

# 17 to 20 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 | | | |
| **17 mm** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **17 mm** |
| S 61803 C TA | 17 | 26 | 5 | 21.5 | 2.381 | 19 | 19.8 | | 23.2 | 23.8 | 0.3 | 0.2 | 0.3 | 0.15 | 19.0 | 24.0 | 20.6 | 0.008 | 15 | 2000 | 1310 | 920 | 79000 | 59000 | 10 | 14 | 30 | 22 | 60 | 31 | 55 | S 61803 C TA |
| S 61803 E TA | 17 | 26 | 5 | 21.5 | 2.381 | 19 | 19.8 | | 23.2 | 23.8 | 0.3 | 0.2 | 0.3 | 0.15 | 19.0 | 24.0 | 20.6 | 0.008 | 25 | 1890 | 1240 | 870 | 67000 | 50000 | 16 | 35 | 50 | 54 | 100 | 69 | 70 | S 61803 E TA |
| S 61903 C TA | 17 | 30 | 7 | 23.5 | 3.969 | 14 | 21.0 | | 26.6 | 27.7 | 0.3 | 0.3 | 0.3 | 0.1 | 19.5 | 27.5 | 22.5 | 0.017 | 15 | 4700 | 2700 | 1900 | 71000 | 53000 | 25 | 20 | 75 | 32 | 150 | 45 | 120 | S 61903 C TA |
| S 61903 E TA | 17 | 30 | 7 | 23.5 | 3.969 | 14 | 21.0 | | 26.6 | 27.7 | 0.3 | 0.3 | 0.3 | 0.1 | 19.5 | 27.5 | 22.5 | 0.017 | 25 | 4450 | 2600 | 1810 | 61000 | 46000 | 40 | 49 | 120 | 73 | 240 | 96 | 165 | S 61903 E TA |
| SM 61903 C TA | 17 | 30 | 7 | 23.5 | 3.969 | 14 | 21.0 | | 26.6 | 27.7 | 0.3 | 0.3 | 0.3 | 0.1 | 19.5 | 27.5 | 22.5 | 0.017 | 15 | 3750 | 1750 | 1230 | 84000 | 63000 | 19 | 16 | 55 | 25 | 110 | 34 | 115 | SM 61903 C TA |
| KH 61903 C TA | 17 | 30 | 7 | 23.5 | 2.778 | 18 | 21.0 | 20.6 | 26.2 | 26.8 | 0.3 | 0.3 | 0.3 | 0.1 | 19.5 | 27.5 | 22.2 | 0.017 | 17 | 2150 | 1070 | 760 | 90000 | 67000 | 11 | 17 | 35 | 27 | 65 | 34 | 80 | KH 61903 C TA |
| KH 61903 E TA | 17 | 30 | 7 | 23.5 | 2.778 | 18 | 21.0 | 20.6 | 26.2 | 26.8 | 0.3 | 0.3 | 0.3 | 0.1 | 19.5 | 27.5 | 22.2 | 0.017 | 25 | 2060 | 1020 | 720 | 82000 | 61000 | 17 | 35 | 50 | 62 | 100 | 67 | 100 | KH 61903 E TA |
| S 6003 C TA | 17 | 35 | 10 | 26.0 | 4.762 | 14 | 22.7 | | 29.4 | 30.7 | 0.3 | 0.3 | 0.3 | 0.1 | 20.0 | 31.5 | 24.4 | 0.037 | 15 | 6950 | 4150 | 2950 | 65000 | 49000 | 35 | 24 | 105 | 41 | 210 | 59 | 180 | S 6003 C TA |
| S 6003 E TA | 17 | 35 | 10 | 26.0 | 4.762 | 14 | 22.7 | | 29.4 | 30.7 | 0.3 | 0.3 | 0.3 | 0.1 | 20.0 | 31.5 | 24.4 | 0.037 | 25 | 6650 | 4000 | 2800 | 56000 | 42000 | 60 | 58 | 170 | 88 | 340 | 115 | 245 | S 6003 E TA |
| SM 6003 C TA | 17 | 35 | 10 | 26.0 | 4.762 | 14 | 22.7 | | 29.4 | 30.7 | 0.3 | 0.3 | 0.3 | 0.1 | 20.0 | 31.5 | 24.4 | 0.037 | 15 | 5150 | 2410 | 1690 | 77000 | 58000 | 25 | 19 | 80 | 30 | 160 | 41 | 155 | SM 6003 C TA |
| KH 6003 C TA | 17 | 35 | 10 | 26.0 | 3.969 | 15 | 22.7 | 22 | 29.8 | 30.4 | 0.3 | 0.3 | 0.3 | 0.1 | 20.0 | 31.5 | 24.2 | 0.037 | 17 | 3750 | 1750 | 1230 | 82000 | 61000 | 19 | 20 | 55 | 31 | 110 | 41 | 135 | KH 6003 C TA |
| KH 6003 E TA | 17 | 35 | 10 | 26.0 | 3.969 | 15 | 22.7 | 22 | 29.8 | 30.4 | 0.3 | 0.3 | 0.3 | 0.1 | 20.0 | 31.5 | 24.2 | 0.037 | 25 | 3600 | 1680 | 1180 | 74000 | 55000 | 30 | 42 | 90 | 63 | 180 | 82 | 175 | KH 6003 E TA |
| S 6203 C TA | 17 | 40 | 12 | 28.5 | 6.747 | 11 | 24.1 | | 33.0 | 35.2 | 0.6 | 0.3 | 0.6 | 0.3 | 21.5 | 35.0 | 26.6 | 0.065 | 15 | 11400 | 6350 | 4450 | 60000 | 45000 | 60 | 29 | 170 | 48 | 350 | 69 | 295 | S 6203 C TA |
| S 6203 E TA | 17 | 40 | 12 | 28.5 | 6.747 | 11 | 24.1 | | 33.0 | 35.2 | 0.6 | 0.3 | 0.6 | 0.3 | 21.5 | 35.0 | 26.6 | 0.065 | 25 | 11000 | 6100 | 4300 | 51000 | 38000 | 90 | 69 | 280 | 106 | 560 | 143 | 400 | S 6203 E TA |
| **20 mm** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **20 mm** |
| S 61804 C TA | 20 | 32 | 7 | 26.0 | 3.175 | 18 | 23.9 | | 28.1 | 29.1 | 0.3 | 0.3 | 0.3 | 0.15 | 23.0 | 29.0 | 24.9 | 0.018 | 15 | 3650 | 2500 | 1760 | 65000 | 49000 | 19 | 21 | 55 | 32 | 110 | 45 | 95 | S 61804 C TA |
| S 61804 E TA | 20 | 32 | 7 | 26.0 | 3.175 | 18 | 23.9 | | 28.1 | 29.1 | 0.3 | 0.3 | 0.3 | 0.15 | 23.0 | 29.0 | 24.9 | 0.018 | 25 | 3450 | 2380 | 1680 | 56000 | 42000 | 30 | 49 | 90 | 74 | 170 | 95 | 130 | S 61804 E TA |
| S 61904 C TA | 20 | 37 | 9 | 28.5 | 4.762 | 15 | 25.1 | | 31.9 | 33.2 | 0.3 | 0.3 | 0.3 | 0.15 | 23.0 | 33.5 | 26.9 | 0.036 | 15 | 7250 | 4600 | 3200 | 60000 | 45000 | 35 | 26 | 110 | 43 | 220 | 61 | 185 | S 61904 C TA |
| S 61904 E TA | 20 | 37 | 9 | 28.5 | 4.762 | 15 | 25.1 | | 31.9 | 33.2 | 0.3 | 0.3 | 0.3 | 0.15 | 23.0 | 33.5 | 26.9 | 0.036 | 25 | 6850 | 4350 | 3050 | 51000 | 38000 | 55 | 62 | 170 | 95 | 340 | 125 | 250 | S 61904 E TA |
| SM 61904 C TA | 20 | 37 | 9 | 28.5 | 4.762 | 15 | 25.1 | | 31.9 | 33.2 | 0.3 | 0.3 | 0.3 | 0.15 | 23.0 | 33.5 | 26.9 | 0.036 | 15 | 5400 | 2700 | 1870 | 70000 | 52000 | 30 | 22 | 80 | 32 | 170 | 45 | 165 | SM 61904 C TA |
| KH 61904 C TA | 20 | 37 | 9 | 28.5 | 3.969 | 16 | 25.1 | 24.5 | 31.7 | 33.0 | 0.3 | 0.3 | 0.3 | 0.15 | 23.0 | 33.5 | 26.6 | 0.036 | 17 | 3900 | 1900 | 1340 | 75000 | 56000 | 20 | 21 | 60 | 33 | 120 | 44 | 140 | KH 61904 C TA |
| KH 61904 E TA | 20 | 37 | 9 | 28.5 | 3.969 | 16 | 25.1 | 24.5 | 31.7 | 33.0 | 0.3 | 0.3 | 0.3 | 0.15 | 23.0 | 33.5 | 26.6 | 0.036 | 25 | 3700 | 1820 | 1280 | 68000 | 51000 | 30 | 44 | 90 | 66 | 180 | 85 | 180 | KH 61904 E TA |
| S 6004 C TA | 20 | 42 | 12 | 31.0 | 6.35 | 13 | 26.6 | | 35.5 | 37.3 | 0.6 | 0.3 | 0.6 | 0.3 | 25.0 | 37.0 | 29.0 | 0.063 | 15 | 12200 | 7600 | 5350 | 55000 | 41000 | 60 | 33 | 180 | 57 | 360 | 84 | 315 | S 6004 C TA |
| S 6004 E TA | 20 | 42 | 12 | 31.0 | 6.35 | 13 | 26.6 | | 35.5 | 37.3 | 0.6 | 0.3 | 0.6 | 0.3 | 25.0 | 37.0 | 29.0 | 0.063 | 25 | 11700 | 7300 | 5150 | 47000 | 35000 | 100 | 78 | 300 | 120 | 600 | 165 | 425 | S 6004 E TA |
| SM 6004 C TA | 20 | 42 | 12 | 31.0 | 6.35 | 13 | 26.6 | | 35.5 | 37.3 | 0.6 | 0.3 | 0.6 | 0.3 | 25.0 | 37.0 | 29.0 | 0.063 | 15 | 8300 | 3800 | 2700 | 65000 | 49000 | 40 | 24 | 120 | 37 | 240 | 51 | 250 | SM 6004 C TA |
| KH 6004 C TA | 20 | 42 | 12 | 31.0 | 5.556 | 14 | 26.6 | 25.3 | 36.4 | 38.0 | 0.6 | 0.3 | 0.6 | 0.3 | 25.0 | 37.0 | 28.6 | 0.063 | 17 | 6500 | 3050 | 2140 | 70000 | 52000 | 35 | 27 | 100 | 40 | 200 | 54 | 235 | KH 6004 C TA |
| KH 6004 E TA | 20 | 42 | 12 | 31.0 | 5.556 | 14 | 26.6 | 25.3 | 36.4 | 38.0 | 0.6 | 0.3 | 0.6 | 0.3 | 25.0 | 37.0 | 28.6 | 0.063 | 25 | 6300 | 2950 | 2060 | 63000 | 47000 | 50 | 54 | 160 | 82 | 320 | 106 | 300 | KH 6004 E TA |
| S 6204 C TA | 20 | 47 | 14 | 33.5 | 7.938 | 11 | 28.5 | | 38.6 | 41.4 | 1.0 | 0.6 | 1.0 | 0.6 | 26.0 | 41.0 | 31.4 | 0.105 | 15 | 16900 | 10000 | 7050 | 51000 | 38000 | 85 | 38 | 260 | 66 | 500 | 94 | 435 | S 6204 C TA |
| S 6204 E TA | 20 | 47 | 14 | 33.5 | 7.938 | 11 | 28.5 | | 38.6 | 41.4 | 1.0 | 0.6 | 1.0 | 0.6 | 26.0 | 41.0 | 31.4 | 0.105 | 25 | 16200 | 9800 | 6850 | 43000 | 32000 | 140 | 91 | 410 | 139 | 820 | 189 | 590 | S 6204 E TA |