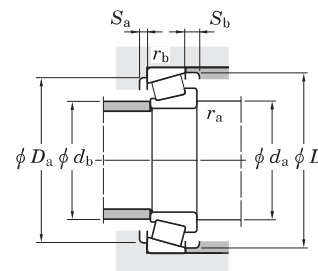
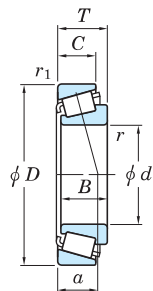


Single-row tapered roller bearings
metric series

d 15 ~ 22 mm

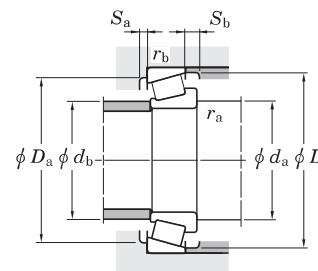
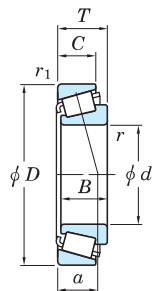


| Boundary dimensions (mm) | | | | | | Basic load ratings (kN) | | Fatigue load limit (kN) C_u | Limiting speeds (min^{-1}) | | Bearing No. ¹⁾ | Dimension series to ISO355 (Refer.) | Load center (mm) a | Mounting dimensions (mm) | | | | | | | | Constant e | Axial load factors | | (Refer.) Mass (kg) | |
|--------------------------|-----|-------|------|------|------------|-------------------------|-------|-------------------------------|---------------------------------------|-------------|---------------------------|-------------------------------------|----------------------|--------------------------|------------|------------|------------|------------|------------|------------|------------|--------------|--------------------|-------|--------------------|-------|
| d | D | T | B | C | r_{\min} | $r_{1\min}$ | C_r | | C_{0r} | Grease lub. | | | | Oil lub. | d_a min. | d_b max. | D_a max. | D_b min. | S_a min. | S_b min. | r_a max. | | r_b max. | Y_1 | | Y_0 |
| 15 | 35 | 11.75 | 11 | 10 | 0.6 | 0.6 | 19.8 | 14.5 | 2.00 | 12 000 | 16 000 | — | 8.3 | 19.5 | 20 | 30.5 | 29 | 33 | 2 | 1.7 | 0.6 | 0.6 | 0.32 | 1.88 | 1.04 | 0.054 |
| | 42 | 14.25 | 13 | 11 | 1 | 1 | 27.4 | 19.2 | 2.65 | 10 000 | 14 000 | 2FB | 10.0 | 20.5 | 22 | 36.5 | 35 | 38 | 2 | 3 | 1 | 1 | 0.29 | 2.11 | 1.16 | 0.098 |
| 17 | 40 | 13.25 | 12 | 11 | 1 | 1 | 26.0 | 20.7 | 2.85 | 10 000 | 14 000 | 2DB | 10.1 | 22.5 | 23 | 34.5 | 33 | 37 | 2 | 2 | 1 | 1 | 0.35 | 1.74 | 0.96 | 0.081 |
| | 40 | 17.25 | 16 | 14 | 1 | 1 | 34.3 | 27.5 | 3.85 | 10 000 | 14 000 | 2DD | 11.4 | 22.5 | 23 | 34.5 | 33 | 37 | 2 | 3 | 1 | 1 | 0.31 | 1.92 | 1.06 | 0.104 |
| | 47 | 15.25 | 14 | 12 | 1 | 1 | 34.2 | 24.5 | 3.45 | 9 200 | 12 000 | 2FB | 11.0 | 22.5 | 25 | 41.5 | 40 | 42 | 2 | 3 | 1 | 1 | 0.29 | 2.11 | 1.16 | 0.133 |
| | 47 | 15.25 | 14 | 12 | 1 | 1 | 34.2 | 24.5 | 3.45 | 9 200 | 12 000 | — | 10.5 | 22.5 | 25 | 41.5 | 40 | 42 | 2 | 3 | 1 | 1 | 0.28 | 2.11 | 1.16 | 0.127 |
| | 47 | 20.25 | 19 | 16 | 1 | 1 | 39.9 | 29.9 | 4.25 | 9 400 | 13 000 | — | 12.4 | 22.5 | 25 | 41.5 | 39 | 43 | 2 | 4 | 1 | 1 | 0.28 | 2.11 | 1.16 | 0.170 |
| | 47 | 20.25 | 19 | 16 | 1 | 1 | 45.7 | 35.9 | 5.10 | 9 400 | 13 000 | 2FD | 12.2 | 22.5 | 25 | 41.5 | 39 | 43 | 2 | 4 | 1 | 1 | 0.29 | 2.11 | 1.16 | 0.176 |
| 20 | 42 | 15 | 15 | 12 | 0.6 | 0.6 | 34.1 | 31.5 | 4.35 | 9 700 | 13 000 | 3CC | 10.5 | 24.5 | 25 | 37.5 | 35 | 39 | 3 | 3 | 0.6 | 0.6 | 0.37 | 1.60 | 0.88 | 0.102 |
| | 47 | 15.25 | 14 | 12 | 1 | 1 | 34.2 | 25.5 | 3.75 | 9 000 | 12 000 | — | 12.9 | 25.5 | 26 | 41.5 | 37 | 44 | 2 | 3 | 1 | 1 | 0.52 | 1.16 | 0.64 | 0.125 |
| | 47 | 15.25 | 14 | 12 | 1 | 1 | 33.8 | 27.2 | 3.80 | 8 700 | 12 000 | 2DB | 11.8 | 25.5 | 27 | 41.5 | 39 | 44 | 2 | 3 | 1 | 1 | 0.35 | 1.74 | 0.96 | 0.127 |
| | 47 | 19.25 | 18 | 15 | 1 | 1 | 41.4 | 34.7 | 4.90 | 8 900 | 12 000 | 2DD | 12.5 | 25.5 | 27 | 41.5 | 39 | 43 | 2 | 4 | 1 | 1 | 0.33 | 1.81 | 1.00 | 0.159 |
| | 47 | 19.25 | 18 | 16 | 1 | 1 | 41.6 | 37.0 | 5.00 | 9 100 | 12 000 | — | 15.3 | 25.5 | 25 | 41.5 | 35 | 45 | 2 | 3 | 1 | 1 | 0.55 | 1.10 | 0.60 | 0.170 |
| | 52 | 16.25 | 16 | 12 | 1.5 | 1.5 | 43.3 | 28.4 | 4.65 | 8 300 | 11 000 | — | 13.5 | 28.5 | 28 | 43.5 | 42 | 49 | 4 | 4 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.170 |
| | 52 | 16.25 | 16 | 13 | 1.5 | 1.5 | 45.3 | 35.1 | 5.05 | 8 300 | 11 000 | — | 11.1 | 28.5 | 28 | 44 | 44 | 47 | 2 | 3 | 1.5 | 1.5 | 0.30 | 2.00 | 1.10 | 0.179 |
| | 52 | 22.25 | 21 | 18 | 1.5 | 1.5 | 52.3 | 44.9 | 6.05 | 8 600 | 12 000 | — | 16.5 | 28.5 | 25 | 43.5 | 37 | 48 | 3 | 4 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.250 |
| | 52 | 22.25 | 21 | 18 | 1.5 | 1.5 | 56.5 | 46.7 | 6.70 | 8 400 | 11 000 | 2FD | 14.4 | 28.5 | 27 | 43.5 | 43 | 47 | 3 | 4 | 1.5 | 1.5 | 0.30 | 2.00 | 1.10 | 0.244 |
| | 22 | 44 | 15 | 15 | 11.5 | 0.6 | 0.6 | 35.4 | 33.6 | 4.65 | 9 100 | 12 000 | 3CC | 11.0 | 26.5 | 27 | 39.5 | 38 | 41 | 3 | 3.5 | 0.6 | 0.6 | 0.40 | 1.51 | 0.83 |
| 47 | | 17 | 17.5 | 13.5 | 1 | 1 | 40.9 | 35.9 | 5.05 | 8 700 | 12 000 | 2CC | 11.3 | 27.5 | 28 | 41.5 | 40 | 44 | 4 | 3.5 | 1 | 1 | 0.33 | 1.79 | 0.99 | 0.138 |
| 50 | | 15.25 | 14 | 12 | 1 | 1 | 32.1 | 25.7 | 3.50 | 8 400 | 11 000 | — | 13.9 | 27.5 | 28 | 44.5 | 40 | 47 | 2 | 3 | 1 | 1 | 0.55 | 1.10 | 0.60 | 0.140 |
| 50 | | 15.25 | 14 | 12 | 1 | 1 | 36.5 | 30.9 | 4.30 | 8 100 | 11 000 | — | 12.2 | 27.5 | 30 | 44.5 | 41 | 46 | 2 | 3 | 1 | 1 | 0.37 | 1.60 | 0.88 | 0.144 |
| 50 | | 19.25 | 18 | 15 | 1 | 1 | 43.8 | 39.1 | 5.35 | 8 400 | 11 000 | — | 15.5 | 27.5 | 28 | 44.5 | 38 | 47 | 2 | 4 | 1 | 1 | 0.55 | 1.10 | 0.60 | 0.170 |
| 50 | | 19.25 | 18 | 15 | 1 | 1 | 46.0 | 41.6 | 5.85 | 8 100 | 11 000 | — | 14.0 | 27.5 | 29 | 44.5 | 41 | 46 | 2 | 4 | 1 | 1 | 0.37 | 1.60 | 0.88 | 0.178 |
| 56 | | 17.25 | 16 | 13 | 1.5 | 1.5 | 43.0 | 33.9 | 4.70 | 7 700 | 10 000 | — | 15.7 | 30.5 | 31 | 47.5 | 44 | 52 | 3 | 4 | 1.5 | 1.5 | 0.59 | 1.02 | 0.56 | 0.210 |
| 56 | | 17.25 | 16 | 14 | 1.5 | 1.5 | 52.2 | 41.1 | 5.95 | 7 500 | 10 000 | — | 12.2 | 30.5 | 32 | 47.5 | 47 | 51 | 2 | 3 | 1.5 | 1.5 | 0.31 | 1.97 | 1.08 | 0.216 |
| 56 | | 22.25 | 21 | 17 | 1.5 | 1.5 | 60.4 | 50.6 | 7.00 | 8 000 | 11 000 | — | 16.9 | 30.5 | 28 | 47.5 | 41 | 52 | 3 | 5 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.290 |
| 56 | | 22.25 | 21 | 18 | 1.5 | 1.5 | 63.3 | 52.7 | 7.70 | 7 600 | 10 000 | — | 14.6 | 30.5 | 31 | 47.5 | 46 | 51 | 3 | 4 | 1.5 | 1.5 | 0.31 | 1.97 | 1.08 | 0.273 |

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

Single-row tapered roller bearings
metric series

d 25 ~ (30) mm

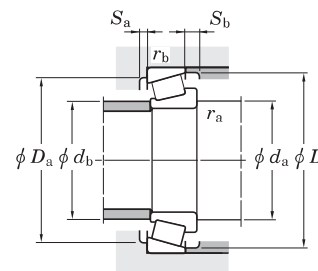
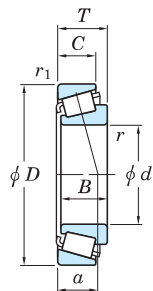


| Boundary dimensions (mm) | | | | | | Basic load ratings (kN) | | Fatigue load limit (kN) Cu | Limiting speeds (min ⁻¹) | | Bearing No. ¹⁾ | Dimension series to ISO355 (Refer.) | Load center (mm) a | Mounting dimensions (mm) | | | | | | | | Constant e | Axial load factors | | (Refer.) Mass (kg) | |
|--------------------------|-------|-------|----|------|-------------------|-------------------------|------|-------------------------------|--------------------------------------|-------------|---------------------------|-------------------------------------|-----------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------|---------------------|----------------|-----------------------|----------------|
| d | D | T | B | C | r _{min.} | r _{1 min.} | Cr | | C _{0r} | Grease lub. | | | | Oil lub. | d _{a min.} | d _{b max.} | D _{a max.} | D _{b min.} | S _{a min.} | S _{b min.} | r _{a max.} | | r _{b max.} | Y ₁ | | Y ₀ |
| 25 | 47 | 15 | 15 | 11.5 | 0.6 | 0.6 | 37.8 | 37.7 | 5.20 | 8 300 | 11 000 | 4CC | 11.8 | 29.5 | 30 | 42.5 | 40 | 44 | 3 | 3.5 | 0.6 | 0.6 | 0.43 | 1.39 | 0.77 | 0.118 |
| | 47 | 17 | 17 | 14 | 0.6 | 0.6 | 42.0 | 42.3 | 5.95 | 8 300 | 11 000 | 2CE | 10.9 | 29.5 | 30 | 42.5 | 41 | 44 | 3 | 3 | 0.6 | 0.6 | 0.29 | 2.07 | 1.14 | 0.131 |
| | 52 | 16.25 | 15 | 12 | 1 | 1 | 38.0 | 32.4 | 4.45 | 7 900 | 11 000 | — | 14.9 | 30.5 | 30 | 46.5 | 41 | 49 | 2 | 4 | 1 | 1 | 0.58 | 1.04 | 0.57 | 0.155 |
| | 52 | 16.25 | 15 | 13 | 1 | 1 | 39.3 | 33.7 | 4.75 | 7 800 | 10 000 | 3CC | 12.9 | 30.5 | 31 | 46.5 | 44 | 48 | 2 | 3 | 1 | 1 | 0.37 | 1.60 | 0.88 | 0.156 |
| | 52 | 19.25 | 18 | 16 | 1 | 1 | 45.5 | 43.2 | 5.90 | 7 900 | 11 000 | — | 16.2 | 30.5 | 30 | 46.5 | 40 | 50 | 2 | 3 | 1 | 1 | 0.55 | 1.10 | 0.60 | 0.200 |
| | 52 | 19.25 | 18 | 16 | 1 | 1 | 49.7 | 44.8 | 6.35 | 7 900 | 11 000 | 2CD | 13.5 | 30.5 | 31 | 46.5 | 43 | 48 | 2 | 4 | 1 | 1 | 0.36 | 1.67 | 0.92 | 0.188 |
| | 52 | 22 | 22 | 18 | 1 | 1 | 61.1 | 58.5 | 8.25 | 7 900 | 10 000 | 2DE | 14.1 | 30.5 | 30 | 46.5 | 43 | 49 | 4 | 4 | 1 | 1 | 0.35 | 1.71 | 0.94 | 0.225 |
| | 62 | 18.25 | 17 | 13 | 1.5 | 1.5 | 49.7 | 42.5 | 5.80 | 5 700 | 8 000 | 7FB | 20.4 | 33.5 | 34 | 53.5 | 47 | 58.5 | 3 | 5 | 1.5 | 1.5 | 0.83 | 0.73 | 0.40 | 0.269 |
| | 62 | 18.25 | 17 | 14 | 1.5 | 1.5 | 56.3 | 45.8 | 6.50 | 6 700 | 9 000 | — | 16.3 | 33.5 | 35 | 53.5 | 50 | 58 | 3 | 4 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.275 |
| | 62 | 18.25 | 17 | 15 | 1.5 | 1.5 | 60.3 | 46.9 | 6.90 | 6 800 | 9 000 | 2FB | 12.9 | 33.5 | 34 | 54 | 54 | 57 | 2 | 3 | 1.5 | 1.5 | 0.30 | 2.00 | 1.10 | 0.273 |
| | 62 | 25.25 | 24 | 19 | 1.5 | 1.5 | 71.6 | 65.8 | 9.20 | 7 000 | 9 300 | — | 18.9 | 33.5 | 33 | 53.5 | 46 | 58 | 3 | 6 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.390 |
| | 62 | 25.25 | 24 | 20 | 1.5 | 1.5 | 76.6 | 64.1 | 9.50 | 6 900 | 9 100 | 2FD | 16.6 | 33.5 | 33 | 53.5 | 52 | 57 | 3 | 5 | 1.5 | 1.5 | 0.30 | 2.00 | 1.10 | 0.386 |
| 28 | 52 | 16 | 16 | 12 | 1 | 1 | 44.1 | 44.0 | 6.10 | 7 500 | 10 000 | 4CC | 12.7 | 33.5 | 33 | 46.5 | 45 | 49 | 3 | 4 | 1 | 1 | 0.43 | 1.39 | 0.77 | 0.150 |
| | 58 | 17.25 | 16 | 13 | 1 | 1 | 48.5 | 41.7 | 5.85 | 7 000 | 9 300 | — | 16.0 | 33.5 | 34 | 52.5 | 47 | 55 | 2 | 4 | 1 | 1 | 0.55 | 1.10 | 0.60 | 0.205 |
| | 58 | 17.25 | 16 | 14 | 1 | 1 | 48.5 | 42.0 | 6.00 | 7 000 | 9 300 | — | 13.4 | 33.5 | 35 | 52.5 | 49 | 54 | 2 | 3 | 1 | 1 | 0.37 | 1.60 | 0.88 | 0.209 |
| | 58 | 20.25 | 19 | 16 | 1 | 1 | 56.1 | 54.1 | 7.50 | 7 100 | 9 400 | — | 17.0 | 33.5 | 33 | 52.5 | 45 | 55 | 3 | 4 | 1 | 1 | 0.55 | 1.10 | 0.60 | 0.255 |
| | 58 | 20.25 | 19 | 16 | 1 | 1 | 61.5 | 55.2 | 7.95 | 6 900 | 9 100 | — | 15.0 | 33.5 | 35 | 52.5 | 49 | 54.5 | 2 | 4 | 1 | 1 | 0.37 | 1.60 | 0.88 | 0.244 |
| | 58 | 24 | 24 | 19 | 1 | 1 | 71.9 | 69.5 | 10.0 | 7 000 | 9 300 | 2DE | 15.4 | 33.5 | 34 | 52.5 | 49 | 55 | 4 | 5 | 1 | 1 | 0.34 | 1.77 | 0.97 | 0.302 |
| | 68 | 19.75 | 18 | 14 | 1.5 | 1.5 | 64.6 | 50.2 | 7.25 | 6 200 | 8 200 | — | 17.8 | 36.5 | 37 | 59.5 | 55 | 64 | 3 | 4.5 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.332 |
| | 68 | 19.75 | 18 | 16 | 1.5 | 1.5 | 66.9 | 54.0 | 8.00 | 6 100 | 8 200 | — | 14.9 | 36.5 | 38 | 59.5 | 58 | 63 | 2 | 3.5 | 1.5 | 1.5 | 0.32 | 1.88 | 1.04 | 0.345 |
| | 68 | 25.75 | 24 | 20 | 1.5 | 1.5 | 83.2 | 72.9 | 10.5 | 6 300 | 8 500 | — | 20.5 | 36.5 | 35 | 59.5 | 51 | 64 | 3 | 5.5 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.480 |
| 68 | 25.75 | 24 | 21 | 1.5 | 1.5 | 87.0 | 75.6 | 11.3 | 6 100 | 8 100 | — | 17.6 | 36.5 | 38 | 59.5 | 57 | 63 | 3 | 4.5 | 1.5 | 1.5 | 0.32 | 1.88 | 1.04 | 0.469 | |
| 30 | 55 | 17 | 17 | 13 | 1 | 1 | 47.9 | 48.0 | 6.75 | 7 000 | 9 400 | 4CC | 13.6 | 35.5 | 35 | 49.5 | 47 | 52 | 3 | 4 | 1 | 1 | 0.43 | 1.39 | 0.77 | 0.177 |
| | 55 | 20 | 20 | 16 | 1 | 1 | 54.1 | 55.2 | 7.90 | 7 000 | 9 400 | 2CE | 13.0 | 35.5 | 36 | 49.5 | 48 | 52 | 3 | 4 | 1 | 1 | 0.29 | 2.06 | 1.13 | 0.203 |
| | 62 | 17.25 | 16 | 13 | 1 | 1 | 52.9 | 45.1 | 6.35 | 6 500 | 8 700 | — | 16.5 | 35.5 | 36 | 56.5 | 51 | 59 | 2 | 4 | 1 | 1 | 0.55 | 1.10 | 0.60 | 0.230 |
| | 62 | 17.25 | 16 | 14 | 1 | 1 | 51.8 | 44.8 | 6.45 | 6 500 | 8 700 | 3DB | 14.1 | 35.5 | 37 | 56.5 | 53 | 57 | 2 | 3 | 1 | 1 | 0.37 | 1.60 | 0.88 | 0.236 |
| | 62 | 21.25 | 20 | 16 | 1 | 1 | 64.6 | 59.0 | 8.30 | 6 600 | 8 900 | — | 18.0 | 35.5 | 36 | 56.5 | 49 | 59 | 3 | 5 | 1 | 1 | 0.55 | 1.10 | 0.60 | 0.300 |
| | 62 | 21.25 | 20 | 17 | 1 | 1 | 63.3 | 57.9 | 8.40 | 6 500 | 8 700 | 3DC | 15.9 | 35.5 | 37 | 56.5 | 52 | 58 | 2 | 4 | 1 | 1 | 0.37 | 1.60 | 0.88 | 0.292 |

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

Single-row tapered roller bearings
metric series

d (30) ~ (35) mm

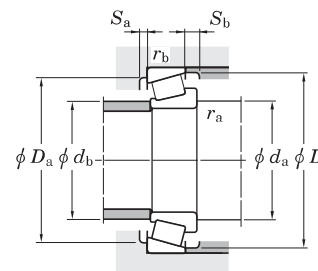
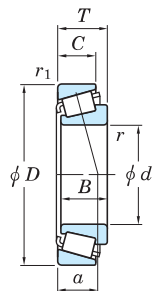


| Boundary dimensions (mm) | | | | | Basic load ratings (kN) | | Fatigue load limit (kN) C _u | Limiting speeds (min ⁻¹) | | Bearing No. ¹⁾ | Dimension series to ISO355 (Refer.) | Load center (mm) a | Mounting dimensions (mm) | | | | | | | | Constant e | Axial load factors | | (Refer.) Mass (kg) | | |
|--------------------------|----|-------|----|------|-------------------------|---------------------|--|--------------------------------------|-----------------|---------------------------|-------------------------------------|--------------------|--------------------------|----------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|---------------------|---------------------|--------------------|----------------|----------------|
| d | D | T | B | C | r _{min.} | r _{1 min.} | | C _r | C _{0r} | | | | Grease lub. | Oil lub. | d _{a min.} | d _{b max.} | D _{a max.} | D _{b min.} | S _{a min.} | S _{b min.} | | r _{a max.} | r _{b max.} | | Y ₁ | Y ₀ |
| 30 | 62 | 25 | 25 | 19.5 | 1 | 1 | 83.1 | 79.4 | 11.6 | 6 500 | 8 700 | 2DE | 16.3 | 35.5 | 36 | 56.5 | 53 | 59 | 5 | 5.5 | 1 | 1 | 0.34 | 1.76 | 0.97 | 0.359 |
| | 72 | 20.75 | 19 | 14 | 1.5 | 1.5 | 63.5 | 54.9 | 7.70 | 4 900 | 6 800 | 7FB | 23.7 | 38.5 | 40 | 63.5 | 55 | 68 | 3 | 6.5 | 1.5 | 1.5 | 0.83 | 0.73 | 0.40 | 0.400 |
| | 72 | 20.75 | 19 | 16 | 1.5 | 1.5 | 71.2 | 55.6 | 8.10 | 5 900 | 7 900 | — | 18.6 | 38.5 | 39 | 63.5 | 58 | 68 | 3 | 4.5 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.405 |
| | 72 | 20.75 | 19 | 16 | 1.5 | 1.5 | 74.4 | 60.1 | 9.00 | 5 800 | 7 700 | 2FB | 15.7 | 38.5 | 40 | 63.5 | 62 | 66 | 3 | 4.5 | 1.5 | 1.5 | 0.31 | 1.90 | 1.05 | 0.411 |
| | 72 | 28.75 | 27 | 23 | 1.5 | 1.5 | 100 | 93.8 | 13.4 | 6 000 | 8 000 | 5FD | 22.0 | 38.5 | 37 | 63.5 | 54 | 68 | 3 | 5.5 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.610 |
| | 72 | 28.75 | 27 | 23 | 1.5 | 1.5 | 103 | 91.6 | 13.8 | 5 900 | 7 900 | 2FD | 18.9 | 38.5 | 39 | 63.5 | 59 | 66 | 3 | 5.5 | 1.5 | 1.5 | 0.31 | 1.90 | 1.05 | 0.588 |
| | 72 | 28.75 | 27 | 23 | 1.5 | 1.5 | 103 | 91.6 | 13.8 | 5 900 | 7 900 | — | 18.9 | 38.5 | 39 | 63.5 | 59 | 66 | 3 | 5.5 | 1.5 | 1.5 | 0.31 | 1.90 | 1.05 | 0.588 |
| 32 | 58 | 17 | 17 | 13 | 1 | 1 | 49.2 | 50.6 | 7.10 | 6 700 | 8 900 | 4CC | 14.3 | 37.5 | 38 | 52.5 | 50 | 55 | 3 | 4 | 1 | 1 | 0.45 | 1.32 | 0.73 | 0.196 |
| | 65 | 18.25 | 17 | 14 | 1 | 1 | 59.3 | 51.5 | 7.35 | 6 200 | 8 300 | — | 17.2 | 37.5 | 38 | 59.5 | 53 | 62 | 3 | 4 | 1 | 1 | 0.55 | 1.10 | 0.60 | 0.275 |
| | 65 | 18.25 | 17 | 15 | 1 | 1 | 60.1 | 51.4 | 7.45 | 6 200 | 8 200 | — | 14.9 | 37.5 | 39 | 59.5 | 55 | 61 | 3 | 3 | 1 | 1 | 0.37 | 1.60 | 0.88 | 0.266 |
| | 65 | 22.25 | 21 | 17 | 1 | 1 | 69.6 | 65.1 | 9.20 | 6 300 | 8 400 | — | 18.7 | 37.5 | 37 | 59.5 | 51 | 62 | 3 | 5 | 1 | 1 | 0.55 | 1.10 | 0.60 | 0.340 |
| | 65 | 22.25 | 21 | 18 | 1 | 1 | 64.5 | 57.7 | 8.45 | 6 200 | 8 200 | — | 16.3 | 37.5 | 40 | 59.5 | 55 | 61 | 2 | 4 | 1 | 1 | 0.37 | 1.60 | 0.88 | 0.330 |
| | 65 | 26 | 26 | 20.5 | 1 | 1 | 89.7 | 86.9 | 12.8 | 6 200 | 8 300 | 2DE | 16.9 | 37.5 | 38 | 59.5 | 55 | 62 | 5 | 5.5 | 1 | 1 | 0.35 | 1.73 | 0.95 | 0.404 |
| | 75 | 21.75 | 20 | 16 | 1.5 | 1.5 | 79.4 | 66.3 | 9.70 | 5 600 | 7 400 | — | 19.7 | 40.5 | 42 | 66.5 | 60 | 70 | 3 | 5.5 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.465 |
| | 75 | 21.75 | 20 | 18 | 1.5 | 1.5 | 80.5 | 65.6 | 9.90 | 5 500 | 7 300 | — | 16.0 | 40.5 | 43 | 66.5 | 64 | 70 | 3 | 3.5 | 1.5 | 1.5 | 0.32 | 1.88 | 1.04 | 0.461 |
| | 75 | 29.75 | 28 | 23 | 1.5 | 1.5 | 93.8 | 87.1 | 12.6 | 5 600 | 7 400 | 5FD | 23.7 | 40.5 | 41 | 66.5 | 57 | 71 | 3 | 6.5 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.649 |
| | 75 | 29.75 | 28 | 25 | 1.5 | 1.5 | 112 | 101 | 15.3 | 5 600 | 7 400 | — | 19.6 | 40.5 | 42 | 66.5 | 63 | 69 | 3 | 4.5 | 1.5 | 1.5 | 0.32 | 1.88 | 1.04 | 0.650 |
| 35 | 55 | 14 | 14 | 11.5 | 0.6 | 0.6 | 32.8 | 36.5 | 5.10 | 6 600 | 8 800 | 2BD | 10.9 | 39.5 | 40 | 50.5 | 49 | 52 | 2.5 | 2.5 | 0.6 | 0.6 | 0.29 | 2.06 | 1.13 | 0.120 |
| | 62 | 18 | 18 | 14 | 1 | 1 | 57.0 | 59.4 | 8.40 | 6 200 | 8 200 | 4CC | 15.1 | 40.5 | 40 | 56.5 | 54 | 59 | 4 | 4 | 1 | 1 | 0.45 | 1.32 | 0.73 | 0.231 |
| | 62 | 21 | 20 | 16 | 1 | 1 | 51.3 | 53.8 | 7.70 | 6 200 | 8 200 | — | 14.8 | 40.5 | 41 | 56.5 | 55 | 59 | 3 | 4 | 1 | 1 | 0.33 | 1.80 | 0.99 | 0.250 |
| | 62 | 21 | 21 | 17 | 1 | 1 | 64.3 | 68.0 | 9.85 | 6 200 | 8 200 | 2CE | 14.2 | 40.5 | 41 | 56.5 | 55 | 59 | 3 | 4 | 1 | 1 | 0.31 | 1.97 | 1.08 | 0.263 |
| | 72 | 18.25 | 17 | 15 | 1.5 | 1.5 | 66.1 | 56.2 | 8.10 | 5 700 | 7 600 | — | 17.9 | 43.5 | 43 | 63.5 | 59 | 68 | 3 | 3 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.350 |
| | 72 | 18.25 | 17 | 15 | 1.5 | 1.5 | 68.8 | 60.9 | 8.95 | 5 600 | 7 400 | 3DB | 15.3 | 43.5 | 44 | 63.5 | 62 | 67 | 3 | 3 | 1.5 | 1.5 | 0.37 | 1.60 | 0.88 | 0.344 |
| | 72 | 24.25 | 23 | 19 | 1.5 | 1.5 | 86.3 | 86.6 | 12.3 | 5 700 | 7 600 | — | 21.1 | 43.5 | 42 | 63.5 | 56 | 68 | 3 | 5 | 1.5 | 1.5 | 0.58 | 1.04 | 0.57 | 0.465 |
| | 72 | 24.25 | 23 | 19 | 1.5 | 1.5 | 86.9 | 82.4 | 12.2 | 5 600 | 7 500 | 3DC | 18.2 | 43.5 | 43 | 63.5 | 61 | 67 | 3 | 5 | 1.5 | 1.5 | 0.37 | 1.60 | 0.88 | 0.453 |
| | 72 | 28 | 28 | 22 | 1.5 | 1.5 | 110 | 107 | 15.8 | 5 700 | 7 500 | 2DE | 18.4 | 43.5 | 42 | 63.5 | 61 | 68 | 5 | 6 | 1.5 | 1.5 | 0.35 | 1.70 | 0.93 | 0.551 |
| | 80 | 22.75 | 21 | 15 | 2 | 1.5 | 78.7 | 69.1 | 9.85 | 4 300 | 6 000 | 7FB | 26.8 | 45 | 44 | 70 | 66 | 76.5 | 3 | 7.5 | 2 | 1.5 | 0.83 | 0.73 | 0.40 | 0.536 |
| | 80 | 22.75 | 21 | 18 | 2 | 1.5 | 87.2 | 77.8 | 11.4 | 5 200 | 7 000 | — | 20.5 | 45 | 45 | 70 | 63 | 74 | 3 | 4.5 | 2 | 1.5 | 0.55 | 1.10 | 0.60 | 0.560 |
| | 80 | 22.75 | 21 | 18 | 2 | 1.5 | 95.2 | 78.9 | 12.0 | 5 200 | 6 900 | 2FB | 16.9 | 45 | 45 | 70 | 70 | 74 | 3 | 4.5 | 2 | 1.5 | 0.31 | 1.90 | 1.05 | 0.527 |

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

Single-row tapered roller bearings
metric series

d (35) ~ (45) mm

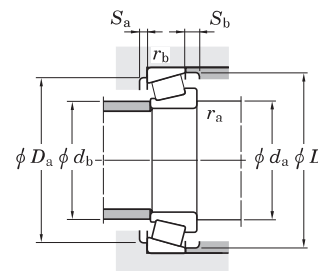
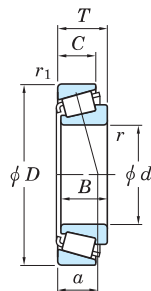


| Boundary dimensions (mm) | | | | | | Basic load ratings (kN) | | Fatigue load limit (kN) Cu | Limiting speeds (min ⁻¹) | | Bearing No. ¹⁾ | Dimension series to ISO355 (Refer.) | Load center (mm) a | Mounting dimensions (mm) | | | | | | | | Constant e | Axial load factors | | (Refer.) Mass (kg) | | |
|--------------------------|-------|-------|------|------|-------------------|-------------------------|------|-------------------------------|--------------------------------------|-------------|---------------------------|-------------------------------------|-----------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------|---------------------|----------------|-----------------------|----------------|-------|
| d | D | T | B | C | r _{min.} | r _{1 min.} | Cr | | C _{0r} | Grease lub. | | | | Oil lub. | d _{a min.} | d _{b max.} | D _{a max.} | D _{b min.} | S _{a min.} | S _{b min.} | r _{a max.} | | r _{b max.} | Y ₁ | | Y ₀ | |
| 35 | 80 | 32.75 | 31 | 25 | 2 | 1.5 | 121 | 123 | 18.0 | 5 200 | 7 000 | TR0708-1R 32307JR | — | 23.8 | 45 | 44 | 70 | 60 | 75 | 3 | 7.5 | 2 | 1.5 | 0.47 | 1.27 | 0.70 | 0.830 |
| | 80 | 32.75 | 31 | 25 | 2 | 1.5 | 126 | 114 | 17.3 | 5 300 | 7 000 | | 2FE | 20.6 | 45 | 44 | 70 | 66 | 74 | 3 | 7.5 | 2 | 1.5 | 0.31 | 1.90 | 1.05 | 0.776 |
| 40 | 62 | 15 | 15 | 12 | 0.6 | 0.6 | 42.1 | 48.5 | 6.90 | 5 900 | 7 800 | 32908JR | 2BC | 11.9 | 44.5 | 45 | 57.5 | 55 | 59 | 3 | 3 | 0.6 | 0.6 | 0.29 | 2.07 | 1.14 | 0.164 |
| | 68 | 19 | 19 | 14.5 | 1 | 1 | 67.2 | 71.4 | 10.3 | 5 600 | 7 400 | 32008JR | 3CD | 15.1 | 45.5 | 46 | 62.5 | 60 | 65 | 4 | 4.5 | 1 | 1 | 0.38 | 1.58 | 0.87 | 0.282 |
| | 68 | 22 | 22 | 18 | 1 | 1 | 75.9 | 84.6 | 12.4 | 5 500 | 7 400 | 33008JR | 2BE | 14.7 | 45.5 | 46 | 62.5 | 60 | 65 | 3 | 4 | 1 | 1 | 0.28 | 2.12 | 1.17 | 0.326 |
| | 75 | 26 | 26 | 20.5 | 1.5 | 1.5 | 103 | 108 | 16.1 | 5 200 | 6 900 | 33108JR | 2CE | 18.3 | 48.5 | 47 | 66.5 | 65 | 71 | 4 | 5.5 | 1.5 | 1.5 | 0.36 | 1.69 | 0.93 | 0.508 |
| | 80 | 19.75 | 18 | 15 | 1.5 | 1.5 | 76.6 | 67.4 | 9.90 | 5 000 | 6 700 | 30208CR | — | 20.2 | 48.5 | 49 | 71.5 | 66 | 76 | 3 | 4.5 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.445 |
| | 80 | 19.75 | 18 | 16 | 1.5 | 1.5 | 78.4 | 69.2 | 10.3 | 5 000 | 6 700 | 30208JR | 3DB | 17.0 | 48.5 | 49 | 71.5 | 69 | 75 | 3 | 3.5 | 1.5 | 1.5 | 0.37 | 1.60 | 0.88 | 0.434 |
| | 80 | 24.75 | 23 | 19 | 1.5 | 1.5 | 98.0 | 93.1 | 13.7 | 5 000 | 6 700 | 32208CR | 5DC | 22.0 | 48.5 | 48 | 71.5 | 64 | 76 | 3 | 5.5 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.570 |
| | 80 | 24.75 | 23 | 19 | 1.5 | 1.5 | 97.0 | 90.8 | 13.6 | 5 000 | 6 600 | 32208JR | 3DC | 19.4 | 48.5 | 48 | 71.5 | 68 | 75 | 3 | 5.5 | 1.5 | 1.5 | 0.37 | 1.60 | 0.88 | 0.554 |
| | 80 | 32 | 32 | 25 | 1.5 | 1.5 | 135 | 139 | 20.8 | 5 000 | 6 700 | 33208JR | 2DE | 20.7 | 48.5 | 47 | 71.5 | 67 | 76 | 5 | 7 | 1.5 | 1.5 | 0.36 | 1.68 | 0.92 | 0.758 |
| | 85 | 33 | 32.5 | 28 | 2.5 | 2 | 143 | 143 | 21.6 | 4 800 | 6 400 | T2EE040 | 2EE | 21.9 | 52 | 48 | 75 | 70 | 80 | 5 | 5 | 2 | 2 | 0.34 | 1.74 | 0.96 | 0.900 |
| | 90 | 25.25 | 23 | 17 | 2 | 1.5 | 100 | 90.2 | 13.1 | 3 800 | 5 300 | 30308DJR | 7FB | 29.9 | 50 | 51 | 80 | 71 | 86.5 | 3 | 8 | 2 | 1.5 | 0.83 | 0.73 | 0.40 | 0.757 |
| | 90 | 25.25 | 23 | 20 | 2 | 1.5 | 109 | 98.5 | 14.8 | 4 600 | 6 100 | 30308XR | — | 23.8 | 50 | 53 | 80 | 72 | 84 | 3 | 5 | 2 | 1.5 | 0.55 | 1.10 | 0.60 | 0.780 |
| | 90 | 25.25 | 23 | 20 | 2 | 1.5 | 113 | 101 | 15.5 | 4 500 | 6 100 | 30308JR | 2FB | 19.9 | 50 | 52 | 80 | 77 | 82 | 3 | 5 | 2 | 1.5 | 0.35 | 1.74 | 0.96 | 0.757 |
| | 90 | 35.25 | 33 | 26 | 2 | 1.5 | 140 | 138 | 20.2 | 4 700 | 6 200 | TR0809AR | — | 27.5 | 50 | 49 | 80 | 67 | 85 | 3 | 9 | 2 | 1.5 | 0.55 | 1.10 | 0.60 | 1.10 |
| 90 | 35.25 | 33 | 27 | 2 | 1.5 | 145 | 139 | 21.3 | 4 600 | 6 200 | 32308JR | 2FD | 24.3 | 50 | 50 | 80 | 73 | 82 | 3 | 8 | 2 | 1.5 | 0.35 | 1.74 | 0.96 | 1.06 | |
| 45 | 68 | 15 | 15 | 12 | 0.6 | 0.6 | 43.5 | 52.4 | 7.45 | 5 300 | 7 100 | 32909JR | 2BC | 12.5 | 49.5 | 50 | 63.5 | 61 | 64 | 3 | 3 | 0.6 | 0.6 | 0.32 | 1.88 | 1.04 | 0.190 |
| | 75 | 20 | 20 | 15.5 | 1 | 1 | 78.8 | 86.5 | 12.6 | 5 000 | 6 600 | 32009JR | 3CC | 16.5 | 50.5 | 51 | 69.5 | 67 | 72 | 4 | 4.5 | 1 | 1 | 0.39 | 1.53 | 0.84 | 0.354 |
| | 75 | 24 | 24 | 19 | 1 | 1 | 87.4 | 101 | 14.9 | 5 000 | 6 700 | 33009JR | 2CE | 16.4 | 50.5 | 51 | 69.5 | 67 | 71 | 4 | 5 | 1 | 1 | 0.29 | 2.04 | 1.12 | 0.416 |
| | 80 | 26 | 26 | 20.5 | 1.5 | 1.5 | 110 | 120 | 17.9 | 4 800 | 6 400 | 33109JR | 3CE | 19.4 | 53.5 | 52 | 71.5 | 69 | 76.5 | 4 | 5.5 | 1.5 | 1.5 | 0.38 | 1.57 | 0.86 | 0.563 |
| | 85 | 20.75 | 19 | 15 | 1.5 | 1.5 | 83.1 | 77.0 | 11.4 | 4 600 | 6 100 | 30209XR | — | 21.1 | 53.5 | 54 | 76.5 | 71 | 80 | 4 | 5.5 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.500 |
| | 85 | 20.75 | 19 | 16 | 1.5 | 1.5 | 83.9 | 77.4 | 11.6 | 4 600 | 6 100 | 30209JR | 3DB | 18.9 | 53.5 | 54 | 76.5 | 74 | 80 | 3 | 4.5 | 1.5 | 1.5 | 0.40 | 1.48 | 0.81 | 0.502 |
| | 85 | 24.75 | 23 | 19 | 1.5 | 1.5 | 101 | 102 | 15.1 | 4 600 | 6 200 | 32209CR | — | 23.0 | 53.5 | 53 | 76.5 | 69 | 81 | 3 | 5.5 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.625 |
| | 85 | 24.75 | 23 | 19 | 1.5 | 1.5 | 105 | 104 | 15.6 | 4 600 | 6 100 | 32209JR-1 | 3DC | 20.3 | 53.5 | 53 | 76.5 | 73 | 81 | 3 | 5.5 | 1.5 | 1.5 | 0.40 | 1.48 | 0.81 | 0.597 |
| | 85 | 32 | 32 | 25 | 1.5 | 1.5 | 139 | 149 | 22.3 | 4 600 | 6 200 | 33209JR | 3DE | 21.8 | 53.5 | 52 | 76.5 | 72 | 81 | 5 | 7 | 1.5 | 1.5 | 0.39 | 1.56 | 0.86 | 0.818 |
| | 95 | 29 | 26.5 | 20 | 2.5 | 2.5 | 118 | 118 | 17.0 | 3 600 | 5 100 | T7FC045 | 7FC | 32.6 | 57 | 54 | 83 | 71 | 91 | 3 | 9 | 2 | 2 | 0.87 | 0.69 | 0.38 | 0.943 |
| | 95 | 36 | 35 | 30 | 2.5 | 2.5 | 175 | 177 | 27.2 | 4 300 | 5 700 | T2ED045 | 2ED | 23.8 | 57 | 55 | 83 | 80 | 89 | 6 | 6 | 2 | 2 | 0.32 | 1.86 | 1.02 | 1.20 |

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

Single-row tapered roller bearings
metric series

d (45) ~ (55) mm

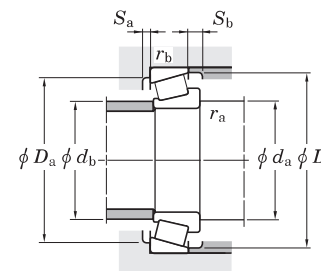
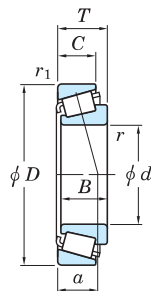


| Boundary dimensions (mm) | | | | | | Basic load ratings (kN) | | Fatigue load limit (kN) Cu | Limiting speeds (min ⁻¹) | | Bearing No. ¹⁾ | Dimension series to ISO355 (Refer.) | Load center (mm) a | Mounting dimensions (mm) | | | | | | | | Constant e | Axial load factors | | (Refer.) Mass (kg) | | |
|--------------------------|-------|-------|----|------|-------------------|-------------------------|------|-------------------------------|--------------------------------------|-------------|---------------------------|-------------------------------------|-----------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------|---------------------|----------------|-----------------------|----------------|-------|
| d | D | T | B | C | r _{min.} | r _{1 min.} | Cr | | C _{0r} | Grease lub. | | | | Oil lub. | d _{a min.} | d _{b max.} | D _{a max.} | D _{b min.} | S _{a min.} | S _{b min.} | r _{a max.} | | r _{b max.} | Y ₁ | | Y ₀ | |
| 45 | 100 | 27.25 | 25 | 18 | 2 | 1.5 | 119 | 107 | 15.8 | 3 400 | 4 700 | 30309DJR | 7FB | 32.9 | 55 | 56 | 90 | 79 | 96 | 3 | 9 | 2 | 1.5 | 0.83 | 0.73 | 0.40 | 0.973 |
| | 100 | 27.25 | 25 | 20 | 2 | 1.5 | 136 | 119 | 18.1 | 4 100 | 5 500 | 30309CR | — | 25.7 | 55 | 57 | 90 | 81 | 94 | 4 | 7 | 2 | 1.5 | 0.55 | 1.10 | 0.60 | 1.00 |
| | 100 | 27.25 | 25 | 22 | 2 | 1.5 | 141 | 128 | 19.9 | 4 100 | 5 400 | 30309JR | 2FB | 21.3 | 55 | 59 | 90 | 86 | 93 | 3 | 5 | 2 | 1.5 | 0.35 | 1.74 | 0.96 | 1.01 |
| | 100 | 38.25 | 36 | 29 | 2 | 1.5 | 181 | 182 | 27.0 | 4 200 | 5 600 | 32309CR | — | 30.3 | 55 | 56 | 90 | 76 | 95 | 4 | 9 | 2 | 1.5 | 0.55 | 1.10 | 0.60 | 1.45 |
| | 100 | 38.25 | 36 | 30 | 2 | 1.5 | 183 | 180 | 27.7 | 4 100 | 5 500 | 32309JR | 2FD | 26.8 | 55 | 56 | 90 | 82 | 93 | 3 | 8 | 2 | 1.5 | 0.35 | 1.74 | 0.96 | 1.43 |
| 50 | 72 | 15 | 15 | 12 | 0.6 | 0.6 | 45.0 | 56.3 | 8.00 | 4 900 | 6 600 | 32910JR | 2BC | 13.7 | 54.5 | 55 | 67.5 | 65 | 69 | 3 | 3 | 0.6 | 0.6 | 0.34 | 1.76 | 0.97 | 0.195 |
| | 80 | 20 | 20 | 15.5 | 1 | 1 | 82.7 | 94.5 | 13.8 | 4 600 | 6 100 | 32010JR | 3CC | 17.7 | 55.5 | 56 | 74.5 | 72 | 77 | 4 | 4.5 | 1 | 1 | 0.42 | 1.42 | 0.78 | 0.389 |
| | 80 | 24 | 24 | 19 | 1 | 1 | 91.8 | 110 | 16.3 | 4 600 | 6 100 | 33010JR | 2CE | 17.4 | 55.5 | 56 | 74.5 | 72 | 76 | 4 | 5 | 1 | 1 | 0.32 | 1.90 | 1.04 | 0.451 |
| | 85 | 26 | 26 | 20 | 1.5 | 1.5 | 112 | 127 | 18.9 | 4 400 | 5 900 | 33110JR | 3CE | 20.6 | 58.5 | 56 | 76.5 | 74 | 81.5 | 4 | 6 | 1.5 | 1.5 | 0.41 | 1.46 | 0.80 | 0.594 |
| | 90 | 21.75 | 20 | 16 | 1.5 | 1.5 | 96.7 | 95.8 | 14.3 | 4 300 | 5 700 | 30210CR | — | 22.7 | 58.5 | 58 | 81.5 | 76 | 86 | 4 | 5.5 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.590 |
| | 90 | 21.75 | 20 | 17 | 1.5 | 1.5 | 95.6 | 91.7 | 13.8 | 4 300 | 5 700 | 30210JR | 3DB | 20.1 | 58.5 | 58 | 81.5 | 79 | 85 | 3 | 4.5 | 1.5 | 1.5 | 0.42 | 1.43 | 0.79 | 0.566 |
| | 90 | 24.75 | 23 | 19 | 1.5 | 1.5 | 106 | 113 | 16.7 | 4 300 | 5 700 | 32210CR | — | 24.0 | 58.5 | 58 | 81.5 | 74 | 86 | 3 | 5.5 | 1.5 | 1.5 | 0.55 | 1.10 | 0.60 | 0.675 |
| | 90 | 24.75 | 23 | 19 | 1.5 | 1.5 | 106 | 105 | 15.9 | 4 300 | 5 700 | 32210JR | 3DC | 20.6 | 58.5 | 58 | 81.5 | 78 | 85 | 3 | 5.5 | 1.5 | 1.5 | 0.42 | 1.43 | 0.79 | 0.643 |
| | 90 | 32 | 32 | 24.5 | 1.5 | 1.5 | 150 | 167 | 25.0 | 4 300 | 5 700 | 33210JR | 3DE | 23.1 | 58.5 | 57 | 81.5 | 77 | 86.5 | 5 | 7.5 | 1.5 | 1.5 | 0.41 | 1.45 | 0.80 | 0.887 |
| | 100 | 36 | 35 | 30 | 2.5 | 2.5 | 196 | 196 | 30.2 | 4 100 | 5 400 | T2ED050 | 2ED | 24.5 | 62 | 58 | 88 | 84 | 94 | 6 | 6 | 2 | 2 | 0.34 | 1.75 | 0.96 | 1.28 |
| | 105 | 32 | 29 | 22 | 3 | 3 | 141 | 140 | 20.3 | 3 300 | 4 600 | T7FC050 | 7FC | 35.9 | 64 | 59 | 91 | 78 | 100 | 4 | 10 | 2.5 | 2.5 | 0.87 | 0.69 | 0.38 | 1.25 |
| | 110 | 29.25 | 27 | 19 | 2.5 | 2 | 144 | 133 | 19.8 | 3 100 | 4 300 | 30310DJR | 7FB | 35.0 | 62 | 62 | 98 | 87 | 105 | 3 | 10 | 2 | 2 | 0.83 | 0.73 | 0.40 | 1.25 |
| | 110 | 29.25 | 27 | 20 | 2.5 | 2 | 155 | 143 | 21.9 | 3 700 | 4 900 | 30310CR | — | 27.5 | 62 | 64 | 98 | 90 | 103 | 4 | 9 | 2 | 2 | 0.55 | 1.10 | 0.60 | 1.25 |
| | 110 | 29.25 | 27 | 23 | 2.5 | 2 | 172 | 152 | 24.0 | 3 700 | 4 900 | 30310JR | 2FB | 22.9 | 62 | 65 | 98 | 95 | 102 | 3 | 6 | 2 | 2 | 0.35 | 1.74 | 0.96 | 1.32 |
| | 110 | 42.25 | 40 | 33 | 2.5 | 2 | 214 | 234 | 34.6 | 3 800 | 5 100 | 32310CR | 5FD | 33.4 | 62 | 61 | 98 | 81 | 103 | 4 | 9 | 2 | 2 | 0.55 | 1.10 | 0.60 | 2.00 |
| 110 | 42.25 | 40 | 33 | 2.5 | 2 | 221 | 220 | 34.2 | 3 700 | 5 000 | 32310JR | 2FD | 29.4 | 62 | 62 | 98 | 90 | 102 | 3 | 9 | 2 | 2 | 0.35 | 1.74 | 0.96 | 1.89 | |
| 55 | 80 | 17 | 17 | 14 | 1 | 1 | 55.8 | 73.3 | 10.6 | 4 400 | 5 900 | 32911JR | 2BC | 14.5 | 61 | 61 | 74 | 72 | 76 | 3 | 3 | 1 | 1 | 0.31 | 1.94 | 1.07 | 0.285 |
| | 90 | 23 | 23 | 17.5 | 1.5 | 1.5 | 106 | 121 | 18.2 | 4 100 | 5 500 | 32011JR | 3CC | 19.8 | 63.5 | 63 | 81.5 | 81 | 86 | 4 | 5.5 | 1.5 | 1.5 | 0.41 | 1.48 | 0.81 | 0.569 |
| | 90 | 27 | 27 | 21 | 1.5 | 1.5 | 121 | 149 | 22.6 | 4 100 | 5 400 | 33011JR | 2CE | 19.3 | 63.5 | 63 | 81.5 | 81 | 86 | 5 | 6 | 1.5 | 1.5 | 0.31 | 1.92 | 1.06 | 0.672 |
| | 95 | 30 | 30 | 23 | 1.5 | 1.5 | 145 | 161 | 24.6 | 4 000 | 5 300 | 33111JR | 3CE | 22.5 | 63.5 | 62 | 86.5 | 83 | 91 | 5 | 7 | 1.5 | 1.5 | 0.37 | 1.60 | 0.88 | 0.868 |
| | 100 | 22.75 | 21 | 17 | 2 | 1.5 | 112 | 108 | 16.2 | 3 900 | 5 200 | 30211CR | — | 24.3 | 65 | 63 | 90 | 84 | 95 | 4 | 5.5 | 2 | 1.5 | 0.55 | 1.10 | 0.60 | 0.750 |
| | 100 | 22.75 | 21 | 18 | 2 | 1.5 | 118 | 113 | 17.3 | 3 900 | 5 200 | 30211JR | 3DB | 20.7 | 65 | 64 | 90 | 88 | 94 | 4 | 4.5 | 2 | 1.5 | 0.40 | 1.48 | 0.81 | 0.732 |
| | 100 | 26.75 | 25 | 21 | 2 | 1.5 | 134 | 135 | 20.4 | 3 900 | 5 200 | 32211CR | — | 25.9 | 65 | 64 | 90 | 83 | 96 | 4 | 5.5 | 2 | 1.5 | 0.55 | 1.10 | 0.60 | 0.875 |

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

Single-row tapered roller bearings
metric series

d (55) ~ (65) mm

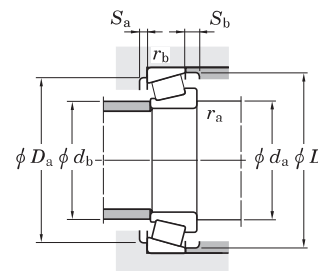
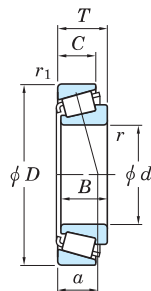


| Boundary dimensions (mm) | | | | | | Basic load ratings (kN) | | Fatigue load limit (kN) Cu | Limiting speeds (min ⁻¹) | | Bearing No. ¹⁾ | Dimension series to ISO355 (Refer.) | Load center (mm) a | Mounting dimensions (mm) | | | | | | | | Constant e | Axial load factors | | (Refer.) Mass (kg) | | | |
|--------------------------|-----|-------|------|------|-------------------|-------------------------|-----|-------------------------------|--------------------------------------|-------------|---------------------------|-------------------------------------|-----------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------|---------------------|----------------|-----------------------|----------------|-------|-------|
| d | D | T | B | C | r _{min.} | r _{1 min.} | Cr | | C _{0r} | Grease lub. | | | | Oil lub. | d _{a min.} | d _{b max.} | D _{a max.} | D _{b min.} | S _{a min.} | S _{b min.} | r _{a max.} | | r _{b max.} | Y ₁ | | Y ₀ | | |
| 55 | 100 | 26.75 | 25 | 21 | 2 | 1.5 | 134 | 133 | 20.5 | 3 900 | 5 200 | 32211JR-1 | 3DC | 23.0 | 65 | 63 | 90 | 87 | 95 | 4 | 5.5 | 2 | 1.5 | 0.40 | 1.48 | 0.81 | 0.863 | |
| | 100 | 35 | 35 | 27 | 2 | 1.5 | 178 | 189 | 28.9 | 3 900 | 5 200 | 33211JR | 3DE | 25.3 | 65 | 62 | 90 | 85 | 96 | 6 | 8 | 2 | 1.5 | 0.40 | 1.50 | 0.83 | 1.18 | |
| | 115 | 34 | 31 | 23.5 | 3 | 3 | 161 | 164 | 23.9 | 3 000 | 4 200 | T7FC055 | 7FC | 38.6 | 69 | 65 | 101 | 86 | 109 | 4 | 10.5 | 2.5 | 2.5 | 0.87 | 0.69 | 0.38 | 1.59 | |
| | 120 | 31.5 | 29 | 21 | 2.5 | 2 | 161 | 148 | 22.3 | 2 900 | 4 000 | 30311DJR | 7FB | 38.4 | 67 | 68 | 108 | 94 | 113 | 4 | 10.5 | 2 | 2 | 0.83 | 0.73 | 0.40 | 1.59 | |
| | 120 | 31.5 | 29 | 22 | 2.5 | 2 | 180 | 161 | 24.8 | 3 400 | 4 500 | 30311CR | — | 29.8 | 67 | 70 | 108 | 97 | 112 | 4.5 | 9.5 | 2 | 2 | 0.55 | 1.10 | 0.60 | 1.58 | |
| | 120 | 31.5 | 29 | 25 | 2.5 | 2 | 187 | 170 | 27.0 | 3 300 | 4 500 | 30311JR | 2FB | 25.5 | 67 | 71 | 108 | 104 | 111 | 4 | 6.5 | 2 | 2 | 0.35 | 1.74 | 0.96 | 1.65 | |
| | 120 | 45.5 | 43 | 35 | 2.5 | 2 | 230 | 247 | 36.9 | 3 400 | 4 600 | 32311C | 5FD | 35.9 | 67 | 67 | 108 | 90 | 113 | 4 | 10 | 2 | 2 | 0.55 | 1.10 | 0.60 | 2.45 | |
| | 120 | 45.5 | 43 | 35 | 2.5 | 2 | 214 | 203 | 31.8 | 3 400 | 4 500 | 32311J | 2FD | 32.4 | 67 | 68 | 108 | 99 | 111 | 4 | 10.5 | 2 | 2 | 0.35 | 1.74 | 0.96 | 2.24 | |
| | 120 | 45.5 | 43 | 35 | 2.5 | 2 | 250 | 250 | 39.1 | 3 400 | 4 500 | 32311JR | 2FD | 32.4 | 67 | 68 | 108 | 99 | 111 | 4 | 10.5 | 2 | 2 | 0.35 | 1.74 | 0.96 | 2.38 | |
| | 60 | 85 | 17 | 17 | 14 | 1 | 1 | 57.6 | 78.2 | 11.3 | 4 100 | 5 500 | 32912JR | 2BC | 15.6 | 65.5 | 66 | 79.5 | 77 | 81 | 3 | 3 | 1 | 1 | 0.33 | 1.81 | 1.00 | 0.306 |
| 95 | | 23 | 23 | 17.5 | 1.5 | 1.5 | 108 | 127 | 19.0 | 3 900 | 5 200 | 32012JR | 4CC | 21.0 | 68.5 | 67 | 86.5 | 85 | 91 | 4 | 5.5 | 1.5 | 1.5 | 0.43 | 1.39 | 0.77 | 0.621 | |
| 95 | | 27 | 27 | 21 | 1.5 | 1.5 | 127 | 162 | 24.5 | 3 900 | 5 200 | 33012JR | 2CE | 20.1 | 68.5 | 67 | 86.5 | 85 | 90 | 5 | 6 | 1.5 | 1.5 | 0.33 | 1.83 | 1.01 | 0.719 | |
| 100 | | 30 | 30 | 23 | 1.5 | 1.5 | 149 | 170 | 25.9 | 3 700 | 5 000 | 33112JR | 3CE | 23.7 | 68.5 | 67 | 91.5 | 88 | 96 | 5 | 7 | 1.5 | 1.5 | 0.40 | 1.51 | 0.83 | 0.923 | |
| 110 | | 23.75 | 22 | 17 | 2 | 1.5 | 127 | 123 | 18.8 | 3 500 | 4 700 | 30212CR | — | 26.2 | 70 | 70 | 100 | 93 | 104 | 4 | 6.5 | 2 | 1.5 | 0.55 | 1.10 | 0.60 | 0.930 | |
| 110 | | 23.75 | 22 | 19 | 2 | 1.5 | 133 | 127 | 19.7 | 3 500 | 4 700 | 30212JR | 3EB | 21.9 | 70 | 70 | 100 | 96 | 103 | 4 | 4.5 | 2 | 1.5 | 0.40 | 1.48 | 0.81 | 0.945 | |
| 110 | | 29.75 | 28 | 22 | 2 | 1.5 | 160 | 164 | 25.1 | 3 600 | 4 700 | 32212CR | — | 28.6 | 70 | 68 | 100 | 91 | 105 | 4 | 7.5 | 2 | 1.5 | 0.55 | 1.10 | 0.60 | 1.20 | |
| 110 | | 29.75 | 28 | 24 | 2 | 1.5 | 164 | 167 | 25.9 | 3 500 | 4 700 | 32212JR | 3EC | 25.1 | 70 | 69 | 100 | 95 | 104 | 4 | 5.5 | 2 | 1.5 | 0.40 | 1.48 | 0.81 | 1.19 | |
| 110 | | 38 | 38 | 29 | 2 | 1.5 | 217 | 239 | 36.6 | 3 600 | 4 700 | 33212JR | 3EE | 27.2 | 70 | 69 | 100 | 93 | 105 | 6 | 9 | 2 | 1.5 | 0.40 | 1.48 | 0.82 | 1.57 | |
| 115 | | 39 | 38 | 31 | 4 | 2.5 | 198 | 227 | 34.0 | 3 400 | 4 600 | T5ED060 | 5ED | 32.4 | 78 | 70 | 103 | 92 | 110 | 5 | 8 | 3 | 2 | 0.53 | 1.13 | 0.62 | 1.81 | |
| 115 | | 40 | 39 | 33 | 2.5 | 2.5 | 229 | 242 | 37.7 | 3 400 | 4 600 | T2EE060 | 2EE | 27.6 | 72 | 70 | 103 | 98 | 109 | 6 | 7 | 2 | 2 | 0.33 | 1.80 | 0.99 | 1.80 | |
| 125 | | 37 | 33.5 | 26 | 3 | 3 | 191 | 194 | 28.8 | 2 800 | 3 900 | T7FC060 | 7FC | 40.8 | 74 | 71 | 111 | 94 | 119 | 4 | 11 | 2.5 | 2.5 | 0.82 | 0.73 | 0.40 | 2.03 | |
| 130 | | 33.5 | 31 | 22 | 3 | 2.5 | 191 | 179 | 27.1 | 2 600 | 3 700 | 30312DJR | 7FB | 40.8 | 74 | 73 | 118 | 103 | 124 | 4 | 11.5 | 2.5 | 2 | 0.83 | 0.73 | 0.40 | 2.01 | |
| 130 | | 33.5 | 31 | 23 | 3 | 2.5 | 211 | 196 | 30.5 | 3 100 | 4 200 | 30312CR | — | 31.9 | 74 | 75 | 118 | 105 | 121 | 5 | 10.5 | 2.5 | 2 | 0.55 | 1.10 | 0.60 | 1.99 | |
| 130 | | 33.5 | 31 | 26 | 3 | 2.5 | 217 | 201 | 31.9 | 3 100 | 4 100 | 30312JR | 2FB | 26.9 | 74 | 77 | 118 | 112 | 120 | 4 | 7.5 | 2.5 | 2 | 0.35 | 1.74 | 0.96 | 2.08 | |
| 130 | | 48.5 | 46 | 37 | 3 | 2.5 | 286 | 310 | 41.4 | 3 200 | 4 300 | 32312CR | 5FD | 38.3 | 74 | 73 | 118 | 98 | 122 | 5 | 11 | 2.5 | 2 | 0.55 | 1.10 | 0.60 | 3.15 | |
| 130 | | 48.5 | 46 | 37 | 3 | 2.5 | 277 | 275 | 38.6 | 3 100 | 4 200 | 32312J | 2FD | 32.3 | 74 | 74 | 118 | 107 | 120 | 4 | 11.5 | 2.5 | 2 | 0.35 | 1.74 | 0.96 | 2.87 | |
| 130 | | 48.5 | 46 | 37 | 3 | 2.5 | 306 | 315 | 44.1 | 3 100 | 4 200 | 32312JR | 2FD | 32.3 | 74 | 74 | 118 | 107 | 120 | 4 | 11.5 | 2.5 | 2 | 0.35 | 1.74 | 0.96 | 2.99 | |
| 65 | | 90 | 17 | 17 | 14 | 1 | 1 | 59.2 | 83.1 | 12.0 | 3 900 | 5 200 | 32913JR | 2BC | 16.8 | 70.5 | 70 | 84.5 | 81 | 86 | 3 | 3 | 1 | 1 | 0.35 | 1.70 | 0.93 | 0.327 |

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

Single-row tapered roller bearings
metric series

d (65) ~ (70) mm

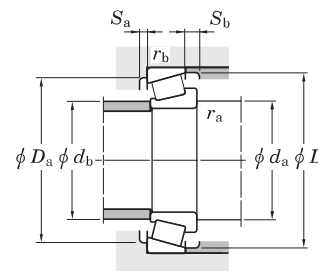
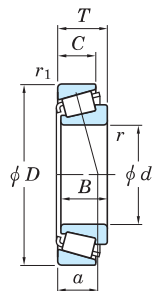


| Boundary dimensions (mm) | | | | | | Basic load ratings (kN) | | Fatigue load limit (kN) | Limiting speeds (min ⁻¹) | | Bearing No. ¹⁾ | Dimension series to ISO355 (Refer.) | Load center (mm) a | Mounting dimensions (mm) | | | | | | | | Constant e | Axial load factors | | (Refer.) Mass (kg) | |
|--------------------------|-----|-------|------|------|------------------|-------------------------|----------------|-------------------------|--------------------------------------|-------------|---------------------------|-------------------------------------|--------------------|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------|--------------------|----------------|--------------------|----------------|
| d | D | T | B | C | r _{min} | r _{1 min} | C _r | C _{0r} | C _u | Grease lub. | | | | Oil lub. | d _{a min} | d _{b max} | D _{a max} | D _{b min} | S _{a min} | S _{b min} | r _{a max} | | r _{b max} | Y ₁ | | Y ₀ |
| 65 | 100 | 23 | 23 | 17.5 | 1.5 | 1.5 | 113 | 137 | 20.6 | 3 600 | 4 800 | 4CC | 22.5 | 73.5 | 72 | 91.5 | 90 | 97 | 4 | 5.5 | 1.5 | 1.5 | 0.46 | 1.31 | 0.72 | 0.664 |
| | 100 | 27 | 27 | 21 | 1.5 | 1.5 | 129 | 169 | 25.5 | 3 600 | 4 800 | 2CE | 21.1 | 73.5 | 72 | 91.5 | 89 | 96 | 5 | 6 | 1.5 | 1.5 | 0.35 | 1.72 | 0.95 | 0.762 |
| | 110 | 34 | 34 | 26.5 | 1.5 | 1.5 | 191 | 223 | 34.3 | 3 400 | 4 600 | 3DE | 25.9 | 73.5 | 73 | 101.5 | 96 | 106 | 6 | 7.5 | 1.5 | 1.5 | 0.39 | 1.55 | 0.85 | 1.33 |
| | 120 | 24.75 | 23 | 18 | 2 | 1.5 | 145 | 139 | 21.5 | 3 200 | 4 300 | — | 28.1 | 75 | 77 | 110 | 102 | 114 | 4 | 6.5 | 2 | 1.5 | 0.55 | 1.10 | 0.60 | 1.15 |
| | 120 | 24.75 | 23 | 20 | 2 | 1.5 | 160 | 156 | 24.3 | 3 200 | 4 300 | 3EB | 24.2 | 75 | 77 | 110 | 106 | 113 | 4 | 4.5 | 2 | 1.5 | 0.40 | 1.48 | 0.81 | 1.18 |
| | 120 | 32.75 | 31 | 24 | 2 | 1.5 | 190 | 198 | 30.4 | 3 200 | 4 300 | — | 31.3 | 75 | 75 | 110 | 99 | 114 | 4 | 8.5 | 2 | 1.5 | 0.55 | 1.10 | 0.60 | 1.55 |
| | 120 | 32.75 | 31 | 27 | 2 | 1.5 | 196 | 203 | 31.7 | 3 200 | 4 300 | 3EC | 26.6 | 75 | 76 | 110 | 104 | 115 | 4 | 5.5 | 2 | 1.5 | 0.40 | 1.48 | 0.81 | 1.58 |
| | 120 | 39 | 38 | 31 | 4 | 2.5 | 190 | 232 | 34.7 | 3 200 | 4 300 | 5ED | 34.1 | 83 | 75 | 108 | 96 | 115 | 5 | 8 | 3 | 2 | 0.56 | 1.07 | 0.59 | 1.93 |
| | 120 | 41 | 41 | 32 | 2 | 1.5 | 250 | 277 | 43.0 | 3 200 | 4 300 | 3EE | 30.0 | 75 | 74 | 110 | 102 | 115 | 7 | 9 | 2 | 1.5 | 0.39 | 1.54 | 0.85 | 2.02 |
| | 130 | 37 | 33.5 | 26 | 3 | 3 | 186 | 211 | 31.2 | 2 600 | 3 600 | 7FC | 44.4 | 79 | 78 | 116 | 98 | 124 | 4 | 11 | 2.5 | 2.5 | 0.87 | 0.69 | 0.38 | 2.17 |
| | 140 | 36 | 33 | 23 | 3 | 2.5 | 220 | 209 | 31.4 | 2 400 | 3 400 | 7GB | 44.3 | 79 | 79 | 128 | 111 | 133 | 4 | 13 | 2.5 | 2 | 0.83 | 0.73 | 0.40 | 2.44 |
| | 140 | 36 | 33 | 25 | 3 | 2.5 | 241 | 227 | 35.1 | 2 900 | 3 900 | — | 34.3 | 79 | 81 | 128 | 113 | 130 | 5 | 11 | 2.5 | 2 | 0.55 | 1.10 | 0.60 | 2.44 |
| | 140 | 36 | 33 | 28 | 3 | 2.5 | 255 | 239 | 37.6 | 2 800 | 3 800 | 2GB | 29.3 | 79 | 83 | 128 | 122 | 130 | 4 | 8 | 2.5 | 2 | 0.35 | 1.74 | 0.96 | 2.56 |
| | 140 | 51 | 48 | 39 | 3 | 2.5 | 322 | 361 | 49.0 | 2 900 | 3 900 | 5GD | 40.9 | 79 | 79 | 128 | 106 | 131 | 5 | 12 | 2.5 | 2 | 0.55 | 1.10 | 0.60 | 3.85 |
| | 140 | 51 | 48 | 39 | 3 | 2.5 | 313 | 312 | 43.4 | 2 900 | 3 900 | 2GD | 34.7 | 79 | 80 | 128 | 117 | 130 | 4 | 12 | 2.5 | 2 | 0.35 | 1.74 | 0.96 | 3.49 |
| | 140 | 51 | 48 | 39 | 3 | 2.5 | 346 | 357 | 49.6 | 2 900 | 3 900 | 2GD | 34.7 | 79 | 80 | 128 | 117 | 130 | 4 | 12 | 2.5 | 2 | 0.35 | 1.74 | 0.96 | 3.64 |
| 70 | 100 | 20 | 20 | 16 | 1 | 1 | 89.0 | 115 | 17.2 | 3 500 | 4 700 | 2BC | 17.8 | 75.5 | 77 | 94.5 | 91 | 96 | 4 | 4 | 1 | 1 | 0.32 | 1.90 | 1.05 | 0.496 |
| | 110 | 25 | 25 | 19 | 1.5 | 1.5 | 136 | 163 | 24.8 | 3 300 | 4 400 | 4CC | 23.6 | 78.5 | 78 | 101.5 | 98 | 105 | 5 | 6 | 1.5 | 1.5 | 0.43 | 1.38 | 0.76 | 0.884 |
| | 110 | 31 | 31 | 25.5 | 1.5 | 1.5 | 168 | 208 | 32.3 | 3 300 | 4 400 | 2CE | 22.1 | 78.5 | 78 | 101.5 | 99 | 105 | 5 | 5.5 | 1.5 | 1.5 | 0.28 | 2.11 | 1.16 | 1.09 |
| | 120 | 37 | 37 | 29 | 2 | 1.5 | 227 | 266 | 41.2 | 3 100 | 4 200 | 3DE | 28.0 | 80 | 79 | 110 | 104 | 115 | 6 | 8 | 2 | 1.5 | 0.38 | 1.58 | 0.87 | 1.71 |
| | 125 | 26.25 | 24 | 19 | 2 | 1.5 | 158 | 158 | 24.5 | 3 000 | 4 000 | — | 29.9 | 80 | 82 | 116.5 | 107 | 119 | 4 | 7 | 2 | 1.5 | 0.55 | 1.10 | 0.60 | 1.30 |
| | 125 | 26.25 | 24 | 21 | 2 | 1.5 | 173 | 173 | 27.1 | 3 100 | 4 100 | 3EB | 25.9 | 80 | 81 | 116.5 | 110 | 118 | 4 | 5 | 2 | 1.5 | 0.42 | 1.43 | 0.79 | 1.32 |
| | 125 | 33.25 | 31 | 24 | 2 | 1.5 | 197 | 212 | 32.6 | 3 100 | 4 100 | — | 32.6 | 80 | 80 | 116.5 | 104 | 120 | 4 | 9.5 | 2 | 1.5 | 0.55 | 1.10 | 0.60 | 1.65 |
| | 125 | 33.25 | 31 | 27 | 2 | 1.5 | 212 | 225 | 35.2 | 3 100 | 4 100 | 3EC | 29.2 | 80 | 80 | 116.5 | 108 | 119 | 4 | 6 | 2 | 1.5 | 0.42 | 1.43 | 0.79 | 1.71 |
| | 125 | 41 | 41 | 32 | 2 | 1.5 | 258 | 294 | 45.5 | 3 100 | 4 100 | 3EE | 31.2 | 80 | 79 | 116.5 | 107 | 120 | 7 | 9 | 2 | 1.5 | 0.41 | 1.47 | 0.81 | 2.16 |
| | 130 | 43 | 42 | 35 | 3 | 2.5 | 291 | 319 | 50.0 | 3 000 | 4 000 | 2ED | 30.2 | 84 | 81 | 118 | 111 | 123 | 1 | 1 | 2.5 | 2 | 0.33 | 1.80 | 0.99 | 2.48 |
| | 140 | 39 | 35.5 | 27 | 3 | 3 | 222 | 242 | 35.8 | 2 400 | 3 400 | 7FC | 46.5 | 84 | 82 | 126 | 106 | 133 | 5 | 12 | 2.5 | 2.5 | 0.87 | 0.69 | 0.38 | 2.64 |
| | 140 | 52 | 51 | 43 | 5 | 3 | 330 | 382 | 51.6 | 2 900 | 3 800 | 4FE | 37.7 | 92 | 82 | 126 | 111 | 133 | 7 | 9 | 4 | 2.5 | 0.45 | 1.34 | 0.74 | 3.69 |

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

Single-row tapered roller bearings
metric series

d (70) ~ (80) mm

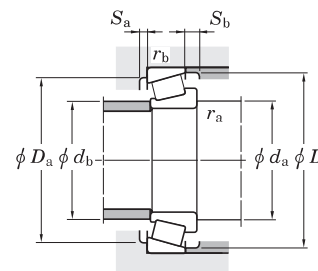
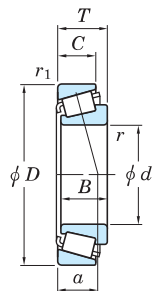


| Boundary dimensions (mm) | | | | | | Basic load ratings (kN) | | Fatigue load limit (kN) | Limiting speeds (min ⁻¹) | | Bearing No. ¹⁾ | Dimension series to ISO355 (Refer.) | Load center (mm) a | Mounting dimensions (mm) | | | | | | | | Constant e | Axial load factors | | (Refer.) Mass (kg) | | |
|--------------------------|-----|-------|----|------|-------------------|-------------------------|----------------|-------------------------|--------------------------------------|-------------|---------------------------|-------------------------------------|--------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|---------------------|----------------|--------------------|----------------|-------|
| d | D | T | B | C | r _{min.} | r _{1 min.} | C _r | C _{0r} | C _u | Grease lub. | | | | Oil lub. | d _{a min.} | d _{b max.} | D _{a max.} | D _{b min.} | S _{a min.} | S _{b min.} | r _{a max.} | | r _{b max.} | Y ₁ | | Y ₀ | |
| 70 | 150 | 38 | 35 | 25 | 3 | 2.5 | 246 | 235 | 34.9 | 2 300 | 3 200 | 30314DJR | 7GB | 47.1 | 84 | 84 | 138 | 118 | 142 | 4 | 13 | 2.5 | 2 | 0.83 | 0.73 | 0.40 | 2.97 |
| | 150 | 38 | 35 | 30 | 3 | 2.5 | 280 | 256 | 36.0 | 2 700 | 3 600 | 30314CR | — | 37.0 | 84 | 87 | 138 | 123 | 141 | 6 | 8 | 2.5 | 2 | 0.55 | 1.10 | 0.60 | 3.10 |
| | 150 | 38 | 35 | 30 | 3 | 2.5 | 288 | 273 | 42.2 | 2 600 | 3 500 | 30314JR | 2GB | 30.5 | 84 | 89 | 138 | 130 | 140 | 4 | 8 | 2.5 | 2 | 0.35 | 1.74 | 0.96 | 3.08 |
| | 150 | 54 | 51 | 42 | 3 | 2.5 | 321 | 315 | 44.1 | 2 700 | 3 600 | 32314 | — | 37.0 | 84 | 86 | 138 | 125 | 140 | 4 | 12 | 2.5 | 2 | 0.35 | 1.73 | 0.95 | 4.11 |
| | 150 | 54 | 51 | 42 | 3 | 2.5 | 371 | 391 | 51.4 | 2 700 | 3 600 | 32314C | 5GD | 44.4 | 84 | 84 | 138 | 115 | 142 | 5 | 12 | 2.5 | 2 | 0.55 | 1.10 | 0.60 | 4.50 |
| | 150 | 54 | 51 | 42 | 3 | 2.5 | 396 | 414 | 57.2 | 2 700 | 3 600 | 32314JR | 2GD | 37.4 | 84 | 86 | 138 | 125 | 140 | 4 | 12 | 2.5 | 2 | 0.35 | 1.74 | 0.96 | 4.50 |
| 75 | 105 | 20 | 20 | 16 | 1 | 1 | 92.2 | 123 | 18.4 | 3 300 | 4 400 | 32915JR | 2BC | 18.9 | 80.5 | 81 | 99.5 | 96 | 101 | 4 | 4 | 1 | 1 | 0.33 | 1.80 | 0.99 | 0.526 |
| | 115 | 25 | 25 | 19 | 1.5 | 1.5 | 139 | 169 | 25.8 | 3 100 | 4 200 | 32015JR | 4CC | 25.1 | 83.5 | 83 | 106.5 | 103 | 110 | 5 | 6 | 1.5 | 1.5 | 0.46 | 1.31 | 0.72 | 0.930 |
| | 115 | 31 | 31 | 25.5 | 1.5 | 1.5 | 177 | 225 | 35.0 | 3 200 | 4 200 | 33015JR | 2CE | 22.9 | 83.5 | 83 | 106.5 | 104 | 110 | 6 | 5.5 | 1.5 | 1.5 | 0.30 | 2.01 | 1.11 | 1.16 |
| | 125 | 37 | 37 | 29 | 2 | 1.5 | 234 | 280 | 43.4 | 3 000 | 4 000 | 33115JR | 3DE | 29.3 | 85 | 84 | 116.5 | 109 | 120 | 6 | 8 | 2 | 1.5 | 0.40 | 1.51 | 0.83 | 1.84 |
| | 130 | 27.25 | 25 | 20 | 2 | 1.5 | 171 | 178 | 27.4 | 2 900 | 3 800 | 30215CR | — | 31.0 | 85 | 87 | 121.5 | 111 | 124 | 5 | 7 | 2 | 1.5 | 0.55 | 1.10 | 0.60 | 1.40 |
| | 130 | 27.25 | 25 | 22 | 2 | 1.5 | 178 | 181 | 28.2 | 2 900 | 3 900 | 30215JR | 4DB | 27.6 | 85 | 86 | 121.5 | 115 | 124 | 4 | 5 | 2 | 1.5 | 0.44 | 1.38 | 0.76 | 1.42 |
| | 130 | 33.25 | 31 | 24 | 2 | 1.5 | 204 | 225 | 34.5 | 2 900 | 3 900 | 32215CR | — | 33.7 | 85 | 85 | 121.5 | 109 | 125 | 4 | 9 | 2 | 1.5 | 0.55 | 1.10 | 0.60 | 1.75 |
| | 130 | 33.25 | 31 | 27 | 2 | 1.5 | 218 | 234 | 36.4 | 2 900 | 3 900 | 32215JR | 4DC | 30.2 | 85 | 85 | 121.5 | 114 | 125 | 4 | 6 | 2 | 1.5 | 0.44 | 1.38 | 0.76 | 1.77 |
| | 130 | 41 | 41 | 31 | 2 | 1.5 | 266 | 310 | 47.7 | 2 900 | 3 900 | 33215JR | 3EE | 32.5 | 85 | 83 | 121.5 | 111 | 125 | 7 | 10 | 2 | 1.5 | 0.43 | 1.40 | 0.77 | 2.26 |
| | 150 | 42 | 38 | 29 | 3 | 3 | 240 | 270 | 39.0 | 2 200 | 3 100 | T7FC075 | 7FC | 50.6 | 89 | 89 | 136 | 114 | 143 | 5 | 13 | 2.5 | 2.5 | 0.87 | 0.69 | 0.38 | 3.24 |
| | 160 | 40 | 37 | 26 | 3 | 2.5 | 266 | 254 | 34.2 | 2 100 | 2 900 | 30315DJR | 7GB | 49.9 | 89 | 91 | 148 | 127 | 151 | 6 | 14 | 2.5 | 2 | 0.83 | 0.73 | 0.40 | 3.45 |
| | 160 | 40 | 37 | 26 | 3 | 2.5 | 277 | 266 | 36.9 | 2 100 | 2 900 | 30315DR | — | 48.8 | 89 | 91 | 148 | 127 | 151 | 6 | 14 | 2.5 | 2 | 0.81 | 0.74 | 0.41 | 3.48 |
| | 160 | 40 | 37 | 31 | 3 | 2.5 | 310 | 296 | 42.1 | 2 500 | 3 400 | 30315CR | — | 39.2 | 89 | 94 | 148 | 130 | 150 | 6 | 9 | 2.5 | 2 | 0.55 | 1.10 | 0.60 | 3.80 |
| | 160 | 40 | 37 | 31 | 3 | 2.5 | 325 | 311 | 44.9 | 2 500 | 3 300 | 30315JR | 2GB | 32.5 | 89 | 95 | 148 | 139 | 149 | 4 | 9 | 2.5 | 2 | 0.35 | 1.74 | 0.96 | 3.65 |
| | 160 | 40 | 37 | 31 | 3 | 2.5 | 313 | 298 | 43.3 | 2 500 | 3 300 | 30315R | — | 31.9 | 89 | 95 | 148 | 139 | 149 | 4 | 9 | 2.5 | 2 | 0.35 | 1.73 | 0.95 | 3.52 |
| | 160 | 58 | 55 | 43 | 3 | 2.5 | 447 | 474 | 61.4 | 2 500 | 3 400 | 32315CR | — | 46.6 | 89 | 90 | 148 | 125 | 154 | 6 | 15 | 2.5 | 2 | 0.55 | 1.10 | 0.60 | 5.50 |
| | 160 | 58 | 55 | 45 | 3 | 2.5 | 454 | 481 | 64.6 | 2 500 | 3 300 | 32315JR | 2GD | 40.0 | 89 | 91 | 148 | 133 | 149 | 4 | 13 | 2.5 | 2 | 0.35 | 1.74 | 0.96 | 5.41 |
| | 160 | 58 | 55 | 45 | 3 | 2.5 | 425 | 444 | 60.3 | 2 500 | 3 300 | 32315R | — | 39.5 | 89 | 91 | 148 | 133 | 149 | 4 | 13 | 2.5 | 2 | 0.35 | 1.73 | 0.95 | 5.30 |
| 80 | 110 | 20 | 20 | 16 | 1 | 1 | 95.1 | 131 | 19.5 | 3 100 | 4 200 | 32916JR | 2BC | 20.1 | 85.5 | 86 | 104.5 | 101 | 106 | 4 | 4 | 1 | 1 | 0.35 | 1.71 | 0.94 | 0.556 |
| | 125 | 29 | 29 | 22 | 1.5 | 1.5 | 185 | 225 | 34.6 | 2 900 | 3 900 | 32016JR | 3CC | 26.7 | 88.5 | 89 | 116.5 | 112 | 120 | 6 | 7 | 1.5 | 1.5 | 0.42 | 1.42 | 0.78 | 1.32 |
| | 125 | 36 | 36 | 29.5 | 1.5 | 1.5 | 218 | 288 | 44.8 | 2 900 | 3 900 | 33016JR | 2CE | 25.1 | 88.5 | 90 | 116.5 | 112 | 119 | 6 | 6.5 | 1.5 | 1.5 | 0.28 | 2.16 | 1.19 | 1.63 |
| | 130 | 37 | 37 | 29 | 2 | 1.5 | 240 | 294 | 44.9 | 2 800 | 3 800 | 33116JR | 3DE | 30.5 | 90 | 89 | 121.5 | 114 | 126 | 6 | 8 | 2 | 1.5 | 0.42 | 1.44 | 0.79 | 1.93 |

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

Single-row tapered roller bearings
metric series

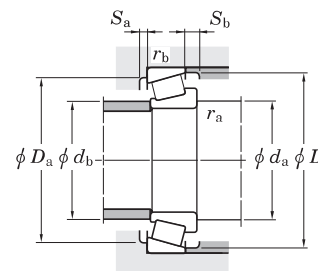
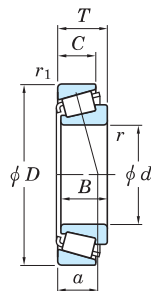
d (80) ~ (90) mm



| Boundary dimensions (mm) | | | | | | | Basic load ratings (kN) | | Fatigue load limit (kN) | Limiting speeds (min ⁻¹) | | Bearing No. | Dimension series to ISO355 (Refer.) | Load center (mm) a | Mounting dimensions (mm) | | | | | | | | Constant e | Axial load factors | | (Refer.) Mass (kg) | | |
|--------------------------|-----|-------|----|------|-------------------|---------------------|-------------------------|-----------------|-------------------------|--------------------------------------|----------|-------------|-------------------------------------|--------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|--------------------|----------------|--------------------|-------|-------|
| d | D | T | B | C | r _{min.} | r _{1 min.} | C _r | C _{0r} | C _u | Grease lub. | Oil lub. | | | | d _{a min.} | d _{b max.} | D _{a max.} | D _{b min.} | S _{a min.} | S _{b min.} | r _{a max.} | r _{b max.} | | Y ₁ | Y ₀ | | | |
| 80 | 140 | 28.25 | 26 | 22 | 2.5 | 2 | 202 | 202 | 31.2 | 2 700 | 3 600 | 30216JR | 3EB | 28.6 | 92 | 91 | 130 | 124 | 132 | 4 | 6 | 2 | 2 | 0.42 | 1.43 | 0.79 | 1.72 | |
| | 140 | 35.25 | 33 | 28 | 2.5 | 2 | 253 | 271 | 41.5 | 2 700 | 3 600 | 32216JR | 3EC | 31.7 | 92 | 90 | 130 | 122 | 134 | 4 | 7 | 2 | 2 | 0.42 | 1.43 | 0.79 | 2.17 | |
| | 140 | 46 | 46 | 35 | 2.5 | 2 | 313 | 371 | 56.1 | 2 700 | 3 600 | 33216JR | 3EE | 35.7 | 92 | 89 | 130 | 119 | 135 | 7 | 11 | 2 | 2 | 0.43 | 1.41 | 0.78 | 2.99 | |
| | 145 | 46 | 45 | 38 | 3 | 2.5 | 333 | 381 | 52.0 | 2 600 | 3 500 | T2ED080 | 2ED | 32.7 | 94 | 92 | 133 | 125 | 137 | 7 | 8 | 2.5 | 2 | 0.32 | 1.88 | 1.03 | 3.20 | |
| | 170 | 42.5 | 39 | 27 | 3 | 2.5 | 294 | 282 | 38.7 | 2 000 | 2 800 | 30316DJR | 7GB | 53.5 | 94 | 97 | 158 | 134 | 159 | 6 | 15.5 | 2.5 | 2 | 0.83 | 0.73 | 0.40 | 4.12 | |
| | 170 | 42.5 | 39 | 33 | 3 | 2.5 | 368 | 355 | 49.9 | 2 300 | 3 100 | 30316JR | 2GB | 34.8 | 94 | 102 | 158 | 148 | 159 | 4 | 9.5 | 2.5 | 2 | 0.35 | 1.74 | 0.96 | 4.46 | |
| | 170 | 42.5 | 39 | 33 | 3 | 2.5 | 345 | 330 | 47.1 | 2 300 | 3 100 | 30316R | — | 33.9 | 94 | 102 | 158 | 148 | 159 | 4 | 9.5 | 2.5 | 2 | 0.35 | 1.73 | 0.95 | 4.26 | |
| | 170 | 61.5 | 58 | 48 | 3 | 2.5 | 434 | 440 | 58.6 | 2 300 | 3 100 | 32316J | 2GD | 43.5 | 94 | 98 | 158 | 142 | 159 | 4 | 13.5 | 2.5 | 2 | 0.35 | 1.74 | 0.96 | 6.04 | |
| | 170 | 61.5 | 58 | 48 | 3 | 2.5 | 480 | 503 | 67.0 | 2 300 | 3 100 | 32316JR | 2GD | 43.5 | 94 | 98 | 158 | 142 | 159 | 4 | 13.5 | 2.5 | 2 | 0.35 | 1.74 | 0.96 | 6.31 | |
| 85 | 120 | 23 | 23 | 18 | 1.5 | 1.5 | 122 | 165 | 25.0 | 2 900 | 3 900 | 32917JR | 2BC | 21.2 | 93.5 | 93 | 111.5 | 109 | 115 | 5 | 5 | 1.5 | 1.5 | 0.33 | 1.83 | 1.01 | 0.794 | |
| | 130 | 29 | 29 | 22 | 1.5 | 1.5 | 189 | 234 | 35.5 | 2 800 | 3 700 | 32017JR | 4CC | 28.0 | 93.5 | 94 | 121.5 | 117 | 125 | 6 | 7 | 1.5 | 1.5 | 0.44 | 1.36 | 0.75 | 1.38 | |
| | 130 | 36 | 36 | 29.5 | 1.5 | 1.5 | 222 | 300 | 46.0 | 2 800 | 3 700 | 33017JR | 2CE | 26.3 | 93.5 | 94 | 121.5 | 118 | 125 | 6 | 6.5 | 1.5 | 1.5 | 0.29 | 2.06 | 1.13 | 1.72 | |
| | 140 | 41 | 41 | 32 | 2.5 | 2 | 282 | 346 | 52.2 | 2 600 | 3 500 | 33117JR | 3DE | 33.2 | 97 | 95 | 130 | 122 | 135 | 7 | 9 | 2 | 2 | 0.41 | 1.48 | 0.81 | 2.43 | |
| | 150 | 30.5 | 28 | 24 | 2.5 | 2 | 228 | 231 | 35.1 | 2 500 | 3 400 | 30217JR | 3EB | 30.4 | 97 | 97 | 140 | 132 | 141 | 5 | 6.5 | 2 | 2 | 0.42 | 1.43 | 0.79 | 2.17 | |
| | 150 | 38.5 | 36 | 30 | 2.5 | 2 | 290 | 315 | 47.5 | 2 500 | 3 400 | 32217JR | 3EC | 34.2 | 97 | 96 | 140 | 130 | 142 | 5 | 8.5 | 2 | 2 | 0.42 | 1.43 | 0.79 | 2.80 | |
| | 150 | 49 | 49 | 37 | 2.5 | 2 | 368 | 439 | 59.1 | 2 500 | 3 400 | 33217JR | 3EE | 37.1 | 97 | 95 | 140 | 128 | 144 | 7 | 12 | 2 | 2 | 0.42 | 1.43 | 0.79 | 3.63 | |
| | 180 | 44.5 | 41 | 28 | 4 | 3 | 288 | 265 | 36.0 | 1 900 | 2 600 | 30317D | — | 56.0 | 103 | 103 | 166 | 143 | 169 | 6 | 16.5 | 3 | 2.5 | 0.81 | 0.74 | 0.41 | 4.54 | |
| | 180 | 44.5 | 41 | 28 | 4 | 3 | 328 | 317 | 42.6 | 1 900 | 2 600 | 30317DJR | 7GB | 56.3 | 103 | 103 | 166 | 143 | 169 | 6 | 16.5 | 3 | 2.5 | 0.83 | 0.73 | 0.40 | 4.81 | |
| | 180 | 44.5 | 41 | 34 | 4 | 3 | 396 | 384 | 53.0 | 2 200 | 2 900 | 30317JR | 2GB | 36.0 | 103 | 107 | 166 | 156 | 167 | 5 | 10.5 | 3 | 2.5 | 0.35 | 1.74 | 0.96 | 5.15 | |
| | 180 | 44.5 | 41 | 34 | 4 | 3 | 381 | 367 | 51.1 | 2 200 | 2 900 | 30317R | — | 35.8 | 103 | 107 | 166 | 156 | 167 | 5 | 10.5 | 3 | 2.5 | 0.35 | 1.73 | 0.95 | 4.97 | |
| | 180 | 63.5 | 60 | 49 | 4 | 3 | 549 | 587 | 77.6 | 2 200 | 3 000 | 32317JR | 2GD | 43.8 | 103 | 103 | 166 | 150 | 167 | 5 | 14.5 | 3 | 2.5 | 0.35 | 1.74 | 0.96 | 7.42 | |
| | 90 | 125 | 23 | 23 | 18 | 1.5 | 1.5 | 126 | 175 | 26.2 | 2 800 | 3 700 | 32918JR | 2BC | 22.3 | 98.5 | 97 | 116.5 | 114 | 120 | 5 | 5 | 1.5 | 1.5 | 0.34 | 1.75 | 0.96 | 0.834 |
| | | 140 | 32 | 32 | 24 | 2 | 1.5 | 224 | 276 | 41.5 | 2 600 | 3 500 | 32018JR | 3CC | 29.8 | 100 | 100 | 131.5 | 125 | 134 | 6 | 8 | 2 | 1.5 | 0.42 | 1.42 | 0.78 | 1.80 |
| 140 | | 39 | 39 | 32.5 | 2 | 1.5 | 278 | 367 | 55.6 | 2 600 | 3 400 | 33018JR | 2CE | 27.1 | 100 | 100 | 131.5 | 127 | 135 | 7 | 6.5 | 2 | 1.5 | 0.27 | 2.23 | 1.23 | 2.22 | |
| 150 | | 45 | 45 | 35 | 2.5 | 2 | 324 | 413 | 61.1 | 2 500 | 3 300 | 33118JR | 3DE | 35.4 | 102 | 100 | 140 | 130 | 144 | 7 | 10 | 2 | 2 | 0.40 | 1.51 | 0.83 | 3.13 | |
| 155 | | 46 | 46 | 38 | 3 | 3 | 342 | 405 | 54.1 | 2 400 | 3 200 | T2ED090 | 2ED | 33.5 | 104 | 102 | 141 | 135 | 147 | 7 | 8 | 2.5 | 2.5 | 0.33 | 1.84 | 1.01 | 3.47 | |
| 160 | | 32.5 | 30 | 26 | 2.5 | 2 | 255 | 261 | 39.0 | 2 400 | 3 200 | 30218JR | 3FB | 32.6 | 102 | 103 | 150 | 140 | 150 | 5 | 6.5 | 2 | 2 | 0.42 | 1.43 | 0.79 | 2.65 | |
| 160 | | 42.5 | 40 | 34 | 2.5 | 2 | 329 | 362 | 53.7 | 2 400 | 3 200 | 32218JR | 3FC | 37.0 | 102 | 102 | 150 | 138 | 152 | 5 | 8.5 | 2 | 2 | 0.42 | 1.43 | 0.79 | 3.47 | |

Single-row tapered roller bearings
metric series

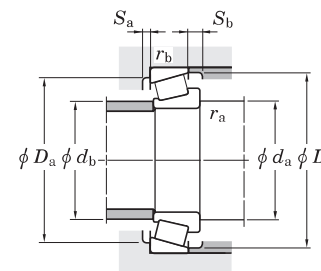
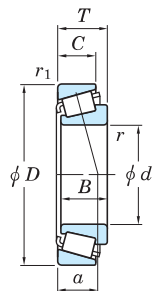
d (90) ~ (100) mm



| Boundary dimensions (mm) | | | | | | Basic load ratings (kN) | | Fatigue load limit (kN) | Limiting speeds (min ⁻¹) | | Bearing No. | Dimension series to ISO355 (Refer.) | Load center (mm) | Mounting dimensions (mm) | | | | | | | | Constant e | Axial load factors | | (Refer.) Mass (kg) | |
|--------------------------|-----|------|------|------|-----------|-------------------------|-------|-------------------------|--------------------------------------|-------------|-------------|-------------------------------------|------------------|--------------------------|------------|------------|------------|------------|------------|------------|------------|--------------|--------------------|-------|--------------------|-------|
| d | D | T | B | C | r_{min} | r_{1min} | C_r | C_{0r} | C_u | Grease lub. | | | | Oil lub. | d_a min. | d_b max. | D_a max. | D_b min. | S_a min. | S_b min. | r_a max. | | r_b max. | Y_1 | | Y_0 |
| 90 | 160 | 55 | 55 | 42 | 2.5 | 2 | 430 | 527 | 68.3 | 2 400 | 3 200 | 3FE | 40.8 | 102 | 101 | 150 | 135 | 154 | 9 | 13 | 2 | 2 | 0.42 | 1.43 | 0.78 | 4.76 |
| | 190 | 46.5 | 43 | 30 | 4 | 3 | 359 | 350 | 46.2 | 1 700 | 2 400 | 7GB | 59.6 | 108 | 109 | 176 | 151 | 179 | 6 | 16.5 | 3 | 2.5 | 0.83 | 0.73 | 0.40 | 5.57 |
| | 190 | 46.5 | 43 | 30 | 4 | 3 | 352 | 336 | 44.9 | 1 700 | 2 400 | — | 59.1 | 108 | 109 | 176 | 151 | 179 | 6 | 16.5 | 3 | 2.5 | 0.81 | 0.74 | 0.41 | 5.60 |
| | 190 | 46.5 | 43 | 36 | 4 | 3 | 432 | 420 | 57.1 | 2 100 | 2 700 | 2GB | 38.1 | 108 | 113 | 176 | 165 | 177 | 5 | 10.5 | 3 | 2.5 | 0.35 | 1.74 | 0.96 | 6.04 |
| | 190 | 46.5 | 43 | 36 | 4 | 3 | 421 | 407 | 55.5 | 2 100 | 2 700 | — | 37.2 | 108 | 113 | 176 | 165 | 177 | 5 | 10.5 | 3 | 2.5 | 0.35 | 1.73 | 0.95 | 5.78 |
| | 190 | 67.5 | 64 | 53 | 4 | 3 | 577 | 614 | 78.7 | 2 100 | 2 800 | 2GD | 46.6 | 108 | 108 | 176 | 157 | 177 | 5 | 14.5 | 3 | 2.5 | 0.35 | 1.74 | 0.96 | 8.61 |
| 95 | 130 | 23 | 23 | 18 | 1.5 | 1.5 | 130 | 186 | 27.4 | 2 600 | 3 500 | 2BC | 23.5 | 103.5 | 102 | 121.5 | 119 | 125 | 5 | 5 | 1.5 | 1.5 | 0.36 | 1.68 | 0.92 | 0.876 |
| | 145 | 32 | 32 | 24 | 2 | 1.5 | 229 | 287 | 42.6 | 2 500 | 3 300 | 4CC | 31.2 | 105 | 105 | 136.5 | 130 | 140 | 6 | 8 | 2 | 1.5 | 0.44 | 1.36 | 0.75 | 1.88 |
| | 145 | 39 | 39 | 32.5 | 2 | 1.5 | 284 | 382 | 57.3 | 2 500 | 3 300 | 2CE | 27.8 | 105 | 104 | 136.5 | 131 | 139 | 7 | 6.5 | 2 | 1.5 | 0.28 | 2.16 | 1.19 | 2.31 |
| | 160 | 46 | 46 | 38 | 3 | 3 | 353 | 427 | 56.4 | 2 300 | 3 100 | 2ED | 34.6 | 109 | 107 | 146 | 140 | 152 | 7 | 8 | 2.5 | 2.5 | 0.34 | 1.77 | 0.97 | 3.62 |
| | 160 | 49 | 49 | 38 | 2.5 | 2 | 381 | 473 | 62.5 | 2 300 | 3 100 | 3EE | 37.3 | 107 | 106 | 150 | 138 | 154 | 8 | 11 | 2 | 2 | 0.39 | 1.54 | 0.85 | 3.89 |
| | 170 | 34.5 | 32 | 27 | 3 | 2.5 | 289 | 299 | 44.0 | 2 200 | 3 000 | 3FB | 34.9 | 109 | 110 | 158 | 149 | 159 | 5 | 7.5 | 2.5 | 2 | 0.42 | 1.43 | 0.79 | 3.20 |
| | 170 | 45.5 | 43 | 37 | 3 | 2.5 | 389 | 439 | 64.1 | 2 200 | 3 000 | 3FC | 38.9 | 109 | 108 | 158 | 145 | 161 | 5 | 8.5 | 2.5 | 2 | 0.42 | 1.43 | 0.79 | 4.34 |
| | 170 | 58 | 58 | 44 | 3 | 2.5 | 468 | 582 | 74.0 | 2 200 | 2 900 | 3FE | 42.8 | 109 | 107 | 158 | 144 | 163 | 9 | 14 | 2.5 | 2 | 0.41 | 1.47 | 0.81 | 5.66 |
| | 200 | 49.5 | 45 | 32 | 4 | 3 | 398 | 391 | 50.4 | 1 700 | 2 300 | 7GB | 62.7 | 113 | 113 | 186 | 157 | 187 | 6 | 17.5 | 3 | 2.5 | 0.83 | 0.73 | 0.40 | 6.68 |
| | 200 | 49.5 | 45 | 38 | 4 | 3 | 396 | 368 | 49.2 | 2 000 | 2 600 | — | 39.8 | 113 | 118 | 186 | 172 | 186 | 5 | 11.5 | 3 | 2.5 | 0.35 | 1.73 | 0.95 | 6.32 |
| | 200 | 49.5 | 45 | 38 | 4 | 3 | 465 | 455 | 60.9 | 2 000 | 2 600 | 2GB | 40.8 | 113 | 118 | 186 | 172 | 186 | 5 | 11.5 | 3 | 2.5 | 0.35 | 1.74 | 0.96 | 6.96 |
| | 200 | 71.5 | 67 | 55 | 4 | 3 | 534 | 544 | 70.2 | 2 000 | 2 600 | — | 49.1 | 113 | 115 | 186 | 166 | 186 | 5 | 16.5 | 3 | 2.5 | 0.35 | 1.73 | 0.95 | 9.35 |
| | 200 | 71.5 | 67 | 55 | 4 | 3 | 646 | 695 | 89.2 | 2 000 | 2 600 | 2GD | 49.8 | 113 | 115 | 186 | 166 | 186 | 5 | 16.5 | 3 | 2.5 | 0.35 | 1.74 | 0.96 | 10.1 |
| | 100 | 140 | 25 | 25 | 20 | 1.5 | 1.5 | 158 | 217 | 32.0 | 2 400 | 3 300 | 2CC | 24.0 | 109 | 108 | 131 | 128 | 135 | 5 | 5 | 1.5 | 1.5 | 0.33 | 1.82 | 1.00 |
| 145 | | 24 | 22.5 | 17.5 | 3 | 3 | 146 | 167 | 24.6 | 2 400 | 3 200 | 4CB | 29.9 | 112 | 109 | 133 | 132 | 140 | 4 | 6.5 | 2.5 | 2.5 | 0.47 | 1.27 | 0.70 | 1.12 |
| 150 | | 32 | 32 | 24 | 2 | 1.5 | 233 | 298 | 43.8 | 2 400 | 3 200 | 4CC | 32.6 | 110 | 109 | 141 | 134 | 144 | 6 | 8 | 2 | 1.5 | 0.46 | 1.31 | 0.72 | 1.95 |
| 150 | | 39 | 39 | 32.5 | 2 | 1.5 | 290 | 397 | 59.0 | 2 400 | 3 200 | 2CE | 28.6 | 110 | 108 | 141 | 135 | 143 | 7 | 6.5 | 2 | 1.5 | 0.29 | 2.09 | 1.15 | 2.40 |
| 165 | | 47 | 46 | 39 | 3 | 3 | 368 | 458 | 59.5 | 2 200 | 3 000 | 2EE | 35.1 | 114 | 112 | 151 | 145 | 157 | 7 | 8 | 2.5 | 2.5 | 0.32 | 1.88 | 1.04 | 3.86 |
| 165 | | 52 | 52 | 40 | 2.5 | 2 | 408 | 523 | 67.4 | 2 200 | 3 000 | 3EE | 40.1 | 112 | 111 | 155 | 142 | 159 | 8 | 12 | 2 | 2 | 0.41 | 1.48 | 0.81 | 4.29 |
| 180 | | 37 | 34 | 29 | 3 | 2.5 | 323 | 338 | 49.1 | 2 100 | 2 800 | 3FB | 36.8 | 114 | 116 | 168 | 157 | 168 | 5 | 8 | 2.5 | 2 | 0.42 | 1.43 | 0.79 | 3.83 |
| 180 | | 49 | 46 | 39 | 3 | 2.5 | 435 | 495 | 63.9 | 2 100 | 2 800 | 3FC | 42.1 | 114 | 114 | 168 | 154 | 171 | 5 | 10 | 2.5 | 2 | 0.42 | 1.43 | 0.79 | 5.21 |
| 180 | | 63 | 63 | 48 | 3 | 2.5 | 540 | 680 | 85.8 | 2 100 | 2 800 | 3FE | 45.7 | 114 | 112 | 168 | 151 | 172 | 10 | 15 | 2.5 | 2 | 0.40 | 1.48 | 0.82 | 6.92 |

Single-row tapered roller bearings
metric series

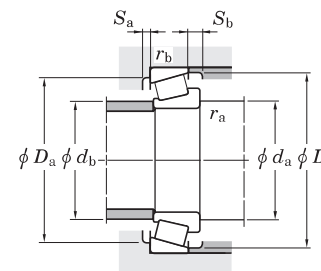
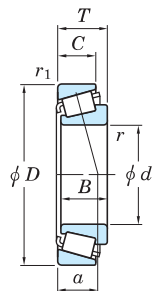
d (100) ~ (110) mm



| Boundary dimensions (mm) | | | | | | Basic load ratings (kN) | | Fatigue load limit (kN) | Limiting speeds (min ⁻¹) | | Bearing No. | Dimension series to ISO355 (Refer.) | Load center (mm) | Mounting dimensions (mm) | | | | | | | | Constant e | Axial load factors | | (Refer.) Mass (kg) | |
|--------------------------|-----|------|------|------|------------------|-------------------------|----------------|-------------------------|--------------------------------------|-------------|-------------|-------------------------------------|------------------|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------|--------------------|----------------|--------------------|----------------|
| d | D | T | B | C | r _{min} | r _{1 min} | C _r | C _{0r} | C _u | Grease lub. | | | | Oil lub. | d _{a min} | d _{b max} | D _{a max} | D _{b min} | S _{a min} | S _{b min} | r _{a max} | | r _{b max} | Y ₁ | | Y ₀ |
| 100 | 215 | 51.5 | 47 | 34 | 4 | 3 | 397 | 374 | 48.5 | 1 500 | 2 100 | — | 65.9 | 118 | 121 | 201 | 183 | 204 | 5 | 17 | 3 | 2.5 | 0.81 | 0.74 | 0.41 | 8.02 |
| | 215 | 51.5 | 47 | 39 | 4 | 3 | 430 | 400 | 52.5 | 1 800 | 2 400 | — | 41.4 | 118 | 127 | 201 | 184 | 200 | 6 | 12.5 | 3 | 2.5 | 0.35 | 1.73 | 0.95 | 7.76 |
| | 215 | 51.5 | 47 | 39 | 4 | 3 | 528 | 521 | 68.0 | 1 800 | 2 400 | 2GB | 42.7 | 118 | 127 | 201 | 184 | 200 | 6 | 12.5 | 3 | 2.5 | 0.35 | 1.74 | 0.96 | 8.49 |
| | 215 | 56.5 | 51 | 35 | 4 | 3 | 465 | 459 | 56.4 | 1 500 | 2 200 | 7GB | 67.7 | 118 | 120 | 201 | 183 | 202 | 6 | 17.5 | 3 | 2.5 | 0.83 | 0.73 | 0.40 | 8.72 |
| | 215 | 77.5 | 73 | 60 | 4 | 3 | 614 | 637 | 79.6 | 1 800 | 2 400 | — | 52.6 | 118 | 123 | 201 | 177 | 200 | 8 | 17.5 | 3 | 2.5 | 0.35 | 1.73 | 0.95 | 12.2 |
| | 215 | 77.5 | 73 | 60 | 4 | 3 | 725 | 783 | 96.9 | 1 800 | 2 400 | 2GD | 53.9 | 118 | 123 | 201 | 177 | 200 | 8 | 17.5 | 3 | 2.5 | 0.35 | 1.74 | 0.96 | 13.0 |
| 105 | 145 | 25 | 25 | 20 | 1.5 | 1.5 | 160 | 224 | 32.6 | 2 400 | 3 100 | 2CC | 25.1 | 113.5 | 113 | 136.5 | 133 | 140 | 5 | 5 | 1.5 | 1.5 | 0.34 | 1.75 | 0.96 | 1.23 |
| | 160 | 35 | 35 | 26 | 2.5 | 2 | 270 | 344 | 49.9 | 2 200 | 3 000 | 4DC | 34.5 | 117 | 116 | 150 | 143 | 154 | 6 | 9 | 2 | 2 | 0.44 | 1.35 | 0.74 | 2.45 |
| | 160 | 43 | 43 | 34 | 2.5 | 2 | 335 | 461 | 67.4 | 2 200 | 3 000 | 2DE | 30.9 | 117 | 116 | 150 | 145 | 153 | 7 | 9 | 2 | 2 | 0.28 | 2.12 | 1.17 | 3.08 |
| | 175 | 56 | 56 | 44 | 2.5 | 2 | 453 | 607 | 76.0 | 2 100 | 2 800 | 3EE | 43.2 | 117 | 116 | 165 | 150 | 169 | 9 | 12 | 2 | 2 | 0.40 | 1.48 | 0.82 | 5.33 |
| | 190 | 39 | 36 | 30 | 3 | 2.5 | 360 | 380 | 52.3 | 2 000 | 2 600 | 3FB | 39.0 | 119 | 122 | 178 | 165 | 178 | 6 | 9 | 2.5 | 2 | 0.42 | 1.43 | 0.79 | 4.49 |
| | 190 | 53 | 50 | 43 | 3 | 2.5 | 490 | 567 | 73.0 | 2 000 | 2 700 | 3FC | 44.8 | 119 | 120 | 178 | 161 | 180 | 6 | 10 | 2.5 | 2 | 0.42 | 1.43 | 0.79 | 6.37 |
| | 190 | 68 | 68 | 52 | 3 | 2.5 | 622 | 790 | 97.4 | 2 000 | 2 600 | 3FE | 48.8 | 119 | 117 | 178 | 159 | 182 | 10 | 16 | 2.5 | 2 | 0.40 | 1.49 | 0.82 | 8.43 |
| | 225 | 53.5 | 49 | 36 | 4 | 3 | 423 | 396 | 50.1 | 1 400 | 2 000 | — | 69.1 | 123 | 127 | 211 | 193 | 209 | 6 | 17 | 3 | 2.5 | 0.81 | 0.74 | 0.41 | 8.76 |
| | 225 | 53.5 | 49 | 41 | 4 | 3 | 464 | 432 | 56.0 | 1 700 | 2 300 | — | 43.1 | 123 | 132 | 211 | 193 | 209 | 7 | 12.5 | 3 | 2.5 | 0.35 | 1.73 | 0.95 | 8.74 |
| | 225 | 53.5 | 49 | 41 | 4 | 3 | 581 | 578 | 73.6 | 1 700 | 2 300 | 2GB | 44.1 | 123 | 132 | 211 | 193 | 209 | 7 | 12.5 | 3 | 2.5 | 0.35 | 1.74 | 0.96 | 9.73 |
| | 225 | 58 | 53 | 36 | 4 | 3 | 495 | 489 | 59.4 | 1 500 | 2 100 | 7GB | 70.3 | 123 | 126 | 211 | 193 | 211 | 6 | 18 | 3 | 2.5 | 0.83 | 0.73 | 0.40 | 9.72 |
| | 225 | 81.5 | 77 | 63 | 4 | 3 | 679 | 707 | 86.7 | 1 800 | 2 300 | — | 55.7 | 123 | 128 | 211 | 185 | 209 | 8 | 18.5 | 3 | 2.5 | 0.35 | 1.73 | 0.95 | 13.9 |
| | 225 | 81.5 | 77 | 63 | 4 | 3 | 794 | 866 | 107 | 1 800 | 2 300 | 2GD | 56.1 | 123 | 128 | 211 | 185 | 209 | 8 | 18.5 | 3 | 2.5 | 0.35 | 1.74 | 0.96 | 14.9 |
| | 110 | 150 | 25 | 25 | 20 | 1.5 | 1.5 | 162 | 231 | 33.3 | 2 300 | 3 000 | 2CC | 26.3 | 119 | 118 | 141 | 138 | 145 | 5 | 5 | 1.5 | 1.5 | 0.36 | 1.69 | 0.93 |
| 160 | | 27 | 25.5 | 19.5 | 3 | 3 | 183 | 225 | 32.3 | 2 200 | 2 900 | 4CB | 31.8 | 124 | 120 | 146 | 145 | 154 | 5 | 7.5 | 2.5 | 2.5 | 0.44 | 1.36 | 0.75 | 1.63 |
| 170 | | 38 | 38 | 29 | 2.5 | 2 | 312 | 395 | 56.7 | 2 100 | 2 800 | 4DC | 36.1 | 122 | 122 | 160 | 152 | 163 | 7 | 9 | 2 | 2 | 0.43 | 1.39 | 0.77 | 3.12 |
| 170 | | 47 | 47 | 37 | 2.5 | 2 | 360 | 502 | 64.9 | 2 100 | 2 800 | 2DE | 33.4 | 122 | 123 | 160 | 152 | 161 | 7 | 10 | 2 | 2 | 0.29 | 2.09 | 1.15 | 3.81 |
| 180 | | 56 | 56 | 43 | 2.5 | 2 | 464 | 634 | 78.6 | 2 000 | 2 700 | 3EE | 44.5 | 122 | 121 | 170 | 155 | 174 | 9 | 13 | 2 | 2 | 0.42 | 1.43 | 0.79 | 5.52 |
| 200 | | 41 | 38 | 32 | 3 | 2.5 | 405 | 434 | 58.1 | 1 900 | 2 500 | 3FB | 40.8 | 124 | 129 | 188 | 174 | 188 | 6 | 9 | 2.5 | 2 | 0.42 | 1.43 | 0.79 | 5.33 |
| 200 | | 56 | 53 | 46 | 3 | 2.5 | 547 | 640 | 80.4 | 1 900 | 2 500 | 3FC | 46.7 | 124 | 126 | 188 | 170 | 190 | 6 | 10 | 2.5 | 2 | 0.42 | 1.43 | 0.79 | 7.45 |
| 240 | | 54.5 | 50 | 36 | 4 | 3 | 456 | 429 | 53.5 | 1 400 | 1 900 | — | 71.5 | 128 | 135 | 226 | 205 | 222 | 6 | 18 | 3 | 2.5 | 0.81 | 0.74 | 0.41 | 10.2 |
| 240 | | 54.5 | 50 | 42 | 4 | 3 | 509 | 475 | 60.5 | 1 600 | 2 100 | — | 44.8 | 128 | 141 | 226 | 206 | 222 | 8 | 12.5 | 3 | 2.5 | 0.35 | 1.73 | 0.95 | 10.4 |

Single-row tapered roller bearings
metric series

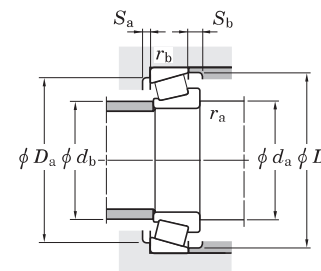
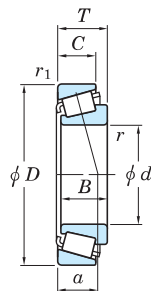
d (110) ~ 130 mm



| Boundary dimensions (mm) | | | | | | | Basic load ratings (kN) | | Fatigue load limit (kN) C_u | Limiting speeds (min ⁻¹) | | Bearing No. | Dimension series to ISO355 (Refer.) | Load center (mm) a | Mounting dimensions (mm) | | | | | | | | Constant e | Axial load factors | | (Refer.) Mass (kg) | |
|--------------------------|-----|-------|-----|------|-----------|------------|-------------------------|----------|----------------------------------|--------------------------------------|----------|-------------|-------------------------------------|-------------------------|--------------------------|------------|------------|------------|------------|------------|------------|------------|-----------------|--------------------|-------|--------------------|------|
| d | D | T | B | C | r_{min} | r_{1min} | C_r | C_{0r} | | Grease lub. | Oil lub. | | | | d_a min. | d_b max. | D_a max. | D_b min. | S_a min. | S_b min. | r_a max. | r_b max. | | Y_1 | Y_0 | | |
| 110 | 240 | 54.5 | 50 | 42 | 4 | 3 | 601 | 590 | 75.2 | 1 600 | 2 100 | 30322JR | 2GB | 46.3 | 128 | 141 | 226 | 206 | 222 | 8 | 12.5 | 3 | 2.5 | 0.35 | 1.74 | 0.96 | 11.4 |
| | 240 | 63 | 57 | 38 | 4 | 3 | 564 | 563 | 68.4 | 1 400 | 1 900 | 31322JR | 7GB | 76.2 | 128 | 135 | 226 | 205 | 224 | 6 | 21 | 3 | 2.5 | 0.83 | 0.73 | 0.40 | 12.2 |
| | 240 | 84.5 | 80 | 65 | 4 | 3 | 759 | 797 | 97.4 | 1 600 | 2 200 | 32322 | — | 57.3 | 128 | 137 | 226 | 198 | 222 | 9 | 19.5 | 3 | 2.5 | 0.35 | 1.73 | 0.95 | 16.6 |
| | 240 | 84.5 | 80 | 65 | 4 | 3 | 865 | 943 | 115 | 1 600 | 2 200 | 32322JR | 2GD | 59.3 | 128 | 137 | 226 | 198 | 222 | 9 | 19.5 | 3 | 2.5 | 0.35 | 1.74 | 0.96 | 17.8 |
| 120 | 165 | 29 | 29 | 23 | 1.5 | 1.5 | 215 | 298 | 42.5 | 2 100 | 2 700 | 32924JR | 2CC | 29.4 | 129 | 128 | 156 | 152 | 160 | 6 | 6 | 1.5 | 1.5 | 0.35 | 1.72 | 0.95 | 1.77 |
| | 170 | 27 | 25 | 19.5 | 3 | 3 | 206 | 262 | 37.0 | 2 000 | 2 700 | T4CB120 | 4CB | 34.6 | 134 | 130 | 156 | 155 | 164 | 4 | 7.5 | 2.5 | 2.5 | 0.47 | 1.27 | 0.70 | 1.76 |
| | 180 | 38 | 38 | 29 | 2.5 | 2 | 325 | 427 | 60.0 | 2 000 | 2 600 | 32024JR | 4DC | 38.8 | 132 | 131 | 170 | 161 | 173 | 7 | 9 | 2 | 2 | 0.46 | 1.31 | 0.72 | 3.34 |
| | 180 | 48 | 48 | 38 | 2.5 | 2 | 375 | 540 | 68.5 | 2 000 | 2 600 | 33024JR | 2DE | 36.2 | 132 | 132 | 170 | 160 | 171 | 6 | 10 | 2 | 2 | 0.31 | 1.97 | 1.08 | 4.16 |
| | 200 | 62 | 62 | 48 | 2.5 | 2 | 581 | 785 | 96.1 | 1 800 | 2 400 | 33124JR | 3FE | 47.8 | 132 | 133 | 190 | 172 | 192 | 9 | 14 | 2 | 2 | 0.40 | 1.51 | 0.83 | 7.73 |
| | 215 | 43.5 | 40 | 34 | 3 | 2.5 | 435 | 473 | 61.7 | 1 700 | 2 300 | 30224JR | 4FB | 44.2 | 134 | 140 | 203 | 187 | 203 | 6 | 9.5 | 2.5 | 2 | 0.44 | 1.38 | 0.76 | 6.36 |
| | 215 | 61.5 | 58 | 50 | 3 | 2.5 | 589 | 691 | 84.0 | 1 700 | 2 300 | 32224JR | 4FD | 51.6 | 134 | 136 | 203 | 181 | 204 | 7 | 11.5 | 2.5 | 2 | 0.44 | 1.38 | 0.76 | 9.04 |
| | 260 | 59.5 | 55 | 38 | 4 | 3 | 536 | 512 | 61.5 | 1 200 | 1 700 | 30324D | — | 77.8 | 138 | 145 | 246 | 219 | 239 | 6 | 21 | 3 | 2.5 | 0.81 | 0.74 | 0.41 | 13.0 |
| | 260 | 59.5 | 55 | 46 | 4 | 3 | 631 | 611 | 76.9 | 1 500 | 2 000 | 30324 | — | 48.9 | 138 | 152 | 246 | 221 | 239 | 10 | 13.5 | 3 | 2.5 | 0.35 | 1.73 | 0.95 | 13.7 |
| | 260 | 59.5 | 55 | 46 | 4 | 3 | 712 | 714 | 89.9 | 1 500 | 2 000 | 30324JR | 2GB | 50.2 | 138 | 152 | 246 | 221 | 239 | 10 | 13.5 | 3 | 2.5 | 0.35 | 1.74 | 0.96 | 14.5 |
| | 260 | 68 | 62 | 42 | 4 | 3 | 657 | 665 | 77.8 | 1 300 | 1 800 | 31324JR | 7GB | 81.9 | 138 | 145 | 246 | 221 | 244 | 6 | 21 | 3 | 2.5 | 0.83 | 0.73 | 0.40 | 15.4 |
| | 260 | 90.5 | 86 | 69 | 4 | 3 | 1 000 | 1 110 | 131 | 1 500 | 2 000 | 32324JR | 2GD | 62.7 | 138 | 148 | 246 | 213 | 239 | 9 | 21.5 | 3 | 2.5 | 0.35 | 1.74 | 0.96 | 22.2 |
| | 260 | 90.5 | 86 | 69 | 4 | 3 | 997 | 1 110 | 132 | 1 500 | 2 000 | 32324R | — | 61.1 | 138 | 148 | 246 | 213 | 239 | 9 | 21.5 | 3 | 2.5 | 0.35 | 1.73 | 0.95 | 21.8 |
| | 130 | 180 | 32 | 32 | 25 | 2 | 1.5 | 251 | 368 | 51.2 | 1 900 | 2 500 | 32926JR | 2CC | 31.4 | 140 | 141 | 171 | 165 | 174 | 6 | 7 | 2 | 1.5 | 0.34 | 1.77 | 0.97 |
| 185 | | 29 | 27 | 21 | 3 | 3 | 230 | 282 | 39.2 | 1 800 | 2 500 | T4CB130 | 4CB | 37.8 | 144 | 141 | 171 | 170 | 179 | 5 | 8 | 2.5 | 2.5 | 0.47 | 1.27 | 0.70 | 2.22 |
| 200 | | 45 | 45 | 34 | 2.5 | 2 | 428 | 563 | 77.4 | 1 800 | 2 300 | 32026JR | 4EC | 42.9 | 142 | 144 | 190 | 178 | 192 | 8 | 11 | 2 | 2 | 0.43 | 1.38 | 0.76 | 5.04 |
| 200 | | 55 | 55 | 43 | 2.5 | 2 | 489 | 705 | 85.8 | 1 700 | 2 300 | 33026JR | 2EE | 42.5 | 142 | 143 | 190 | 178 | 192 | 8 | 12 | 2 | 2 | 0.34 | 1.76 | 0.97 | 6.19 |
| 230 | | 43.75 | 40 | 34 | 4 | 3 | 472 | 511 | 65.7 | 1 600 | 2 100 | 30226JR | 4FB | 46.2 | 148 | 152 | 216 | 203 | 218 | 7 | 9.5 | 3 | 2.5 | 0.44 | 1.38 | 0.76 | 7.24 |
| 230 | | 67.75 | 64 | 54 | 4 | 3 | 693 | 830 | 99.9 | 1 600 | 2 200 | 32226JR | 4FD | 56.0 | 148 | 146 | 216 | 193 | 219 | 7 | 13.5 | 3 | 2.5 | 0.44 | 1.38 | 0.76 | 11.5 |
| 280 | | 63.75 | 58 | 41 | 5 | 4 | 604 | 582 | 69.9 | 1 200 | 1 600 | 30326D | — | 84.0 | 152 | 155 | 262 | 240 | 261 | 7 | 22 | 4 | 3 | 0.81 | 0.74 | 0.41 | 16.3 |
| 280 | | 63.75 | 58 | 49 | 5 | 4 | 823 | 834 | 102 | 1 400 | 1 800 | 30326JR | 2GB | 54.0 | 152 | 164 | 262 | 239 | 255 | 8 | 14.5 | 4 | 3 | 0.35 | 1.74 | 0.96 | 18.1 |
| 280 | | 72 | 66 | 44 | 5 | 4 | 734 | 748 | 85.7 | 1 200 | 1 600 | 31326JR | 7GB | 87.3 | 152 | 155 | 262 | 236 | 261 | 7 | 23 | 4 | 3 | 0.83 | 0.73 | 0.40 | 18.9 |
| 280 | | 98.75 | 93 | 78 | 5 | 4 | 1 070 | 1 160 | 134 | 1 400 | 1 800 | 32326 | — | 69.1 | 152 | 163 | 262 | 226 | 259 | 10 | 15 | 4 | 3 | 0.35 | 1.73 | 0.95 | 26.5 |

Single-row tapered roller bearings
metric series

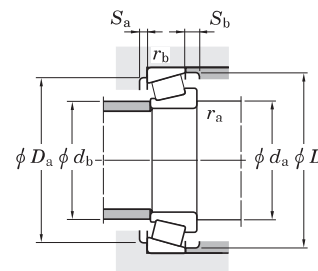
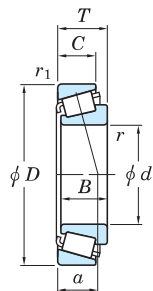
d 140 ~ (170) mm



| Boundary dimensions (mm) | | | | | | Basic load ratings (kN) | | Fatigue load limit (kN) | Limiting speeds (min ⁻¹) | | Bearing No. | Dimension series to ISO355 (Refer.) | Load center (mm) a | Mounting dimensions (mm) | | | | | | | | Constant e | Axial load factors | | (Refer.) Mass (kg) | | |
|--------------------------|------------|--------|-----|----|-------------------|-------------------------|----------------|-------------------------|--------------------------------------|-------------|-------------|-------------------------------------|--------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|---------------------|----------------|--------------------|----------------|------|
| d | D | T | B | C | r _{min.} | r _{1 min.} | C _r | C _{0r} | C _u | Grease lub. | | | | Oil lub. | d _{a min.} | d _{b max.} | D _{a max.} | D _{b min.} | S _{a min.} | S _{b min.} | r _{a max.} | | r _{b max.} | Y ₁ | | Y ₀ | |
| 140 | 190 | 32 | 32 | 25 | 2 | 1.5 | 258 | 390 | 53.2 | 1 800 | 2 300 | 32928JR | 2CC | 33.6 | 150 | 150 | 181 | 174 | 184 | 6 | 7 | 2 | 1.5 | 0.36 | 1.67 | 0.92 | 2.57 |
| | 195 | 29 | 27 | 21 | 3 | 3 | 232 | 293 | 39.9 | 1 700 | 2 300 | T4CB140 | 4CB | 40.9 | 154 | 151 | 181 | 180 | 189 | 5 | 8 | 2.5 | 2.5 | 0.50 | 1.19 | 0.66 | 2.36 |
| | 210 | 45 | 45 | 34 | 2.5 | 2 | 435 | 585 | 79.2 | 1 700 | 2 200 | 32028JR | 4DC | 45.6 | 152 | 153 | 200 | 187 | 202 | 8 | 11 | 2 | 2 | 0.46 | 1.31 | 0.72 | 5.28 |
| | 210 | 56 | 56 | 44 | 2.5 | 2 | 510 | 758 | 90.9 | 1 600 | 2 200 | 33028JR | 2DE | 45.6 | 152 | 152 | 200 | 186 | 202 | 7 | 12 | 2 | 2 | 0.36 | 1.67 | 0.92 | 6.61 |
| | 250 | 45.75 | 42 | 36 | 4 | 3 | 526 | 570 | 71.8 | 1 500 | 1 900 | 30228JR | 4FB | 49.4 | 158 | 163 | 236 | 219 | 237 | 9 | 9.5 | 3 | 2.5 | 0.44 | 1.38 | 0.76 | 8.97 |
| | 250 | 71.75 | 68 | 58 | 4 | 3 | 796 | 961 | 112 | 1 500 | 2 000 | 32228JR | 4FD | 60.0 | 158 | 158 | 236 | 210 | 238 | 9 | 13.5 | 3 | 2.5 | 0.44 | 1.38 | 0.76 | 14.7 |
| | 300 | 67.75 | 62 | 44 | 5 | 4 | 655 | 627 | 74.5 | 1 100 | 1 500 | 30328D | — | 90.2 | 162 | 169 | 282 | 254 | 280 | 7 | 23 | 4 | 3 | 0.81 | 0.74 | 0.41 | 20.0 |
| | 300 | 67.75 | 62 | 53 | 5 | 4 | 938 | 962 | 114 | 1 300 | 1 700 | 30328JR | 2GB | 56.9 | 162 | 179 | 282 | 254 | 273 | 10 | 14.5 | 4 | 3 | 0.35 | 1.74 | 0.96 | 22.6 |
| | 300 | 77 | 70 | 47 | 5 | 4 | 841 | 865 | 99.1 | 1 100 | 1 500 | 31328JR | 7GB | 93.8 | 162 | 167 | 282 | 254 | 280 | 8 | 26 | 4 | 3 | 0.83 | 0.73 | 0.40 | 23.3 |
| | 300 | 107.75 | 102 | 85 | 5 | 4 | 1 370 | 1 570 | 175 | 1 300 | 1 700 | 32328R | — | 74.2 | 162 | 175 | 282 | 246 | 280 | 10 | 17 | 4 | 3 | 0.35 | 1.74 | 0.96 | 35.1 |
| 150 | 210 | 38 | 38 | 30 | 2.5 | 2 | 358 | 536 | 72.1 | 1 600 | 2 100 | 32930JR | 2DC | 36.1 | 162 | 163 | 200 | 194 | 202 | 7 | 8 | 2 | 2 | 0.33 | 1.83 | 1.01 | 3.96 |
| | 225 | 48 | 48 | 36 | 3 | 2.5 | 492 | 668 | 79.6 | 1 500 | 2 000 | 32030JR | 4EC | 48.8 | 164 | 164 | 213 | 200 | 216 | 8 | 12 | 2.5 | 2 | 0.46 | 1.31 | 0.72 | 6.41 |
| | 225 | 59 | 59 | 46 | 3 | 2.5 | 575 | 869 | 101 | 1 500 | 2 000 | 33030JR | 2EE | 47.8 | 164 | 164 | 213 | 200 | 217 | 8 | 13 | 2.5 | 2 | 0.36 | 1.65 | 0.90 | 8.09 |
| | 270 | 49 | 45 | 38 | 4 | 3 | 604 | 664 | 80.9 | 1 300 | 1 800 | 30230JR | 4GB | 52.4 | 168 | 175 | 256 | 234 | 255 | 9 | 11 | 3 | 2.5 | 0.44 | 1.38 | 0.76 | 11.6 |
| | 270 | 77 | 73 | 60 | 4 | 3 | 881 | 1 070 | 122 | 1 300 | 1 800 | 32230JR | 4GD | 65.2 | 168 | 170 | 256 | 226 | 254 | 8 | 17 | 3 | 2.5 | 0.44 | 1.38 | 0.76 | 18.2 |
| | 320 | 72 | 65 | 46 | 5 | 4 | 768 | 750 | 85.7 | 970 | 1 400 | 30330D | — | 96.0 | 172 | 183 | 302 | 270 | 301 | 9 | 26 | 4 | 3 | 0.81 | 0.74 | 0.41 | 23.9 |
| | 320 | 72 | 65 | 55 | 5 | 4 | 1 050 | 1 080 | 129 | 1 200 | 1 500 | 30330JR | 2GB | 60.8 | 172 | 193 | 302 | 272 | 292 | 12 | 17 | 4 | 3 | 0.35 | 1.74 | 0.96 | 26.6 |
| | 320 | 82 | 75 | 50 | 5 | 4 | 952 | 989 | 110 | 980 | 1 400 | 31330JR | 7GB | 100.1 | 172 | 179 | 302 | 272 | 301 | 9 | 27 | 4 | 3 | 0.83 | 0.73 | 0.40 | 28.0 |
| | 320 | 114 | 108 | 90 | 5 | 4 | 1 550 | 1 790 | 195 | 1 200 | 1 600 | 32330R | — | 78.4 | 172 | 187 | 302 | 263 | 298 | 10 | 17 | 4 | 3 | 0.35 | 1.74 | 0.96 | 42.0 |
| | 160 | 220 | 32 | 30 | 23 | 3 | 3 | 282 | 379 | 50.2 | 1 500 | 2 000 | T4DB160 | 4DB | 44.7 | 174 | 172 | 206 | 204 | 213 | 5 | 9 | 2.5 | 2.5 | 0.49 | 1.23 | 0.68 |
| 220 | | 38 | 38 | 30 | 2.5 | 2 | 368 | 568 | 75.2 | 1 500 | 2 000 | 32932JR | 2DC | 38.4 | 172 | 173 | 210 | 204 | 212 | 7 | 8 | 2 | 2 | 0.35 | 1.73 | 0.95 | 4.19 |
| 240 | | 51 | 51 | 38 | 3 | 2.5 | 553 | 758 | 90.3 | 1 400 | 1 900 | 32032JR | 4EC | 52.1 | 174 | 175 | 228 | 213 | 231 | 8 | 13 | 2.5 | 2 | 0.46 | 1.31 | 0.72 | 7.75 |
| 290 | | 52 | 48 | 40 | 4 | 3 | 679 | 750 | 89.3 | 1 200 | 1 600 | 30232JR | 4GB | 56.3 | 178 | 189 | 276 | 252 | 269 | 8 | 12 | 3 | 2.5 | 0.44 | 1.38 | 0.76 | 14.1 |
| 290 | | 84 | 80 | 67 | 4 | 3 | 994 | 1 210 | 137 | 1 200 | 1 700 | 32232JR | 4GD | 70.3 | 178 | 182 | 276 | 242 | 274 | 10 | 17 | 3 | 2.5 | 0.44 | 1.38 | 0.76 | 23.2 |
| 340 | | 75 | 68 | 48 | 5 | 4 | 926 | 933 | 104 | 900 | 1 300 | 30332D | — | 101.8 | 182 | 195 | 322 | 290 | 320 | 9 | 27 | 4 | 3 | 0.81 | 0.74 | 0.41 | 29.1 |
| 340 | | 75 | 68 | 58 | 5 | 4 | 1 170 | 1 220 | 142 | 1 100 | 1 400 | 30332JR | 2GB | 63.3 | 182 | 205 | 322 | 289 | 310 | 12 | 17 | 4 | 3 | 0.35 | 1.74 | 0.96 | 31.8 |
| 340 | | 121 | 114 | 95 | 5 | 4 | 1 530 | 1 720 | 187 | 1 100 | 1 400 | 32332 | — | 83.0 | 182 | 200 | 322 | 277 | 316 | 10 | 18 | 4 | 3 | 0.35 | 1.73 | 0.95 | 47.9 |
| 170 | | 230 | 38 | 38 | 30 | 2.5 | 2 | 370 | 606 | 78.8 | 1 400 | 1 900 | 32934JR | 3DC | 42.0 | 182 | 183 | 220 | 213 | 222 | 7 | 8 | 2 | 2 | 0.38 | 1.57 | 0.86 |

Single-row tapered roller bearings
metric series

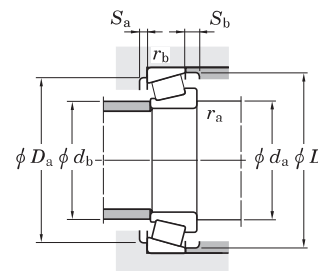
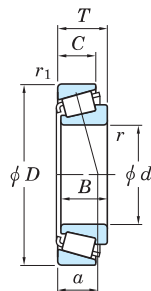
d (170) ~ 200 mm



| Boundary dimensions (mm) | | | | | | | Basic load ratings (kN) | | Fatigue load limit (kN) | Limiting speeds (min ⁻¹) | | Bearing No. | Dimension series to ISO355 (Refer.) | Load center (mm) | Mounting dimensions (mm) | | | | | | | | Constant e | Axial load factors | | (Refer.) Mass (kg) | |
|--------------------------|-----|-----|-----|-----|-----------|------------|-------------------------|----------|-------------------------|--------------------------------------|----------|-------------|-------------------------------------|------------------|--------------------------|------------|------------|------------|------------|------------|------------|------------|--------------|--------------------|-------|--------------------|------|
| d | D | T | B | C | r_{min} | r_{1min} | C_r | C_{0r} | C_u | Grease lub. | Oil lub. | | | | d_a min. | d_b max. | D_a max. | D_b min. | S_a min. | S_b min. | r_a max. | r_b max. | | Y_1 | Y_0 | | |
| 170 | 260 | 57 | 57 | 43 | 3 | 2.5 | 661 | 905 | 105 | 1 300 | 1 700 | 32034JR | 4EC | 55.8 | 184 | 187 | 248 | 230 | 249 | 10 | 14 | 2.5 | 2 | 0.44 | 1.35 | 0.74 | 10.5 |
| | 310 | 57 | 52 | 43 | 5 | 4 | 776 | 867 | 103 | 1 100 | 1 500 | 30234JR | 4GB | 61.2 | 192 | 202 | 292 | 269 | 288 | 8 | 14 | 4 | 3 | 0.44 | 1.38 | 0.76 | 17.8 |
| | 310 | 91 | 86 | 71 | 5 | 4 | 1 120 | 1 380 | 152 | 1 100 | 1 500 | 32234JR | 4GD | 76.2 | 192 | 195 | 292 | 259 | 294 | 10 | 20 | 4 | 3 | 0.44 | 1.38 | 0.76 | 28.9 |
| | 360 | 80 | 72 | 50 | 5 | 4 | 953 | 1 040 | 115 | 830 | 1 200 | 30334D | — | 108.3 | 192 | 211 | 342 | 310 | 333 | 9 | 30 | 4 | 3 | 0.81 | 0.74 | 0.41 | 34.3 |
| | 360 | 80 | 72 | 62 | 5 | 4 | 1 300 | 1 370 | 155 | 1 000 | 1 300 | 30334JR | 2GB | 67.9 | 192 | 218 | 342 | 306 | 329 | 13 | 18 | 4 | 3 | 0.35 | 1.74 | 0.96 | 37.5 |
| | 360 | 127 | 120 | 100 | 5 | 4 | 1 640 | 1 830 | 193 | 1 000 | 1 300 | 32334 | — | 86.1 | 192 | 200 | 342 | 295 | 337 | 14 | 26 | 4 | 3 | 0.35 | 1.73 | 0.95 | 56.9 |
| 180 | 250 | 45 | 45 | 34 | 2.5 | 2 | 447 | 735 | 93.4 | 1 300 | 1 700 | 32936JR | 4DC | 53.5 | 192 | 193 | 240 | 225 | 241 | 8 | 11 | 2 | 2 | 0.48 | 1.25 | 0.69 | 6.64 |
| | 280 | 64 | 64 | 48 | 3 | 2.5 | 810 | 1 100 | 127 | 1 200 | 1 600 | 32036JR | 3FD | 59.5 | 194 | 199 | 268 | 247 | 268 | 10 | 16 | 2.5 | 2 | 0.42 | 1.42 | 0.78 | 14.1 |
| | 320 | 57 | 52 | 43 | 5 | 4 | 771 | 870 | 102 | 1 100 | 1 400 | 30236JR | 4GB | 63.6 | 202 | 211 | 302 | 278 | 297 | 9 | 14 | 4 | 3 | 0.45 | 1.33 | 0.73 | 18.3 |
| | 320 | 91 | 86 | 71 | 5 | 4 | 1 200 | 1 520 | 164 | 1 100 | 1 500 | 32236JR | 4GD | 77.8 | 202 | 204 | 302 | 267 | 303 | 10 | 20 | 4 | 3 | 0.45 | 1.33 | 0.73 | 29.9 |
| | 380 | 83 | 75 | 52 | 5 | 4 | 1 040 | 1 150 | 125 | 780 | 1 100 | 30336D | — | 112.8 | 202 | 225 | 362 | 330 | 351 | 10 | 31 | 4 | 3 | 0.81 | 0.74 | 0.41 | 40.1 |
| | 380 | 83 | 75 | 64 | 5 | 4 | 1 130 | 1 110 | 126 | 940 | 1 300 | 30336 | — | 71.0 | 202 | 227 | 362 | 318 | 346 | 13 | 19 | 4 | 3 | 0.35 | 1.73 | 0.95 | 39.7 |
| | 380 | 134 | 126 | 106 | 5 | 4 | 1 760 | 1 980 | 206 | 960 | 1 300 | 32336 | — | 91.8 | 202 | 215 | 362 | 310 | 355 | 14 | 27 | 4 | 3 | 0.35 | 1.73 | 0.95 | 67.0 |
| 190 | 260 | 45 | 45 | 34 | 2.5 | 2 | 459 | 789 | 88.6 | 1 200 | 1 600 | 32938JR | 4DC | 55.0 | 202 | 204 | 250 | 235 | 252 | 8 | 11 | 2 | 2 | 0.48 | 1.26 | 0.69 | 6.89 |
| | 290 | 64 | 64 | 48 | 3 | 2.5 | 823 | 1 170 | 131 | 1 100 | 1 500 | 32038JR | 4FD | 62.9 | 204 | 209 | 278 | 257 | 279 | 10 | 16 | 2.5 | 2 | 0.44 | 1.36 | 0.75 | 14.7 |
| | 340 | 60 | 55 | 46 | 5 | 4 | 912 | 1 030 | 118 | 1 000 | 1 300 | 30238JR | 4GB | 66.4 | 212 | 225 | 322 | 298 | 318 | 12 | 13 | 4 | 3 | 0.44 | 1.38 | 0.76 | 21.9 |
| | 340 | 97 | 92 | 75 | 5 | 4 | 1 370 | 1 740 | 187 | 1 000 | 1 300 | 32238JR | 4GD | 81.9 | 212 | 216 | 322 | 286 | 323 | 12 | 22 | 4 | 3 | 0.44 | 1.38 | 0.76 | 36.6 |
| | 400 | 86 | 78 | 52 | 6 | 5 | 1 190 | 1 210 | 131 | 740 | 1 000 | 30338D | — | 119.2 | 218 | 232 | 378 | 350 | 372 | 11 | 34 | 5 | 4 | 0.81 | 0.74 | 0.41 | 44.8 |
| | 400 | 86 | 78 | 65 | 6 | 5 | 1 260 | 1 250 | 139 | 880 | 1 200 | 30338 | — | 73.2 | 218 | 241 | 378 | 342 | 370 | 10 | 20 | 5 | 4 | 0.35 | 1.73 | 0.95 | 46.2 |
| | 400 | 140 | 132 | 109 | 6 | 5 | 1 940 | 2 190 | 224 | 890 | 1 200 | 32338 | — | 96.5 | 218 | 225 | 378 | 330 | 375 | 14 | 30 | 5 | 4 | 0.35 | 1.73 | 0.95 | 76.6 |
| 200 | 280 | 51 | 51 | 39 | 3 | 2.5 | 608 | 958 | 109 | 1 100 | 1 500 | 32940JR | 3EC | 53.6 | 214 | 216 | 268 | 257 | 271 | 9 | 12 | 2.5 | 2 | 0.39 | 1.52 | 0.84 | 9.44 |
| | 310 | 70 | 70 | 53 | 3 | 2.5 | 949 | 1 340 | 146 | 1 100 | 1 400 | 32040JR | 4FD | 66.9 | 214 | 221 | 298 | 273 | 297 | 11 | 17 | 2.5 | 2 | 0.43 | 1.39 | 0.77 | 19.1 |
| | 360 | 64 | 58 | 48 | 5 | 4 | 991 | 1 120 | 126 | 940 | 1 200 | 30240JR | 4GB | 70.3 | 222 | 238 | 342 | 315 | 336 | 12 | 15 | 4 | 3 | 0.44 | 1.38 | 0.76 | 26.4 |
| | 360 | 104 | 98 | 82 | 5 | 4 | 1 550 | 1 880 | 200 | 960 | 1 300 | 32240JR | 3GD | 84.6 | 222 | 225 | 342 | 302 | 340 | 11 | 22 | 4 | 3 | 0.41 | 1.48 | 0.81 | 44.2 |
| | 420 | 89 | 80 | 56 | 6 | 5 | 1 130 | 1 230 | 132 | 690 | 970 | 30340D | — | 122.6 | 228 | 248 | 398 | 365 | 385 | 11 | 33 | 5 | 4 | 0.81 | 0.74 | 0.41 | 50.6 |
| | 420 | 89 | 80 | 67 | 6 | 5 | 1 400 | 1 450 | 159 | 820 | 1 100 | 30340 | — | 79.8 | 228 | 255 | 398 | 354 | 385 | 11 | 21 | 5 | 4 | 0.35 | 1.73 | 0.95 | 53.5 |
| | 420 | 146 | 138 | 115 | 6 | 5 | 2 240 | 2 580 | 260 | 830 | 1 100 | 32340 | — | 102.9 | 228 | 240 | 398 | 345 | 395 | 16 | 30 | 5 | 4 | 0.35 | 1.73 | 0.95 | 91.0 |

Single-row tapered roller bearings
metric series

d 220 ~ 360 mm



| Boundary dimensions (mm) | | | | | | | Basic load ratings (kN) | | Fatigue load limit (kN) C_u | Limiting speeds (min ⁻¹) | | Bearing No. | Dimension series to ISO355 (Refer.) | Load center (mm) a | Mounting dimensions (mm) | | | | | | | | Constant e | Axial load factors | | (Refer.) Mass (kg) | |
|--------------------------|-----|------|------|-----|-----------|------------|-------------------------|----------|-------------------------------|--------------------------------------|----------|----------------|-------------------------------------|----------------------|--------------------------|------------|------------|------------|------------|------------|------------|------------|--------------|--------------------|-------|--------------------|------|
| d | D | T | B | C | r_{min} | r_{1min} | C_r | C_{0r} | | Grease lub. | Oil lub. | | | | d_a min. | d_b max. | D_a max. | D_b min. | S_a min. | S_b min. | r_a max. | r_b max. | | Y_1 | Y_0 | | |
| 220 | 300 | 51 | 51 | 39 | 3 | 2.5 | 621 | 1 010 | 112 | 1 000 | 1 400 | 32944JR | 3EC | 58.6 | 234 | 234 | 288 | 275 | 290 | 9 | 12 | 2.5 | 2 | 0.43 | 1.41 | 0.78 | 10.1 |
| | 340 | 76 | 76 | 57 | 4 | 3 | 1 120 | 1 620 | 175 | 940 | 1 300 | 32044JR | 4FD | 72.8 | 238 | 243 | 326 | 300 | 326 | 12 | 19 | 3 | 2.5 | 0.43 | 1.39 | 0.77 | 25.2 |
| | 400 | 72 | 65 | 54 | 5 | 4 | 1 260 | 1 440 | 160 | 830 | 1 100 | 30244JR | — | 76.5 | 242 | 263 | 382 | 344 | 371 | 14 | 17 | 4 | 3 | 0.44 | 1.43 | 0.79 | 35.9 |
| | 400 | 114 | 108 | 90 | 5 | 4 | 1 500 | 1 930 | 198 | 830 | 1 100 | 32244 | — | 95.9 | 242 | 260 | 382 | 333 | 377 | 16 | 14 | 4 | 3 | 0.43 | 1.39 | 0.77 | 56.8 |
| | 460 | 97 | 88 | 73 | 6 | 5 | 1 570 | 1 680 | 181 | 730 | 980 | 30344 | — | 84.6 | 248 | 282 | 438 | 386 | 420 | 12 | 23 | 5 | 4 | 0.35 | 1.73 | 0.95 | 69.0 |
| 240 | 320 | 51 | 51 | 39 | 3 | 2.5 | 645 | 1 090 | 119 | 940 | 1 300 | 32948JR | 4EC | 64.5 | 254 | 254 | 308 | 294 | 311 | 9 | 12 | 2.5 | 2 | 0.46 | 1.31 | 0.72 | 10.9 |
| | 360 | 76 | 76 | 57 | 4 | 3 | 1 160 | 1 720 | 180 | 870 | 1 200 | 32048JR | 4FD | 78.5 | 258 | 261 | 346 | 318 | 346 | 12 | 19 | 3 | 2.5 | 0.46 | 1.31 | 0.72 | 26.8 |
| | 440 | 79 | 72 | 60 | 5 | 4 | 1 540 | 1 790 | 191 | 730 | 980 | 30248R | — | 82.7 | 262 | 287 | 422 | 377 | 409 | 14 | 18 | 4 | 3 | 0.42 | 1.43 | 0.79 | 49.5 |
| | 440 | 127 | 120 | 100 | 5 | 4 | 1 920 | 2 480 | 245 | 740 | 980 | 32248 | — | 106.1 | 262 | 282 | 422 | 365 | 415 | 16 | 14 | 4 | 3 | 0.43 | 1.39 | 0.77 | 76.4 |
| 260 | 360 | 63.5 | 63.5 | 48 | 3 | 2.5 | 926 | 1 550 | 163 | 830 | 1 100 | 32952JR | 3EC | 69.6 | 274 | 279 | 348 | 328 | 347 | 11 | 15.5 | 2.5 | 2 | 0.41 | 1.48 | 0.81 | 18.9 |
| | 400 | 87 | 87 | 65 | 5 | 4 | 1 470 | 2 170 | 221 | 770 | 1 000 | 32052JR | 4FC | 85.0 | 282 | 287 | 382 | 352 | 383 | 14 | 22 | 4 | 3 | 0.43 | 1.38 | 0.76 | 39.5 |
| | 480 | 89 | 80 | 67 | 6 | 5 | 1 510 | 1 860 | 190 | 650 | 870 | 30252 | — | 93.6 | 288 | 310 | 458 | 415 | 450 | 14 | 21 | 5 | 4 | 0.42 | 1.44 | 0.79 | 64.9 |
| | 480 | 137 | 130 | 106 | 6 | 5 | 2 200 | 2 870 | 276 | 660 | 880 | 32252 | — | 115.2 | 288 | 300 | 458 | 400 | 455 | 16 | 30 | 5 | 4 | 0.43 | 1.39 | 0.77 | 102 |
| 280 | 380 | 63.5 | 63.5 | 48 | 3 | 2.5 | 949 | 1 630 | 168 | 770 | 1 000 | 32956JR | 4EC | 75.1 | 294 | 298 | 368 | 347 | 368 | 11 | 15.5 | 2.5 | 2 | 0.43 | 1.39 | 0.76 | 20.1 |
| | 420 | 87 | 87 | 65 | 5 | 4 | 1 510 | 2 280 | 230 | 720 | 960 | 32056JR | 4FC | 91.1 | 302 | 305 | 402 | 370 | 402 | 14 | 22 | 4 | 3 | 0.46 | 1.31 | 0.72 | 41.7 |
| | 500 | 89 | 80 | 67 | 6 | 5 | 1 580 | 1 920 | 196 | 610 | 810 | 30256 | — | 96.2 | 308 | 325 | 478 | 440 | 475 | 14 | 21 | 5 | 4 | 0.42 | 1.44 | 0.79 | 67.6 |
| | 500 | 137 | 130 | 106 | 6 | 5 | 2 340 | 3 150 | 297 | 610 | 810 | 32256 | — | 117.2 | 308 | 325 | 478 | 420 | 474 | 16 | 30 | 5 | 4 | 0.43 | 1.39 | 0.77 | 108 |
| 300 | 420 | 76 | 76 | 57 | 4 | 3 | 1 320 | 2 210 | 223 | 680 | 910 | 32960JR | 3FD | 79.9 | 318 | 324 | 406 | 383 | 405 | 12 | 19 | 3 | 2.5 | 0.39 | 1.52 | 0.84 | 32.4 |
| | 460 | 100 | 100 | 74 | 5 | 4 | 1 800 | 2 660 | 263 | 640 | 850 | 32060JR | 4GD | 97.9 | 322 | 329 | 442 | 404 | 439 | 15 | 26 | 4 | 3 | 0.43 | 1.38 | 0.76 | 57.5 |
| | 540 | 96 | 85 | 71 | 6 | 5 | 1 890 | 2 360 | 240 | 550 | 730 | 30260 | — | 103.9 | 328 | 350 | 518 | 475 | 505 | 14 | 24 | 5 | 4 | 0.42 | 1.44 | 0.79 | 84.7 |
| 320 | 440 | 76 | 76 | 57 | 4 | 3 | 1 330 | 2 270 | 226 | 640 | 850 | 32964JR | 3FD | 85.0 | 338 | 342 | 426 | 401 | 426 | 12 | 19 | 3 | 2.5 | 0.42 | 1.44 | 0.79 | 34.0 |
| | 480 | 100 | 100 | 74 | 5 | 4 | 1 900 | 2 810 | 273 | 600 | 800 | 32064JR | 4GD | 103.0 | 342 | 344 | 462 | 418 | 461 | 16 | 26 | 4 | 3 | 0.46 | 1.31 | 0.72 | 58.7 |
| | 580 | 104 | 92 | 75 | 6 | 5 | 2 190 | 2 770 | 273 | 490 | 660 | 30264 | — | 111.9 | 348 | 370 | 558 | 505 | 540 | 14 | 28 | 5 | 4 | 0.42 | 1.44 | 0.79 | 108 |
| 340 | 460 | 76 | 76 | 57 | 4 | 3 | 1 340 | 2 340 | 229 | 590 | 790 | 32968JR | 4FD | 90.5 | 358 | 361 | 446 | 420 | 446 | 12 | 19 | 3 | 2.5 | 0.44 | 1.37 | 0.75 | 35.6 |
| 360 | 480 | 76 | 76 | 57 | 4 | 3 | 1 350 | 2 400 | 231 | 560 | 740 | 32972JR | 4FD | 96.2 | 378 | 379 | 466 | 438 | 466 | 12 | 19 | 3 | 2.5 | 0.46 | 1.31 | 0.72 | 37.1 |