

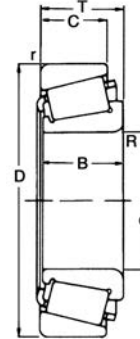


ROLLER BEARINGS



TAPERED ROLLER BEARINGS

Metric Size



| Boundary dimensions (mm) | | | | | | | Basic load rating N | | Limiting speeds RPM | | Mass (kg) | Bearing No. |
|--------------------------|-----|-------|----|------|------------------|------------------|---------------------|------------|---------------------|--------|-----------|-------------|
| d | D | T | B | C | R _{min} | r _{min} | dynamic Cr | static Cor | Grease | oil | | |
| 15 | 42 | 14.25 | 13 | 11 | 1 | 1 | 21 200 | 12 700 | 9 900 | 13 000 | 0.098 | 30302 |
| 17 | 40 | 13.25 | 12 | 11 | 1 | 1 | 17 900 | 11 000 | 9 900 | 13 000 | 0.080 | 30203 |
| | 47 | 15.25 | 14 | 12 | 1 | 1 | 33 000 | 21 200 | 9 000 | 12 000 | 0.134 | 30303 |
| 20 | 42 | 15 | 15 | 12 | 0.6 | 0.6 | 22 900 | 15 600 | 9 500 | 13 000 | 0.097 | 32004X |
| | 47 | 15.25 | 14 | 12 | 1 | 1 | 26 000 | 16 600 | 8 800 | 12 000 | 0.127 | 30204 |
| | 52 | 16.25 | 15 | 13 | 1.5 | 1.5 | 31 900 | 20 000 | 8 000 | 11 000 | 0.169 | 30304 |
| 25 | 47 | 15 | 15 | 11.5 | 0.6 | 0.6 | 25 500 | 18 300 | 7 900 | 11 000 | 0.114 | 32005X |
| | 52 | 16.25 | 15 | 13 | 1 | 1 | 29 200 | 19 300 | 7 300 | 9 800 | 0.154 | 30205 |
| | 52 | 19.25 | 18 | 16 | 1 | 1 | 34 100 | 25 000 | 7 300 | 9 800 | 0.187 | 32205 |
| | 62 | 18.25 | 17 | 15 | 1.5 | 1.5 | 41 800 | 26 500 | 6 700 | 8 900 | 0.272 | 30305 |
| 30 | 55 | 17 | 17 | 13 | 1 | 1 | 33 600 | 24 500 | 6 900 | 9 200 | 0.166 | 32006X |
| | 62 | 17.25 | 16 | 14 | 1 | 1 | 38 000 | 25 500 | 6 300 | 8 400 | 0.241 | 30206 |
| | 62 | 21.25 | 20 | 17 | 1 | 1 | 47 300 | 33 500 | 6 300 | 8 400 | 0.301 | 32206 |
| | 72 | 20.75 | 19 | 16 | 1.5 | 1.5 | 52 800 | 34 500 | 5 700 | 7 600 | 0.408 | 30306 |
| | 72 | 28.75 | 27 | 23 | 1.5 | 1.5 | 72 100 | 52 000 | 5 700 | 7 600 | 0.583 | 32306 |
| 35 | 62 | 18 | 18 | 14 | 1 | 1 | 40 200 | 30 500 | 6 100 | 8 100 | 0.224 | 32007X |
| | 72 | 18.25 | 17 | 15 | 1.5 | 1.5 | 48 400 | 32 500 | 5 500 | 7 400 | 0.344 | 30207 |
| | 72 | 24.25 | 23 | 19 | 1.5 | 1.5 | 61 600 | 45 000 | 5 500 | 7 400 | 0.457 | 32207 |
| | 80 | 22.75 | 21 | 18 | 2 | 1.5 | 68 200 | 45 000 | 5 000 | 6 600 | 0.520 | 30307 |
| | 80 | 32.75 | 31 | 25 | 2 | 1.5 | 89 700 | 65 500 | 5 000 | 6 600 | 0.787 | 32307 |
| 40 | 68 | 19 | 19 | 14.5 | 1 | 1 | 44 500 | 40 000 | 5 300 | 7 100 | 0.278 | 32008X |
| | 80 | 19.75 | 18 | 16 | 1.5 | 1.5 | 58 300 | 40 000 | 4 900 | 6 600 | 0.435 | 30208 |
| | 80 | 24.75 | 23 | 19 | 1.5 | 1.5 | 70 400 | 50 000 | 4 900 | 6 600 | 0.558 | 32208 |
| | 90 | 25.25 | 23 | 20 | 2 | 1.5 | 80 900 | 56 000 | 4 400 | 5 900 | 0.769 | 30308 |
| | 90 | 25.25 | 23 | 17 | 2 | 1.5 | 69 300 | 46 500 | 3 900 | 5 200 | 0.738 | 31308 |
| | 90 | 35.25 | 32 | 27 | 2 | 1.5 | 110 000 | 83 000 | 4 400 | 5 900 | 1.080 | 32308 |
| 45 | 75 | 20 | 20 | 15.5 | 1 | 1 | 55 000 | 44 000 | 4 800 | 6 400 | 0.346 | 32009X |
| | 85 | 20.75 | 19 | 16 | 1.5 | 1.5 | 62 700 | 44 000 | 4 400 | 5 900 | 0.495 | 30209 |
| | 85 | 24.75 | 23 | 19 | 1.5 | 1.5 | 74 800 | 56 000 | 4 400 | 5 900 | 0.607 | 32209 |
| | 85 | 32 | 32 | 25 | 1.5 | 1.5 | 101 000 | 81 500 | 4 400 | 5 900 | 0.783 | 32309 |
| | 100 | 27.25 | 25 | 22 | 2 | 1.5 | 101 000 | 72 000 | 4 000 | 5 300 | 1.010 | 30309 |
| | 100 | 27.25 | 25 | 18 | 2 | 1.5 | 85 800 | 60 000 | 3 500 | 4 600 | 0.958 | 31309 |
| | 100 | 38.25 | 36 | 30 | 2 | 1.5 | 132 000 | 102 000 | 4 000 | 5 300 | 1.460 | 32309 |
| 50 | 80 | 20 | 20 | 15.5 | 1 | 1 | 57 200 | 48 000 | 4 400 | 5 800 | 0.366 | 32010X |
| | 90 | 21.75 | 20 | 17 | 1.5 | 1.5 | 70 400 | 52 000 | 4 000 | 5 300 | 0.563 | 30210 |
| | 90 | 24.75 | 23 | 19 | 1.5 | 1.5 | 70 400 | 52 000 | 4 000 | 5 300 | 0.648 | 32210 |
| | 110 | 29.25 | 27 | 23 | 2.5 | 2 | 117 000 | 83 000 | 3 600 | 4 800 | 1.310 | 30310 |
| | 110 | 29.25 | 27 | 19 | 2.5 | 2 | 99 000 | 69 500 | 3 200 | 4 200 | 1.250 | 31310 |
| | 110 | 42.25 | 40 | 33 | 2.5 | 2 | 161 000 | 127 000 | 3 600 | 4 800 | 1.920 | 32310 |

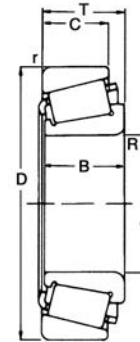


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TAPERED ROLLER BEARINGS

Metric Size



| Boundary dimensions (mm) | | | | | | | Basic load rating N | | Limiting speeds RPM | | Mass (kg) | Bearing No. |
|--------------------------|-----|-------|----|------|------|------|---------------------|------------|---------------------|-------|-----------|---------------|
| d | D | T | B | C | Rmin | rmin | dynamic Cr | static Cor | Grease | oil | | |
| 55 | 90 | 23 | 23 | 17.5 | 1.5 | 1.5 | 76 500 | 64 000 | 4 000 | 5 400 | 0.563 | 32011X |
| | 100 | 22.75 | 21 | 18 | 2 | 1.5 | 84 200 | 61 000 | 3 600 | 4 900 | 0.740 | 30211 |
| | 100 | 26.75 | 25 | 21 | 2 | 1.5 | 99 000 | 75 000 | 3 600 | 4 900 | 0.876 | 32211 |
| | 120 | 31.5 | 29 | 21 | 2.5 | 2 | 134 000 | 96 500 | 3 300 | 4 400 | 1.660 | 30311 |
| | 120 | 31.5 | 29 | 21 | 2.5 | 2 | 114 000 | 80 000 | 2 900 | 3 800 | 1.590 | 31311 |
| | 120 | 45.5 | 43 | 35 | 35 | 2.5 | 187 000 | 15 0000 | 3 300 | 4 400 | 2.440 | 32311 |
| 60 | 95 | 23 | 23 | 17.5 | 1.5 | 1.5 | 76 500 | 67 000 | 3 700 | 4 900 | 0.576 | 32012X |
| | 110 | 23.75 | 22 | 19 | 2 | 1.5 | 91 300 | 65 500 | 3 400 | 4 500 | 0.949 | 30212 |
| | 110 | 29.75 | 28 | 24 | 2 | 1.5 | 119 000 | 91 500 | 3 400 | 4 500 | 1.180 | 32212 |
| | 130 | 33.5 | 31 | 26 | 3 | 2.5 | 161 000 | 116 000 | 3 000 | 4 000 | 2.060 | 30312 |
| | 130 | 48.5 | 46 | 37 | 37 | 3 | 216 000 | 17 3000 | 3 000 | 4 000 | 3.020 | 32312 |
| 65 | 100 | 23 | 23 | 17.5 | 1.5 | 1.5 | 78 100 | 68 000 | 3 400 | 4 600 | 0.630 | 32013X |
| | 120 | 24.75 | 23 | 20 | 2 | 1.5 | 108 000 | 78 000 | 3 100 | 4 200 | 1.180 | 30213 |
| | 120 | 32.75 | 31 | 27 | 2 | 1.5 | 142 000 | 112 000 | 3 100 | 4 200 | 1.580 | 32213 |
| | 140 | 36 | 33 | 28 | 3 | 2.5 | 183 000 | 134 000 | 2 800 | 3 700 | 2.550 | 30313 |
| | 140 | 36 | 33 | 23 | 3 | 2.5 | 154 000 | 112 000 | 2 500 | 3 300 | 2.420 | 31313 |
| | 140 | 51 | 48 | 39 | 39 | 3 | 246 000 | 200 000 | 2 800 | 3 700 | 3.660 | 32313 |
| 70 | 110 | 25 | 25 | 19 | 1.5 | 1.5 | 95 200 | 83 000 | 3 200 | 4 200 | 0.848 | 32014X |
| | 125 | 26.25 | 24 | 21 | 2 | 1.5 | 119 000 | 88 000 | 2 900 | 3 900 | 1.260 | 30214 |
| | 125 | 33.25 | 31 | 27 | 2 | 1.5 | 147 000 | 118 000 | 2 900 | 3 900 | 1.680 | 32214 |
| | 150 | 38 | 35 | 25 | 3 | 2.5 | 176 000 | 127 000 | 2 300 | 3 000 | 2.920 | 31314 |
| 75 | 115 | 25 | 25 | 19 | 1.5 | 1.5 | 99 000 | 88 000 | 3 000 | 4 000 | 0.909 | 32015X |
| | 130 | 27.25 | 25 | 22 | 2 | 1.5 | 130 000 | 100 000 | 2 700 | 3 600 | 1.410 | 30215 |
| | 130 | 33.25 | 31 | 27 | 2 | 1.5 | 151 000 | 120 000 | 2 700 | 3 600 | 1.740 | 32215 |
| 80 | 125 | 29 | 29 | 22 | 1.5 | 1.5 | 128 000 | 116 000 | 2 800 | 3 700 | 1.280 | 32016X |
| | 140 | 35.25 | 33 | 28 | 2.5 | 2 | 176 000 | 137 000 | 2 500 | 3 400 | 2.180 | 32216 |
| 85 | 130 | 29 | 29 | 22 | 1.5 | 1.5 | 130 000 | 120 000 | 2 600 | 3 500 | 1.350 | 32017X |
| | 150 | 38.5 | 36 | 30 | 2.5 | 2 | 201 000 | 163 000 | 2 400 | 3 200 | 2.750 | 32217 |
| 90 | 140 | 32 | 32 | 24 | 2 | 1.5 | 157 000 | 146 000 | 2 500 | 3 300 | 1.790 | 32018X |
| | 160 | 32.5 | 30 | 26 | 2.5 | 2 | 183 000 | 140 000 | 2 200 | 3 000 | 2.660 | 30218 |
| | 160 | 42.5 | 40 | 34 | 2.5 | 2 | 238 000 | 193 000 | 2 200 | 3 000 | 3.490 | 32218 |
| | 190 | 46.5 | 43 | 36 | 4 | 3 | 308 000 | 236 000 | 2 000 | 2 700 | 6.030 | 30318 |
| 100 | 150 | 32 | 32 | 24 | 2 | 1.5 | 161 000 | 150 000 | 2 200 | 3 000 | 1.910 | 32020X |
| | 180 | 49 | 46 | 39 | 3 | 2.5 | 297 000 | 250 000 | 2 000 | 2 700 | 5.120 | 32220 |
| 105 | 190 | 53 | 50 | 43 | 3 | 2.5 | 341 000 | 290 000 | 1 900 | 2 500 | 6.250 | 32221 |
| 110 | 170 | 38 | 38 | 29 | 2.5 | 2 | 220 000 | 208 000 | 2 000 | 2 700 | 3.070 | 32022X |
| 120 | 180 | 38 | 38 | 29 | 2.5 | 2 | 229 000 | 224 000 | 1 800 | 2 500 | 3.250 | 32024X |
| 130 | 200 | 45 | 45 | 34 | 2.5 | 2 | 297 000 | 290 000 | 1 700 | 2 200 | 4.960 | 32026X |