0.930
2309 E	45	100	36	50.96	15.44	6500	7800	1.250
2310	50	110	40	64.64	20.20	5300	6300	1.780
2310	50	110	40	50.96	16.00	5300	6300	1.650
2310 K	50	110	40	64.64	20.20	5300	6300	1.780
2311	55	120	43	75.75	23.84	4800	5600	2.300
2311 K	55	120	43	75.75	23.84	4800	5600	2.300
2312	60	130	46	87.37	28.28	4300	5000	2.900
2312 K	60	130	46	87.37	28.28	4300	5000	2.900
2313	65	140	48	95.95	32.83	4000	4800	3.400
2314	70	150	51	111.10	37.88	3600	4300	4.200
2314 K	70	150	51	111.10	37.88	3600	4300	4.200
2315	75	160	55	123.22	42.93	3400	4000	5.200
2315 K	75	160	55	123.22	42.93	3400	4000	5.200
2316	80	170	58	108.00	39.20	3200	4300	6.100

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	mm			C (kN)	CO (kN)	rpm		kg
2317	85	180	60	112.00	40.80	3000	3800	7.050
2318	90	190	64	122.40	45.60	2800	3500	8.450
2319 M	95	200	67	132.00	51.20	2800	3500	9.800
2320 M	100	215	73	152.00	64.00	2600	3000	12.500