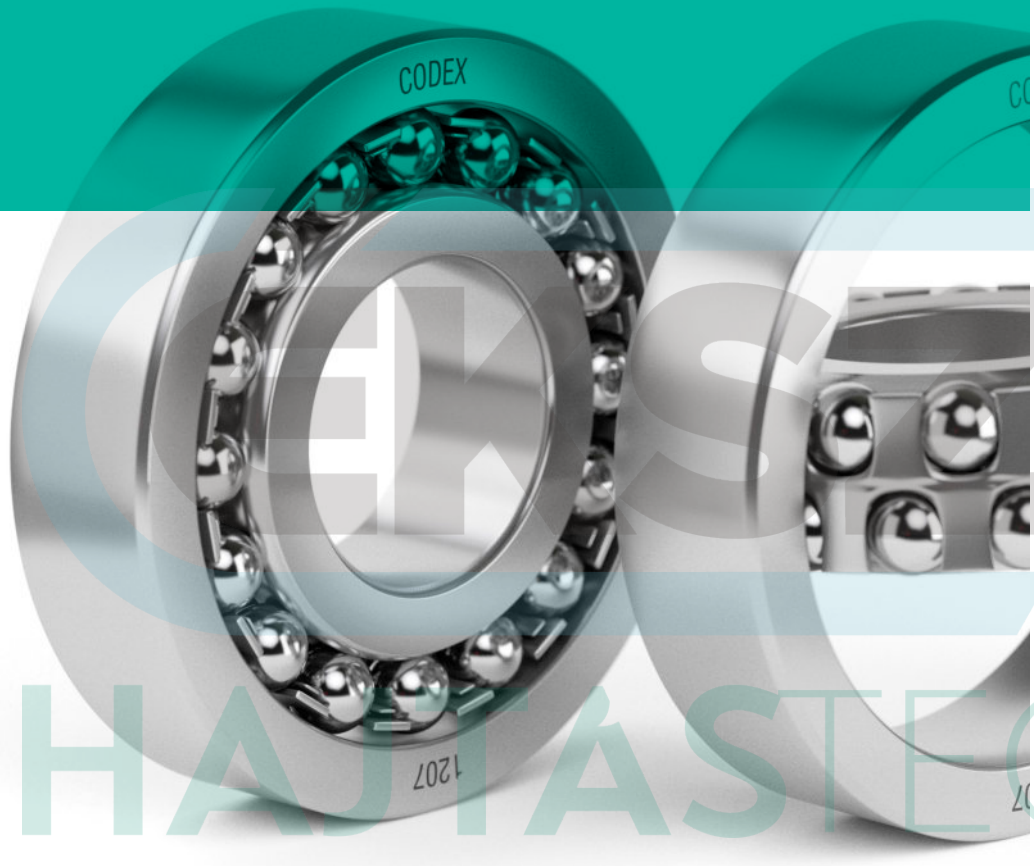


Self-aligning ball bearings

Self-aligning bearings have two rows of balls; the outer ring has a spherical raceway and its center of curvature coincides with that of the bearing. This gives the bearing their self-aligning ability, therefore angular misalignment of the shaft relative to the housing is possible. This type is recommended when the alignment of the shaft and housing is difficult or the shaft may bend. The axial load capacity is low but non-sealed self-aligning ball bearings have the lowest friction of any bearing type.

Standard cage material is steel sheet.

NOMENCLATURE:

22 08 K 2RS

- 2RS — Seal code (Both sides sealed)
- K — Bore design (tapered bore)
- 08 — Bore diameter number (nominal bore diameter, 40 mm)
- 22 — Bearing series code (double-row self-aligning ball bearings, series 12, 13, 22, 23)

SHIELD CODE:

No symbol Open type

2RS double side rubber seal

INTERNAL CLEARANCE CODE:

C2 Less than standard clearance

CN Normal clearance. No symbol. Standard if not otherwise indicated.

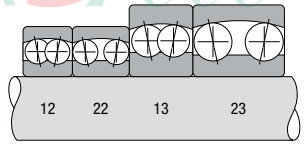
C3 Greater than standard clearance

PREFIX/SUFFIX:

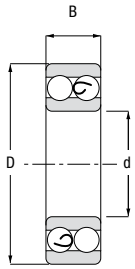
K tapered bore (1:12)

TN polyamide cage

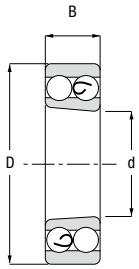
CODEX BASIC TYPES & SERIES



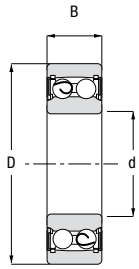
Self-aligning ball bearings



Cylindrical Bore



Tapered Bore



2RS

Main dimensions (mm)			Load ratings (kN)		Limiting speeds * (rpm)	Weight (kg)	Designation	
d	D	B	Dynamic (Cr)	Static (Cor)			Cylindrical Bore	Tapered bore
10	30	9	5,5	1,2	22000	0,033	1200	/
	30	14	7,35	1,5	24000	0,042	2200	/
	35	11	7,25	1,6	20000	0,057	1300	/
	35	17	9,1	2	18000	0,077	2300	/
12	32	10	5,7	1,27	22000	0,039	1201	/
	32	14	7,7	1,7	22000	0,048	2201	/
	37	12	9,6	2,1	18000	0,066	1301	/
	37	17	12,1	2,7	17000	0,082	2301	/
15	35	11	5,7	1,2	22000	0,039	1202	/
	35	14	7,7	1,7	22000	0,048	2202	/
	42	13	9,7	2,1	18000	0,11	1302	/
	42	17	12,1	2,7	17000	0,12	2302	/
17	40	12	8,14	2,03	17000	0,072	1203	/
	40	16	9,9	2,4	16000	0,085	2203	/
	47	14	12,7	3,2	16000	0,13	1303	/
	47	19	14,7	3,5	13000	0,15	2303	/
20	47	14	10,2	2,66	14000	0,12	1204	1204 K
	47	18	12,8	3,3	14000	0,133	2204	2204 K
	52	15	12,6	3,4	12000	0,165	1304	1304 K
	52	21	18,5	4,7	11000	0,193	2304	2304 K
25	52	15	12,2	3,3	12000	0,14	1205	1205 K
	52	18	12,4	3,5	12000	0,15	2205	2205 K
	62	17	18,2	5	10000	0,255	1305	1305 K
	62	24	24,5	6,5	9500	0,319	2305	2305 K
30	62	16	17	4,7	11000	0,2	1206	1206 K
	62	20	16	4,6	11000	0,3	2206	2206 K
	72	19	22	6,3	9400	0,4	1306	1306 K
	72	27	32,5	8,7	8400	0,5	2306	2306 K
35	72	17	19	5,5	8500	0,32	1207	1207 K
	72	23	22,5	7,5	8500	0,38	2207	2207 K
	80	21	30	9,7	7500	0,51	1307	1307 K
	80	31	-	-	7100	0,64	2307	2307 K
40	80	18	19	6	7500	0,42	1208	1208 K
	80	23	22	7,4	7500	0,48	2208	2208 K
	90	23	-	-	6800	0,72	1308	1308 K
	90	33	-	-	6500	0,89	2308	2308 K
45	85	19	23	7,9	7200	0,47	1209	1209 K
	85	23	24	8,5	7200	0,52	2209	2209 K
	100	25	-	-	6500	0,96	1309	1309 K
	100	36	-	-	5800	1,2	2309	2309 K
50	90	20	23,5	8,5	6300	0,53	1210	1210 K
	90	23	24	8,8	6300	0,56	2210	2210 K
	110	27	-	-	5800	1,25	1310	1310 K
	110	40	-	-	5500	1,58	2310	2310 K
55	100	21	27	9,2	6000	0,71	1211	1211 K
	100	25	28	10,5	6000	0,75	2211	2211 K
	120	29	-	-	5500	1,6	1311	1311 K
	120	43	-	-	500	2,03	2311	2311 K
60	110	22	30,5	11,8	5300	0,9	1212	1212 K
	110	28	34,5	12,8	5300	1,03	2212	2212 K
	130	31	-	-	4500	2,03	1312	1312 K
	130	46	-	-	4400	2,57	2312	2312 K
65	120	23	32	12,5	4800	1,15	1213	1213 K
	120	31	44,2	17	4800	1,4	2213	2213 K
	140	33	-	-	4500	2,54	1313	1313 K
	140	48	-	-	4000	3,2	2313	2313 K
70	125	24	35	15,1	4800	1,25	1214	-
	125	31	44	17	4800	1,52	2214	-
	150	35	-	-	4300	3,19	1314	-
	150	51	-	-	4000	3,9	2314	-
75	130	25	39	15,7	4300	1,35	1215	1215 K
	130	31	58,5	19	4300	1,6	2215	2215 K
	160	37	-	-	3800	3,65	1315	1315 K
	160	55	-	-	3500	4,77	2315	2315 K
80	140	26	39,7	17	4000	1,65	1216	1216 K
	140	33	49	20	4000	1,97	2216	2216 K
	170	39	-	-	3800	4,31	1316	1316 K
	170	58	-	-	3500	5,54	2316	2316 K

* For applications close to the limiting speeds please contact Codex QA department.