

# 45 to 50 mm

| Designation | Boundary dimensions | | | Balls | | | Dimensions | | | | | | Abutment dimensions | | | | | Weight | Contact angle | Load rating | | | Speed value | | Preload/axial rigidity | | | | | | Spring preload | Designation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | d | D | B | $d_m$ | $D_W$ | Z | $d_1$ | $d_2$ | $D_1$ | $D_2$ | $r_{1,2}$ | $r_{3,4}$ | $r_{a\,max}$ | $r_{b\,max}$ | $d_{a,\,b\,min}$ | $D_{a,\,b\,max}$ | $d_T$ | m | $\alpha_0$ | C | $C_0$ | $C_{0\,HY}$ | $n_{oil}$ | $n_{grease}$ | $F_v$ | $C_{ax}$ | $F_v$ | $C_{ax}$ | $F_v$ | $C_{ax}$ | $F_f$ | |
| | | | | | | | | | | | | | | | | | | | | | | | | | L | | M | | S | | | |
| **45 mm** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **45 mm** |
| S 61909 C TA | 45 | 68 | 12 | 56.5 | 6.35 | 20 | 52.3 | | 60.7 | 62.7 | 0.6 | 0.3 | 0.6 | 0.15 | 50.0 | 63.5 | 54.5 | 0.128 | 15 | 15200 | 13600 | 9600 | 30000 | 22500 | 80 | 49 | 230 | 79 | 460 | 112 | 390 | S 61909 C TA |
| S 61909 E TA | 45 | 68 | 12 | 56.5 | 6.35 | 20 | 52.3 | | 60.7 | 62.7 | 0.6 | 0.3 | 0.6 | 0.15 | 50.0 | 63.5 | 54.5 | 0.128 | 25 | 14300 | 12900 | 9100 | 25500 | 19000 | 120 | 115 | 360 | 173 | 720 | 232 | 520 | S 61909 E TA |
| SM 61909 C TA | 45 | 68 | 12 | 56.5 | 6.35 | 20 | 52.3 | | 60.7 | 62.7 | 0.6 | 0.3 | 0.6 | 0.15 | 50.0 | 63.5 | 54.5 | 0.128 | 17 | 10600 | 6800 | 4800 | 35000 | 26000 | 55 | 42 | 160 | 64 | 320 | 85 | 365 | SM 61909 C TA |
| KH 61909 C TA | 45 | 68 | 12 | 56.5 | 4.762 | 28 | 52.3 | 50.8 | 60.7 | 62.2 | 0.6 | 0.3 | 0.6 | 0.15 | 50.0 | 63.5 | 53.8 | 0.128 | 17 | 7300 | 5150 | 3600 | 38000 | 28500 | 35 | 40 | 110 | 61 | 220 | 81 | 265 | KH 61909 C TA |
| KH 61909 E TA | 45 | 68 | 12 | 56.5 | 4.762 | 28 | 52.3 | 50.8 | 60.7 | 62.2 | 0.6 | 0.3 | 0.6 | 0.15 | 50.0 | 63.5 | 53.8 | 0.128 | 25 | 6950 | 4900 | 3450 | 34000 | 25500 | 60 | 86 | 170 | 124 | 350 | 162 | 335 | KH 61909 E TA |
| S 6009 C TA | 45 | 75 | 16 | 60.0 | 8.731 | 18 | 54.7 | | 65.0 | 68.6 | 1.0 | 0.6 | 1.0 | 0.3 | 51.0 | 69.0 | 57.6 | 0.238 | 15 | 27000 | 22600 | 15900 | 28000 | 21000 | 130 | 60 | 400 | 105 | 800 | 150 | 690 | S 6009 C TA |
| S 6009 E TA | 45 | 75 | 16 | 60.0 | 8.731 | 18 | 54.7 | | 65.0 | 68.6 | 1.0 | 0.6 | 1.0 | 0.3 | 51.0 | 69.0 | 57.6 | 0.238 | 25 | 26000 | 21500 | 15100 | 24000 | 18000 | 210 | 140 | 650 | 220 | 1300 | 300 | 950 | S 6009 E TA |
| SM 6009 C TA | 45 | 75 | 16 | 60.0 | 8.731 | 18 | 54.7 | | 65.0 | 68.6 | 1.0 | 0.6 | 1.0 | 0.3 | 51.0 | 69.0 | 57.6 | 0.238 | 15 | 18500 | 11400 | 8000 | 33000 | 24500 | 90 | 44 | 275 | 69 | 550 | 93 | 560 | SM 6009 C TA |
| KH 6009 C TA | 45 | 75 | 16 | 60.0 | 6.35 | 22 | 54.7 | 53 | 65.6 | 67.8 | 1.0 | 0.6 | 1.0 | 0.3 | 51.0 | 69.0 | 56.9 | 0.238 | 17 | 10800 | 6950 | 4900 | 36000 | 27000 | 55 | 44 | 160 | 65 | 330 | 88 | 390 | KH 6009 C TA |
| KH 6009 E TA | 45 | 75 | 16 | 60.0 | 6.35 | 22 | 54.7 | 53 | 65.6 | 67.8 | 1.0 | 0.6 | 1.0 | 0.3 | 51.0 | 69.0 | 56.9 | 0.238 | 25 | 10300 | 6650 | 4700 | 32000 | 24000 | 90 | 92 | 260 | 135 | 520 | 175 | 490 | KH 6009 E TA |
| S 6209 C TA | 45 | 85 | 19 | 65.0 | 12.7 | 14 | 57.4 | | 72.5 | 77.5 | 1.1 | 0.6 | 1.0 | 0.6 | 53.0 | 77.0 | 61.7 | 0.416 | 15 | 45500 | 33500 | 23500 | 26000 | 19500 | 230 | 71 | 700 | 119 | 1400 | 171 | 1170 | S 6209 C TA |
| S 6209 E TA | 45 | 85 | 19 | 65.0 | 12.7 | 14 | 57.4 | | 72.5 | 77.5 | 1.1 | 0.6 | 1.0 | 0.6 | 53.0 | 77.0 | 61.7 | 0.416 | 25 | 43500 | 32500 | 22600 | 22500 | 17000 | 370 | 169 | 1100 | 257 | 2200 | 346 | 1580 | S 6209 E TA |
| **50 mm** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **50 mm** |
| S 61910 C TA | 50 | 72 | 12 | 61.0 | 6.35 | 21 | 56.8 | | 65.2 | 67.2 | 0.6 | 0.3 | 0.6 | 0.15 | 55.0 | 67.5 | 58.9 | 0.129 | 15 | 15400 | 14500 | 10200 | 28000 | 21000 | 80 | 50 | 230 | 81 | 460 | 115 | 395 | S 61910 C TA |
| S 61910 E TA | 50 | 72 | 12 | 61.0 | 6.35 | 21 | 56.8 | | 65.2 | 67.2 | 0.6 | 0.3 | 0.6 | 0.15 | 55.0 | 67.5 | 58.9 | 0.129 | 25 | 14500 | 13700 | 9700 | 24000 | 18000 | 120 | 119 | 370 | 180 | 740 | 241 | 530 | S 61910 E TA |
| SM 61910 C TA | 50 | 72 | 12 | 61.0 | 6.35 | 21 | 56.8 | | 65.2 | 67.2 | 0.6 | 0.3 | 0.6 | 0.15 | 55.0 | 67.5 | 58.9 | 0.129 | 17 | 10900 | 7200 | 5100 | 33000 | 24500 | 55 | 44 | 170 | 67 | 330 | 89 | 375 | SM 61910 C TA |
| KH 61910 C TA | 50 | 72 | 12 | 61.0 | 4.762 | 30 | 56.8 | 55.3 | 65.2 | 66.7 | 0.6 | 0.3 | 0.6 | 0.15 | 55.0 | 67.5 | 58.3 | 0.129 | 17 | 7500 | 5550 | 3900 | 35000 | 26000 | 40 | 44 | 110 | 64 | 230 | 86 | 270 | KH 61910 C TA |
| KH 61910 E TA | 50 | 72 | 12 | 61.0 | 4.762 | 30 | 56.8 | 55.3 | 65.2 | 66.7 | 0.6 | 0.3 | 0.6 | 0.15 | 55.0 | 67.5 | 58.3 | 0.129 | 25 | 7150 | 5300 | 3700 | 32000 | 24000 | 60 | 90 | 180 | 132 | 360 | 171 | 340 | KH 61910 E TA |
| S 6010 C TA | 50 | 80 | 16 | 65.0 | 8.731 | 19 | 59.7 | | 70.0 | 73.6 | 1.0 | 0.6 | 1.0 | 0.3 | 56.0 | 74.0 | 62.5 | 0.256 | 15 | 28000 | 24300 | 17100 | 26000 | 19500 | 140 | 64 | 420 | 110 | 840 | 160 | 715 | S 6010 C TA |
| S 6010 E TA | 50 | 80 | 16 | 65.0 | 8.731 | 19 | 59.7 | | 70.0 | 73.6 | 1.0 | 0.6 | 1.0 | 0.3 | 56.0 | 74.0 | 62.5 | 0.256 | 25 | 26500 | 23100 | 16300 | 22000 | 16500 | 220 | 145 | 670 | 230 | 1330 | 310 | 970 | S 6010 E TA |
| SM 6010 C TA | 50 | 80 | 16 | 65.0 | 8.731 | 19 | 59.7 | | 70.0 | 73.6 | 1.0 | 0.6 | 1.0 | 0.3 | 56.0 | 74.0 | 62.5 | 0.256 | 15 | 19000 | 12300 | 8600 | 31000 | 23000 | 100 | 47 | 290 | 72 | 580 | 99 | 570 | SM 6010 C TA |
| KH 6010 C TA | 50 | 80 | 16 | 65.0 | 6.35 | 25 | 59.7 | 58 | 70.7 | 73.1 | 1.0 | 0.6 | 1.0 | 0.3 | 56.0 | 74.0 | 61.9 | 0.256 | 17 | 11600 | 8000 | 5650 | 33000 | 24500 | 60 | 49 | 180 | 74 | 350 | 98 | 415 | KH 6010 C TA |
| KH 6010 E TA | 50 | 80 | 16 | 65.0 | 6.35 | 25 | 59.7 | 58 | 70.7 | 73.1 | 1.0 | 0.6 | 1.0 | 0.3 | 56.0 | 74.0 | 61.9 | 0.256 | 25 | 11100 | 7600 | 5350 | 30000 | 22500 | 90 | 100 | 280 | 150 | 560 | 194 | 530 | KH 6010 E TA |
| S 6210 C TA | 50 | 90 | 20 | 70.0 | 12.7 | 15 | 62.5 | | 76.9 | 82.7 | 1.1 | 0.6 | 1.0 | 0.6 | 58.0 | 82.0 | 66.7 | 0.486 | 15 | 47500 | 37000 | 26000 | 24500 | 18500 | 240 | 75 | 720 | 125 | 1440 | 178 | 1220 | S 6210 C TA |
| S 6210 E TA | 50 | 90 | 20 | 70.0 | 12.7 | 15 | 62.5 | | 76.9 | 82.7 | 1.1 | 0.6 | 1.0 | 0.6 | 58.0 | 82.0 | 66.7 | 0.486 | 25 | 45000 | 35500 | 24700 | 20500 | 15500 | 380 | 177 | 1140 | 271 | 2280 | 363 | 1640 | S 6210 E TA |