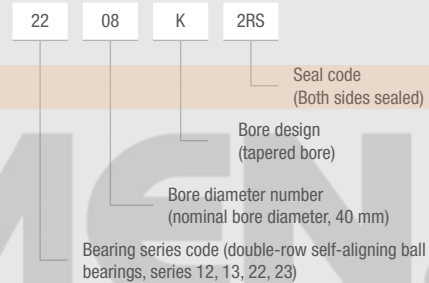




Self-aligning bearings have two rows of balls; the outer ring has a spherical raceway and its center of curvature coincides with that of the bearing. This gives the bearing their self-aligning ability, therefore angular misalignment of the shaft relative to the housing is possible. This type is recommended 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:



SHIELD CODE:

No symbol Open type
2RS double side rubber seal

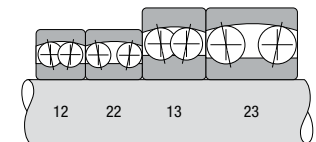
INTERNAL CLEARANCE CODE:

C2 Less than standard clearance
CN Normal clearance. No symbol. Standard if not otherwise indicated.
C3 Greater than standard clearance

PREFIX/SUFFIX:

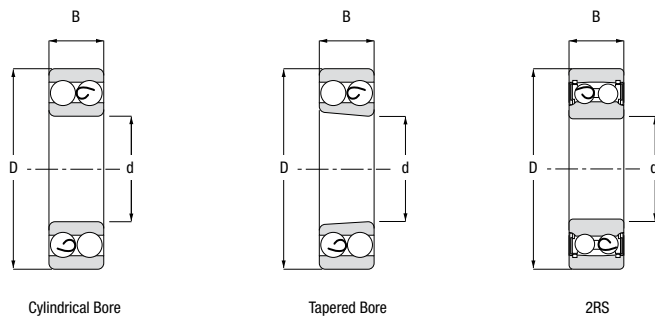
K tapered bore (1:12)
TN polyamide cage

CODEX BASIC TYPES & SERIES



Self-aligning ball bearings

Self-aligning ball bearings



| 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 |

| Main dimensions (mm) | | | Load ratings (kN) | | Limiting speeds * (rpm) | Weight (kg) | Designation | |
|----------------------|-----|----|-------------------|--------------|-------------------------|-------------|------------------|--------------|
| d | D | B | Dynamic (Cr) | Static (Cor) | | | Cylindrical Bore | Tapered bore |
| 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.