

# 7 to 10 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 | | | |
| **7 mm** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **7 mm** |
| S 619/7 C TA | 7 | 17 | 5 | 12.0 | 2.381 | 11 | 10.0 | | 13.6 | 14.1 | 0.3 | 0.3 | 0.3 | 0.1 | 9.0 | 15.0 | 10.9 | 0.005 | 15 | 1510 | 655 | 460 | 145000 | 110000 | 8 | 9 | 23 | 15 | 46 | 21 | 40 | S 619/7 C TA |
| S 607 C TA | 7 | 19 | 6 | 13.0 | 3.175 | 10 | 10.7 | | 15.8 | 16.5 | 0.3 | 0.3 | 0.3 | 0.1 | 9.5 | 16.5 | 12.1 | 0.007 | 15 | 2600 | 1170 | 820 | 125000 | 94000 | 12 | 11 | 40 | 20 | 80 | 30 | 70 | S 607 C TA |
| SM 607 C TA | 7 | 19 | 6 | 13.0 | 3.175 | 10 | 10.7 | | 15.8 | 16.5 | 0.3 | 0.3 | 0.3 | 0.1 | 9.5 | 16.5 | 12.1 | 0.007 | 15 | 1920 | 675 | 475 | 150000 | 110000 | 10 | 10 | 30 | 15 | 60 | 21 | 60 | SM 607 C TA |
| S 627 C TA | 7 | 22 | 7 | 14.5 | 3.969 | 9 | 11.8 | | 17.6 | 18.6 | 0.3 | 0.3 | 0.3 | 0.15 | 10.0 | 19.0 | 13.4 | 0.013 | 15 | 3400 | 1460 | 1030 | 115000 | 86000 | 20 | 13 | 50 | 19 | 100 | 28 | 90 | S 627 C TA |
| **8 mm** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **8 mm** |
| S 619/8 C TA | 8 | 19 | 6 | 13.5 | 3.175 | 10 | 10.7 | | 15.9 | 16.5 | 0.3 | 0.3 | 0.3 | 0.1 | 10.0 | 17.0 | 12.2 | 0.007 | 15 | 2600 | 1170 | 820 | 125000 | 94000 | 12 | 12 | 35 | 19 | 70 | 27 | 70 | S 619/8 C TA |
| S 608 C TA | 8 | 22 | 7 | 15.0 | 3.969 | 9 | 11.8 | | 17.6 | 18.6 | 0.3 | 0.3 | 0.3 | 0.1 | 10.5 | 19.0 | 13.4 | 0.010 | 15 | 3400 | 1460 | 1030 | 115000 | 86000 | 17 | 12 | 50 | 20 | 100 | 28 | 90 | S 608 C TA |
| SM 608 C TA | 8 | 22 | 7 | 15.0 | 3.969 | 9 | 11.8 | | 17.6 | 18.6 | 0.3 | 0.3 | 0.3 | 0.1 | 10.5 | 19.0 | 13.4 | 0.010 | 15 | 2700 | 980 | 685 | 136000 | 100000 | 13 | 10 | 40 | 16 | 80 | 22 | 85 | SM 608 C TA |
| **9 mm** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **9 mm** |
| S 619/9 C TA | 9 | 20 | 6 | 14.5 | 3.175 | 11 | 12.4 | | 17.2 | 17.9 | 0.3 | 0.2 | 0.3 | 0.1 | 11.5 | 18.0 | 13.7 | 0.007 | 15 | 2800 | 1330 | 940 | 115000 | 86000 | 12 | 13 | 40 | 21 | 75 | 29 | 75 | S 619/9 C TA |
| S 609 C TA | 9 | 24 | 7 | 16.5 | 3.969 | 10 | 13.5 | | 19.9 | 20.6 | 0.3 | 0.3 | 0.3 | 0.1 | 11.5 | 21.0 | 15.2 | 0.014 | 15 | 3750 | 1710 | 1200 | 102000 | 76000 | 20 | 14 | 60 | 24 | 120 | 35 | 100 | S 609 C TA |
| SM 609 C TA | 9 | 24 | 7 | 16.5 | 3.969 | 10 | 13.5 | | 19.9 | 20.6 | 0.3 | 0.3 | 0.3 | 0.1 | 11.5 | 21.0 | 15.2 | 0.014 | 15 | 2950 | 1150 | 810 | 120000 | 90000 | 16 | 12 | 50 | 20 | 100 | 27 | 90 | SM 609 C TA |
| S 629 C TA | 9 | 26 | 8 | 17.5 | 4.762 | 10 | 14.7 | | 21.4 | 22.7 | 0.3 | 0.3 | 0.3 | 0.15 | 13.0 | 23.0 | 16.5 | 0.020 | 15 | 5450 | 2600 | 1830 | 94000 | 70000 | 30 | 19 | 80 | 30 | 160 | 42 | 140 | S 629 C TA |
| **10 mm** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **10 mm** |
| S 61800 C TA | 10 | 19 | 5 | 14.5 | 2.381 | 13 | 12.8 | | 16.2 | 16.9 | 0.3 | 0.2 | 0.3 | 0.15 | 12.0 | 17.0 | 13.6 | 0.005 | 15 | 1660 | 830 | 580 | 115000 | 86000 | 8 | 10 | 25 | 17 | 50 | 23 | 45 | S 61800 C TA |
| S 61800 E TA | 10 | 19 | 5 | 14.5 | 2.381 | 13 | 12.8 | | 16.2 | 16.9 | 0.3 | 0.2 | 0.3 | 0.15 | 12.0 | 17.0 | 13.6 | 0.005 | 25 | 1500 | 725 | 510 | 100000 | 75000 | 13 | 25 | 40 | 39 | 80 | 51 | 55 | S 61800 E TA |
| S 61900 C TA | 10 | 22 | 6 | 16.0 | 3.175 | 11 | 13.6 | | 17.8 | 18.8 | 0.3 | 0.3 | 0.3 | 0.1 | 12.5 | 19.5 | 14.7 | 0.010 | 15 | 2800 | 1360 | 960 | 110000 | 82000 | 12 | 13 | 40 | 21 | 75 | 29 | 75 | S 61900 C TA |
| S 61900 E TA | 10 | 22 | 6 | 16.0 | 3.175 | 11 | 13.6 | | 17.8 | 18.8 | 0.3 | 0.3 | 0.3 | 0.1 | 12.5 | 19.5 | 14.7 | 0.010 | 25 | 2700 | 1300 | 920 | 92000 | 69000 | 22 | 32 | 70 | 50 | 140 | 65 | 100 | S 61900 E TA |
| SM 61900 C TA | 10 | 22 | 6 | 16.0 | 3.175 | 11 | 13.6 | | 17.8 | 18.8 | 0.3 | 0.3 | 0.3 | 0.1 | 12.5 | 19.5 | 14.7 | 0.010 | 15 | 2080 | 810 | 565 | 125000 | 94000 | 11 | 11 | 30 | 16 | 65 | 23 | 65 | SM 61900 C TA |
| KH 61900 C TA | 10 | 22 | 6 | 16.0 | 2.381 | 14 | 13.6 | 13.3 | 17.8 | 18.5 | 0.3 | 0.3 | 0.3 | 0.1 | 12.5 | 19.5 | 14.5 | 0.010 | 17 | 1420 | 590 | 415 | 135000 | 100000 | 7 | 12 | 21 | 18 | 45 | 25 | 55 | KH 61900 C TA |
| KH 61900 E TA | 10 | 22 | 6 | 16.0 | 2.381 | 14 | 13.6 | 13.3 | 17.8 | 18.5 | 0.3 | 0.3 | 0.3 | 0.1 | 12.5 | 19.5 | 14.5 | 0.010 | 25 | 1360 | 565 | 400 | 125000 | 94000 | 11 | 25 | 35 | 37 | 70 | 49 | 65 | KH 61900 E TA |
| S 6000 C TA | 10 | 26 | 8 | 18.0 | 4.762 | 10 | 14.7 | | 21.4 | 22.7 | 0.3 | 0.3 | 0.3 | 0.1 | 12.5 | 23.0 | 16.5 | 0.018 | 15 | 5450 | 2600 | 1830 | 95000 | 71000 | 25 | 17 | 80 | 30 | 160 | 43 | 140 | S 6000 C TA |
| S 6000 E TA | 10 | 26 | 8 | 18.0 | 4.762 | 10 | 14.7 | | 21.4 | 22.7 | 0.3 | 0.3 | 0.3 | 0.1 | 12.5 | 23.0 | 16.5 | 0.018 | 25 | 5250 | 2550 | 1760 | 80000 | 60000 | 45 | 42 | 130 | 65 | 260 | 87 | 195 | S 6000 E TA |
| SM 6000 C TA | 10 | 26 | 8 | 18.0 | 4.762 | 10 | 14.7 | | 21.4 | 22.7 | 0.3 | 0.3 | 0.3 | 0.1 | 12.5 | 23.0 | 16.5 | 0.018 | 15 | 3950 | 1530 | 1070 | 111000 | 83000 | 18 | 13 | 60 | 22 | 110 | 29 | 120 | SM 6000 C TA |
| KH 6000 C TA | 10 | 26 | 8 | 18.0 | 3.175 | 11 | 14.7 | 14.2 | 20.5 | 21.3 | 0.3 | 0.3 | 0.3 | 0.1 | 12.5 | 23.0 | 15.9 | 0.018 | 17 | 2020 | 780 | 550 | 125000 | 94000 | 10 | 12 | 30 | 19 | 60 | 26 | 75 | KH 6000 C TA |
| KH 6000 E TA | 10 | 26 | 8 | 18.0 | 3.175 | 11 | 14.7 | 14.2 | 20.5 | 21.3 | 0.3 | 0.3 | 0.3 | 0.1 | 12.5 | 23.0 | 15.9 | 0.018 | 25 | 1950 | 750 | 530 | 110000 | 82000 | 16 | 26 | 50 | 39 | 100 | 51 | 95 | KH 6000 E TA |
| S 6200 C TA | 10 | 30 | 9 | 20.0 | 5.556 | 10 | 16.0 | | 24.5 | 25.5 | 0.6 | 0.6 | 0.6 | 0.3 | 14.5 | 25.5 | 18.3 | 0.030 | 15 | 7500 | 3750 | 2650 | 85000 | 64000 | 40 | 23 | 120 | 39 | 230 | 54 | 195 | S 6200 C TA |
| S 6200 E TA | 10 | 30 | 9 | 20.0 | 5.556 | 10 | 16.0 | | 24.5 | 25.5 | 0.6 | 0.6 | 0.6 | 0.3 | 14.5 | 25.5 | 18.3 | 0.030 | 25 | 7250 | 3600 | 2550 | 72000 | 54000 | 60 | 54 | 180 | 81 | 360 | 110 | 265 | S 6200 E TA |