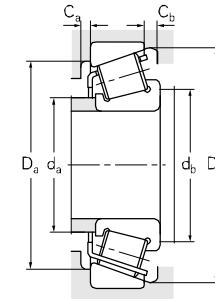
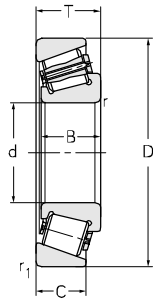
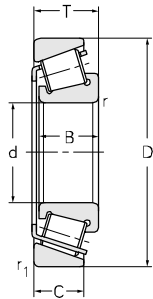


Single-row Tapered Roller Bearing(Metric)

d 20–30 mm

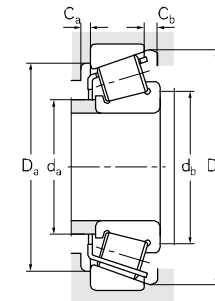
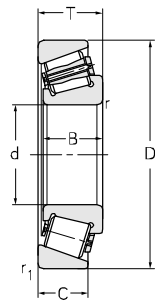
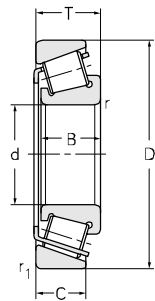


| Principal dimensions | | | | | Basic load ratings | | | | Limit speed ratings | | | | |
|----------------------|-----------|-------|----|------|---------------------|--------------------|----------------------|---------------------|---------------------|-----------------|--------|-------|------|
| d | D | T | B | C | r _{radial} | r _{axial} | r _{1radial} | r _{1axial} | C _R | C _{OR} | Grease | Oil | |
| | | | | | | | | | | r/min | | | |
| mm | | | | | | | | | | | | | |
| 20 | 42 | 15 | 15 | 12 | 0.6 | 0.6 | 0.6 | 0.6 | 26.3 | 29.9 | 9500 | 12000 | |
| | 47 | 19.25 | 18 | 15 | 1 | 1 | 1 | 1 | 27.5 | 31 | 7500 | 10000 | |
| | 47 | 15 | 14 | 12 | 1 | 1 | 1 | 1 | 30.5 | 29.7 | 8000 | 11000 | |
| | 47 | 15.25 | 14 | 12 | 1 | 1 | 1 | 1 | 30 | 31 | 8000 | 11000 | |
| | 52 | 16.25 | 15 | 13 | 1.5 | 1.5 | 1.5 | 1.5 | 38.2 | 32.5 | 8000 | 11000 | |
| | 52 | 22.25 | 21 | 18 | 1.5 | 1.5 | 1.5 | 1.5 | 50 | 45 | 7500 | 10000 | |
| | 25 | 47 | 15 | 15 | 11.5 | 0.6 | 0.6 | 0.6 | 0.6 | 29.3 | 36 | 7500 | 9500 |
| | | 47 | 17 | 17 | 14 | 0.6 | 0.6 | 0.6 | 0.6 | 32.5 | 42.5 | 7500 | 9500 |
| | | 52 | 22 | 22 | 18 | 1 | 1 | 1 | 1 | 52.9 | 56 | 7500 | 9500 |
| | | 52 | 22 | 22 | 18 | 1 | 1 | 1 | 1 | 52.9 | 56 | 7500 | 9500 |
| 52 | | 19.25 | 18 | 16 | 1 | 1 | 1 | 1 | 40.5 | 46 | 7000 | 9500 | |
| 52 | | 16.25 | 15 | 13 | 1 | 1 | 1 | 1 | 34.8 | 33.5 | 7500 | 9500 | |
| 52 | | 16.25 | 15 | 13 | 1 | 1 | 1 | 1 | 34.8 | 33.5 | 7500 | 9500 | |
| 52 | | 16.25 | 15 | 13 | 1 | 1 | 1 | 1 | 34.8 | 33.5 | 7500 | 9500 | |
| 62 | | 18.25 | 17 | 13 | 1.5 | 1.5 | 1.5 | 1.5 | 48 | 47 | 9000 | 13000 | |
| 62 | | 18.25 | 17 | 15 | 1.5 | 1.5 | 1.5 | 1.5 | 48 | 46.5 | 9000 | 13000 | |
| 62 | 18.25 | 17 | 13 | 1.5 | 1.5 | 1.5 | 1.5 | 42.5 | 46 | 5600 | 7500 | | |
| 62 | 25.25 | 24 | 20 | 1.5 | 1.5 | 1.5 | 1.5 | 67 | 72.5 | 9000 | 13000 | | |
| 28 | 52 | 16 | 16 | 12 | 1 | 1 | 1 | 1 | 35.5 | 39.2 | 7100 | 8900 | |
| 30 | 55 | 17 | 17 | 13 | 1 | 1 | 1 | 1 | 36 | 47 | 6700 | 9000 | |
| | 62 | 21.25 | 20 | 17 | 1 | 1 | 1 | 1 | 57.3 | 65 | 6300 | 8500 | |
| | 62 | 21.25 | 20 | 17 | 1 | 1 | 1 | 1 | 57 | 59.5 | 6300 | 8500 | |
| | 62 | 25 | 25 | 19.5 | 1 | 1 | 1 | 1 | 70.5 | 75 | 5600 | 7500 | |
| | 72 | 28.75 | 27 | 23 | 1.5 | 1.5 | 1.5 | 1.5 | 86.2 | 84 | 5300 | 7000 | |
| 72 | 20.75 | 19 | 16 | 1.5 | 1.5 | 1.5 | 1.5 | 62.7 | 62.5 | 5600 | 7500 | | |
| 72 | 20.75 | 19 | 16 | 1.5 | 1.5 | 1.5 | 1.5 | 62.7 | 62.5 | 5600 | 7500 | | |
| 72 | 20.75 | 19 | 14 | 1.5 | 1.5 | 1.5 | 1.5 | 54 | 59.5 | 5600 | 7500 | | |
| 72 | 20.75 | 20 | 14 | 1.5 | 1.5 | 1.5 | 1.5 | 54.5 | 59.5 | 5000 | 6700 | | |

| Designations | Abutment and fillet dimensions | | | | | | Calculation coefficient | | | | Weight | |
|-----------------------|--------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------------|------|------|----------------|--------|--------|
| | d _a max | d _b min | D _a min | D _a max | D _b min | C _a min | C _b min | e | Y | Y ₀ | | a |
| mm | | | | | | | | | | | | |
| kg | | | | | | | | | | | | |
| 32004-DW | 28 | 28 | 44 | 45 | 48 | 3 | 3.3 | 0.37 | 1.6 | 0.88 | 10 | 0.0987 |
| 32204 | 26 | 24 | 38 | 43 | 44 | 2 | 4.3 | 0.33 | 1.8 | 1 | 12 | 0.158 |
| 30204X2/P6XYB5 | 28 | 24 | 40 | 43 | 44 | 2.5 | 3 | 0.35 | 1.7 | 0.96 | 11 | 0.123 |
| 30204/YA8 | 28 | 24 | 40 | 43 | 45 | 2.5 | 3.3 | 0.35 | 1.7 | 0.96 | 11 | 0.124 |
| 30304 | 28 | 28 | 44 | 45 | 48 | 3 | 3.3 | 0.3 | 2 | 1.1 | 11 | 0.167 |
| 32304 | 26 | 27 | 43 | 45 | 48 | 3 | 4.5 | 0.3 | 2 | 1.1 | 13 | 0.238 |
| 32005-DW | 34 | 32 | 47 | 55 | 59 | 3 | 5 | 0.43 | 1.39 | 0.77 | 11 | 0.11 |
| 33005 | 31 | 28 | 40 | 44 | 45 | 2 | 3 | 0.29 | 2.1 | 1.14 | 11 | 0.129 |
| 33205 | 30 | 29 | 42 | 48 | 50 | 2 | 4 | 0.35 | 1.7 | 0.94 | 14 | 0.216 |
| 33205-DW | 30 | 29 | 42 | 48 | 50 | 2 | 4 | 0.35 | 1.7 | 0.94 | 14 | 0.216 |
| 32205 | 31 | 31 | 44 | 48 | 50 | 2 | 3.3 | 0.36 | 1.7 | 0.92 | 13 | 0.199 |
| 30205 | 31 | 31 | 44 | 46 | 49 | 2 | 3.3 | 0.37 | 1.6 | 0.88 | 12 | 0.16 |
| 30205/P6X | 31 | 31 | 44 | 46 | 49 | 2 | 3.3 | 0.37 | 1.6 | 0.88 | 12 | 0.16 |
| 30205/YA8 | 32 | 29 | 43 | 48 | 49 | 2 | 3.3 | 0.37 | 1.6 | 0.88 | 12 | 0.166 |
| 30305 | 35 | 32 | 54 | 55 | 58 | 3 | 5.3 | 0.3 | 2 | 1.1 | 12 | 0.25 |
| 30305X2 | 35 | 33 | 53 | 55 | 58 | 2 | 3.3 | 0.3 | 2 | 1.1 | 13 | 0.267 |
| 31305 | 34 | 32 | 47 | 55 | 59 | 3 | 5 | 0.83 | 0.72 | 0.4 | 20 | 0.263 |
| 32305-DW | 31 | 31 | 44 | 48 | 50 | 2 | 3.3 | 0.3 | 2 | 1.1 | 16 | 0.422 |
| 320/28 | 33 | 32 | 44 | 48 | 51 | 2 | 4 | 0.43 | 1.4 | 0.77 | 13 | 0.145 |
| 32006/P6XYB5 | 35 | 36 | 48 | 49 | 52 | 3 | 4 | 0.43 | 1.4 | 0.8 | 13 | 0.171 |
| 32206 | 36 | 36 | 52 | 56 | 58 | 2 | 4.3 | 0.37 | 1.6 | 0.88 | 15 | 0.356 |
| 32206-DZ | 36 | 36 | 52 | 56 | 58 | 2 | 4.3 | 0.37 | 1.6 | 0.88 | 15 | 0.356 |
| 33206 | 37 | 34 | 51 | 58 | 60 | 2 | 5.5 | 0.34 | 1.8 | 0.97 | 16 | 0.343 |
| 32306 | 38 | 37 | 59 | 65 | 66 | 2 | 6 | 0.31 | 1.9 | 1.05 | 18 | 0.554 |
| 30306/HA | 40 | 37 | 62 | 65 | 66 | 4 | 6 | 0.31 | 1.9 | 1.05 | 15 | 0.397 |
| 30306/HAP6X | 40 | 37 | 62 | 65 | 66 | 4 | 6 | 0.31 | 1.9 | 1.05 | 15 | 0.397 |
| 31306 | 38 | 38 | 55 | 65 | 67 | 2 | 6.8 | 0.83 | 0.7 | 0.4 | 34 | 0.489 |
| 31306WB1 | 38 | 38 | 55 | 65 | 67 | 2 | 6.8 | 0.83 | 0.7 | 0.4 | 34 | 0.489 |

Single-row Tapered Roller Bearing(Metric)

d 30-40 mm

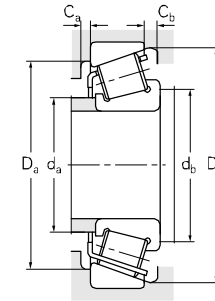
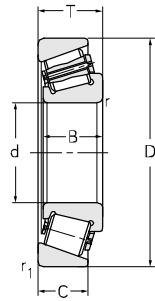
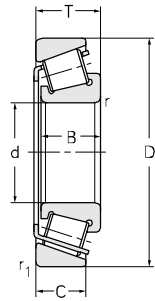


| Principal dimensions | | | | | Basic load ratings | | | | Limit speed ratings | | | |
|----------------------|-------|-------|------|------|---------------------|--------------------|----------------------|---------------------|---------------------|-----------------|--------|------|
| d | D | T | B | C | r _{radial} | r _{axial} | r _{1radial} | r _{1axial} | C _r | C _{0r} | Grease | Oil |
| | | | | | | | | | | | r/min | |
| 30 | 72 | 20.75 | 19 | 14 | 1.5 | 1.5 | 1.5 | 1.5 | 54.5 | 59.5 | 5600 | 7500 |
| | 72 | 24 | 23 | 16.5 | 1.5 | 1.5 | 1.5 | 1.5 | 59 | 61 | 5000 | 6700 |
| | 72 | 24 | 23 | 16.5 | 1.5 | 1.5 | 1.5 | 1.5 | 59 | 61 | 5000 | 6700 |
| 35 | 62 | 18 | 18 | 14 | 1 | 1 | 1 | 1 | 42 | 52 | 6000 | 8000 |
| | 62 | 18 | 18 | 14 | 3.3 | 3.3 | 1 | 1 | 48 | 57 | 6000 | 8000 |
| | 65 | 18 | 18 | 14 | 3.5 | 3.5 | 1.2 | 1.2 | 35 | 41 | 5000 | 7000 |
| | 65 | 18 | 18 | 14 | 3.5 | 3.5 | 1.5 | 1.5 | 38.5 | 42 | 5000 | 7000 |
| | 72 | 24.25 | 23 | 19 | 1.5 | 1.5 | 1.5 | 1.5 | 75 | 80 | 5300 | 7000 |
| | 72 | 24.25 | 23 | 19 | 1.5 | 1.5 | 1.5 | 1.5 | 75 | 80 | 5300 | 7000 |
| | 72 | 18.25 | 17 | 15 | 1.5 | 1.5 | 1.5 | 1.5 | 57.3 | 56 | 5300 | 7000 |
| | 72 | 18.25 | 17 | 15 | 1.5 | 1.5 | 1.5 | 1.5 | 57.3 | 56 | 5300 | 7000 |
| | 80 | 18.25 | 17 | 15 | 1.5 | 1.5 | 1.5 | 1.5 | 54.5 | 60 | 5600 | 7500 |
| | 80 | 22.75 | 21 | 15 | 2 | 2 | 1.5 | 1.5 | 70 | 76 | 4500 | 6000 |
| | 80 | 32.75 | 31 | 25 | 2 | 2 | 1.5 | 1.5 | 94.5 | 94 | 4800 | 6300 |
| | 80 | 32.75 | 31 | 25 | 0.3 | 0.3 | 1.5 | 1.5 | 95 | 110 | 4800 | 6300 |
| 80 | 32.75 | 31 | 25 | 2 | 2 | 1.5 | 1.5 | 94.1 | 110 | 4800 | 6300 | |
| 80 | 32.75 | 31 | 25 | 2 | 2 | 1.5 | 1.5 | 95 | 110 | 4800 | 6300 | |
| 80 | 29.15 | 28.5 | 22 | 2 | 2 | 2 | 2 | 93 | 112 | 4800 | 6300 | |
| 89 | 38 | 38 | 27.5 | 1 | 1 | 1.5 | 1.5 | 111 | 148 | 4800 | 6300 | |
| 89 | 38 | 38 | 27.5 | 1 | 1 | 1.5 | 1.5 | 111 | 148 | 4800 | 6300 | |
| 36.512 | 90 | 35.25 | 33 | 27 | 2 | 2 | 1.5 | 1.5 | 114 | 148 | 4800 | 6300 |
| 37 | 92 | 35.3 | 34 | 26 | 0.5 | 0.5 | 1.5 | 1.5 | 121 | 138 | 4600 | 5800 |
| 39.7 | 90 | 25.4 | 22 | 21 | 0.8 | 0.8 | 0.8 | 0.8 | 78.5 | 94.5 | 4500 | 5700 |
| 40 | 73 | 21 | 21 | 15.5 | 1 | 1 | 1 | 1 | 59 | 74.5 | 5300 | 7000 |
| | 75 | 19 | 19 | 14.5 | 1 | 1 | 1 | 1 | 55 | 76 | 5000 | 6700 |
| | 75 | 26 | 26 | 20.5 | 1.5 | 1.5 | 1.5 | 1.5 | 90 | 104 | 5000 | 6700 |

| Designations | Abutment and fillet dimensions | | | | | | Calculation coefficient | | | | Weight | |
|---|--------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------------|------|------|----------------|--------|-------|
| | d _a max | d _b min | D _a min | D _a max | D _b min | C _a min | C _b min | e | Y | Y ₀ | | a |
| mm | | | | | | | | | | | | |
| 31306B/HAP5 31306X2A-1-SG 31306X2A/HAP5-1 | 41 | 38 | 59 | 65 | 68 | 2 | 6.8 | 0.55 | 1.1 | 0.6 | 18 | 0.370 |
| | 39 | 38 | 56 | 65 | 67 | 2 | 7.5 | 0.62 | 0.97 | 0.53 | 21 | 0.455 |
| | 39 | 38 | 56 | 65 | 67 | 2 | 7.5 | 0.62 | 1 | 0.53 | 21 | 0.455 |
| 32007 32007/YA6 | 40 | 41 | 54 | 56 | 59 | 4 | 4 | 0.45 | 1.3 | 0.73 | 15 | 0.384 |
| | 40 | 41 | 54 | 56 | 59 | 4 | 4 | 0.45 | 1.3 | 0.73 | 15 | 0.222 |
| 30607 30607-1 | 42 | 47 | 55 | 65 | 62 | 2 | 4 | 0.38 | 1.6 | 0.88 | 14 | 0.229 |
| | 39 | 36 | 52 | 58 | 58 | 2 | 4 | 0.33 | 1.8 | 0.99 | 13 | 0.251 |
| 32207 32207/YA8 30207 30207-DZ | 42 | 42 | 61 | 65 | 68 | 2 | 5.3 | 0.37 | 1.6 | 0.88 | 17 | 0.452 |
| | 42 | 42 | 61 | 65 | 68 | 2 | 5.3 | 0.37 | 1.6 | 0.88 | 17 | 0.465 |
| | 44 | 42 | 62 | 65 | 67 | 3 | 3.3 | 0.37 | 1.6 | 0.88 | 15 | 0.318 |
| | 44 | 42 | 62 | 65 | 67 | 3 | 3.3 | 0.37 | 1.6 | 0.88 | 15 | 0.318 |
| 30207X1 31307 32307 32307A/HAP5 32307B | 47 | 44 | 68 | 73 | 75 | 3 | 5.5 | 0.37 | 1.6 | 0.88 | 17 | 0.43 |
| | 45 | 44 | 62 | 71 | 76 | 3 | 7.5 | 0.83 | 0.7 | 0.4 | 25 | 0.515 |
| | 43 | 44 | 66 | 71 | 74 | 4 | 8.5 | 0.31 | 1.9 | 1.05 | 20 | 0.755 |
| | 45 | 36 | 61 | 73 | 75 | 3 | 7.8 | 0.47 | 1.3 | 0.7 | 23 | 0.768 |
| 45 | 36 | 61 | 73 | 75 | 3 | 7.8 | 0.55 | 1.1 | 0.6 | 25 | 0.789 | |
| 32307/HAP6X 32307X2A/YAB 32307X3A/HAP5 32307X3A-SG | 43 | 44 | 66 | 71 | 74 | 4 | 8.5 | 0.31 | 1.9 | 1.05 | 20 | 0.755 |
| | 43 | 44 | 66 | 71 | 74 | 4 | 8.5 | 0.55 | 1.1 | 0.6 | 23 | 0.697 |
| | 47 | 39 | 64 | 82 | 85 | 3 | 11 | 0.62 | 1 | 0.53 | 29 | 1.22 |
| | 47 | 39 | 64 | 82 | 85 | 3 | 11 | 0.62 | 1 | 0.53 | 29 | 1.22 |
| 323/36X4/YB2 | 48 | 42 | 64 | 84 | 65 | 3 | 8.3 | 0.55 | 1.1 | 0.6 | 28 | 1.18 |
| 306/37 | 48 | 40 | 69 | 87 | 86 | 4 | 9.3 | 0.55 | 1.1 | 0.6 | 27 | 1.19 |
| 306/39X4 | 58 | 43 | 74 | 85 | 85 | 2 | 4.4 | 0.4 | 1.49 | 0.82 | 23 | 0.769 |
| 32008X3 32008R-DZ 33108 | 47 | 50 | 59 | 64 | 67 | 2 | 3 | 0.43 | 1.4 | 0.76 | 26 | 0.362 |
| | 47 | 50 | 59 | 64 | 67 | 2 | 3 | 0.38 | 1.58 | 0.87 | 15 | 0.299 |
| | 65 | 47 | 65 | 68 | 71 | 4 | 5.5 | 0.35 | 1.7 | 0.9 | 18 | 0.499 |

Single-row Tapered Roller Bearing(Metric)

d 40-50 mm

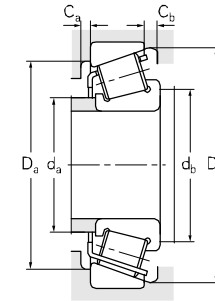
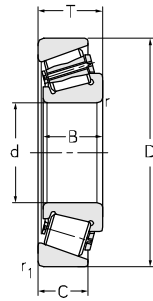
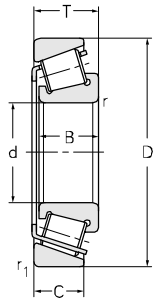


| Principal dimensions | | | | | Basic load ratings | | | | Limit speed ratings | | | | |
|----------------------|-----------|-------|------|------|---------------------|--------------------|----------------------|---------------------|---------------------|-----------------|--------|------|------|
| d | D | T | B | C | r _{radial} | r _{axial} | r _{1radial} | r _{1axial} | C _R | C _{OR} | Grease | Oil | |
| | | | | | | | | | | | r/min | | |
| | | | | | | | | | | | kN | | |
| 40 | 80 | 30 | 29 | 23 | 2 | 2 | 2 | 2 | 103 | 120 | 4300 | 5600 | |
| | 80 | 19.75 | 18 | 16 | 1.5 | 1.5 | 1.5 | 1.5 | 70 | 73 | 4800 | 6300 | |
| | 90 | 25.25 | 23 | 17 | 2 | 2 | 1.5 | 1.5 | 71.5 | 77 | 4000 | 5300 | |
| | 80 | 24.75 | 23 | 19 | 1.5 | 1.5 | 1.5 | 1.5 | 83.5 | 93 | 4800 | 6300 | |
| | 80 | 24.75 | 23 | 19 | 3 | 3 | 1.5 | 1.5 | 83.5 | 94 | 4800 | 6300 | |
| | 90 | 35.25 | 33 | 27 | 2 | 2 | 1.5 | 1.5 | 117 | 140 | 4000 | 5300 | |
| | 90 | 35.25 | 33 | 27 | 2 | 2 | 1.5 | 1.5 | 114 | 148 | 4000 | 5300 | |
| | 90 | 35.25 | 33 | 27 | 1.8 | 1.8 | 1.8 | 1.8 | 102 | 119 | 4000 | 5300 | |
| | 42 | 76 | 24 | 27.5 | 19.8 | 2 | 2 | 0.6 | 0.6 | 77.5 | 104 | 5000 | 6300 |
| | | 76 | 23.8 | 27.5 | 19.8 | 0.7 | 0.7 | 0.1 | 0.1 | 77.5 | 104 | 5000 | 6300 |
| 45 | 75 | 20 | 20 | 15.5 | 1 | 1 | 1 | 1 | 66.4 | 80 | 4800 | 6300 | |
| | 75 | 20 | 20 | 15.5 | 1 | 1 | 1 | 1 | 66.4 | 80 | 4800 | 6300 | |
| | 75 | 20 | 20 | 15.5 | 1 | 1 | 1 | 1 | 66.4 | 80 | 4800 | 6300 | |
| | 75 | 24 | 24 | 19 | 1 | 1 | 1 | 1 | 75.4 | 104 | 4800 | 6300 | |
| | 80 | 26 | 26 | 20.5 | 1.5 | 1.5 | 1.5 | 1.5 | 95.3 | 118 | 4500 | 6000 | |
| 85 | 20.75 | 19 | 16 | 1.5 | 1.5 | 1.5 | 1.5 | 80.3 | 83 | 4500 | 6000 | | |
| 85 | 24.75 | 23 | 19 | 1.5 | 1.5 | 1.5 | 1.5 | 90.3 | 105 | 4500 | 6000 | | |
| 85 | 24.75 | 23.5 | 20 | 1.5 | 1.5 | 1.5 | 1.5 | 90.3 | 105 | 4500 | 6000 | | |
| 100 | 27.25 | 25 | 22 | 2 | 2 | 1.5 | 1.5 | 123 | 120 | 4000 | 5300 | | |
| 100 | 32 | 29 | 20.5 | 2 | 2 | 1.5 | 1.5 | 99 | 107 | 4000 | 5300 | | |
| 100 | 27.25 | 25 | 18 | 2 | 2 | 1.5 | 1.5 | 105 | 102 | 3600 | 4800 | | |
| 100 | 32 | 29 | 20.5 | 2 | 2 | 1.5 | 1.5 | 148 | 163 | 3400 | 4500 | | |
| 100 | 38.25 | 36 | 30 | 2 | 2 | 1.5 | 1.5 | 153 | 174 | 3600 | 4800 | | |
| 100 | 31.8 | 29 | 20.5 | 2 | 2 | 1.5 | 1.5 | 98 | 108 | 3600 | 4800 | | |
| 47 | 100 | 42.5 | 43 | 37 | 1.8 | 1.8 | 1.8 | 1.8 | 137 | 190 | 4000 | 5100 | |
| 50 | 80 | 20 | 20 | 15.5 | 1 | 1 | 1 | 1 | 67.8 | 88 | 4500 | 6000 | |
| | 80 | 20 | 20 | 15.5 | 1 | 1 | 1 | 1 | 67.8 | 88 | 4500 | 6000 | |
| | 80 | 22 | 20 | 17.5 | 4 | 4 | 1.5 | 1.5 | 60 | 86 | 4500 | 6000 | |
| | 80 | 24 | 24 | 19 | 1 | 1 | 1 | 1 | 77 | 111 | 4500 | 6000 | |

| Designations | Abutment and fillet dimensions | | | | | | | Calculation coefficient | | | | Weight kg |
|------------------------|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|------|------|----|--------------|
| | da _{max} | db _{min} | Da _{min} | Da _{max} | Db _{min} | Ca _{min} | Cb _{min} | e | Y | Y0 | a | |
| mm | | | | | | | | | | | | |
| 33208X2A | 49 | 49 | 65 | 72 | 77 | 3 | 7 | 0.43 | 1.4 | 0.77 | 21 | 0.669 |
| 30208 | 49 | 47 | 69 | 73 | 75 | 3 | 3.8 | 0.37 | 1.6 | 0.88 | 17 | 0.43 |
| 31308 | 48 | 49 | 71 | 81 | 87 | 4 | 9.5 | 0.83 | 0.7 | 0.4 | 29 | 0.731 |
| 32208 | 48 | 47 | 68 | 73 | 76 | 3 | 5.8 | 0.37 | 1.6 | 0.88 | 18 | 0.561 |
| 32208/YA6 | 48 | 47 | 68 | 73 | 76 | 3 | 5.8 | | | | | 0.561 |
| 32308 | 49 | 49 | 73 | 81 | 83 | 4 | 8.5 | 0.35 | 1.7 | 0.96 | 22 | 1.080 |
| 32308B | 50 | 49 | 67 | 83 | 85 | 3 | 8.3 | 0.55 | 1.1 | 0.6 | 27 | 1.06 |
| 32308/YA8 | 49 | 49 | 73 | 81 | 83 | 4 | 8.5 | 0.35 | 1.7 | 0.96 | 22 | 1.020 |
| 306/42 | 48 | 48 | 65 | 73 | 73 | 2 | 4 | 0.28 | 2.16 | 1.19 | 16 | 0.479 |
| 306/42/P6XYB2 | 48 | 48 | 65 | 73 | 73 | 2 | 4 | 0.28 | 2.16 | 1.19 | 16 | 0.479 |
| 32009 | 52 | 49 | 65 | 71 | 73 | 3 | 6 | 0.39 | 1.5 | 0.84 | 17 | 0.343 |
| 32009/HA | 52 | 49 | 65 | 71 | 73 | 3 | 6 | 0.39 | 1.5 | 0.84 | 17 | 0.343 |
| 32009/P6X | 52 | 49 | 65 | 71 | 73 | 3 | 6 | 0.39 | 1.5 | 0.84 | 17 | 0.343 |
| 33009 | 50 | 48 | 66 | 72 | 72 | 3 | 5 | 0.29 | 2.04 | 1.12 | 16 | 0.414 |
| 33109R | 52 | 52 | 69 | 73 | 77 | 4 | 5.5 | 0.37 | 1.6 | 0.9 | 19 | 0.538 |
| 30209 | 53 | 52 | 74 | 78 | 80 | 3 | 5 | 0.4 | 1.5 | 0.81 | 18 | 0.464 |
| 32209 | 53 | 52 | 73 | 78 | 81 | 3 | 5.8 | 0.4 | 1.5 | 0.81 | 20 | 0.576 |
| 32209X2A | 53 | 53 | 69 | 78 | 78 | 3 | 4.8 | 0.4 | 1.5 | 0.83 | 19 | 0.621 |
| 30309 | 59 | 54 | 86 | 91 | 94 | 4 | 8.5 | 0.35 | 1.7 | 0.96 | 21 | 0.987 |
| 30309X2B | 56 | 54 | 77 | 93 | 95 | 4 | 12 | 0.72 | 0.8 | 0.46 | 30 | 1.08 |
| 31309 | 54 | 54 | 79 | 91 | 96 | 4 | 9.5 | 0.83 | 0.7 | 0.4 | 32 | 0.977 |
| 31309X2 | 55 | 54 | 75 | 93 | 95 | 3 | 12 | 0.81 | 0.7 | 0.41 | 33 | 1.16 |
| 32309 | 56 | 54 | 82 | 91 | 93 | 4 | 8.5 | 0.35 | 1.7 | 0.96 | 25 | 1.44 |
| 32309X2A | 56 | 54 | 77 | 93 | 95 | 4 | 11 | 0.72 | 0.8 | 0.46 | 30 | 1.14 |
| 306/47 | 55 | 54 | 80 | 93 | 94 | 3 | 5.5 | 0.31 | 1.94 | 1.07 | 27 | 1.66 |
| 32010 | 57 | 54 | 70 | 76 | 78 | 4 | 4.5 | 0.42 | 1.4 | 0.78 | 18 | 0.381 |
| 32010-AAM/P6 | 57 | 54 | 70 | 76 | 78 | 4 | 4.5 | 0.42 | 1.4 | 0.78 | 18 | 0.386 |
| 32010X2A/HAP5-1 | 57 | 64 | 70 | 73 | 78 | 4 | 4.5 | 0.42 | 1.4 | 0.78 | 19 | 0.388 |
| 33010 | 55 | 58 | 70 | 77 | 76 | 4 | 4.5 | 0.32 | 1.9 | 1.04 | 17 | 0.442 |

Single-row Tapered Roller Bearing(Metric)

d 50-55 mm

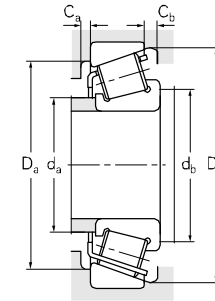
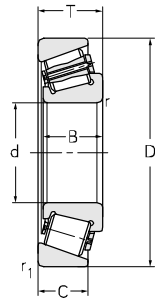
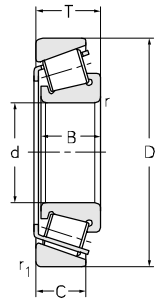


| Principal dimensions | | | | | Basic load ratings | | | | Limit speed ratings | | | |
|----------------------|-----|-------|------|------|---------------------|--------------------|----------------------|---------------------|---------------------|-----------------|--------|------|
| d | D | T | B | C | r _{radial} | r _{axial} | r _{1radial} | r _{1axial} | C _R | C _{OR} | Grease | Oil |
| | | | | | | | | | | | r/min | |
| 50 | 82 | 21.5 | 21.5 | 17 | 3 | 3 | 0.5 | 0.5 | 81.6 | 100 | 3200 | 4300 |
| | 83 | 20.5 | 20.5 | 15.5 | 4 | 4 | 1 | 1 | 66 | 91 | 4500 | 6000 |
| | 83 | 20.5 | 20.5 | 15.5 | 4 | 4 | 1 | 1 | 66 | 91 | 4500 | 6000 |
| | 85 | 26 | 26 | 20 | 1.5 | 1.5 | 1.5 | 1.5 | 98.7 | 122 | 4400 | 5500 |
| | 90 | 32 | 32 | 24.5 | 1.5 | 1.5 | 1.5 | 1.5 | 119 | 160 | 3800 | 5000 |
| | 90 | 21.75 | 20 | 17 | 1.5 | 1.5 | 1.5 | 1.5 | 84.9 | 91.5 | 4300 | 5600 |
| | 90 | 23.75 | 20 | 19 | 1.5 | 1.5 | 1.5 | 1.5 | 79.5 | 96.5 | 4200 | 5500 |
| | 90 | 24.75 | 23 | 19 | 1.5 | 1.5 | 1.5 | 1.5 | 94 | 100 | 4300 | 5600 |
| | 90 | 25 | 23 | 19 | 1.3 | 1.3 | 1.3 | 1.3 | 62 | 77 | 4300 | 5600 |
| | 110 | 29.25 | 27 | 23 | 2.5 | 2.5 | 2 | 2 | 141 | 140 | 3600 | 4800 |
| | 110 | 29.25 | 27 | 23 | 2.5 | 2.5 | 2.5 | 2.5 | 141 | 140 | 3600 | 4800 |
| | 110 | 29.25 | 27 | 19 | 2.5 | 2.5 | 2 | 2 | 110 | 124 | 3200 | 4300 |
| | 110 | 42.25 | 40 | 33 | 2.5 | 2.5 | 2 | 2 | 173 | 214 | 3600 | 4800 |
| | 110 | 42.25 | 40 | 33 | 2.3 | 2.3 | 2.3 | 2.3 | 173 | 214 | 3600 | 4800 |
| 50.8 | 100 | 35 | 35 | 29 | 2 | 2 | 2 | 2 | 119 | 171 | 3900 | 4900 |
| 55 | 90 | 27 | 27 | 21 | 1.5 | 1.5 | 1.5 | 1.5 | 108 | 147 | 4000 | 5300 |
| | 90 | 23 | 23 | 17.5 | 1.5 | 1.5 | 1.5 | 1.5 | 92.4 | 116 | 4000 | 5300 |
| | 95 | 30 | 30 | 23 | 2 | 2.5 | 2 | 2.5 | 110 | 163 | 4000 | 5300 |
| | 95 | 30 | 30 | 23 | 1.5 | 1.5 | 1.5 | 1.5 | 100 | 163 | 3800 | 5000 |
| | 100 | 26.75 | 25 | 21 | 2 | 2 | 1.5 | 1.5 | 108 | 133 | 3800 | 5000 |
| | 100 | 26.75 | 25 | 21 | 2 | 2 | 1.5 | 1.5 | 98 | 133 | 3800 | 5000 |
| | 100 | 35 | 35 | 27 | 2 | 2 | 1.5 | 1.5 | 136 | 190 | 3400 | 4500 |
| | 100 | 35 | 35 | 27 | 2 | 2 | 1.5 | 1.5 | 136 | 190 | 3400 | 4500 |
| | 100 | 32 | 31 | 24.5 | 2 | 2 | 2 | 2 | 142 | 174 | 3400 | 4500 |
| | 100 | 22.75 | 21 | 18 | 2 | 2 | 1.5 | 1.5 | 102.8 | 106 | 3800 | 5000 |
| | 100 | 22.75 | 21 | 18 | 2 | 2 | 1.5 | 1.5 | 102.8 | 106 | 4000 | 5300 |
| | 100 | 26.75 | 25 | 21 | 6 | 6 | 1.5 | 1.5 | 108 | 133 | 3800 | 5000 |
| | 120 | 31.5 | 29 | 25 | 2.5 | 2.5 | 2 | 2 | 165 | 163 | 3200 | 4300 |
| | 120 | 31.5 | 29 | 25 | 2.5 | 2.5 | 2 | 2 | 165 | 163 | 3200 | 4300 |

| Designations | Abutment and fillet dimensions | | | | | | Calculation coefficient | | | | Weight kg | |
|----------------------|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|------|------|------|--------------|-------|
| | da _{max} | db _{min} | Da _{min} | Da _{max} | Db _{min} | Ca _{min} | Cb _{min} | e | Y | Y0 | | a |
| mm | | | | | | | | | | | | |
| 30610 | 57 | 62 | 72 | 82 | 79 | 3 | 4.5 | 0.31 | 2 | 1.08 | 16 | 0.331 |
| 32010X3A/HAP5 | 57 | 64 | 73 | 79 | 80 | 4 | 5 | 0.36 | 1.7 | 0.92 | 17 | 0.430 |
| 32010X3A-SG | 57 | 64 | 73 | 79 | 80 | 4 | 5 | 0.36 | 1.7 | 0.92 | 17 | 0.43 |
| 33110 | 56 | 55 | 72 | 80 | 82 | 4 | 6 | 0.41 | 1.46 | 0.8 | 20 | 0.581 |
| 33210 | 57 | 58 | 75 | 83 | 88 | 3 | 7.5 | 0.41 | 1.5 | 0.8 | 23 | 1.17 |
| 30210 | 58 | 57 | 79 | 83 | 86 | 3 | 5 | 0.42 | 1.4 | 0.79 | 20 | 0.55 |
| 30210X2-HQ | 57 | 57 | 78 | 83 | 86 | 3 | 5.8 | 0.42 | 1.4 | 0.79 | 21 | 0.576 |
| 32210 | 58 | 57 | 78 | 83 | 85 | 3 | 5.5 | 0.43 | 1.4 | 0.8 | 21 | 0.640 |
| 32210A | 60 | 59 | 76 | 90 | 86 | 3 | 6 | 0.42 | 1.4 | 0.78 | 21 | 0.612 |
| 30310-1 | 65 | 60 | 95 | 100 | 103 | 4 | 6 | 0.35 | 1.74 | 0.96 | 23 | 1.26 |
| 30310 | 65 | 60 | 95 | 100 | 103 | 4 | 6 | 0.35 | 1.7 | 0.96 | 23 | 1.26 |
| 31310 | 63 | 10 | 86 | 102 | 104 | 3 | 10 | 0.83 | 0.7 | 0.4 | 35 | 1.25 |
| 32310 | 61 | 60 | 90 | 100 | 102 | 5 | 9.5 | 0.35 | 1.7 | 0.96 | 27 | 1.26 |
| 32310/YA6 | 64 | 51 | 89 | 110 | 103 | 4 | 9.3 | 0.35 | 1.7 | 0.96 | 27 | 1.97 |
| 306/50.8 | 61 | 57 | 84 | 94 | 95 | 4 | 6 | 0.3 | 2 | 1.1 | 23 | 1.27 |
| 33011 | 62 | 65 | 78 | 83 | 87 | 4.5 | 5.5 | 0.31 | 1.92 | 1.06 | 19 | 0.839 |
| 32011 | 64 | 63 | 79 | 83 | 88 | 4.5 | 5.5 | 0.41 | 1.5 | 0.81 | 20 | 0.564 |
| 33111 | 64 | 63 | 81 | 88 | 92 | 3 | 7 | 0.37 | 1.6 | 0.88 | 22 | 0.881 |
| 33111/HA | 64 | 63 | 81 | 88 | 92 | 3 | 7 | 0.37 | 1.6 | 0.88 | 22 | 0.881 |
| 32211 | 62 | 64 | 87 | 91 | 95 | 4 | 5.7 | 0.4 | 1.5 | 0.81 | 22 | 0.878 |
| 32211/HAP6X | 62 | 64 | 87 | 91 | 95 | 4 | 5.7 | 0.4 | 1.5 | 0.81 | 22 | 0.878 |
| 33211 | 63 | 64 | 85 | 93 | 96 | 6 | 8 | 0.4 | 1.5 | 0.8 | 25 | 1.17 |
| 33211/HAP6X | 63 | 64 | 85 | 93 | 96 | 6 | 8 | 0.4 | 1.5 | 0.8 | 25 | 1.17 |
| 33211X2A | 64 | 64 | 85 | 92 | 97 | 4.5 | 7.5 | 0.4 | 1.5 | 0.81 | 24 | 1.01 |
| 30211 | 64 | 64 | 88 | 91 | 95 | 4 | 5 | 0.4 | 1.5 | 0.81 | 21 | 0.713 |
| 30211/YA | 65 | 64 | 87 | 93 | 95 | 3 | 4.8 | 0.4 | 1.5 | 0.81 | 21 | 0.689 |
| 32211/YA6 | 65 | 74 | 85 | 93 | 95 | 3 | 5.8 | 0.4 | 1.5 | 0.81 | 22 | 0.875 |
| 30311 | 70 | 65 | 104 | 110 | 112 | 4 | 6.5 | 0.35 | 1.7 | 0.96 | 25 | 1.65 |
| 30311R | 70 | 65 | 104 | 110 | 112 | 4 | 6.5 | 0.35 | 1.7 | 0.96 | 25 | 1.71 |

Single-row Tapered Roller Bearing(Metric)

d 55-65 mm

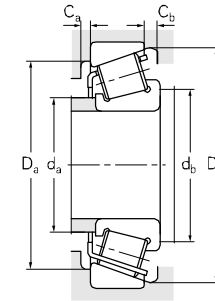
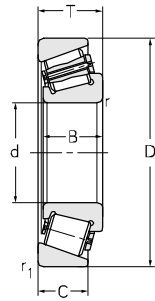
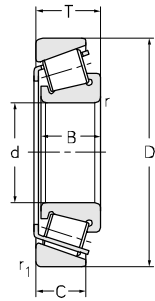


| Principal dimensions | | | | | Basic load ratings | | | | Limit speed ratings | | | | |
|----------------------|-----------|-------|----|------|---------------------|--------------------|----------------------|---------------------|---------------------|-----------------|--------|------|------|
| d | D | T | B | C | r _{radial} | r _{axial} | r _{1radial} | r _{1axial} | C _R | C _{OR} | Grease | Oil | |
| | | | | | | | | | | | r/min | | |
| 55 | 120 | 31.5 | 29 | 21 | 2.5 | 2.5 | 2 | 2 | 155 | 166 | 2800 | 3800 | |
| | 120 | 31.5 | 29 | 21 | 2.5 | 2.5 | 2 | 2 | 141 | 166 | 2800 | 3800 | |
| | 120 | 31.5 | 29 | 21 | 2.5 | 2.5 | 2 | 2 | 135 | 139 | 2800 | 3800 | |
| | 120 | 31.5 | 29 | 21 | 2.5 | 2.5 | 2 | 2 | 138 | 162 | 2800 | 3800 | |
| | 120 | 45.5 | 43 | 35 | 2.5 | 2.5 | 2 | 2 | 248 | 280 | 3000 | 4000 | |
| | 120 | 45.5 | 43 | 35 | 2.5 | 2.5 | 2 | 2 | 240 | 283 | 3000 | 4000 | |
| | 120 | 45.5 | 44 | 35 | 2.5 | 2.5 | 2 | 2 | 252 | 286 | 3000 | 4000 | |
| | 120 | 45.5 | 43 | 35 | 7 | 7 | 2 | 2 | 248 | 280 | 3000 | 4000 | |
| | 120 | 31.5 | 29 | 25 | 2.5 | 2.5 | 2 | 2 | 165 | 163 | 3200 | 4300 | |
| | 125 | 37 | 36 | 25 | 3 | 3 | 2 | 2 | 148 | 172 | 2800 | 3800 | |
| | 130 | 36.25 | 33 | 22 | 3 | 3 | 2 | 2 | 165 | 175 | 3200 | 4000 | |
| | 60 | 85 | 17 | 17 | 14 | 1 | 1 | 1 | 1 | 40 | 65 | 3900 | 5100 |
| | | 85 | 17 | 17 | 14 | 1 | 1 | 1 | 1 | 40 | 65 | 3900 | 5100 |
| 85 | | 17 | 16 | 14 | 1 | 1 | 1 | 1 | 42.5 | 67.5 | 3900 | 5100 | |
| 95 | | 27 | 27 | 21 | 1.5 | 1.5 | 1.5 | 1.5 | 104 | 143 | 3800 | 5000 | |
| 95 | | 23 | 23 | 17.5 | 2 | 2.5 | 2 | 2.5 | 93.5 | 122 | 3800 | 5000 | |
| 95 | | 27 | 27 | 21 | 1.5 | 1.5 | 1.5 | 1.5 | 104 | 143 | 3800 | 5000 | |
| 110 | | 23.75 | 22 | 19 | 2 | 2 | 1.5 | 1.5 | 111 | 114 | 3400 | 4500 | |
| 110 | | 29.75 | 28 | 24 | 2 | 2 | 1.5 | 1.5 | 133 | 170 | 3400 | 4500 | |
| 110 | | 29.75 | 28 | 24 | 2 | 2 | 1.5 | 1.5 | 133 | 170 | 3400 | 4500 | |
| 110 | | 29.75 | 28 | 24 | 2.5 | 2.5 | 2.5 | 2.5 | 133 | 170 | 3400 | 4500 | |
| 110 | | 38 | 38 | 29 | 2 | 2 | 1.5 | 1.5 | 168 | 235 | 3000 | 4000 | |
| 115 | | 40 | 39 | 33 | 4 | 4 | 3 | 3 | 193 | 204 | 3200 | 4300 | |
| 130 | | 33.5 | 31 | 26 | 3 | 3 | 2.5 | 2.5 | 163 | 185 | 3000 | 4000 | |
| 130 | 48.5 | 46 | 37 | 3 | 3 | 2.5 | 2.5 | 229 | 289 | 2600 | 3600 | | |
| 130 | 33.5 | 31 | 22 | 3 | 3 | 2.5 | 2.5 | 138 | 155 | 2600 | 3600 | | |
| 140 | 42 | 41 | 28 | 3 | 3 | 2.5 | 2.5 | 187 | 225 | 2600 | 3600 | | |
| 150 | 51 | 51 | 38 | 4 | 4 | 3 | 3 | 260 | 370 | 2800 | 3500 | | |
| 65 | 100 | 23 | 23 | 17.5 | 1.5 | 1.5 | 1.5 | 1.5 | 94.8 | 127 | 3400 | 4500 | |
| | 100 | 23 | 23 | 17.5 | 1.5 | 1.5 | 1.5 | 1.5 | 94.8 | 127 | 3400 | 4500 | |

| Designations | Abutment and fillet dimensions | | | | | | | Calculation coefficient | | | | Weight kg | |
|---------------------|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|------|------|------|--------------|-------|
| | da _{max} | db _{min} | Da _{min} | Da _{max} | Db _{min} | Ca _{min} | Cb _{min} | e | Y | Y0 | a | | |
| mm | | | | | | | | | | | | | |
| 31311 | 68 | 65 | 92 | 112 | 112 | 3 | 11 | 0.83 | 0.7 | 0.4 | 38 | 1.78 | |
| | 31311-SG | 65 | 92 | 112 | 112 | 3 | 11 | 0.83 | 0.7 | 0.4 | 38 | 1.78 | |
| | 31311/YA8 | 68 | 65 | 92 | 112 | 112 | 3 | 11 | 0.83 | 0.7 | 0.4 | 38 | 1.71 |
| | 31311/YB4 | 68 | 65 | 92 | 112 | 112 | 3 | 11 | 0.83 | 0.7 | 0.4 | 38 | 1.71 |
| 32311 | 68 | 65 | 99 | 110 | 111 | 5 | 11 | 0.35 | 1.7 | 0.96 | 29 | 2.43 | |
| | 32311A | 66 | 65 | 99 | 110 | 111 | 5 | 11 | 0.55 | 1.1 | 0.6 | 230 | 2.51 |
| | 32311X2A1 | 66 | 65 | 99 | 112 | 111 | 5 | 10.5 | 0.35 | 1.7 | 0.9 | 29 | 2.43 |
| | 32311/YA6 | 68 | 65 | 99 | 110 | 111 | 5 | 11 | 0.35 | 1.7 | 0.96 | 29 | 2.43 |
| | 30311X3R | 66 | 65 | 104 | 110 | 112 | 4 | 6.5 | 0.35 | 1.7 | 0.96 | 25 | 1.84 |
| | 30611B | 70 | 67 | 95 | 117 | 117 | 3 | 12 | 0.73 | 0.8 | 0.45 | 38 | 2.1 |
| | 30611 | 69 | 67 | 95 | 117 | 117 | 3 | 12 | 0.83 | 0.73 | 0.4 | 41 | 2.16 |
| | 32912 | 65 | 68 | 76 | 81 | 79 | 4 | 3 | 0.38 | 1.6 | 0.87 | 17 | 0.284 |
| 32912/P6-GKN | 65 | 68 | 76 | 81 | 79 | 4 | 3 | 0.38 | 1.6 | 0.87 | 17 | 0.285 | |
| | 32912X2A | 65 | 68 | 76 | 81 | 79 | 4 | 3 | 0.38 | 1.6 | 0.87 | 17 | 0.277 |
| 33012 | 67 | 67 | 85 | 88 | 90 | 5 | 6 | 0.33 | 1.8 | 1 | 20 | 0.688 | |
| 32012 | 68 | 68 | 83 | 88 | 92 | 5 | 5.5 | 0.4 | 1.4 | 0.77 | 21 | 0.597 | |
| | 33012-RS | 67 | 67 | 85 | 88 | 90 | 5 | 6 | 0.33 | 1.8 | 1 | 20 | 0.727 |
| 30212 | 69 | 69 | 96 | 101 | 103 | 4 | 5 | 0.4 | 1.5 | 0.81 | 23 | 0.923 | |
| | 32212 | 69 | 68 | 95 | 101 | 104 | 4 | 5.8 | 0.4 | 1.5 | 0.81 | 25 | 1.26 |
| | 32212/HAP6X | 69 | 68 | 95 | 101 | 104 | 4 | 5.8 | 0.4 | 1.5 | 0.81 | 25 | 1.26 |
| | 32212X3R/YA6 | 69 | 68 | 95 | 101 | 104 | 4 | 5.8 | 0.4 | 1.48 | 0.81 | 25 | 1.33 |
| | 33212 | 69 | 68 | 93 | 103 | 105 | 6 | 9 | 0.4 | 1.5 | 0.8 | 27 | 1.51 |
| 33212X3 | 70 | 71 | 98 | 104 | 109 | 6 | 7 | 0.33 | 1.8 | 1 | 28 | 1.81 | |
| | 30312 | 76 | 72 | 112 | 118 | 121 | 3.5 | 7.5 | 0.35 | 1.7 | 0.96 | 26 | 1.96 |
| | 32312 | 72 | 72 | 107 | 118 | 122 | 6 | 12 | 0.35 | 1.7 | 0.96 | 31 | 2.90 |
| | 31312 | 69 | 72 | 103 | 118 | 124 | 5 | 12 | 0.83 | 0.7 | 0.4 | 41 | 1.92 |
| | 31312X3 | 78 | 72 | 106 | 131 | 130 | 5 | 14 | 0.73 | 0.8 | 0.45 | 42 | 3.42 |
| | 30612 | 77 | 71 | 105 | 140 | 142 | 5 | 13 | 0.76 | 0.79 | 0.43 | 49 | 4.76 |
| 32013 | 72 | 72 | 90 | 93 | 97 | 4 | 5.5 | 0.46 | 1.3 | 0.7 | 22 | 0.612 | |
| | 32013/P6X | 72 | 72 | 90 | 93 | 97 | 4 | 5.5 | 0.46 | 1.3 | 0.7 | 22 | 0.612 |

Single-row Tapered Roller Bearing(Metric)

d 65 mm

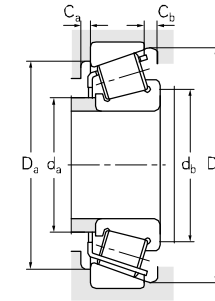
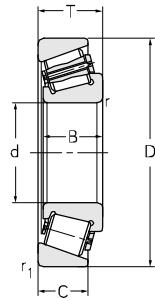
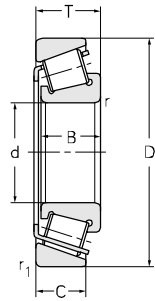


| Principal dimensions | | | | | Basic load ratings | | | | Limit speed ratings | | | |
|----------------------|-----|-------|----|------|---------------------|--------------------|----------------------|---------------------|---------------------|-----------------|--------|------|
| d | D | T | B | C | r _{radial} | r _{axial} | r _{1radial} | r _{1axial} | C _R | C _{OR} | Grease | Oil |
| | | | | | | | | | | | r/min | |
| 65 | 100 | 23.3 | 22 | 19 | 1.5 | 1.5 | 1.5 | 1.5 | 81 | 116 | 3400 | 4500 |
| | 100 | 23.3 | 22 | 19 | 1.5 | 1.5 | 1.5 | 1.5 | 73.5 | 116 | 3400 | 4500 |
| | 100 | 27 | 27 | 21 | 1.5 | 1.5 | 1.5 | 1.5 | 108 | 158 | 3400 | 4500 |
| | 110 | 34 | 34 | 26.5 | 1.5 | 1.5 | 1.5 | 1.5 | 157 | 220 | 3200 | 4300 |
| | 110 | 30.5 | 30 | 24 | 3 | 4 | 1.8 | 1.8 | 79 | 166 | 3200 | 4300 |
| | 110 | 34 | 34 | 26.5 | 1.5 | 1.5 | 1.5 | 1.5 | 157 | 220 | 3200 | 4300 |
| | 120 | 41 | 41 | 32 | 2 | 2 | 1.5 | 1.5 | 222 | 282 | 2800 | 3800 |
| | 120 | 41 | 41 | 32 | 2 | 2 | 1.5 | 1.5 | 191 | 270 | 2800 | 3800 |
| | 120 | 41 | 41 | 32 | 2 | 2 | 1.5 | 1.5 | 191 | 270 | 2800 | 3800 |
| | 120 | 32.75 | 31 | 27 | 2 | 2 | 1.5 | 1.5 | 151 | 192 | 3000 | 4000 |
| | 120 | 33 | 31 | 27 | 1.8 | 1.8 | 1.8 | 1.8 | 130 | 163 | 3000 | 4000 |
| | 120 | 24.75 | 23 | 20 | 2 | 2 | 1.5 | 1.5 | 131 | 134 | 3000 | 4000 |
| 130 | 45 | 43 | 35 | 7 | 7 | 2 | 2 | 223 | 298 | 2800 | 3800 | |
| 130 | 51 | 48 | 39 | 2.5 | 2.5 | 2.5 | 2.5 | 235 | 320 | 2400 | 3400 | |
| 130 | 51 | 48 | 39 | 3 | 3 | 2.5 | 2.5 | 245 | 335 | 2400 | 3400 | |
| 140 | 51 | 48 | 39 | 6 | 6 | 3.5 | 3.5 | 264 | 335 | 2200 | 3200 | |
| 140 | 36 | 33 | 28 | 3 | 3 | 2.5 | 2.5 | 192 | 228 | 2600 | 3600 | |
| 140 | 40 | 37 | 30 | 3 | 3 | 2.5 | 2.5 | 192 | 255 | 2600 | 3600 | |
| 140 | 40 | 39 | 26 | 3 | 3 | 5 | 5 | 202 | 237 | 2600 | 3600 | |
| 140 | 36 | 33 | 28 | 3 | 3 | 6 | 6 | 192 | 228 | 2600 | 3600 | |
| 140 | 36 | 33 | 28 | 6 | 6 | 2.5 | 2.5 | 192 | 228 | 2600 | 3600 | |
| 140 | 36 | 33 | 28 | 6 | 6 | 2.5 | 2.5 | 192 | 228 | 2600 | 3600 | |
| 140 | 36 | 33 | 23 | 3 | 3 | 2.5 | 2.5 | 171 | 198 | 2800 | 3800 | |
| 140 | 36 | 33 | 23 | 3 | 3 | 2.5 | 2.5 | 190 | 193 | 2600 | 3600 | |
| 140 | 36 | 33 | 23 | 3.8 | 5 | 2.5 | 2.5 | 191 | 194 | 2800 | 3800 | |
| 140 | 36 | 33 | 23 | 3 | 3 | 2.5 | 2.5 | 192 | 195 | 2200 | 3200 | |
| 140 | 51 | 48 | 39 | 3 | 3 | 2.5 | 2.5 | 264 | 335 | 2400 | 3400 | |
| 140 | 51 | 48 | 39 | 3 | 3 | 2.5 | 2.5 | 253 | 350 | 2400 | 3400 | |
| 140 | 36 | 33 | 23 | 3 | 3 | 2.5 | 2.5 | 193 | 196 | 2200 | 3200 | |

| Designations | Abutment and fillet dimensions | | | | | | Calculation coefficient | | | | Weight kg | |
|---------------------|--------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------------|------|------|------|--------------|-------|
| | d _a max | d _b min | D _a min | D _a max | D _b min | C _a min | C _b min | e | Y | Y0 | | a |
| mm | | | | | | | | | | | | |
| 32013X2 | 72 | 72 | 90 | 93 | 97 | 4 | 5.5 | 0.35 | 1.7 | 0.94 | 20 | 0.629 |
| 32013X2A | 72 | 72 | 90 | 93 | 97 | 4 | 5.5 | 0.35 | 1.7 | 0.94 | 20 | 0.629 |
| 33013 | 72 | 73 | 87 | 93 | 97 | 3.5 | 6 | 0.3 | 1.7 | 0.95 | 21 | 0.732 |
| 33113 | 76 | 73 | 94 | 103 | 107 | 3.5 | 7.5 | 0.39 | 1.6 | 0.85 | 26 | 1.30 |
| 33113X2 | 75 | 77 | 93 | 110 | 105 | 3.5 | 6.2 | 0.39 | 1.6 | 0.85 | 25 | 1.17 |
| 33113/YB2 | 76 | 73 | 94 | 103 | 107 | 3.5 | 7.5 | 0.39 | 1.6 | 0.85 | 26 | 1.30 |
| 33213 | 75 | 74 | 102 | 113 | 115 | 6 | 9 | 0.4 | 1.5 | 0.8 | 29 | 2.00 |
| 33213/HA | 75 | 74 | 102 | 113 | 115 | 6 | 9 | 0.4 | 1.5 | 0.8 | 29 | 2.00 |
| 33213/YB2 | 75 | 74 | 102 | 113 | 115 | 6 | 9 | 0.4 | 1.5 | 0.8 | 29 | 2.00 |
| 32213 | 75 | 74 | 104 | 111 | 115 | 4 | 5.8 | 0.4 | 1.5 | 0.81 | 28 | 1.58 |
| 32213A/YA6 | 75 | 74 | 104 | 111 | 115 | 3.5 | 6 | 0.37 | 1.6 | 0.89 | 26 | 1.50 |
| 30213 | 77 | 74 | 106 | 111 | 114 | 4 | 5 | 0.4 | 1.5 | 0.81 | 24 | 1.14 |
| 30613 | 80 | 66 | 108 | 122 | 122 | 3.5 | 10 | 0.33 | 1.8 | 0.99 | 30 | 2.64 |
| 32313X1 | 79 | 75 | 107 | 121 | 122 | 5 | 12 | 0.33 | 1.8 | 0.99 | 32 | 3.01 |
| 32313X1A | 80 | 77 | 107 | 121 | 124 | 5 | 12 | 0.35 | 1.7 | 0.93 | 33 | 2.93 |
| 32313/YA6 | 80 | 77 | 107 | 121 | 124 | 5 | 12 | 0.35 | 1.7 | 0.96 | 33 | 3.68 |
| 30313 | 83 | 72 | 120 | 131 | 131 | 3.5 | 8 | 0.35 | 1.7 | 0.96 | 28 | 2.49 |
| 30313X2A | 83 | 72 | 120 | 131 | 131 | 3.5 | 8 | 0.47 | 1.28 | 0.7 | 34 | 2.84 |
| 30313X2/YA6 | 80 | 77 | 109 | 132 | 133 | 3.5 | 14 | 0.73 | 0.8 | 0.45 | 42 | 2.65 |
| 30313/YA6-1 | 86 | 77 | 120 | 122 | 131 | 5 | 8 | 0.35 | 1.7 | 0.96 | 28 | 2.49 |
| 30313/YA6 | 86 | 84 | 120 | 131 | 131 | 5 | 8 | 0.35 | 1.7 | 0.96 | 28 | 2.49 |
| 30313/YA6-2 | 86 | 84 | 120 | 131 | 131 | 5 | 8 | 0.35 | 1.7 | 0.96 | 28 | 2.49 |
| 31313 | 75 | 77 | 111 | 128 | 134 | 5 | 13 | 0.83 | 0.7 | 0.4 | 44 | 2.46 |
| 31313/YA5 | 84 | 77 | 122 | 128 | 130 | 5 | 8 | 0.35 | 1.7 | 0.9 | 28 | 2.45 |
| 31313/YA6 | 75 | 77 | 111 | 128 | 134 | 5 | 13 | 0.83 | 0.7 | 0.4 | 44 | 2.45 |
| 31313/YB4 | 80 | 77 | 111 | 128 | 132 | 5 | 13 | 0.83 | 0.72 | 0.4 | 42 | 2.46 |
| 32313 | 79 | 77 | 117 | 128 | 131 | 6 | 12 | 0.35 | 1.7 | 0.96 | 33 | 3.68 |
| 32313A | 80 | 77 | 117 | 128 | 130 | 6 | 12 | 0.35 | 1.7 | 0.9 | 33 | 3.72 |
| 31313-ZQ/P6X | 80 | 77 | 111 | 128 | 132 | 5 | 13 | 0.83 | 0.72 | 0.4 | 44 | 2.38 |

Single-row Tapered Roller Bearing(Metric)

d 65-70 mm

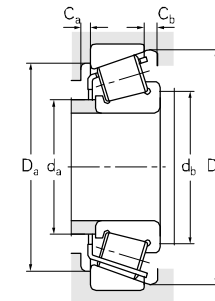
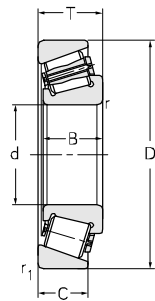
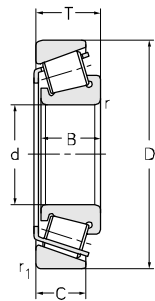


| Principal dimensions | | | | | Basic load ratings | | | | Limit speed ratings | | | |
|----------------------|-------|------|------|------|---------------------|--------------------|----------------------|---------------------|---------------------|-----------------|--------|------|
| d | D | T | B | C | r _{radial} | r _{axial} | r _{1radial} | r _{1axial} | C _r | C _{Or} | Grease | Oil |
| | | | | | | | | | | r/min | | |
| mm | | | | | | | | | | | | |
| 65 | 150 | 53.5 | 54 | 44.5 | 2.3 | 2.3 | 2.3 | 2.3 | 296 | 390 | 2400 | 3400 |
| | 152 | 48 | 45.5 | 35 | 2.5 | 2.5 | 3 | 3 | 200 | 286 | 2400 | 3400 |
| 70 | 100 | 20 | 20 | 16 | 1 | 1 | 1 | 1 | 70.5 | 114 | 3000 | 4000 |
| | 100 | 20 | 19 | 16 | 1 | 1 | 1 | 1 | 60.5 | 97 | 3000 | 4000 |
| | 110 | 31 | 31 | 25.5 | 1.5 | 1.5 | 1.5 | 1.5 | 128 | 196 | 3000 | 4000 |
| | 110 | 25 | 25 | 19 | 1.5 | 1.5 | 1.5 | 1.5 | 115 | 152 | 3000 | 4000 |
| 110 | 25 | 25 | 19 | 1.5 | 1.5 | 1.5 | 1.5 | 115 | 152 | 3000 | 4000 | |
| 120 | 33 | 33 | 27 | 2 | 2 | 2 | 2 | 158 | 220 | 3000 | 4000 | |
| 120 | 45 | 42 | 37 | 2.5 | 2.5 | 2.5 | 2.5 | 138 | 198 | 3000 | 4000 | |
| 120 | 45 | 42 | 37 | 2.5 | 2.5 | 2.5 | 2.5 | 138 | 198 | 3000 | 4000 | |
| 125 | 33.25 | 31 | 27 | 2 | 2 | 1.5 | 1.5 | 170 | 227 | 2800 | 3800 | |
| 125 | 33.25 | 31 | 27 | 2.5 | 2.5 | 2.5 | 2.5 | 201 | 248 | 2800 | 3800 | |
| 125 | 26.25 | 24 | 21 | 2 | 2 | 1.5 | 1.5 | 124 | 156 | 3000 | 4000 | |
| 130 | 57 | 56 | 35 | 10.5 | 11 | 1.5 | 1.5 | 250 | 345 | 3000 | 4000 | |
| 130 | 57 | 56 | 35 | SP | SP | 1.5 | 1.5 | 250 | 345 | 3000 | 4000 | |
| 145 | 59 | 59 | 47 | 8.5 | 8.5 | 2.5 | 2.5 | 340 | 495 | 2500 | 3600 | |
| 150 | 54 | 51 | 42 | 6 | 6 | 2.5 | 2.5 | 305 | 395 | 2200 | 3200 | |
| 150 | 54 | 51 | 42 | 3 | 3 | 2.5 | 2.5 | 315 | 400 | 2200 | 3200 | |
| 150 | 54 | 51 | 42 | 6 | 6 | 2.5 | 2.5 | 315 | 410 | 2200 | 3200 | |
| 150 | 54 | 51 | 42 | 6 | 6 | 2.5 | 2.5 | 305 | 395 | 2200 | 3200 | |
| 150 | 38 | 35 | 30 | 3 | 3 | 2.5 | 2.5 | 223 | 262 | 2400 | 3400 | |
| 150 | 38 | 35 | 30 | 3 | 3 | 0.5 | 0.5 | 226 | 267 | 2400 | 3400 | |
| 150 | 41 | 35 | 33 | 3 | 3 | 0.5 | 0.5 | 226 | 267 | 2400 | 3400 | |
| 150 | 38 | 35 | 30 | 8.5 | 8.5 | 2.5 | 2.5 | 226 | 267 | 2400 | 3400 | |
| 150 | 38 | 35 | 25 | 3 | 3 | 2.5 | 2.5 | 214 | 220 | 2400 | 3400 | |
| 150 | 38 | 35 | 25 | 3 | 3 | 2.5 | 2.5 | 214 | 220 | 2000 | 3000 | |
| 150 | 38 | 35 | 25 | 3 | 3 | 2.5 | 2.5 | 214 | 220 | 2000 | 3000 | |
| 150 | 54 | 51 | 42 | 3 | 3 | 2.5 | 2.5 | 300 | 425 | 2200 | 3200 | |
| 150 | 54 | 51 | 42 | 3 | 3 | 2.5 | 2.5 | 305 | 390 | 2200 | 3200 | |
| 150 | 38 | 35 | 25 | 3 | 3 | 2.5 | 2.5 | 214 | 220 | 2000 | 3000 | |

| Designations | Abutment and fillet dimensions | | | | | | Calculation coefficient | | | | Weight | |
|------------------------|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|------|------|------|--------|-------|
| | da _{max} | db _{min} | Da _{min} | Da _{max} | Db _{min} | Ca _{min} | Cb _{min} | e | Y | Y0 | | a |
| mm | | | | | | | | | | | | |
| kg | | | | | | | | | | | | |
| 30613-1 | 86 | 75 | 117 | 150 | 137 | 3.5 | 9 | 0.36 | 1.7 | 0.9 | 37 | 4.43 |
| 31313X3A/P6XYA6 | 75 | 77 | 111 | 128 | 134 | 5 | 13 | 1.05 | 0.57 | 0.31 | 60 | 4.32 |
| 32914 | 76 | 76 | 90 | 96 | 96 | 5 | 4 | 0.32 | 1.9 | 1.05 | 18 | 0.475 |
| 32914X2A | 77 | 74 | 90 | 96 | 96 | 5 | 4 | 0.36 | 1.7 | 0.92 | 19 | 0.477 |
| 33014 | 77 | 75 | 97 | 105 | 107 | 3 | 5.5 | 0.28 | 2.11 | 1.16 | 22 | 1.09 |
| 32014 | 93 | 78 | 112 | 103 | 125 | 5 | 6 | 0.43 | 1.4 | 0.76 | 26 | 0.972 |
| 32014/YA8 | 93 | 78 | 112 | 103 | 125 | 5 | 6 | 0.43 | 1.4 | 0.76 | 26 | 0.993 |
| 33114X2A/YA6 | 81 | 79 | 104 | 112 | 113 | 5 | 6 | 0.28 | 2.2 | 1.19 | 23 | 1.51 |
| 30614R | 79 | 80 | 99 | 111 | 115 | 3.5 | 8 | 0.39 | 1.5 | 0.84 | 32 | 1.94 |
| 30614 | 79 | 80 | 99 | 111 | 115 | 3.5 | 8 | 0.39 | 1.5 | 0.84 | 32 | 1.89 |
| 32214 | 79 | 79 | 106 | 118 | 120 | 4 | 6.3 | 0.42 | 1.4 | 0.79 | 29 | 1.66 |
| 32214/YA6 | 81 | 80 | 106 | 116 | 120 | 5 | 6.3 | 0.42 | 1.4 | 0.79 | 29 | 1.66 |
| 30214 | 81 | 69 | 110 | 116 | 118 | 4 | 5.3 | 0.42 | 1.4 | 0.79 | 26 | 1.29 |
| 30214X3/YA6 | 82 | 71 | 109 | 123 | 124 | 5 | 22 | 0.33 | 1.8 | 0.99 | 30 | 2.92 |
| 30214X3/YA6-1 | 82 | 71 | 109 | 123 | 124 | 5 | 22 | 0.33 | 1.8 | 0.99 | 30 | 2.83 |
| 32314X3A | 78 | 82 | 113 | 130 | 130 | 5 | 13 | 0.44 | 1.4 | 0.4 | 47 | 4.5 |
| 32314/YA6 | 88 | 89 | 123 | 141 | 140 | 5 | 12 | 0.35 | 1.7 | 0.96 | 36 | 4.38 |
| 32314/YA6-1 | 88 | 89 | 123 | 141 | 140 | 5 | 12 | 0.35 | 1.7 | 0.96 | 36 | 4.33 |
| 32314/YA6-2 | 88 | 89 | 123 | 141 | 140 | 5 | 12 | 0.35 | 1.7 | 0.96 | 36 | 4.33 |
| 32314/YA6 | 88 | 89 | 123 | 141 | 140 | 5 | 12 | 0.35 | 1.7 | 0.96 | 36 | 4.38 |
| 30314 | 89 | 82 | 130 | 138 | 141 | 5 | 8 | 0.35 | 1.7 | 0.96 | 30 | 3.08 |
| 30314N | 89 | 82 | 130 | 138 | 141 | 5 | 8 | 0.35 | 1.74 | 0.96 | 30 | 2.96 |
| 30314X2N/YB2 | 89 | 82 | 130 | 138 | 141 | 5 | 8 | 0.35 | 1.74 | 0.96 | 33 | 3.11 |
| 30314/YA6 | 92 | 71 | 128 | 141 | 140 | 5 | 8 | 0.35 | 1.7 | 0.96 | 30 | 3.08 |
| 31314 | 78 | 82 | 118 | 138 | 140 | 5 | 13 | 0.83 | 0.7 | 0.4 | 47 | 2.87 |
| 31314/HC3 | 85 | 82 | 118 | 138 | 141 | 5 | 13 | 0.83 | 0.72 | 0.4 | 45 | 2.87 |
| 31314/HC4 | 85 | 82 | 118 | 138 | 141 | 5 | 13 | 0.83 | 0.72 | 0.4 | 46 | 2.87 |
| 32314B | 84 | 82 | 125 | 138 | 141 | 6 | 12 | 0.55 | 1.1 | 0.6 | 45 | 4.54 |
| 32314 | 84 | 82 | 125 | 138 | 141 | 6 | 12 | 0.35 | 1.7 | 0.96 | 36 | 4.38 |
| 31314-SG | 85 | 82 | 118 | 138 | 141 | 5 | 13 | 0.83 | 0.72 | 0.4 | 46 | 2.87 |

Single-row Tapered Roller Bearing(Metric)

d 70-75 mm

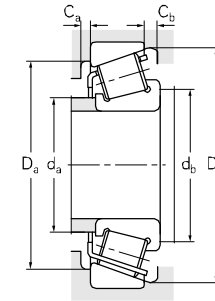
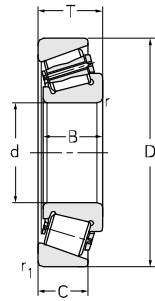
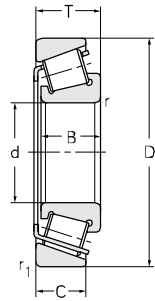


| Principal dimensions | | | | | Basic load ratings | | | | Limit speed ratings | | | |
|----------------------|-----|-------|----|------|---------------------|--------------------|----------------------|---------------------|---------------------|-----------------|--------|------|
| d | D | T | B | C | r _{radial} | r _{axial} | r _{1radial} | r _{1axial} | C _R | C _{OR} | Grease | Oil |
| | | | | | | | | | | r/min | | |
| 70 | 165 | 57 | 57 | 40 | 6 | 6 | 3 | 3 | 315 | 410 | 2000 | 3000 |
| | 165 | 57 | 57 | 43 | 4 | 4 | 3 | 3 | 325 | 430 | 2000 | 3000 |
| 75 | 115 | 31 | 31 | 25.5 | 1.5 | 1.5 | 1.5 | 1.5 | 130 | 213 | 3000 | 4000 |
| | 115 | 35 | 35 | 25.5 | 1.5 | 1.5 | 1.5 | 1.5 | 133 | 221 | 3000 | 4000 |
| | 115 | 25 | 25 | 19 | 1.5 | 1.5 | 1.5 | 1.5 | 120 | 163 | 3000 | 4000 |
| | 125 | 37 | 37 | 29 | 2 | 2 | 1.5 | 1.5 | 174 | 275 | 2800 | 3800 |
| | 125 | 37 | 37 | 29 | 4 | 4 | 1.5 | 1.5 | 174 | 275 | 2800 | 3800 |
| | 130 | 41 | 41 | 31 | 2 | 2 | 1.5 | 1.5 | 208 | 300 | 2600 | 3600 |
| | 130 | 27.25 | 25 | 22 | 2 | 2 | 1.5 | 1.5 | 139 | 175 | 2800 | 3800 |
| | 130 | 33.25 | 31 | 27 | 2 | 2 | 1.5 | 1.5 | 185 | 253 | 2600 | 3600 |
| | 130 | 33.25 | 31 | 27 | 1.8 | 1.8 | 1.8 | 1.8 | 185 | 184 | 2600 | 3600 |
| | 130 | 33.5 | 31 | 27 | 1.8 | 1.8 | 1.8 | 1.8 | 139 | 184 | 2600 | 3600 |
| | 130 | 33.25 | 31 | 27 | 3 | 3 | 2.5 | 2.5 | 185 | 253 | 2600 | 3600 |
| | 130 | 33.25 | 31 | 27 | 2 | 2 | 1.5 | 1.5 | 185 | 253 | 2600 | 3600 |
| | 130 | 33.25 | 31 | 27 | 2 | 2 | 1.5 | 1.5 | 185 | 253 | 2600 | 3600 |
| | 135 | 44.5 | 45 | 35 | 2.3 | 2.3 | 2.3 | 2.3 | 193 | 277 | 2600 | 3600 |
| | 135 | 44 | 45 | 35 | 3 | 3 | 2.5 | 2.5 | 200 | 292 | 2600 | 3600 |
| | 135 | 44 | 45 | 35 | 3 | 3 | 2.5 | 2.5 | 200 | 292 | 2600 | 3600 |
| | 150 | 59 | 59 | 47 | 3 | 3 | 2.5 | 2.5 | 355 | 530 | 2200 | 3200 |
| | 150 | 30.5 | 29 | 20 | 3 | 3 | 2.5 | 2.5 | 165 | 202 | 2200 | 3200 |
| | 160 | 40 | 37 | 31 | 3 | 3 | 2.5 | 2.5 | 259 | 285 | 2200 | 3200 |
| | 160 | 40 | 37 | 31 | 3 | 3 | 2.5 | 2.5 | 224 | 256 | 2200 | 3200 |
| | 160 | 40 | 37 | 26 | 3 | 3 | 2.5 | 2.5 | 239 | 245 | 2200 | 3200 |
| | 160 | 40 | 37 | 26 | 3 | 3 | 2.5 | 2.5 | 229 | 276 | 2300 | 3500 |
| | 160 | 40 | 37 | 26 | 3 | 3 | 2.5 | 2.5 | 226 | 270 | 2300 | 3500 |
| | 160 | 58 | 55 | 45 | 3 | 3 | 2.5 | 2.5 | 345 | 455 | 2000 | 3000 |
| | 160 | 58 | 55 | 45 | 3 | 3 | 2.5 | 2.5 | 330 | 450 | 2000 | 3000 |

| Designations | Abutment and fillet dimensions | | | | | | Calculation coefficient | | | | Weight | |
|------------------------|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|------|------|------|--------|-------|
| | da _{max} | db _{min} | Da _{min} | Da _{max} | Db _{min} | Ca _{min} | Cb _{min} | e | Y | Y0 | | a |
| mm | | | | | | | | | | | | kg |
| 30614-1 | 85 | 80 | 121 | 155 | 156 | 4 | 6.3 | 0.7 | 0.86 | 0.47 | 52 | 6.09 |
| 31314X3A/P6XYA6 | 85 | 82 | 118 | 138 | 141 | 5 | 13 | 0.7 | 0.86 | 0.47 | 51 | 5.71 |
| 33015 | 84 | 82 | 104 | 108 | 110 | 6 | 5.5 | 0.3 | 2 | 1.1 | 23 | 1.10 |
| 33015X2-RS2 | 84 | 82 | 104 | 108 | 110 | 6 | 5.5 | 0.3 | 2 | 1.1 | 23 | 1.23 |
| 32015 | 84 | 83 | 100 | 108 | 112 | 6 | 6 | 0.46 | 1.3 | 0.72 | 25 | 0.922 |
| 33115 | 87 | 84 | 107 | 118 | 121 | 4.5 | 8 | 0.4 | 1.5 | 0.83 | 29 | 1.80 |
| 33115/YA6 | 84 | 84 | 109 | 117 | 120 | 6 | 8 | 0.4 | 1.5 | 0.8 | 29 | 1.76 |
| 33215 | 87 | 84 | 109 | 123 | 126 | 4.5 | 10 | 0.43 | 1.4 | 0.77 | 32 | 2.27 |
| 30215 | 85 | 84 | 115 | 121 | 125 | 4.5 | 5.3 | 0.44 | 1.4 | 0.76 | 28 | 1.4 |
| 32215 | 85 | 84 | 114 | 122 | 125 | 4 | 6 | 0.43 | 1.4 | 0.8 | 29 | 1.72 |
| 32215AR/YA6 | 87 | 83 | 110 | 125 | 123 | 4.5 | 6.5 | 0.41 | 1.5 | 0.81 | 29 | 1.83 |
| 32215A/YA6 | 87 | 83 | 110 | 125 | 123 | 4.5 | 6.5 | 0.41 | 1.5 | 0.81 | 29 | 1.74 |
| 32215/YA6 | 86 | 87 | 111 | 121 | 125 | 6 | 6.3 | 0.44 | 1.4 | 0.76 | 30 | 1.76 |
| 32215-ZQ | 86 | 87 | 111 | 121 | 125 | 6 | 6.3 | 0.44 | 1.38 | 0.76 | 30 | 1.72 |
| 32215-ZQ/P6X | 86 | 87 | 111 | 121 | 125 | 6 | 6.3 | 0.44 | 1.38 | 0.76 | 30 | 1.72 |
| 33215X2A | 87 | 85 | 110 | 135 | 128 | 4.5 | 9.5 | 0.4 | 1.5 | 0.82 | 33 | 2.58 |
| 33215X2A-1 | 87 | 87 | 110 | 126 | 128 | 4.5 | 9 | 0.4 | 1.5 | 0.82 | 33 | 2.66 |
| 30615A | 85 | 83 | 113 | 127 | 128 | 5 | 9 | 0.4 | 1.49 | 0.82 | 34 | 2.66 |
| 32315X3A | 98 | 87 | 132 | 171 | 168 | 6 | 18.7 | 0.35 | 1.74 | 0.96 | 38 | 4.81 |
| 31315X3 | 93 | 85 | 126 | 146 | 142 | 5 | 13 | 0.64 | 0.94 | 0.52 | 38 | 2.24 |
| 30315 | 95 | 87 | 139 | 148 | 150 | 4.5 | 9 | 0.35 | 1.7 | 0.96 | 32 | 3.71 |
| 30315/YAD | 96 | 87 | 139 | 148 | 149 | 5 | 9 | 0.35 | 1.7 | 0.9 | 31 | 3.61 |
| 31315 | 86 | 87 | 127 | 148 | 153 | 6 | 14 | 0.83 | 0.7 | 0.4 | 50 | 3.40 |
| 31315/YB2 | 93 | 85 | 126 | 146 | 142 | 5 | 13 | 0.83 | 0.73 | 0.4 | 50 | 3.4 |
| 31315/YB4 | 94 | 88 | 131 | 151 | 150 | 4.5 | 13 | 0.83 | 0.7 | 0.4 | 41 | 3.4 |
| 32315 | 94 | 87 | 131 | 151 | 150 | 4.5 | 13 | 0.35 | 1.7 | 0.96 | 38 | 5.35 |
| 32315B | 94 | 87 | 131 | 151 | 150 | 4.5 | 13 | 0.55 | 1.1 | 0.6 | 47 | 5.46 |

Single-row Tapered Roller Bearing(Metric)

d 75-80 mm

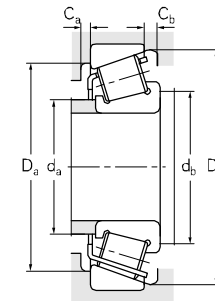
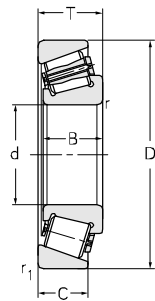
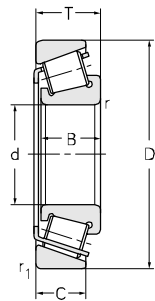


| Principal dimensions | | | | | Basic load ratings | | | | Limit speed ratings | | | |
|----------------------|-------|-------|------|------|---------------------|--------------------|----------------------|---------------------|---------------------|-----------------|--------|------|
| d | D | T | B | C | r _{radial} | r _{axial} | r _{1radial} | r _{1axial} | C _r | C _{0r} | Grease | Oil |
| | | | | | | | | | | | r/min | |
| 75 | 180 | 63.65 | 60 | 45 | 3 | 3 | 2.5 | 2.5 | 375 | 490 | 2000 | 3000 |
| | 180 | 63.5 | 60 | 45 | 4 | 4 | 3 | 3 | 370 | 480 | 2000 | 3000 |
| 76 | 141 | 28.25 | 26 | 22 | 0.5 | 0.5 | 2 | 2 | 165 | 209 | 2300 | 2800 |
| 80 | 110 | 20 | 20 | 16 | 1 | 1 | 1 | 1 | 71 | 119 | 2700 | 3700 |
| | 110 | 20 | 19 | 16 | 1 | 1 | 1 | 1 | 63 | 105 | 2700 | 3700 |
| | 125 | 29 | 29 | 22 | 1.5 | 1.5 | 1.5 | 1.5 | 139 | 219 | 2600 | 3600 |
| | 125 | 36 | 36 | 29.5 | 1.5 | 1.5 | 1.5 | 1.5 | 172 | 281 | 2600 | 3600 |
| 130 | 37 | 37 | 29 | 2 | 2 | 1.5 | 1.5 | 179 | 280 | 2600 | 3600 | |
| 130 | 32 | 31 | 25 | 3.5 | 3.5 | 2 | 2 | 151 | 218 | 2400 | 3400 | |
| 140 | 46 | 46 | 35 | 2.5 | 2.5 | 2 | 2 | 264 | 390 | 2200 | 3200 | |
| 140 | 45 | 45 | 36.5 | 3 | 3 | 2.5 | 2.5 | 230 | 380 | 2200 | 3200 | |
| 140 | 28.25 | 26 | 22 | 2.5 | 2.5 | 2 | 2 | 149 | 183 | 2400 | 3400 | |
| 140 | 29 | 29 | 22 | 0.3 | 0.3 | 2 | 2 | 156 | 204 | 2400 | 3400 | |
| 140 | 35.25 | 33 | 28 | 2.5 | 2.5 | 2 | 2 | 198 | 263 | 2400 | 3400 | |
| 140 | 35.5 | 33 | 28 | 2.3 | 2.3 | 2.3 | 2.3 | 162 | 216 | 2400 | 3400 | |
| 140 | 39.2 | 39.2 | 32 | 2.5 | 2.5 | 2 | 2 | 205 | 360 | 2400 | 3400 | |
| 140 | 35.25 | 33 | 28 | 5.5 | 5.5 | 2 | 2 | 198 | 263 | 2400 | 3400 | |
| 140 | 35.25 | 33 | 28 | 3 | 3 | 2.5 | 2.5 | 180 | 263 | 2400 | 3400 | |
| 140 | 35.25 | 33 | 28 | 4.5 | 4.5 | 2 | 2 | 198 | 263 | 2400 | 3400 | |
| 140 | 35.25 | 33 | 28 | 2.5 | 2.5 | 2 | 2 | 214 | 290 | 2400 | 3400 | |
| 150 | 42 | 38 | 33 | 3 | 3 | 0.3 | 0.3 | 226 | 320 | 2200 | 2700 | |
| 165 | 59 | 59 | 39 | 3 | 3 | 4 | 4 | 300 | 450 | 2200 | 3200 | |
| 165 | 57 | 57 | 43 | 4 | 4 | 3 | 3 | 330 | 500 | 2200 | 3200 | |
| 170 | 61.5 | 58 | 48 | 3 | 3 | 2.5 | 2.5 | 390 | 510 | 1900 | 2800 | |
| 170 | 42.5 | 39 | 33 | 3 | 3 | 2.5 | 2.5 | 273 | 320 | 2000 | 3000 | |
| 170 | 42.5 | 39 | 27 | 3 | 3 | 2.5 | 2.5 | 223 | 260 | 2200 | 3200 | |
| 170 | 42.5 | 39 | 27 | 3 | 3 | 2.5 | 2.5 | 236 | 280 | 2200 | 3200 | |
| 180 | 63.65 | 60 | 45 | 3 | 3 | 2.5 | 2.5 | 370 | 550 | 1800 | 2800 | |

| Designations | Abutment and fillet dimensions | | | | | | | Calculation coefficient | | | | Weight kg |
|-------------------------|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|------|------|----|--------------|
| | da _{max} | db _{min} | Da _{min} | Da _{max} | Db _{min} | Ca _{min} | Cb _{min} | e | Y | Y0 | a | |
| mm | | | | | | | | | | | | |
| 32315X3 | 98 | 87 | 132 | 171 | 168 | 6 | 18.7 | 0.7 | 0.86 | 0.47 | 57 | 7.90 |
| 32315X3-1 | 98 | 87 | 132 | 171 | 168 | 6 | 18.7 | 0.7 | 0.86 | 0.47 | 55 | 7.89 |
| 306/76 | 91 | 79 | 122 | 134 | 135 | 4.5 | 6.25 | 0.42 | 1.43 | 0.79 | 28 | 1.83 |
| 32916 | 86 | 88 | 100 | 106 | 106 | 5 | 6 | 0.35 | 1.7 | 0.96 | 38 | 0.548 |
| 32916X2A | 86 | 88 | 100 | 106 | 106 | 5 | 6 | 0.32 | 1.83 | 1 | 20 | 0.500 |
| 32016 | 90 | 88 | 109 | 118 | 121 | 6 | 7 | 0.42 | 1.4 | 0.78 | 27 | 1.26 |
| 33016 | 90 | 87 | 112 | 117 | 119 | 6 | 6.5 | 0.28 | 2.1 | 1.1 | 26 | 1.62 |
| 33116 | 91 | 81 | 111 | 123 | 127 | 4.5 | 8 | 0.42 | 1.4 | 0.79 | 31 | 2.79 |
| 33116X2A | 91 | 81 | 113 | 122 | 125 | 4.5 | 7 | 0.38 | 1.6 | 0.88 | 27 | 1.60 |
| 33216 | 90 | 90 | 117 | 132 | 136 | 4.5 | 11 | 0.43 | 1.4 | 0.78 | 35 | 2.89 |
| 33216X2A | 90 | 90 | 117 | 132 | 136 | 4.5 | 11 | 0.28 | 2.16 | 1.19 | 30 | 2.77 |
| 30216 | 90 | 90 | 124 | 130 | 133 | 4.5 | 6.3 | 0.42 | 1.4 | 0.79 | 29 | 1.56 |
| 30216X2/YA6 | 90 | 90 | 124 | 130 | 133 | 4.5 | 6.3 | 0.42 | 1.43 | 0.79 | 29 | 1.77 |
| 32216 | 89 | 90 | 122 | 130 | 135 | 5 | 7.3 | 0.42 | 1.4 | 0.79 | 32 | 2.19 |
| 32216A/YA6 | 94 | 90 | 119 | 140 | 132 | 4.5 | 7.5 | 0.4 | 1.5 | 0.82 | 31 | 2.13 |
| 32216X2A | 94 | 90 | 119 | 140 | 132 | 4.5 | 7.5 | 0.41 | 1.47 | 0.81 | 33 | 2.71 |
| 32216/YA6-1 | 91 | 81 | 120 | 132 | 134 | 6 | 7.3 | 0.42 | 1.4 | 0.79 | 32 | 2.19 |
| 32216/YA6-2 | 91 | 81 | 120 | 132 | 134 | 6 | 7.3 | 0.42 | 1.43 | 0.79 | 31 | 2.12 |
| 32216/YA6-3 | 94 | 90 | 119 | 140 | 132 | 4.5 | 7.5 | 0.4 | 1.5 | 0.82 | 31 | 2.13 |
| 32216/YB2 | 94 | 90 | 119 | 140 | 132 | 4.5 | 7.5 | 0.42 | 1.43 | 0.79 | 31 | 2.13 |
| 33216X3AN/YB2 | 90 | 90 | 117 | 132 | 136 | 4.5 | 11 | 0.39 | 1.55 | 0.85 | 35 | 3.17 |
| 32316X3-1 | 92 | 91 | 134 | 158 | 161 | 6 | 16 | 0.83 | 0.7 | 0.4 | 53 | 5.69 |
| 32316X3-2-ZQ/P6X | 92 | 91 | 134 | 158 | 161 | 6 | 16 | 0.7 | 0.86 | 0.47 | 53 | 5.8 |
| 32316 | 97 | 92 | 142 | 158 | 160 | 4.5 | 14 | 0.35 | 1.7 | 0.96 | 41 | 6.43 |
| 30316 | 102 | 92 | 146 | 158 | 160 | 5 | 9.5 | 0.35 | 1.7 | 0.96 | 34 | 4.32 |
| 31316 | 92 | 91 | 128 | 156 | 156 | 6 | 16 | 0.83 | 0.7 | 0.4 | 53 | 3.65 |
| 31316/YB2 | 92 | 91 | 128 | 156 | 156 | 6 | 16 | 0.83 | 0.73 | 0.4 | 53 | 4.07 |
| 32316X3 | 97 | 92 | 142 | 158 | 160 | 4.5 | 14 | 0.76 | 0.86 | 0.47 | 57 | 7.91 |

Single-row Tapered Roller Bearing(Metric)

d 85-90 mm



| Principal dimensions | | | | | Basic load ratings | | | | Limit speed ratings | | | |
|----------------------|-----|------|------|------|---------------------|--------------------|----------------------|---------------------|---------------------|-----------------|--------|------|
| d | D | T | B | C | r _{radial} | r _{axial} | r _{1radial} | r _{1axial} | C _R | C _{OR} | Grease | Oil |
| | | | | | | | | | | | r/min | |
| 85 | 120 | 23 | 23 | 18 | 1.5 | 1.5 | 1.5 | 1.5 | 100 | 172 | 2700 | 3300 |
| | 130 | 36 | 36 | 29.5 | 1.5 | 1.5 | 1.5 | 1.5 | 195 | 330 | 2600 | 3600 |
| | 130 | 29 | 29 | 22 | 1.5 | 1.5 | 1.5 | 1.5 | 138 | 220 | 2400 | 3400 |
| | 140 | 41 | 41 | 32 | 2.5 | 2.5 | 2 | 2 | 215 | 354 | 2400 | 3400 |
| | 150 | 49 | 49 | 37 | 2.5 | 2.5 | 2 | 2 | 286 | 236 | 2000 | 3000 |
| | 150 | 49 | 49 | 37 | 7 | 7 | 2 | 2 | 287 | 410 | 2000 | 3000 |
| | 150 | 30.5 | 28 | 24 | 2.5 | 2.5 | 2 | 2 | 175 | 220 | 2400 | 3400 |
| | 150 | 38.5 | 36 | 30 | 2.5 | 2.5 | 2 | 2 | 230 | 315 | 2200 | 3200 |
| | 150 | 38.5 | 36 | 30 | 2.5 | 2.5 | 2 | 2 | 230 | 315 | 2200 | 3200 |
| | 150 | 38.5 | 36 | 30 | 2.5 | 2.5 | 2 | 2 | 232 | 315 | 2200 | 3200 |
| 90 | 180 | 63.5 | 60 | 49 | 4 | 4 | 3 | 3 | 425 | 560 | 1800 | 2600 |
| | 180 | 44.5 | 41 | 34 | 4 | 4 | 3 | 3 | 301 | 365 | 1900 | 2800 |
| | 180 | 44.5 | 41 | 28 | 4 | 4 | 3 | 3 | 254 | 300 | 2000 | 3000 |
| | 140 | 32 | 32 | 24 | 2 | 2 | 1.5 | 1.5 | 165 | 255 | 2200 | 3200 |
| | 140 | 39 | 39 | 32.5 | 2 | 2 | 1.5 | 1.5 | 226 | 370 | 2200 | 3200 |
| | 140 | 32.4 | 30 | 26 | 2 | 2 | 1.5 | 1.5 | 150 | 196 | 2200 | 3200 |
| | 145 | 35 | 32 | 27 | 6.5 | 6.5 | 1.5 | 1.5 | 198 | 305 | 2200 | 3200 |
| | 150 | 45 | 45 | 35 | 2.5 | 2.5 | 2 | 2 | 250 | 390 | 2000 | 3000 |
| | 150 | 38.5 | 36 | 30 | 2.5 | 2.5 | 2 | 2 | 209 | 310 | 2000 | 3000 |
| | 150 | 45 | 45 | 35 | 2.5 | 2.5 | 2 | 2 | 250 | 390 | 2000 | 3000 |
| 90 | 160 | 55 | 55 | 42 | 2.5 | 2.5 | 2 | 2 | 330 | 495 | 2000 | 3000 |
| | 160 | 50 | 46 | 39 | 3 | 3 | 3 | 3 | 235 | 320 | 2000 | 3000 |
| | 160 | 42.5 | 40 | 34 | 2.5 | 2.5 | 2 | 2 | 274 | 280 | 2000 | 3000 |
| | 160 | 42.5 | 40 | 34 | 2.3 | 2.3 | 2.3 | 2.3 | 274 | 280 | 2000 | 3000 |
| | 160 | 42.5 | 40 | 34 | 2.3 | 2.3 | 2.3 | 2.3 | 274 | 280 | 2000 | 3000 |
| | 160 | 42.5 | 40 | 34 | 2.5 | 2.5 | 2 | 2 | 274 | 280 | 2000 | 3000 |
| | 160 | 32.5 | 30 | 26 | 2.5 | 2.5 | 2 | 2 | 222 | 291 | 2000 | 3000 |
| | 160 | 32.5 | 30 | 26 | 5 | 5 | 3 | 3 | 222 | 291 | 2000 | 3000 |
| | 170 | 62 | 59.5 | 49 | 2.5 | 2.5 | 2.5 | 2.5 | 360 | 520 | 2000 | 3000 |

| Designations | Abutment and fillet dimensions | | | | | | Calculation coefficient | | | | Weight kg | |
|---------------------------|--------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------------|------|------|----------------|--------------|-------|
| | d _a max | d _b min | D _a min | D _a max | D _b min | C _a min | C _b min | e | Y | Y ₀ | | a |
| mm | | | | | | | | | | | | |
| 32917 | 92 | 90 | | 115 | 117 | 2 | 5 | 0.33 | 1.83 | 1.01 | 21 | 0.776 |
| 33017 | 94 | 92 | | 122 | 125 | 6 | 6.5 | 0.3 | 2 | 1.1 | 26 | 1.70 |
| 32017 | 94 | 93 | | 123 | 126 | 7 | 7 | 0.44 | 1.4 | 0.75 | 28 | 1.33 |
| 33117 | 95 | 95 | | 130 | 135 | 7 | 9 | 0.4 | 1.5 | 0.8 | 32 | 2.43 |
| 33217 | 96 | 95 | | 142 | 145 | 4.5 | 12 | 0.42 | 1.4 | 0.79 | 37 | 3.64 |
| 33217/YA6 | 96 | 95 | | 142 | 145 | 4.5 | 12 | 0.42 | 1.4 | 0.79 | 37 | 3.64 |
| 30217 | 96 | 95 | | 140 | 142 | 5 | 6.5 | 0.42 | 1.4 | 0.79 | 31 | 2.05 |
| 32217 | 95 | 95 | | 140 | 143 | 5 | 8.5 | 0.42 | 1.4 | 0.79 | 34 | 2.70 |
| 32217-SG | 95 | 95 | | 140 | 143 | 5 | 8.5 | 0.42 | 1.4 | 0.79 | 34 | 2.7 |
| 32217/YA5 | 97 | 95 | | 140 | 142 | 5 | 8.5 | 0.43 | 1.4 | 0.8 | 33 | 2.79 |
| 32317 | 102 | 99 | | 166 | 168 | 4.5 | 15 | 0.35 | 1.7 | 0.96 | 42 | 7.37 |
| 30317 | 107 | 99 | | 166 | 168 | 6 | 11 | 0.35 | 1.7 | 0.96 | 35 | 5.39 |
| 31317 | 96 | 99 | | 166 | 171 | 6 | 17 | 0.83 | 0.7 | 0.4 | 56 | 4.92 |
| 32018 | 100 | 99 | | 133 | 135 | 7 | 8 | 0.42 | 1.4 | 0.78 | 30 | 1.77 |
| 33018 | 100 | 99 | | 132 | 135 | 7 | 6.5 | 0.27 | 2.2 | 1.3 | 27 | 2.24 |
| 32018X2A | 100 | 99 | | 131 | 134 | 6 | 8 | 0.34 | 1.8 | 0.97 | 23 | 1.71 |
| 32018X3/YA6 | 100 | 99 | | 133 | 135 | 7 | 6.5 | 0.42 | 1.4 | 0.78 | 30 | 2.08 |
| 33118 | 104 | 100 | | 142 | 145 | 4.5 | 10 | 0.4 | 1.5 | 0.83 | 35 | 3.22 |
| 33118X2(TRA181504) | 103 | 10 | | 142 | 145 | 4.5 | 8.5 | 0.42 | 1.4 | 0.79 | 34 | 2.57 |
| 33118/YB2 | 104 | 100 | | 142 | 145 | 4.5 | 10 | 0.4 | 1.5 | 0.83 | 35 | 3.22 |
| 33218 | 95 | 99 | | 160 | 126 | 7 | 13 | 0.29 | 2.1 | 1.13 | 33 | 4.77 |
| 33218X2A | 103 | 102 | | 149 | 149 | 4.5 | 11 | 0.34 | 1.8 | 0.97 | 35 | 3.82 |
| 32218 | 101 | 100 | | 150 | 152 | 5 | 8.5 | 0.42 | 1.4 | 0.79 | 37 | 3.61 |
| 32218R/YA6 | 106 | 100 | | 160 | 151 | 4.5 | 9 | 0.39 | 1.6 | 0.85 | 35 | 3.47 |
| 32218/YA6 | 106 | 100 | | 160 | 151 | 4.5 | 9 | 0.39 | 1.6 | 0.85 | 35 | 3.36 |
| 32218/YB2-1 | 106 | 100 | | 160 | 151 | 4.5 | 9 | 0.42 | 1.43 | 0.79 | 37 | 3.48 |
| 30218 | 102 | 100 | | 150 | 151 | 5 | 6.5 | 0.42 | 1.4 | 0.79 | 33 | 2.73 |
| 30218/YA6 | 102 | 100 | | 150 | 151 | 5 | 6.5 | 0.42 | 1.4 | 0.79 | 33 | 2.73 |
| 30618 | 107 | 100 | | 161 | 161 | 4.5 | 13 | 0.36 | 1.7 | 0.92 | 42 | 6.04 |