YUANHE

# Tapered Roller Bearings

Yuanhe Transmission (Zhenjiang) Co., Ltd.

## Tapered Roller Bearings

Tapered roller bearings are mainly suitable for bearing combined radial and axial loads dominated by radial loads, while large taper angle tapered roller bearings can be used to withstand combined radial and axial loads dominated by axial loads. This type of bearing is a separable bearing, and its inner ring assembly (including tapered rollers and cage) and outer ring can be installed separately. During installation and use, the radial clearance and axial clearance of the bearing can be adjusted, and pre-interference installation is also possible.

### 1.1 Single row tapered roller bearings

Single row tapered roller bearings can limit the axial displacement of the shaft and housing in one direction, and bear the axial load in one direction. Additional axial force will be generated under the action of radial load, therefore, it is generally used in pairs in the two bearings of the shaft.

The tapered roller bearings of the 31300 series have a large contact angle (27°~30°) and can withstand large axial loads. Other series bearing contact angle is between 10°~18°.

### 1.2 Double row tapered roller bearing type 350000

Double row tapered roller bearings have a double raceway outer ring and two inner rings, and there is a spacer between the two inner rings. Changing the thickness of the spacer can adjust the axial clearance of the bearing. It can bear two-way axial load while loading, and can limit the two-way axial displacement of the shaft or housing within the range of the axial clearance of the bearing. Double row tapered roller bearings with double half outer ring structure are also available.

## 2. Tolerance and clearance

Tapered roller bearings can be manufactured in various tolerance classes as required.

The clearance of single row tapered roller bearings can be adjusted by users during installation according to different requirements. The radial clearance of double row tapered roller bearings can be adjusted according to the above tolerance and clearance part according to the user's requirements.

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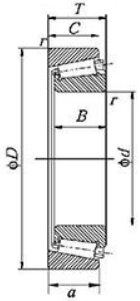


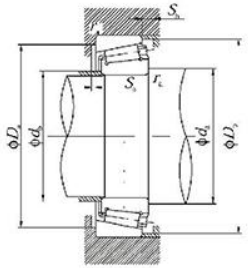


*d* **15~30 mm**

| Main Dimensions (mm) | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | Installation related dimensions | | | | | | | | Action point location | constant | Axial load factor | | Reference Quality |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | r (Min) | | | | | | | $d_a$ | $d_b$ | $D_a$ | $D_b$ | $S_a$ | $S_b$ | $r_a$ (Max) | | mm | | | | (kg) |
| *d* | *D* | *T* | *B* | *C* | inner outer | $C_r$ | $C_{0r}$ | Grease | Oil | | Min | Max | Max | Min | Min | Min | inner | outer | *a* | *e* | $Y_1$ | $Y_0$ | |
| **15** | 35 | 11.75 | 11 | 10 | 0.6 | 0.6 | 14.8 | 13.2 | 11,000 | 15,000 | 30202 | 23 | 19 | 30 | 33 | 2 | 1.5 | 0.6 | 0.6 | 8.2 | 0.32 | 1.9 | 1.0 | 0.056 |
| | 42 | 14.25 | 13 | 11 | 1 | 1 | 23.6 | 21.1 | 9,500 | 13,000 | 30302 | 24 | 22 | 36 | 38.5 | 2 | 3 | 1 | 1 | 9.5 | 0.29 | 2.1 | 1.2 | 0.096 |
| **17** | 40 | 13.25 | 12 | 11 | 1 | 1 | 20.1 | 19.9 | 9,500 | 13,000 | 30203 | 26 | 23 | 34 | 37.5 | 2 | 2 | 1 | 1 | 9.7 | 0.35 | 1.7 | 0.96 | 0.079 |
| | 40 | 17.25 | 16 | 14 | 1 | 1 | 22.7 | 23.3 | 9,500 | 13,000 | 32203 | 26 | 22 | 34 | 37.5 | 2 | 3 | 1 | 1 | 11.0 | 0.29 | 2.1 | 1.1 | 0.105 |
| | 47 | 15.25 | 14 | 12 | 1 | 1 | 29.2 | 26.7 | 8,500 | 12,000 | 30303 | 26 | 24 | 41 | 43 | 2 | 3 | 1 | 1 | 10.4 | 0.29 | 2.1 | 1.2 | 0.133 |
| | 47 | 20.25 | 19 | 16 | 1 | 1 | 36.6 | 35.9 | 8,500 | 11,000 | 32303 | 23 | 24 | 41 | 43 | 2 | 4 | 1 | 1 | 12.2 | 0.29 | 2.1 | 1.1 | 0.174 |
| **20** | 42 | 15 | 15 | 12 | 0.6 | 0.6 | 24.6 | 27.4 | 9,000 | 12,000 | 32004 | 28 | 24 | 37 | 40 | 3 | 3 | 0.6 | 0.6 | 10.6 | 0.37 | 1.6 | 0.88 | 0.102 |
| | 47 | 15.25 | 14 | 12 | 1 | 1 | 27.9 | 28.5 | 8,000 | 11,000 | 30204 | 29 | 27 | 41 | 44 | 2 | 3 | 1 | 1 | 11.0 | 0.35 | 1.7 | 0.96 | 0.124 |
| | 47 | 19.25 | 18 | 15 | 1 | 1 | 31.5 | 33.5 | 8,000 | 10,000 | 32204 | 29 | 26 | 41 | 44 | 2 | 4 | 1 | 1 | 12.7 | 0.35 | 1.7 | 0.95 | 0.158 |
| | 52 | 16.25 | 15 | 13 | 1.5 | 1.5 | 35 | 33.5 | 7,500 | 10,000 | 30304 | 31 | 27 | 44 | 47.5 | 2 | 3 | 2.0 | 1.1 | 11.6 | 0.30 | 2 | 1.1 | 0.171 |
| | 52 | 22.25 | 21 | 18 | 1.5 | 1.5 | 45.5 | 47.5 | 8,000 | 11,000 | 32304 | 33 | 26 | 43 | 48 | 3 | 4 | 1.5 | 1.5 | 13.9 | 0.30 | 2 | 1.1 | 0.204 |
| **22** | 44 | 15 | 15 | 11.5 | 0.6 | 0.6 | 25.6 | 29.4 | 8,500 | 11,000 | 320/24 | 30 | 27 | 39 | 42 | 3 | 3.5 | 0.6 | 0.6 | 11.1 | 0.40 | 1.5 | 0.83 | 0.103 |
| | 50 | 15.25 | 14 | 12 | 1 | 1 | 29.2 | 30.5 | 7,500 | 10,000 | 302/22 | 31 | 29 | 44 | 47 | 2 | 3 | 1 | 1 | 11.6 | 0.37 | 1.6 | 0.9 | 0.139 |
| | 50 | 19.25 | 18 | 15 | 1 | 1 | 36.5 | 40.5 | 7,500 | 11,000 | 322/22 | 31 | 28 | 44 | 47 | 2 | 4 | 1 | 1 | 13.0 | 0.49 | 1.6 | 0.89 | 0.180 |
| **25** | 47 | 15 | 15 | 11.5 | 0.6 | 0.6 | 27.4 | 33 | 8,300 | 11,000 | 32005 | 33 | 30 | 42 | 45 | 3 | 3.5 | 0.6 | 0.6 | 11.8 | 0.43 | 1.4 | 0.77 | 0.118 |
| | 47 | 17 | 17 | 14 | 0.6 | 0.6 | 31 | 38 | 8,000 | 11,000 | 33005 | 33 | 29 | 42 | 44 | 3 | 3 | 0.6 | 0.6 | 11.0 | 0.29 | 2.1 | 1.1 | 0.131 |
| | 52 | 16.25 | 15 | 13 | 1 | 1 | 32 | 35 | 7,000 | 9,000 | 30205 | 34 | 31 | 46 | 48.5 | 2 | 3 | 1 | 1 | 12.7 | 0.38 | 1.6 | 0.88 | 0.159 |
| | 52 | 19.25 | 18 | 15 | 1 | 1 | 38.5 | 43.5 | 7,000 | 10,000 | 32205 | 34 | 30 | 46 | 49 | 2 | 4 | 1 | 1 | 13.7 | 0.39 | 1.5 | 0.85 | 0.186 |
| | 52 | 22 | 22 | 18 | 1 | 1 | 47.5 | 56.5 | 7,900 | 10,000 | 33205 | 34 | 29 | 46 | 49.5 | 4 | 4 | 1 | 1 | 14.1 | 0.35 | 1.7 | 0.94 | 0.225 |
| | 62 | 18.25 | 17 | 15 | 1.5 | 1.5 | 47.5 | 46 | 6,300 | 8,500 | 30305 | 36 | 34 | 54 | 57 | 2 | 3 | 1.5 | 1.5 | 13.2 | 0.30 | 2 | 1.1 | 0.271 |
| | 62 | 18.25 | 17 | 13 | 1.5 | 1.5 | 38 | 40 | 5,700 | 8,000 | 31305 | 34 | 32 | 47 | 59 | 3 | 5 | 1.5 | 1.5 | 19.1 | 0.81 | 0.74 | 0.41 | 0.260 |
| | 62 | 25.25 | 24 | 20 | 1.5 | 1.5 | 62.5 | 66 | 6,300 | 8,000 | 32305 | 38 | 32 | 53 | 59 | 3 | 5 | 1.5 | 1.5 | 15.6 | 0.30 | 2 | 1.1 | 0.365 |
| **28** | 52 | 16 | 16 | 12 | 1 | 1 | 32 | 39 | 7,100 | 9,500 | 320/28 | 37 | 33 | 46 | 50 | 3 | 4 | 1 | 1 | 12.8 | 0.43 | 1.4 | 0.77 | 0.146 |
| | 58 | 17.25 | 16 | 14 | 1 | 1 | 39.5 | 41.5 | 6,300 | 9,000 | 302/28 | 37 | 34 | 52 | 55 | 2 | 3 | 1 | 1 | 13.2 | 0.35 | 1.7 | 0.93 | 0.203 |
| | 68 | 19.75 | 18 | 15 | 1.5 | 1.5 | 55 | 55.5 | 6,000 | 8,000 | 303/28 | 39 | 37 | 59 | 61 | 2 | 4.5 | 1.5 | 1.5 | 14.5 | 0.31 | 1.9 | 1.1 | 0.341 |
| **30** | 55 | 17 | 17 | 13 | 1 | 1 | 36 | 44.5 | 6,700 | 9,000 | 32006 | 39 | 35 | 49 | 53 | 3 | 4 | 1 | 1 | 13.5 | 0.43 | 1.4 | 0.77 | 0.170 |
| | 62 | 17.25 | 16 | 14 | 1 | 1 | 43 | 47.5 | 6,000 | 8,000 | 30206 | 39 | 37 | 56 | 58 | 2 | 3 | 1 | 1 | 13.9 | 0.38 | 1.6 | 0.88 | 0.245 |
| | 62 | 21.25 | 20 | 17 | 1 | 1 | 52 | 60 | 6,000 | 8,500 | 32206 | 39 | 36 | 56 | 58.5 | 2 | 4 | 1 | 1 | 15.4 | 0.38 | 1.6 | 0.88 | 0.285 |

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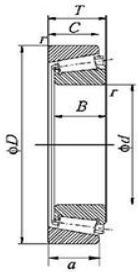


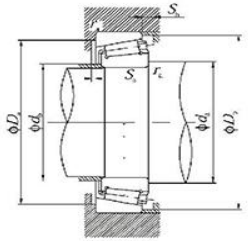


*d* 30~45 mm

| Main Dimensions (mm) | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | Installation related dimensions | | | | | | | | Action point location | constant | Axial load factor | | Reference Quality |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | r (Min) | | | | | | | $d_a$ | $d_b$ | $D_a$ | $D_b$ | $S_a$ | $S_b$ | $r_a$ inner | $r_a$ outer | mm | | | | (kg) |
| *d* | *D* | *T* | *B* | *C* | inner | outer | $C_r$ | $C_{0r}$ | Grease | Oil | | Min | Max | Max | Min | Min | Min | (Max) | *a* | *e* | $Y_1$ | $Y_0$ | |
| **30** | 62 | 25 | 25 | 19.5 | 1 | 1 | 66.5 | 79.5 | 6,000 | 8,000 | 33206 | 39 | 35 | 56 | 59.5 | 5 | 5.5 | 1 | 1 | 16.1 | 0.34 | 1.8 | 0.97 | 0.355 |
| | 72 | 20.75 | 19 | 16 | 1.5 | 1.5 | 59.5 | 60 | 5,300 | 7,500 | 30306 | 41 | 40 | 63 | 66 | 3 | 4.5 | 1.5 | 1.5 | 15.1 | 0.32 | 1.9 | 1 | 0.408 |
| | 72 | 20.75 | 19 | 14 | 1.5 | 1.5 | 47.3 | 50 | 5,000 | 6,700 | 31306 | 40 | 37 | 55 | 68 | 3 | 6.5 | 1.5 | 1.5 | 22.3 | 0.81 | 0.74 | 0.41 | 0.378 |
| | 72 | 28.75 | 27 | 23 | 1.5 | 1.5 | 80 | 88.5 | 5,600 | 7,000 | 32306 | 43 | 36 | 63 | 68 | 3 | 5.5 | 1.5 | 1.5 | 18.0 | 0.32 | 1.6 | 0.88 | 0.575 |
| **32** | 58 | 17 | 17 | 13 | 1 | 1 | 37.5 | 47 | 6,300 | 8,500 | 320/32 | 41 | 37 | 52 | 55 | 3 | 4 | 1 | 1 | 14.2 | 0.45 | 1.3 | 0.73 | 0.191 |
| | 65 | 18.25 | 17 | 15 | 1 | 1 | 48.5 | 54 | 5,600 | 8,000 | 302/32 | 41 | 39 | 59 | 61 | 3 | 3 | 1 | 1 | 14.7 | 0.37 | 1.6 | 0.88 | 0.275 |
| | 65 | 22.25 | 21 | 18 | 1 | 1 | 56 | 65 | 6,000 | 8,000 | 322/32 | 41 | 38 | 59 | 61 | 3 | 4 | 1 | 1 | 15.9 | 0.37 | 1.6 | 0.88 | 0.336 |
| | 65 | 26 | 26 | 20.5 | 1 | 1 | 70 | 86.5 | 5,600 | 8,000 | 332/32 | 41 | 38 | 59 | 62 | 5 | 5.5 | 1 | 1 | 17.0 | 0.35 | 1.7 | 0.95 | 0.400 |
| **35** | 62 | 18 | 18 | 14 | 1 | 1 | 43.5 | 55.5 | 5,600 | 8,000 | 32007 | 44 | 40 | 56 | 60 | 4 | 4 | 1 | 1 | 15.0 | 0.45 | 1.3 | 0.73 | 0.223 |
| | 62 | 21 | 21 | 17 | 1 | 1 | 49 | 65 | 5,600 | 8,000 | 33007 | 44 | 40 | 56 | 59 | 4 | 4 | 1 | 1 | 14.1 | 0.31 | 2 | 1.1 | 0.267 |
| | 72 | 18.25 | 17 | 15 | 1.5 | 1.5 | 54 | 59.5 | 5,300 | 7,100 | 30207 | 46 | 43 | 63 | 67 | 3 | 3 | 1.5 | 1.5 | 15.0 | 0.38 | 1.6 | 0.88 | 0.345 |
| | 72 | 24.25 | 23 | 19 | 1.5 | 1.5 | 70.5 | 83.5 | 5,300 | 7,100 | 32207 | 46 | 42 | 63 | 67.5 | 3 | 5 | 1.5 | 1.5 | 17.9 | 0.38 | 1.6 | 0.88 | 0.458 |
| | 72 | 28 | 28 | 22 | 1.5 | 1.5 | 86.5 | 108 | 5,300 | 7,100 | 33207 | 46 | 41 | 63 | 68 | 5 | 6 | 1.5 | 1.5 | 18.3 | 0.35 | 1.7 | 0.93 | 0.540 |
| | 80 | 22.75 | 21 | 18 | 2 | 1.5 | 76 | 79 | 4,800 | 6,700 | 30307 | 47 | 45 | 71 | 74 | 3 | 4.5 | 2 | 1.5 | 16.7 | 0.32 | 1.9 | 1 | 0.513 |
| | 80 | 22.75 | 21 | 15 | 2 | 1.5 | 62 | 68 | 4,300 | 6,000 | 31307 | 51 | 44 | 71 | 77 | 3 | 7.5 | 2 | 1.5 | 25.2 | 0.83 | 0.73 | 0.4 | 0.520 |
| | 80 | 32.75 | 31 | 25 | 2 | 1.5 | 99 | 111 | 5,000 | 6,700 | 32307 | 49 | 43 | 71 | 74 | 3 | 7.5 | 2 | 1.5 | 20.7 | 0.32 | 1.9 | 1 | 0.760 |
| **40** | 62 | 15 | 15 | 12 | 0.6 | 0.6 | 34 | 47 | 5,600 | 7,500 | 32908 | 48 | 44 | 57 | 59 | 3 | 3 | 0.6 | 0.6 | 11.5 | 0.29 | 2.1 | 1.1 | 0.163 |
| | 68 | 19 | 19 | 14.5 | 1 | 1 | 52.5 | 71 | 5,300 | 7,100 | 32008 | 49 | 45 | 62 | 65.5 | 4 | 4.5 | 1 | 1 | 15.0 | 0.38 | 1.6 | 0.87 | 0.280 |
| | 80 | 19.75 | 18 | 16 | 1.5 | 1.5 | 63.5 | 70 | 4,800 | 6,300 | 30208 | 51 | 48 | 71 | 75 | 3 | 3.5 | 1.5 | 1.5 | 16.6 | 0.38 | 1.6 | 0.88 | 0.438 |
| | 80 | 24.75 | 23 | 19 | 1.5 | 1.5 | 74 | 90.5 | 4,500 | 6,300 | 32208 | 51 | 47 | 71 | 76 | 3 | 5.5 | 1.5 | 1.5 | 18.9 | 0.38 | 1.6 | 0.88 | 0.559 |
| | 90 | 25.25 | 23 | 20 | 2 | 1.5 | 90.5 | 101 | 4,300 | 5,600 | 30308 | 52 | 52 | 81 | 82 | 3 | 5 | 2 | 1.5 | 19.5 | 0.35 | 1.7 | 0.96 | 0.761 |
| | 90 | 25.25 | 23 | 17 | 2 | 1.5 | 80 | 89.5 | 4,000 | 5,300 | 31308 | 56 | 50 | 81 | 87 | 3 | 8 | 2 | 1.5 | 20.8 | 0.36 | 1.7 | 0.9 | 0.726 |
| | 90 | 35.25 | 33 | 27 | 2 | 1.5 | 120 | 145 | 4,500 | 6,000 | 32308 | 54 | 50 | 81 | 82 | 3 | 8 | 2 | 1.5 | 23.4 | 0.35 | 1.7 | 0.96 | 1.045 |
| **45** | 68 | 15 | 15 | 12 | 0.6 | 0.6 | 34.5 | 50.5 | 5,000 | 6,700 | 32909 | 53 | 50 | 63 | 64 | 3 | 3 | 0.6 | 0.6 | 12.3 | 0.32 | 1.9 | 1 | 0.187 |
| | 75 | 20 | 20 | 15.5 | 1 | 1 | 60 | 83 | 4,500 | 6,300 | 32009 | 54 | 51 | 69 | 72 | 4 | 4.5 | 1 | 1 | 16.6 | 0.39 | 1.5 | 0.84 | 0.354 |
| | 85 | 20.75 | 19 | 16 | 1.5 | 1.5 | 68.5 | 79.5 | 4,300 | 6,000 | 30209 | 56 | 53 | 76 | 80 | 3 | 4.5 | 1.5 | 1.5 | 18.3 | 0.41 | 1.5 | 0.81 | 0.506 |
| | 85 | 24.75 | 23 | 19 | 1.5 | 1.5 | 83 | 102 | 4,300 | 6,000 | 32209 | 56 | 53 | 76 | 81 | 3 | 5.5 | 1.5 | 1.5 | 20.1 | 0.41 | 1.5 | 0.81 | 0.602 |

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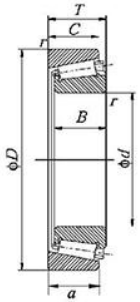
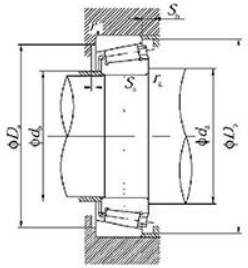


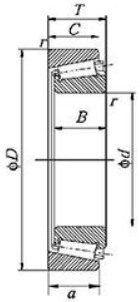



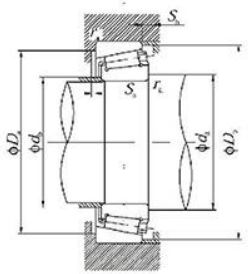

*d* 45~65 mm

| d | Main Dimensions (mm) D | T | B | C | r (Min) inner | r (Min) outer | Basic Rated Load (kN) $C_r$ | $C_{0r}$ | Limit Speed (r/min) Grease | Oil | Nominal Model | Installation related dimensions $d_a$ Min | $d_b$ Max | $D_a$ Max | $D_b$ Min | $S_a$ Min | $S_b$ Min | $r_a$ inner (Max) | $r_a$ outer (Max) | Action point location mm a | constant e | Axial load factor $Y_1$ | $Y_0$ | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **45** | 100 | 27.25 | 25 | 22 | 2 | 1.5 | 112 | 127 | 3,800 | 5,300 | 30309 | 57 | 58 | 91 | 93 | 3 | 5 | 2 | 1.5 | 21.1 | 0.35 | 1.7 | 0.96 | 1.008 |
| | 100 | 27.25 | 25 | 18 | 2 | 1.5 | 95.5 | 109 | 4,000 | 5,000 | 31309 | 61 | 57 | 91 | 96 | 3 | 9 | 2 | 1.5 | 31.5 | 0.83 | 0.73 | 0.40 | 0.958 |
| | 100 | 38.25 | 36 | 30 | 2 | 1.5 | 144 | 177 | 3,800 | 5,300 | 32309 | 59 | 56 | 91 | 93 | 3 | 8 | 2 | 1.5 | 25.0 | 0.35 | 1.7 | 0.96 | 1.417 |
| **50** | 72 | 15 | 15 | 12 | 0.6 | 0.6 | 36 | 54 | 4,500 | 6,300 | 32910 | 58 | 54 | 67 | 69 | 3 | 3 | 0.6 | 0.6 | 13.5 | 0.34 | 1.8 | 0.97 | 0.192 |
| | 80 | 20 | 20 | 15.5 | 1 | 1 | 61 | 87 | 4,300 | 6,000 | 32010 | 59 | 56 | 74 | 77 | 4 | 4.5 | 1 | 1 | 17.9 | 0.42 | 1.4 | 0.78 | 0.310 |
| | 90 | 21.75 | 20 | 17 | 1.5 | 1.5 | 76 | 91.5 | 4,000 | 5,300 | 30210 | 61 | 58 | 81 | 85 | 3 | 4.5 | 1.5 | 1.5 | 19.6 | 0.42 | 1.4 | 0.79 | 0.592 |
| | 90 | 24.75 | 23 | 19 | 1.5 | 1.5 | 87.5 | 109 | 4,000 | 5,300 | 32210 | 61 | 57 | 81 | 86 | 3 | 5.5 | 1.5 | 1.5 | 21.0 | 0.42 | 1.4 | 0.79 | 0.618 |
| | 110 | 29.25 | 27 | 23 | 2.5 | 2 | 130 | 148 | 3,400 | 4,800 | 30310 | 65 | 65 | 100 | 102 | 3 | 6 | 2 | 2 | 23.1 | 0.35 | 1.7 | 0.96 | 1.250 |
| | 110 | 29.25 | 27 | 19 | 2.5 | 2 | 106 | 120 | 3,800 | 4,800 | 31310 | 62 | 60 | 100 | 104 | 4 | 10 | 2 | 2 | 34.2 | 0.83 | 0.73 | 0.40 | 1.254 |
| | 110 | 42.25 | 40 | 33 | 2.5 | 2 | 176 | 220 | 3,600 | 4,800 | 32310 | 68 | 62 | 100 | 102 | 3 | 9 | 2 | 2 | 27.9 | 0.35 | 1.7 | 0.96 | 1.885 |
| **55** | 90 | 23 | 23 | 17.5 | 1.5 | 1.5 | 81.5 | 117 | 3,800 | 5,300 | 32011 | 66 | 62 | 81 | 86 | 4 | 5.5 | 1.5 | 1.5 | 19.7 | 0.41 | 1.5 | 0.81 | 0.530 |
| | 100 | 22.75 | 21 | 18 | 2 | 1.5 | 94.5 | 113 | 3,600 | 5,000 | 30211 | 67 | 64 | 91 | 94 | 4 | 4.5 | 2 | 1.5 | 20.9 | 0.41 | 1.5 | 0.81 | 0.739 |
| | 100 | 26.75 | 25 | 21 | 2 | 1.5 | 110 | 137 | 3,600 | 5,000 | 32211 | 67 | 63 | 91 | 95 | 4 | 5.5 | 2 | 1.5 | 22.7 | 0.41 | 1.5 | 0.81 | 0.915 |
| | 120 | 31.5 | 29 | 25 | 2.5 | 2 | 150 | 171 | 3,200 | 4,300 | 30311 | 70 | 71 | 110 | 111 | 4 | 6.5 | 2 | 2 | 24.6 | 0.35 | 1.7 | 0.96 | 1.628 |
| | 120 | 31.5 | 29 | 21 | 2.5 | 2 | 121 | 137 | 3,400 | 4,300 | 31311 | 68 | 65 | 110 | 113 | 4 | 10.5 | 2 | 2 | 37.0 | 0.83 | 0.73 | 0.40 | 1.576 |
| | 120 | 45.5 | 43 | 35 | 2.5 | 2 | 204 | 258 | 3,200 | 4,300 | 32311 | 73 | 67 | 110 | 111 | 4 | 10.5 | 2 | 2 | 29.9 | 0.35 | 1.7 | 0.96 | 2.390 |
| **60** | 95 | 23 | 23 | 17.5 | 1.5 | 1.5 | 85.5 | 127 | 3,600 | 5,000 | 32012 | 71 | 66 | 86 | 91 | 4 | 5.5 | 1.5 | 1.5 | 20.9 | 0.43 | 1.4 | 0.77 | 0.560 |
| | 110 | 23.75 | 22 | 19 | 2 | 1.5 | 104 | 123 | 3,400 | 4,500 | 30212 | 72 | 69 | 101 | 103 | 4 | 4.5 | 2 | 1.5 | 22.0 | 0.41 | 1.5 | 0.81 | 0.934 |
| | 110 | 29.75 | 28 | 24 | 2 | 1.5 | 131 | 167 | 3,400 | 4,500 | 32212 | 72 | 68 | 101 | 104 | 4 | 5.5 | 2 | 1.5 | 24.1 | 0.41 | 1.5 | 0.81 | 1.197 |
| | 130 | 33.5 | 31 | 26 | 3 | 2.5 | 174 | 201 | 3,000 | 4,000 | 30312 | 78 | 77 | 118 | 120 | 4 | 7.5 | 2.5 | 2 | 26.0 | 0.35 | 1.7 | 0.96 | 1.940 |
| | 130 | 33.5 | 31 | 22 | 3 | 2.5 | 145 | 166 | 2,600 | 3,600 | 31312 | 84 | 74 | 118 | 125 | 4 | 11.5 | 2.5 | 2 | 40.3 | 0.83 | 0.73 | 0.40 | 1.896 |
| | 130 | 48.5 | 46 | 37 | 3 | 2.5 | 233 | 295 | 3,000 | 4,000 | 32312 | 81 | 74 | 118 | 120 | 4 | 11.5 | 2.5 | 2 | 31.4 | 0.35 | 1.7 | 0.96 | 2.880 |
| **65** | 100 | 23 | 23 | 17.5 | 1.5 | 1.5 | 86.5 | 132 | 3,400 | 4,500 | 32013 | 76 | 71 | 91 | 97 | 4 | 5.5 | 1.5 | 1.5 | 22.4 | 0.46 | 1.3 | 0.72 | 0.630 |
| | 120 | 24.75 | 23 | 20 | 2 | 1.5 | 122 | 151 | 3,000 | 4,000 | 30213 | 77 | 78 | 111 | 113 | 4 | 4.5 | 2 | 1.5 | 23.8 | 0.41 | 1.5 | 0.81 | 1.132 |
| | 120 | 32.75 | 31 | 27 | 2 | 1.5 | 157 | 202 | 3,000 | 4,000 | 32213 | 77 | 75 | 111 | 115 | 4 | 5.5 | 2 | 1.5 | 27.1 | 0.41 | 1.5 | 0.81 | 1.580 |
| | 140 | 36 | 33 | 28 | 3 | 2.5 | 200 | 233 | 2,600 | 3,600 | 30313 | 83 | 83 | 128 | 130 | 4 | 8 | 2.5 | 2 | 27.9 | 0.35 | 1.7 | 0.96 | 2.629 |
| | 140 | 36 | 33 | 23 | 3 | 2.5 | 173 | 205 | 2,800 | 3,600 | 31313 | 89 | 80 | 128 | 133 | 4 | 13 | 2.5 | 2 | 43.2 | 0.83 | 0.73 | 0.4 | 2.426 |
| | 140 | 51 | 48 | 39 | 3 | 2.5 | 267 | 340 | 2,800 | 3,800 | 32313 | 86 | 80 | 128 | 130 | 4 | 12 | 2.5 | 2 | 34.0 | 0.35 | 1.7 | 0.96 | 3.609 |

# Tapered Roller Bearings

YUANHE




*d* 70~90 mm

| Main Dimensions (mm) | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | Installation related dimensions | | | | | | | | Action point location | constant | Axial load factor | | Reference Quality |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | r (Min) | | | | | | | $d_a$ | $d_b$ | $D_a$ | $D_b$ | $S_a$ | $S_b$ | $r_a$ inner | $r_a$ outer | mm | | | | (kg) |
| *d* | *D* | *T* | *B* | *C* | inner outer | $C_r$ | $C_{0r}$ | Grease | Oil | | Min | Max | Max | Min | Min | Min | (Max) | | *a* | *e* | $Y_1$ | $Y_0$ | |
| **70** | 110 | 25 | 25 | 19 | 1.5 | 1.5 | 104 | 158 | 3,200 | 4,300 | 32014 | 81 | 77 | 101 | 105 | 5 | 6 | 1.5 | 1.5 | 23.7 | 0.43 | 1.4 | 0.76 | 0.850 |
| | 125 | 26.25 | 24 | 21 | 2 | 1.5 | 132 | 163 | 2,800 | 4,000 | 30214 | 82 | 81 | 116 | 118 | 4 | 5 | 2 | 1.5 | 25.6 | 0.42 | 1.4 | 0.79 | 1.296 |
| | 125 | 33.25 | 31 | 27 | 2 | 1.5 | 157 | 205 | 2,800 | 4,000 | 32214 | 82 | 80 | 116 | 119 | 4 | 6 | 2 | 1.5 | 28.6 | 0.42 | 1.4 | 0.79 | 1.620 |
| | 150 | 38 | 35 | 30 | 3 | 2.5 | 227 | 268 | 2,400 | 3,400 | 30314 | 88 | 89 | 138 | 140 | 4 | 8 | 2.5 | 2 | 29.7 | 0.35 | 1.7 | 0.96 | 3.170 |
| | 150 | 38 | 35 | 25 | 3 | 2.5 | 192 | 229 | 2,600 | 3,400 | 31314 | 94 | 85 | 138 | 142 | 4 | 13 | 2.5 | 2 | 45.7 | 0.83 | 0.73 | 0.4 | 2.935 |
| | 150 | 54 | 51 | 42 | 3 | 2.5 | 300 | 390 | 2,600 | 3,400 | 32314 | 91 | 86 | 138 | 140 | 4 | 12 | 2.5 | 2 | 36.0 | 0.35 | 1.7 | 0.96 | 4.346 |
| **75** | 115 | 25 | 25 | 19 | 1.5 | 1.5 | 109 | 171 | 3,000 | 4,000 | 32015 | 86 | 82 | 106 | 110 | 5 | 6 | 1.5 | 1.5 | 25.1 | 0.46 | 1.3 | 0.72 | 0.880 |
| | 130 | 27.25 | 25 | 22 | 2 | 1.5 | 143 | 182 | 2,800 | 3,800 | 30215 | 87 | 85 | 121 | 124 | 4 | 5 | 2 | 1.5 | 27.0 | 0.44 | 1.4 | 0.76 | 1.384 |
| | 130 | 33.25 | 31 | 27 | 2 | 1.5 | 165 | 219 | 2,800 | 3,800 | 32215 | 87 | 84 | 121 | 125 | 4 | 6 | 2 | 1.5 | 29.8 | 0.44 | 1.4 | 0.76 | 1.765 |
| | 160 | 40 | 37 | 31 | 3 | 2.5 | 253 | 300 | 2,400 | 3,200 | 30315 | 93 | 95 | 148 | 149 | 4 | 9 | 2.5 | 2 | 31.8 | 0.35 | 1.7 | 0.96 | 3.542 |
| | 160 | 40 | 37 | 26 | 3 | 2.5 | 211 | 251 | 2,200 | 3,000 | 31315 | 99 | 91 | 148 | 152 | 6 | 14 | 2.5 | 2 | 48.7 | 0.83 | 0.73 | 0.4 | 3.469 |
| | 160 | 58 | 55 | 45 | 3 | 2.5 | 340 | 445 | 2,400 | 3,200 | 32315 | 96 | 91 | 148 | 149 | 4 | 13 | 2.5 | 2 | 38.9 | 0.35 | 1.7 | 0.96 | 5.316 |
| **80** | 125 | 29 | 29 | 22 | 1.5 | 1.5 | 140 | 222 | 2,800 | 3,600 | 32016 | 91 | 89 | 116 | 120 | 6 | 7 | 1.5 | 1.5 | 26.9 | 0.42 | 1.4 | 0.78 | 1.180 |
| | 140 | 28.25 | 26 | 22 | 2.5 | 2 | 157 | 195 | 2,600 | 3,400 | 30216 | 95 | 91 | 130 | 132 | 4 | 6 | 2 | 2 | 28.1 | 0.42 | 1.4 | 0.79 | 1.650 |
| | 140 | 35.25 | 33 | 28 | 2.5 | 2 | 192 | 254 | 2,600 | 3,400 | 32216 | 95 | 90 | 130 | 134 | 4 | 7 | 2 | 2 | 30.6 | 0.42 | 1.4 | 0.79 | 2.162 |
| | 170 | 42.5 | 39 | 33 | 3 | 2.5 | 276 | 330 | 2,200 | 3,000 | 30316 | 98 | 102 | 158 | 159 | 4 | 9.5 | 2.5 | 2 | 34.0 | 0.35 | 1.7 | 0.96 | 4.486 |
| | 170 | 42.5 | 39 | 27 | 3 | 2.5 | 235 | 285 | 2,000 | 2,800 | 31316 | 104 | 97 | 158 | 159 | 6 | 15.5 | 2.5 | 2 | 51.8 | 0.83 | 0.73 | 0.4 | 4.065 |
| | 170 | 61.5 | 58 | 48 | 3 | 2.5 | 385 | 505 | 2,200 | 3,000 | 32316 | 101 | 98 | 158 | 159 | 4 | 13.5 | 2.5 | 2 | 41.3 | 0.35 | 1.7 | 0.96 | 6.390 |
| **85** | 130 | 29 | 29 | 22 | 1.5 | 1.5 | 143 | 231 | 2,600 | 3,600 | 32017 | 96 | 94 | 121 | 125 | 6 | 7 | 1.5 | 1.5 | 28.2 | 0.44 | 1.4 | 0.75 | 1.250 |
| | 150 | 30.5 | 28 | 24 | 2.5 | 2 | 184 | 233 | 2,400 | 3,200 | 30217 | 100 | 97 | 140 | 141 | 5 | 6.5 | 2 | 2 | 30.3 | 0.42 | 1.4 | 0.79 | 2.060 |
| | 150 | 38.5 | 36 | 30 | 2.5 | 2 | 210 | 277 | 2,400 | 3,200 | 32217 | 100 | 96 | 140 | 142 | 5 | 8.5 | 2 | 2 | 33.8 | 0.42 | 1.4 | 0.79 | 2.670 |
| | 180 | 44.5 | 41 | 34 | 4 | 3 | 310 | 375 | 2,000 | 2,800 | 30317 | 106 | 108 | 166 | 167 | 5 | 10.5 | 3 | 2.5 | 35.7 | 0.35 | 1.7 | 0.96 | 5.305 |
| | 180 | 44.5 | 41 | 28 | 4 | 3 | 261 | 315 | 2,000 | 2,600 | 31317 | 113 | 103 | 166 | 169 | 6 | 16.5 | 3 | 2.5 | 55.2 | 0.83 | 1.74 | 0.96 | 4.881 |
| | 180 | 63.5 | 60 | 49 | 4 | 3 | 410 | 535 | 2,000 | 2,800 | 32317 | 110 | 104 | 166 | 167 | 5 | 14.5 | 3 | 2.5 | 43.5 | 0.35 | 1.7 | 0.96 | 7.302 |
| **90** | 140 | 32 | 32 | 24 | 2 | 1.5 | 170 | 273 | 2,400 | 3,200 | 32018 | 102 | 99 | 131 | 134 | 6 | 8 | 2 | 1.5 | 29.7 | 0.42 | 1.4 | 0.78 | 1.700 |
| | 160 | 32.5 | 30 | 26 | 2.5 | 2 | 201 | 256 | 2,200 | 3,000 | 30218 | 105 | 103 | 150 | 150 | 5 | 6.5 | 2 | 2 | 31.7 | 0.42 | 1.4 | 0.79 | 2.558 |
| | 160 | 42.5 | 40 | 34 | 2.5 | 2 | 256 | 350 | 2,200 | 3,000 | 32218 | 105 | 102 | 150 | 152 | 5 | 8.5 | 2 | 2 | 36.1 | 0.42 | 1.4 | 0.79 | 3.265 |
| | 190 | 46.5 | 43 | 36 | 4 | 3 | 305 | 360 | 1,900 | 2,600 | 30318 | 111 | 115 | 176 | 177 | 5 | 10.5 | 3 | 2.5 | 37.6 | 0.35 | 1.7 | 0.95 | 6.144 |
| | 190 | 46.5 | 43 | 30 | 4 | 3 | 265 | 315 | 1,800 | 2,400 | 31318 | 118 | 110 | 176 | 179 | 6 | 16.5 | 3 | 2.5 | 58.5 | 0.83 | 0.73 | 0.4 | 5.511 |
| | 190 | 67.5 | 64 | 53 | 4 | 3 | 450 | 590 | 2,000 | 2,600 | 32318 | 115 | 109 | 176 | 177 | 5 | 14.5 | 3 | 2.5 | 46.5 | 0.35 | 1.7 | 0.96 | 8.568 |

# Tapered Roller Bearings

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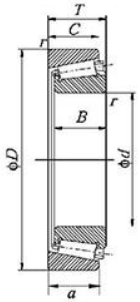


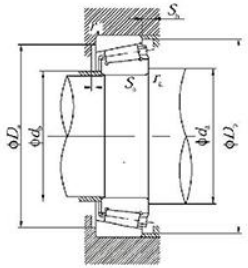


$d$ **95~120 mm**

| $d$ | Main Dimensions (mm) $D$ | $T$ | $B$ | $C$ | $r$ (Min) inner | outer | Basic Rated Load (kN) $C_r$ | $C_{0r}$ | Limit Speed (r/min) Grease | Oil | Nominal Model | Installation related dimensions $d_a$ Min | $d_b$ Max | $D_a$ Max | $D_b$ Min | $S_a$ Min | $S_b$ Min | $r_a$ inner (Max) | $r_a$ outer (Max) | Action point location mm $a$ | constant $e$ | Axial load factor $Y_1$ | $Y_0$ | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **95** | 145 | 32 | 32 | 24 | 2 | 1.5 | 173 | 283 | 2,400 | 3,200 | 32019 | 107 | 104 | 136 | 140 | 6 | 8 | 2 | 1.5 | 31.2 | 0.44 | 1.4 | 0.75 | 1.700 |
| | 170 | 34.5 | 32 | 27 | 3 | 2.5 | 223 | 286 | 2,200 | 2,800 | 30219 | 113 | 110 | 158 | 159 | 5 | 7.5 | 2.5 | 2 | 33.7 | 0.42 | 1.4 | 0.79 | 3.269 |
| | 170 | 45.5 | 43 | 37 | 3 | 2.5 | 289 | 400 | 2,200 | 2,800 | 32219 | 113 | 108 | 158 | 161 | 5 | 8.5 | 2.5 | 2 | 39.3 | 0.42 | 1.4 | 0.79 | 4.216 |
| | 200 | 49.5 | 45 | 38 | 4 | 3 | 335 | 400 | 1,900 | 2,400 | 30319 | 116 | 119 | 186 | 184 | 5 | 11.5 | 3 | 2.5 | 39.7 | 0.35 | 1.7 | 0.95 | 6.546 |
| | 200 | 49.5 | 45 | 32 | 4 | 3 | 310 | 375 | 1,800 | 2,400 | 31319 | 123 | 115 | 186 | 187 | 6 | 17.5 | 3 | 2.5 | 61.9 | 0.83 | 0.73 | 0.4 | 6.635 |
| | 200 | 71.5 | 67 | 55 | 4 | 3 | 460 | 600 | 1,900 | 2,400 | 32319 | 120 | 114 | 186 | 184 | 5 | 16.5 | 3 | 2.5 | 48.5 | 0.35 | 1.7 | 0.95 | 9.645 |
| **100** | 150 | 32 | 32 | 24 | 2 | 1.5 | 176 | 294 | 2,200 | 3,000 | 32020 | 112 | 109 | 141 | 144 | 6 | 8 | 2 | 1.5 | 32.5 | 0.46 | 1.3 | 0.72 | 1.947 |
| | 180 | 37 | 34 | 29 | 3 | 2.5 | 255 | 330 | 2,000 | 2,600 | 30220 | 118 | 116 | 168 | 168 | 5 | 8 | 2.5 | 2 | 36.1 | 0.42 | 1.4 | 0.79 | 3.976 |
| | 180 | 49 | 46 | 39 | 3 | 2.5 | 325 | 450 | 2,000 | 2,600 | 32220 | 118 | 115 | 168 | 171 | 5 | 10 | 2.5 | 2 | 41.5 | 0.42 | 1.4 | 0.79 | 5.213 |
| | 215 | 51.5 | 47 | 39 | 4 | 3 | 365 | 435 | 1,700 | 2,400 | 30320 | 121 | 128 | 201 | 196 | 5 | 12.5 | 3 | 2.5 | 41.7 | 0.35 | 1.7 | 0.95 | 8.690 |
| | 215 | 56.5 | 51 | 35 | 4 | 3 | 350 | 435 | 1,600 | 2,000 | 31320 | 114 | 121 | 201 | 202 | 7 | 21.5 | 3 | 2.5 | 69.0 | 0.83 | 0.73 | 0.4 | 8.600 |
| | 215 | 77.5 | 73 | 60 | 4 | 3 | 565 | 755 | 1,700 | 2,400 | 32320 | 125 | 125 | 201 | 200 | 5 | 17.5 | 3 | 2.5 | 53.2 | 0.35 | 1.7 | 0.96 | 12.96 |
| **105** | 160 | 35 | 35 | 26 | 2.5 | 2 | 204 | 340 | 2,000 | 2,800 | 32021 | 120 | 115 | 150 | 154 | 6 | 9 | 2 | 2 | 34.3 | 0.44 | 1.4 | 0.74 | 2.500 |
| | 190 | 39 | 36 | 30 | 3 | 2.5 | 280 | 365 | 1,900 | 2,600 | 30221 | 123 | 123 | 178 | 177 | 6 | 9 | 2.5 | 2 | 38.1 | 0.42 | 1.4 | 0.79 | 4.510 |
| | 190 | 53 | 50 | 43 | 3 | 2.5 | 360 | 510 | 1,900 | 2,600 | 32221 | 123 | 120 | 178 | 180 | 5 | 10 | 2.5 | 2 | 44.8 | 0.42 | 1.4 | 0.79 | 6.260 |
| | 225 | 53.5 | 49 | 41 | 4 | 3 | 395 | 470 | 1,600 | 2,200 | 30321 | 126 | 134 | 211 | 206 | 6 | 12.5 | 3 | 2.5 | 43.5 | 0.35 | 1.7 | 0.95 | 9.120 |
| | 225 | 58 | 53 | 36 | 4 | 3 | 380 | 470 | 1,700 | 2,300 | 31321 | 119 | 126 | 211 | 211 | 7 | 22 | 3 | 2.5 | 71.5 | 0.83 | 0.73 | 0.4 | 9.680 |
| | 225 | 81.5 | 77 | 63 | 4 | 3 | 585 | 780 | 1,700 | 2,200 | 32321 | 130 | 129 | 211 | 209 | 6 | 18.5 | 3 | 2.5 | 55.0 | 0.35 | 1.7 | 0.95 | 14.21 |
| **110** | 170 | 38 | 38 | 29 | 2.5 | 2 | 236 | 390 | 2,000 | 2,600 | 32022 | 125 | 121 | 160 | 163 | 7 | 9 | 2 | 2 | 35.9 | 0.43 | 1.4 | 0.77 | 3.100 |
| | 200 | 41 | 38 | 32 | 3 | 2.5 | 315 | 420 | 1,800 | 2,400 | 30222 | 128 | 129 | 188 | 187 | 6 | 9 | 2.5 | 2 | 40.1 | 0.42 | 1.4 | 0.79 | 5.270 |
| | 200 | 56 | 53 | 46 | 3 | 2.5 | 400 | 565 | 1,800 | 2,400 | 32222 | 128 | 127 | 188 | 190 | 5 | 10 | 2.5 | 2 | 47.2 | 0.42 | 1.4 | 0.79 | 7.360 |
| | 240 | 54.5 | 50 | 42 | 4 | 3 | 485 | 595 | 1,500 | 2,000 | 30322 | 131 | 143 | 226 | 220 | 6 | 12.5 | 3 | 2.5 | 45.1 | 0.35 | 1.7 | 0.96 | 11.45 |
| | 240 | 63 | 57 | 38 | 4 | 3 | 430 | 563 | 1,400 | 1,900 | 31322 | 124 | 135 | 226 | 224 | 7 | 25 | 3 | 2.5 | 76.0 | 0.83 | 0.73 | 0.4 | 12.20 |
| | 240 | 84.5 | 80 | 65 | 4 | 3 | 675 | 910 | 1,500 | 2,000 | 32322 | 135 | 139 | 226 | 222 | 6 | 19.5 | 3 | 2.5 | 58.5 | 0.35 | 1.7 | 0.96 | 18.78 |
| **120** | 180 | 38 | 38 | 29 | 2.5 | 2 | 242 | 405 | 1,800 | 2,400 | 32024 | 135 | 131 | 170 | 173 | 7 | 9 | 2 | 2 | 39.7 | 0.46 | 1.3 | 0.72 | 3.100 |
| | 215 | 43.5 | 40 | 34 | 3 | 2.5 | 335 | 450 | 1,600 | 2,200 | 30224 | 138 | 141 | 203 | 201 | 6 | 9.5 | 2.5 | 2 | 44.4 | 0.44 | 1.4 | 0.76 | 6.125 |
| | 215 | 61.5 | 58 | 50 | 3 | 2.5 | 440 | 635 | 1,600 | 2,200 | 32224 | 138 | 137 | 203 | 204 | 6 | 11.5 | 2.5 | 2 | 52.0 | 0.44 | 1.4 | 0.76 | 9.169 |
| | 260 | 59.5 | 55 | 46 | 4 | 3 | 535 | 655 | 1,400 | 1,900 | 30324 | 141 | 154 | 246 | 237 | 6 | 13.5 | 3 | 2.5 | 50.0 | 0.35 | 1.7 | 0.96 | 13.7 |
| | 260 | 68 | 62 | 42 | 4 | 3 | 526 | 665 | 1,300 | 1,800 | 31324 | 134 | 145 | 246 | 244 | 9 | 26 | 3 | 2.5 | 82.5 | 0.83 | 0.73 | 0.4 | 15.4 |
| | 260 | 90.5 | 86 | 69 | 4 | 3 | 770 | 1060 | 1,400 | 1,900 | 32324 | 145 | 149 | 246 | 239 | 6 | 21.5 | 3 | 2.5 | 62.4 | 0.35 | 1.7 | 0.96 | 21.7 |

# Tapered Roller Bearings

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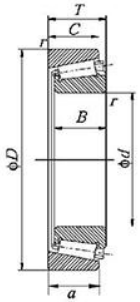


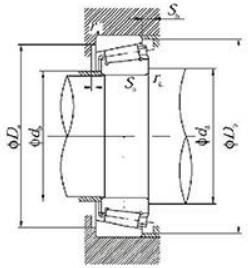


$d$ **130~170 mm**

| Main Dimensions (mm) | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | Installation related dimensions | | | | | | | | Action point location | constant | Axial load factor | | Reference Quality |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | r (Min) | | | | | | | $d_a$ | $d_b$ | $D_a$ | $D_b$ | $S_a$ | $S_b$ | $r_a$ inner | $r_a$ outer | mm | | | | (kg) |
| $d$ | $D$ | $T$ | $B$ | $C$ inner | outer | $C_r$ | $C_{0r}$ | Grease | Oil | | Min | Max | Max | Min | Min | Min | (Max) | | $a$ | $e$ | $Y_1$ | $Y_0$ | |
| **130** | 200 | 45 | 45 | 34 | 2.5 | 2 | 320 | 535 | 1,600 | 2,200 | 32026 | 145 | 144 | 190 | 192 | 8 | 11 | 2 | 2 | 43.9 | 0.43 | 1.4 | 0.76 | 5.06 |
| | 230 | 43.75 | 40 | 34 | 4 | 3 | 375 | 505 | 1,500 | 2,000 | 30226 | 151 | 151 | 216 | 217 | 7 | 9.5 | 3 | 2.5 | 45.8 | 0.44 | 1.4 | 0.76 | 7.24 |
| | 230 | 67.75 | 64 | 54 | 4 | 3 | 530 | 790 | 1,500 | 2,000 | 32226 | 151 | 147 | 216 | 219 | 7 | 13.5 | 3 | 2.5 | 56.9 | 0.44 | 1.4 | 0.76 | 11.37 |
| | 280 | 63.75 | 58 | 49 | 5 | 4 | 545 | 675 | 1,300 | 1,800 | 30326 | 157 | 168 | 262 | 255 | 8 | 14.5 | 4 | 3 | 53.9 | 0.36 | 1.7 | 0.92 | 17.1 |
| | 280 | 72 | 66 | 44 | 5 | 4 | 589 | 748 | 1,200 | 1,600 | 31326 | 148 | 152 | 262 | 261 | 9 | 28 | 4 | 3 | 87.5 | 0.83 | 0.73 | 0.4 | 18.9 |
| | 280 | 98.75 | 93 | 78 | 5 | 4 | 830 | 1150 | 1,300 | 1,800 | 32326 | 162 | 165 | 262 | 263 | 8 | 20.5 | 4 | 3 | 69.2 | 0.36 | 1.7 | 0.92 | 26.6 |
| **140** | 210 | 45 | 45 | 34 | 2.5 | 2 | 325 | 555 | 1,600 | 2,200 | 32028 | 155 | 152 | 200 | 202 | 8 | 11 | 2 | 2 | 46.6 | 0.46 | 1.3 | 0.72 | 5.21 |
| | 250 | 45.75 | 42 | 36 | 4 | 3 | 390 | 515 | 1,400 | 1,900 | 30228 | 161 | 164 | 236 | 234 | 7 | 9.5 | 3 | 2.5 | 48.9 | 0.44 | 1.4 | 0.76 | 8.892 |
| | 250 | 71.75 | 68 | 58 | 4 | 3 | 610 | 915 | 1,400 | 1,900 | 32228 | 161 | 159 | 236 | 238 | 9 | 13.5 | 3 | 2.5 | 58.9 | 0.40 | 1.5 | 0.82 | 14.68 |
| | 300 | 67.75 | 62 | 53 | 5 | 4 | 600 | 740 | 1,200 | 1,600 | 30328 | 167 | 180 | 282 | 272 | 9 | 14.5 | 4 | 3 | 57.4 | 0.36 | 1.7 | 0.92 | 21.7 |
| | 300 | 77 | 70 | 47 | 5 | 4 | 674 | 865 | 1,100 | 1,500 | 31328 | 158 | 165 | 282 | 280 | 9 | 30 | 4 | 3 | 94.0 | 0.83 | 0.73 | 0.4 | 23.3 |
| | 300 | 107.75 | 102 | 85 | 5 | 4 | 985 | 1440 | 1,200 | 1,600 | 32328 | 172 | 177 | 282 | 281 | 9 | 22.5 | 4 | 3 | 76.4 | 0.37 | 1.6 | 0.88 | 33.9 |
| **150** | 225 | 48 | 48 | 36 | 3 | 2.5 | 375 | 650 | 1,400 | 2,000 | 32030 | 168 | 164 | 213 | 216 | 8 | 12 | 2.5 | 2 | 49.8 | 0.46 | 1.3 | 0.72 | 6.2 |
| | 270 | 49 | 45 | 38 | 4 | 3 | 435 | 570 | 1,300 | 1,700 | 30230 | 171 | 176 | 256 | 251 | 7 | 11 | 3 | 2.5 | 50.2 | 0.43 | 1.4 | 0.77 | 10.3 |
| | 270 | 77 | 73 | 60 | 4 | 3 | 595 | 900 | 1,300 | 1,700 | 32230 | 171 | 177 | 256 | 254 | 8 | 17 | 3 | 2.5 | 64.0 | 0.40 | 1.5 | 0.82 | 17.4 |
| | 320 | 72 | 65 | 55 | 5 | 4 | 690 | 860 | 1,100 | 1,500 | 30330 | 177 | 193 | 302 | 292 | 8 | 17 | 4 | 3 | 61.4 | 0.36 | 1.7 | 0.92 | 24.4 |
| | 320 | 82 | 75 | 50 | 5 | 4 | 763 | 898 | 980 | 1,400 | 31330 | 172 | 179 | 302 | 301 | 9 | 27 | 4 | 3 | 100.0 | 0.83 | 0.73 | 0.4 | 28.0 |
| | 320 | 114 | 108 | 90 | 5 | 4 | 1,120 | 1,700 | 1,100 | 1,500 | 32330 | 182 | 191 | 302 | 297 | 8 | 24 | 4 | 3 | 81.5 | 0.37 | 1.6 | 0.88 | 41.4 |
| **160** | 240 | 51 | 51 | 38 | 3 | 2.5 | 425 | 750 | 1,300 | 1,800 | 32032 | 178 | 175 | 228 | 231 | 8 | 13 | 2.5 | 2 | 53.0 | 0.46 | 1.3 | 0.72 | 8.0 |
| | 290 | 52 | 48 | 40 | 4 | 3 | 470 | 610 | 1,200 | 1,600 | 30232 | 181 | 192 | 276 | 272 | 8 | 12 | 3 | 2.5 | 55.0 | 0.43 | 1.4 | 0.77 | 12.9 |
| | 290 | 84 | 80 | 67 | 4 | 3 | 725 | 1,120 | 1,200 | 1,600 | 32232 | 181 | 190 | 276 | 275 | 10 | 17 | 3 | 2.5 | 70.1 | 0.40 | 1.5 | 0.82 | 21.1 |
| | 340 | 75 | 68 | 58 | 5 | 4 | 765 | 960 | 1,000 | 1,400 | 30332 | 187 | 205 | 322 | 311 | 10 | 17 | 4 | 3 | 64.6 | 0.36 | 1.7 | 0.92 | 33.5 |
| | 340 | 121 | 114 | 95 | 5 | 4 | 1,210 | 1,770 | 1,000 | 1,400 | 31332 | 192 | 202 | 322 | 319 | 10 | 26 | 4 | 3 | 87.1 | 0.37 | 1.6 | 0.88 | 47.9 |
| **170** | 260 | 57 | 57 | 43 | 3 | 2.5 | 505 | 890 | 1,200 | 1,700 | 32004 | 188 | 187 | 248 | 249 | 10 | 14 | 2.5 | 2 | 56.6 | 0.44 | 1.4 | 0.74 | 11.0 |
| | 310 | 57 | 52 | 43 | 5 | 4 | 525 | 690 | 1,100 | 1,500 | 30204 | 197 | 203 | 292 | 288 | 8 | 14 | 4 | 3 | 59.8 | 0.43 | 1.4 | 0.77 | 16.1 |
| | 310 | 91 | 86 | 71 | 5 | 4 | 835 | 1320 | 1,100 | 1,500 | 32204 | 197 | 201 | 292 | 293 | 10 | 20 | 4 | 3 | 73.9 | 0.40 | 1.5 | 0.82 | 28.5 |
| | 360 | 80 | 72 | 62 | 5 | 4 | 845 | 1,080 | 950 | 1,300 | 30304 | 197 | 221 | 342 | 332 | 10 | 18 | 4 | 3 | 70.1 | 0.37 | 1.6 | 0.90 | 33.4 |
| | 360 | 127 | 120 | 100 | 5 | 4 | 1,370 | 2,050 | 1,000 | 1,300 | 31304 | 202 | 213 | 342 | 337 | 10 | 27 | 4 | 3 | 91.3 | 0.37 | 1.6 | 0.88 | 56.8 |

# Tapered Roller Bearings

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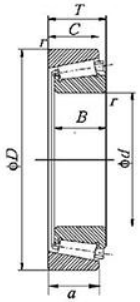


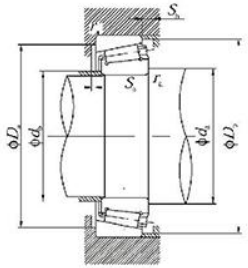


*d* 180~200 mm

| Main Dimensions (mm) | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | Installation related dimensions | | | | | | | | Action point location | constant | Axial load factor | | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | r (Min) | | | | | | $d_a$ | $d_b$ | $D_a$ | $D_b$ | $S_a$ | $S_b$ | $r_a$ | | mm | | | | |
| *d* | *D* | *T* | *B* | *C* | inner | outer | $C_r$ | $C_{0r}$ | Grease | Oil | | Min | Max | Max | Min | Min | Min | (Max) | *a* | *e* | $Y_1$ | $Y_0$ | |
| **180** | 280 | 64 | 64 | 48 | 3 | 2.5 | 640 | 1,130 | 1,200 | 1,600 | 32036 | 198 | 199 | 268 | 267 | 10 | 16 | 2.5 | 2 | 60.4 | 0.42 | 1.42 | 0.78 | 14.1 |
| | 320 | 57 | 52 | 43 | 5 | 4 | 520 | 695 | 1,100 | 1,400 | 30236 | 207 | 213 | 302 | 297 | 9 | 14 | 4 | 3 | 62.1 | 0.44 | 1.4 | 0.74 | 18.1 |
| | 320 | 91 | 86 | 71 | 5 | 4 | 875 | 1380 | 1,000 | 1,400 | 32236 | 207 | 211 | 302 | 305 | 10 | 20 | 4 | 3 | 75.2 | 0.40 | 1.5 | 0.82 | 28.2 |
| | 380 | 83 | 75 | 64 | 5 | 4 | 935 | 1,230 | 940 | 1,300 | 30336 | 207 | 233 | 362 | 345 | 10 | 19 | 4 | 3 | 72.4 | 0.36 | 1.7 | 0.92 | 39.7 |
| | 380 | 134 | 126 | 106 | 5 | 4 | 1,520 | 2,290 | 950 | 1,300 | 31336 | 212 | 225 | 362 | 353 | 10 | 28 | 4 | 3 | 96.6 | 0.37 | 1.6 | 0.88 | 67 |
| **190** | 340 | 60 | 55 | 46 | 5 | 4 | 580 | 790 | 1,300 | 1,300 | 32038 | 217 | 228 | 322 | 316 | 9 | 14 | 4 | 3 | 62.7 | 0.40 | 1.5 | 0.82 | 21.7 |
| | 340 | 97 | 92 | 75 | 5 | 4 | 980 | 1,550 | 1,000 | 1,300 | 30238 | 217 | 223 | 322 | 323 | 11 | 22 | 4 | 3 | 79.0 | 0.40 | 1.5 | 0.82 | 35.7 |
| | 400 | 86 | 78 | 65 | 6 | 5 | 1,010 | 1,340 | 850 | 1,200 | 32238 | 223 | 248 | 378 | 366 | 11 | 21 | 5 | 4 | 76.1 | 0.36 | 1.7 | 0.92 | 46.2 |
| | 400 | 140 | 132 | 109 | 6 | 5 | 1,660 | 2,580 | 850 | 1,200 | 30338 | 229 | 243 | 378 | 375 | 11 | 31 | 5 | 4 | 102.7 | 0.73 | 1.6 | 0.88 | 76.6 |
| **200** | 360 | 64 | 58 | 48 | 5 | 4 | 645 | 890 | 900 | 1,300 | 32040 | 227 | 242 | 342 | 334 | 10 | 16 | 4 | 3 | 65.5 | 0.40 | 1.5 | 0.82 | 25.7 |
| | 360 | 104 | 98 | 82 | 5 | 4 | 1,090 | 1,750 | 950 | 1,300 | 30240 | 227 | 233 | 342 | 338 | 11 | 22 | 4 | 3 | 85.0 | 0.40 | 1.5 | 0.82 | 44.7 |
| | 420 | 89 | 80 | 67 | 6 | 5 | 1,030 | 1,390 | 850 | 1,200 | 32240 | 233 | 253 | 398 | 368 | 11 | 22 | 5 | 4 | 81.4 | 0.37 | 1.6 | 0.88 | 53.5 |
| | 420 | 146 | 138 | 115 | 6 | 5 | 1,820 | 2,870 | 800 | 1,100 | 30340 | 239 | 253 | 398 | 392 | 11 | 31 | 5 | 4 | 106.7 | 0.37 | 1.6 | 0.88 | 91 |

# Tapered Roller Bearings

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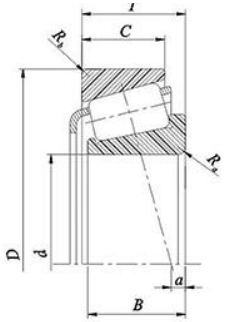


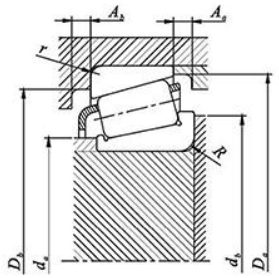


## *d* 15.875~25.400 mm

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | | Action point location mm | constant | Axial load factor | | Installation related dimensions (mm) | | | | | | | | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | $R_a$ | $R_b$ | | | | | | | | | | | axis | | | Bearing pedestal | | | Cage | | |
| *d* | *D* | *T* | *B* | *C* | (Min) | | $C_r$ | $C_{0r}$ | Grease | Oil | inner--outer | | $a^{1)}$ | *e* | $Y_1$ | $Y_0$ | $d_a$ | $d_b$ | R (Max) | $D_a$ | $D_b$ | r (Max) | $A_a$ | $A_b$ | |
| 15.875 | 42.862 | 14.288 | 14.288 | 9.525 | 1.5 | 1.5 | 17.4 | 17.4 | 10,000 | 14,000 | 11590—11520 | | 1.3 | 0.70 | 0.85 | 0.47 | 22.5 | 24.5 | 1.5 | 39.5 | 34.5 | 1.5 | 4.5 | 2.0 | 0.10 |
| 16.000 | 47.000 | 21.000 | 21.000 | 16.000 | 1.0 | 1.0 | 37.1 | 39.3 | 9,800 | 13,000 | HM81649—HM81610 | | 6.1 | 0.55 | 1.10 | 0.60 | 23.0 | 27.5 | 1.0 | 43.0 | 37.5 | 1.0 | 5.0 | 3.0 | 0.18 |
| 17.462 | 39.878 | 13.843 | 14.605 | 10.688 | 1.3 | 1.3 | 22.9 | 23.4 | 11,000 | 14,000 | LM11749—LM11710 | | 5.1 | 0.29 | 2.00 | 1.10 | 21.5 | 23.0 | 1.3 | 37.0 | 34.0 | 1.3 | 4.0 | 3.0 | 0.08 |
| 19.050 | 45.237 | 15.494 | 16.637 | 12.065 | 1.3 | 1.3 | 30.6 | 32.0 | 9,400 | 13,000 | LM11949—LM11910 | | 5.6 | 0.30 | 2.00 | 1.10 | 23.5 | 25.0 | 1.3 | 41.5 | 39.5 | 1.3 | 4.5 | 3.5 | 0.12 |
| | 49.225 | 19.845 | 21.539 | 14.288 | 1.3 | 1.3 | 39.7 | 40.5 | 8,900 | 12,000 | 09078—09195 | | 9.1 | 0.27 | 2.26 | 1.24 | 24.0 | 25.5 | 1.3 | 44.5 | 42.0 | 1.3 | 4.5 | 4.0 | 0.18 |
| | 49.225 | 21.209 | 19.050 | 17.462 | 1.3 | 1.5 | 39.7 | 40.5 | 8,900 | 12,000 | 09067—09196 | | 7.4 | 0.27 | 2.26 | 1.24 | 24.0 | 25.5 | 1.3 | 44.5 | 41.5 | 1.5 | 4.5 | 1.0 | 0.19 |
| | 53.975 | 22.225 | 21.839 | 15.875 | 1.5 | 2.3 | 43.0 | 42.5 | 8,400 | 11,000 | 21075—21212 | | 5.8 | 0.59 | 1.02 | 0.56 | 26.0 | 31.5 | 1.5 | 50.0 | 43.0 | 2.3 | 4.5 | 4.0 | 0.24 |
| 20.000 | 50.005 | 13.495 | 14.260 | 9.525 | 1.5 | 1.0 | 27.0 | 29.6 | 7,900 | 11,000 | 07079—07196 | | 2.8 | 0.40 | 1.49 | 0.82 | 26.0 | 27.5 | 1.5 | 47.0 | 44.5 | 5.0 | 4.0 | 1.5 | 0.14 |
| 20.625 | 49.225 | 19.845 | 21.539 | 14.288 | 1.5 | 1.3 | 39.7 | 40.5 | 8,000 | 11,000 | 09081—09195 | | 9.1 | 0.27 | 2.26 | 1.24 | 25.5 | 27.5 | 1.5 | 44.5 | 42.0 | 1.3 | 4.5 | 4.0 | 0.17 |
| 21.430 | 50.005 | 17.526 | 18.288 | 13.970 | 1.3 | 1.3 | 40.8 | 43.5 | 8,600 | 12,000 | M12649—M12160 | | 6.4 | 0.28 | 2.16 | 1.18 | 25.5 | 29.0 | 1.3 | 46.0 | 44.0 | 1.3 | 4.5 | 3.5 | 0.16 |
| 21.986 | 45.237 | 15.494 | 16.637 | 12.065 | 1.3 | 1.3 | 30.2 | 35.3 | 8,900 | 12,000 | LM12749—LM12710 | | 5.3 | 0.31 | 1.96 | 1.08 | 26.0 | 27.5 | 1.3 | 42.0 | 39.5 | 1.3 | 4.0 | 3.0 | 0.12 |
| | 45.974 | 15.494 | 16.637 | 12.065 | 1.3 | 1.3 | 30.2 | 35.3 | 8,900 | 12,000 | LM12749—LM12711 | | 5.3 | 0.31 | 1.96 | 1.08 | 26.0 | 27.5 | 1.3 | 42.5 | 40.0 | 1.3 | 4.0 | 3.0 | 0.12 |
| 22.225 | 50.005 | 17.526 | 18.288 | 13.970 | 1.3 | 1.3 | 40.8 | 43.5 | 8,500 | 11,000 | M12648—M12610 | | 6.4 | 0.28 | 2.16 | 1.19 | 26.5 | 28.5 | 1.3 | 46.0 | 44.0 | 1.3 | 4.5 | 3.5 | 0.17 |
| | 52.388 | 19.638 | 20.168 | 14.288 | 1.5 | 1.5 | 44.3 | 48.3 | 8,000 | 11,000 | 1380—1328 | | 7.6 | 0.29 | 2.05 | 1.13 | 27.0 | 29.5 | 1.5 | 48.5 | 45.0 | 1.5 | 5.0 | 3.5 | 0.20 |
| | 53.975 | 19.368 | 20.168 | 14.288 | 1.5 | 1.5 | 44.3 | 48.3 | 8,000 | 11,000 | 1380—1329 | | 7.6 | 0.29 | 2.05 | 1.13 | 27.0 | 29.5 | 1.5 | 49.0 | 46.0 | 1.5 | 5.0 | 3.5 | 0.22 |
| | 56.896 | 19.368 | 19.837 | 15.875 | 1.3 | 1.3 | 42.0 | 45.3 | 7,600 | 10,000 | 1755—1729 | | 6.9 | 0.31 | 1.95 | 1.07 | 27.5 | 29.0 | 1.3 | 51.0 | 49.0 | 1.3 | 4.0 | 3.5 | 0.24 |
| | 57.150 | 22.225 | 22.225 | 17.462 | 0.8 | 1.5 | 51.2 | 55.1 | 7,600 | 10,000 | 1280—1220 | | 6.9 | 0.35 | 1.73 | 0.95 | 29.0 | 29.5 | 0.8 | 52.0 | 49.0 | 1.5 | 5.5 | 2.5 | 0.28 |
| | 66.421 | 23.812 | 25.433 | 19.050 | 1.5 | 1.3 | 71.0 | 81.7 | 6,500 | 8,700 | 2684—2631 | | 9.4 | 0.25 | 2.36 | 1.30 | 29.0 | 31.5 | 1.5 | 60.0 | 58.0 | 1.3 | 6.0 | 4.5 | 0.46 |
| 22.606 | 47.000 | 15.500 | 15.500 | 12.000 | 1.5 | 1.0 | 27.5 | 33.0 | 8,700 | 12,000 | LM72489—LM72810 | | 3.0 | 0.47 | 1.27 | 0.70 | 28.0 | 30.0 | 1.5 | 44.0 | 40.5 | 1.0 | 4.0 | 2.0 | 0.12 |
| 23.812 | 50.292 | 14.224 | 14.732 | 10.688 | 1.5 | 1.3 | 27.8 | 32.9 | 7,800 | 10,000 | L44640—L44610 | | 3.3 | 0.37 | 1.60 | 0.88 | 28.5 | 30.5 | 1.5 | 47.0 | 44.5 | 1.3 | 4.0 | 2.5 | 0.12 |
| | 56.896 | 19.367 | 19.837 | 15.875 | 0.8 | 1.3 | 42.0 | 45.3 | 7,600 | 10,000 | 1779—1729 | | 6.9 | 0.31 | 1.95 | 1.07 | 28.5 | 29.5 | 0.8 | 51.0 | 49.0 | 1.3 | 4.0 | 3.5 | 0.24 |
| | 65.088 | 22.225 | 21.463 | 15.875 | 1.5 | 1.5 | 50.6 | 55.8 | 5,600 | 7,900 | 23092—23256 | | 2.3 | 0.73 | 0.82 | 0.45 | 34.5 | 38.5 | 1.5 | 63.0 | 53.0 | 1.5 | 4.0 | 3.5 | 0.37 |
| 24.981 | 50.005 | 13.495 | 14.260 | 9.525 | 1.5 | 1.0 | 27.0 | 29.6 | 7,900 | 11,000 | 07098—07196 | | 2.8 | 0.40 | 1.49 | 0.82 | 29.0 | 31.0 | 1.5 | 47.0 | 44.5 | 1.0 | 5.0 | 4.0 | 0.11 |
| | 62.000 | 16.002 | 16.566 | 14.288 | 1.5 | 1.5 | 40.0 | 44.1 | 6,700 | 8,900 | 17098—17244 | | 3.6 | 0.38 | 1.57 | 0.86 | 30.5 | 33.0 | 1.5 | 57.0 | 54.0 | 1.5 | 3.5 | 4.5 | 0.25 |
| 25.000 | 50.005 | 13.495 | 14.260 | 9.525 | 1.5 | 1.0 | 27.0 | 29.6 | 7,900 | 11,000 | 07097—07196 | | 2.8 | 0.40 | 1.49 | 0.82 | 29.0 | 31.0 | 1.5 | 47.0 | 44.5 | 1.0 | 5.0 | 4.0 | 0.11 |
| 25.400 | 50.005 | 13.495 | 14.260 | 9.525 | 1.0 | 1.0 | 27.0 | 29.6 | 7,900 | 11,000 | 07100—07196 | | 2.8 | 0.40 | 1.49 | 0.82 | 29.5 | 30.5 | 1.0 | 47.0 | 44.5 | 1.0 | 5.0 | 4.0 | 0.11 |

# Tapered Roller Bearings

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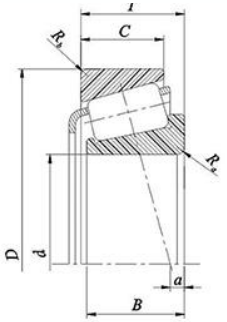


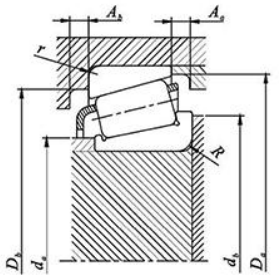

## *d* 25.400~28.575 mm

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | | Action point location mm | constant | Axial load factor | | Installation related dimensions (mm) | | | | | | | | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | $R_a$ | $R_b$ | | | | | | | | | | | axis | | | Bearing pedestal | | | Cage | | |
| *d* | *D* | *T* | *B* | *C* | (Min) | | $C_r$ | $C_{0r}$ | Grease | Oil | inner--outer | | $a$ [1] | *e* | $Y_1$ | $Y_0$ | $d_a$ | $d_b$ | *R* (Max) | $D_a$ | $D_b$ | *r* (Max) | $A_a$ | $A_b$ | |
| 25.400 | 50.005 | 13.495 | 14.260 | 9.525 | 1.5 | 1.0 | 27.0 | 29.6 | 7,900 | 11,000 | 07100S—07196 | | 2.8 | 0.40 | 1.49 | 0.82 | 29.5 | 31.5 | 1.5 | 47.0 | 44.5 | 1.0 | 5.0 | 4.0 | 0.11 |
| | 50.292 | 14.224 | 14.732 | 10.668 | 1.3 | 1.3 | 27.8 | 32.9 | 7,800 | 10,000 | L44643—L44610 | | 3.3 | 0.37 | 1.60 | 0.88 | 30.0 | 32.0 | 1.3 | 47.0 | 44.5 | 1.3 | 4.0 | 2.5 | 0.12 |
| | 51.994 | 15.011 | 14.260 | 12.700 | 1.0 | 1.3 | 27.0 | 29.6 | 7,900 | 11,000 | 07100—07204 | | 2.8 | 0.40 | 1.49 | 0.82 | 29.5 | 30.5 | 1.0 | 48.0 | 45.0 | 1.3 | 3.0 | 2.5 | 0.14 |
| | 58.738 | 19.050 | 19.355 | 15.080 | 1.2 | 1.2 | 44.8 | 50.2 | 7,000 | 9,300 | 1986R—1932 | | 5.8 | 0.33 | 1.82 | 1.00 | 30.5 | 32.5 | 1.2 | 54.0 | 52.0 | 1.2 | 5.0 | 3.5 | 0.24 |
| | 59.530 | 23.368 | 23.114 | 18.288 | 0.8 | 1.5 | 53.8 | 63.3 | 7,200 | 9,600 | M84249—M84210 | | 5.1 | 0.55 | 1.10 | 0.60 | 32.5 | 36.0 | 0.8 | 56.0 | 49.5 | 1.5 | 5.5 | 3.0 | 0.32 |
| | 61.912 | 19.050 | 20.638 | 14.288 | 0.8 | 2.0 | 46.8 | 53.9 | 6,400 | 8,600 | 15101—15243 | | 5.8 | 0.35 | 1.71 | 0.94 | 31.5 | 32.5 | 0.8 | 58.0 | 54.0 | 2.0 | 5.0 | 5.0 | 0.29 |
| | 62.000 | 19.050 | 20.638 | 14.288 | 3.5 | 1.3 | 46.8 | 53.9 | 6,400 | 8,600 | 15100—15245 | | 5.8 | 0.35 | 1.71 | 0.94 | 31.5 | 38.0 | 3.5 | 58.0 | 55.0 | 1.3 | 5.0 | 5.0 | 0.29 |
| | 63.500 | 19.050 | 20.638 | 14.288 | 0.8 | 1.5 | 46.8 | 53.9 | 6,400 | 8,600 | 15101—15250X | | 5.8 | 0.35 | 1.71 | 0.94 | 31.5 | 32.5 | 0.8 | 58.0 | 54.0 | 1.5 | 5.0 | 5.0 | 0.29 |
| | 64.292 | 21.433 | 21.433 | 16.670 | 1.5 | 1.5 | 55.7 | 71.7 | 6,400 | 8,500 | M86643—M86610 | | 3.3 | 0.55 | 1.10 | 0.60 | 36.5 | 38.0 | 1.5 | 61.0 | 54.0 | 1.5 | 5.0 | 3.0 | 0.36 |
| | 65.088 | 22.225 | 21.463 | 15.875 | 1.5 | 1.5 | 50.6 | 55.8 | 5,600 | 7,900 | 23100—23256 | | 2.3 | 0.73 | 0.82 | 0.45 | 34.5 | 39.0 | 1.5 | 63.0 | 53.0 | 1.5 | 4.0 | 3.5 | 0.36 |
| | 66.421 | 23.812 | 25.433 | 19.050 | 1.3 | 1.3 | 71.0 | 81.7 | 6,500 | 8,700 | 2687—2631 | | 9.4 | 0.25 | 2.36 | 1.30 | 31.5 | 33.5 | 1.3 | 60.0 | 58.0 | 1.3 | 6.0 | 4.5 | 0.44 |
| | 68.262 | 22.225 | 22.225 | 17.462 | 0.8 | 1.5 | 59.1 | 70.2 | 6,000 | 8,000 | 02473—02420 | | 5.1 | 0.42 | 1.44 | 0.79 | 33.5 | 34.5 | 0.8 | 63.0 | 59.0 | 1.5 | 5.5 | 3.0 | 0.43 |
| | 72.233 | 25.400 | 25.400 | 19.842 | 0.8 | 2.3 | 71.1 | 94.2 | 5,700 | 7,600 | HM88630—HM88610 | | 4.6 | 0.55 | 1.10 | 0.60 | 39.5 | 39.5 | 0.8 | 69.0 | 60.0 | 2.3 | 5.5 | 4.0 | 0.59 |
| 26.157 | 61.913 | 19.050 | 20.638 | 14.288 | 0.8 | 2.0 | 46.8 | 53.9 | 6,400 | 8,600 | 15103—15243 | | 5.8 | 0.35 | 1.71 | 0.94 | 32.5 | 33.0 | 0.8 | 58.0 | 55.0 | 2.0 | 5.0 | 5.0 | 0.29 |
| | 61.999 | 19.050 | 20.638 | 14.288 | 0.8 | 1.3 | 46.8 | 53.9 | 6,400 | 8,600 | 15103—15245 | | 5.8 | 0.35 | 1.71 | 0.94 | 32.5 | 33.0 | 0.8 | 58.0 | 55.0 | 1.3 | 5.0 | 5.0 | 0.29 |
| 26.162 | 66.421 | 23.812 | 25.433 | 19.050 | 1.5 | 1.3 | 71.0 | 81.7 | 6,500 | 8,700 | 2682—2631 | | 9.4 | 0.25 | 2.36 | 1.30 | 32.0 | 34.5 | 1.5 | 60.0 | 58.0 | 1.3 | 6.0 | 4.5 | 0.43 |
| 26.988 | 50.292 | 14.244 | 14.732 | 10.688 | 3.5 | 1.3 | 27.8 | 32.9 | 7,800 | 10,000 | L44649—L44610 | | 3.3 | 0.37 | 1.60 | 0.88 | 31.0 | 37.5 | 3.5 | 47.0 | 44.5 | 1.3 | 4.0 | 2.5 | 0.11 |
| | 60.325 | 19.842 | 17.462 | 15.875 | 3.5 | 1.5 | 42.6 | 50.1 | 7,000 | 9,400 | 15580—15523 | | 5.1 | 0.35 | 1.73 | 0.95 | 32.0 | 38.5 | 3.5 | 54.0 | 51.0 | 1.5 | 5.0 | 1.5 | 0.25 |
| | 62.000 | 19.050 | 20.638 | 14.288 | 0.8 | 1.3 | 46.8 | 53.9 | 6,400 | 8,600 | 15106—15245 | | 5.8 | 0.35 | 1.71 | 0.94 | 33.0 | 33.5 | 0.8 | 58.0 | 55.0 | 1.3 | 5.0 | 5.0 | 0.28 |
| | 66.421 | 23.812 | 25.433 | 19.050 | 1.5 | 1.3 | 71.0 | 81.7 | 6,500 | 8,700 | 2688—2631 | | 9.4 | 0.25 | 2.36 | 1.30 | 33.0 | 35.0 | 1.5 | 60.0 | 58.0 | 1.3 | 6.0 | 4.5 | 0.42 |
| 28.575 | 57.150 | 17.462 | 17.462 | 13.495 | 3.5 | 1.5 | 42.6 | 50.1 | 7,000 | 9,400 | 15590—15520 | | 5.1 | 0.35 | 1.73 | 0.95 | 33.5 | 39.5 | 3.5 | 53.0 | 51.0 | 1.5 | 5.0 | 3.5 | 0.19 |
| | 57.150 | 19.845 | 19.355 | 15.875 | 3.5 | 1.5 | 44.8 | 50.2 | 7,000 | 9,300 | 1988—1922 | | 5.8 | 0.33 | 1.82 | 1.00 | 33.5 | 39.5 | 3.5 | 53.5 | 51.0 | 1.5 | 5.0 | 2.5 | 0.17 |
| | 62.000 | 19.050 | 20.638 | 14.288 | 3.5 | 1.3 | 46.8 | 53.9 | 6,400 | 8,600 | 15112—15245 | | 5.8 | 0.35 | 1.71 | 0.94 | 34.0 | 40.0 | 3.5 | 58.0 | 55.0 | 1.3 | 5.0 | 5.0 | 0.27 |
| | 62.000 | 19.050 | 20.638 | 14.288 | 0.8 | 1.3 | 46.8 | 53.9 | 6,400 | 8,600 | 15113—15245 | | 5.8 | 0.35 | 1.71 | 0.94 | 34.0 | 34.5 | 0.8 | 58.0 | 55.0 | 1.3 | 5.0 | 5.0 | 0.27 |
| | 64.292 | 21.433 | 21.433 | 16.670 | 1.5 | 1.5 | 55.7 | 71.7 | 6,400 | 8,500 | M86647—M86610 | | 3.3 | 0.55 | 1.10 | 0.60 | 38.0 | 40.0 | 1.5 | 61.0 | 54.0 | 1.5 | 5.0 | 3.0 | 0.34 |
| | 66.421 | 23.812 | 25.433 | 19.050 | 1.3 | 1.3 | 71.0 | 81.7 | 6,500 | 8,700 | 2689—2631 | | 9.4 | 0.25 | 2.36 | 1.30 | 34.0 | 36.0 | 1.3 | 60.0 | 58.0 | 1.3 | 6.0 | 4.5 | 0.41 |
| | 68.262 | 22.225 | 22.225 | 17.462 | 0.8 | 1.5 | 59.1 | 70.2 | 6,000 | 8,000 | 02474—02420 | | 5.1 | 0.42 | 1.77 | 0.81 | 36.0 | 36.5 | 0.8 | 63.0 | 59.0 | 1.5 | 5.5 | 3.0 | 0.41 |
| | 72.000 | 19.000 | 18.923 | 15.875 | 1.5 | 1.5 | 54.4 | 60.1 | 5,900 | 7,800 | 26112—26283 | | 4.1 | 0.36 | 1.67 | 0.92 | 35.0 | 37.0 | 1.5 | 65.0 | 62.0 | 1.5 | 4.5 | 3.0 | 0.38 |
| | 72.626 | 24.608 | 24.257 | 17.462 | 4.8 | 1.5 | 64.6 | 64.1 | 6,100 | 8,600 | 41125—41286 | | 4.1 | 0.60 | 1.00 | 0.55 | 36.5 | 48.0 | 4.8 | 68.0 | 61.0 | 1.5 | 6.5 | 4.0 | 0.46 |

# Tapered Roller Bearings

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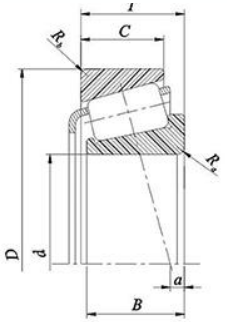


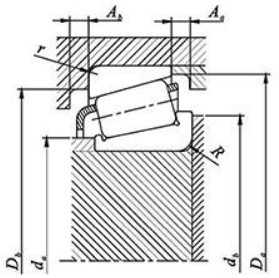

## *d* 28.575~31.750 mm

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | | Action point location mm | constant | Axial load factor | | Installation related dimensions (mm) | | | | | | | | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | $R_a$ | $R_b$ | | | | | | | | | | | axis | | | Bearing pedestal | | | Cage | | |
| $d$ | $D$ | $T$ | $B$ | $C$ | (Min) | | $C_r$ | $C_{0r}$ | Grease | Oil | inner--outer | | $a$ [1] | $e$ | $Y_1$ | $Y_0$ | $d_a$ | $d_b$ | $R$ (Max) | $D_a$ | $D_b$ | $r$ (Max) | $A_a$ | $A_b$ | |
| **28.575** | 72.626 | 24.608 | 24.257 | 17.462 | 1.5 | 1.5 | 64.6 | 64.1 | 6,100 | 8,600 | 41126—41286 | | 4.1 | 0.60 | 1.00 | 0.55 | 36.5 | 41.5 | 1.5 | 68.0 | 61.0 | 1.5 | 6.5 | 4.0 | 0.46 |
| | 72.626 | 30.162 | 29.997 | 23.812 | 3.5 | 3.3 | 87.7 | 102.0 | 5,800 | 7,700 | 3192—3120 | | 10.2 | 0.33 | 1.80 | 0.99 | 37.0 | 43.5 | 3.5 | 67.0 | 61.0 | 3.3 | 6.5 | 3.0 | 0.61 |
| | 72.626 | 30.162 | 29.997 | 23.812 | 1.3 | 3.3 | 87.7 | 102.0 | 5,800 | 7,400 | 3198—3120 | | 10.2 | 0.33 | 1.80 | 0.99 | 37.0 | 39.0 | 1.3 | 67.0 | 61.0 | 3.3 | 6.5 | 3.0 | 0.61 |
| | 73.025 | 22.225 | 22.225 | 17.462 | 0.8 | 3.3 | 60.8 | 74.9 | 5,500 | 7,400 | 02872—02820 | | 3.8 | 0.45 | 1.32 | 0.73 | 37.0 | 37.5 | 0.8 | 68.0 | 62.0 | 3.3 | 5.0 | 3.0 | 1.04 |
| | 79.375 | 25.400 | 24.074 | 17.462 | 0.8 | 1.5 | 71.9 | 76.2 | 5,500 | 7,300 | 43112—43312 | | 2 | 0.67 | 0.90 | 0.49 | 41.5 | 42.5 | 0.8 | 74.0 | 67.0 | 1.5 | 7.0 | 3.5 | 0.60 |
| **29.000** | 50.292 | 14.224 | 14.732 | 10.668 | 3.5 | 1.3 | 27.7 | 36.2 | 7,600 | 10,000 | L45449—L45410 | | 3.3 | 0.37 | 1.62 | 0.89 | 33.0 | 39.5 | 3.5 | 48.0 | 44.5 | 1.3 | 4.0 | 3.5 | 0.11 |
| **29.367** | 66.421 | 23.812 | 25.433 | 19.050 | 3.5 | 1.3 | 71.0 | 81.7 | 6,500 | 8,700 | 2690—2631 | | 9.4 | 0.25 | 2.36 | 1.30 | 35.0 | 41.0 | 3.5 | 60.0 | 58.0 | 1.3 | 6.0 | 4.5 | 0.40 |
| **29.987** | 62.000 | 16.002 | 16.556 | 14.288 | 1.5 | 1.5 | 40.0 | 44.1 | 6,700 | 8,900 | 17118—17244 | | 3.6 | 0.38 | 1.57 | 0.86 | 34.5 | 37.0 | 1.5 | 57.0 | 54.0 | 1.5 | 3.5 | 4.5 | 0.22 |
| | 62.000 | 19.050 | 20.638 | 14.288 | 1.3 | 1.3 | 46.8 | 53.9 | 6,400 | 8,600 | 15117—15245 | | 5.8 | 0.35 | 1.71 | 0.94 | 35.0 | 36.5 | 1.3 | 58.0 | 55.0 | 1.3 | 5.0 | 5.0 | 0.26 |
| **30.000** | 69.012 | 19.845 | 19.583 | 15.875 | 3.5 | 1.3 | 50.6 | 61.7 | 5,900 | 7,800 | 14117A—14276 | | 4.3 | 0.38 | 1.57 | 0.86 | 40.0 | 43.0 | 3.5 | 63.0 | 60.0 | 1.3 | 4.5 | 3.0 | 0.36 |
| **30.112** | 62.000 | 19.050 | 20.638 | 14.288 | 0.8 | 1.3 | 46.8 | 53.9 | 6,400 | 8,600 | 15116—15245 | | 5.8 | 0.35 | 1.71 | 0.94 | 35.5 | 36.0 | 0.8 | 58.0 | 55.0 | 1.3 | 5.0 | 5.0 | 0.26 |
| **30.162** | 62.000 | 16.002 | 16.566 | 14.288 | 1.5 | 1.5 | 40.0 | 44.1 | 6,700 | 8,900 | 17119—17244 | | 3.6 | 0.38 | 1.57 | 0.86 | 34.5 | 37.0 | 1.5 | 57.0 | 54.0 | 1.5 | 3.5 | 4.5 | 0.23 |
| | 64.292 | 21.433 | 21.433 | 16.670 | 1.5 | 1.5 | 55.7 | 71.7 | 6,400 | 8,500 | M86649—M86610 | | 3.3 | 0.55 | 1.10 | 0.60 | 38.2 | 41.0 | 1.5 | 61.0 | 54.0 | 1.5 | 5.0 | 3.0 | 0.33 |
| | 68.262 | 22.225 | 22.225 | 17.462 | 2.3 | 1.5 | 59.6 | 77.4 | 6,000 | 7,900 | M88043—M88010 | | 2.8 | 0.55 | 1.10 | 0.60 | 39.5 | 43.5 | 2.3 | 65.0 | 58.0 | 1.5 | 4.0 | 3.0 | 0.41 |
| **30.213** | 62.000 | 19.050 | 20.638 | 14.228 | 3.5 | 1.3 | 46.8 | 53.9 | 6,400 | 8,600 | 15118—15245 | | 5.8 | 0.35 | 1.71 | 0.94 | 35.5 | 41.5 | 3.5 | 58.0 | 55.0 | 1.3 | 5.0 | 5.0 | 0.26 |
| | 62.000 | 19.050 | 20.638 | 14.228 | 1.5 | 1.3 | 46.8 | 53.9 | 6,400 | 8,600 | 15119—15245 | | 5.8 | 0.35 | 1.71 | 0.94 | 35.5 | 37.5 | 1.5 | 58.0 | 55.0 | 1.3 | 5.0 | 5.0 | 0.26 |
| | 62.000 | 19.050 | 20.638 | 14.228 | 0.8 | 1.3 | 46.8 | 53.9 | 6,400 | 8,600 | 15120—15245 | | 5.8 | 0.35 | 1.71 | 0.94 | 35.5 | 36.0 | 0.8 | 58.0 | 55.0 | 1.3 | 5.0 | 5.0 | 0.26 |
| **30.226** | 69.012 | 19.845 | 19.583 | 15.875 | 0.8 | 3.3 | 50.6 | 61.7 | 5,900 | 7,800 | 14116—14274 | | 4.3 | 0.38 | 1.57 | 0.86 | 36.5 | 38.0 | 0.8 | 63.0 | 59.0 | 3.3 | 4.5 | 3.0 | 0.35 |
| **31.750** | 58.738 | 14.684 | 15.080 | 10.716 | 1.0 | 1.0 | 29.3 | 35.0 | 6,600 | 8,900 | 08125—08231 | | 1.3 | 0.47 | 1.27 | 0.69 | 36.0 | 37.5 | 1.0 | 55.0 | 52.0 | 1.0 | 4.5 | 3.0 | 0.16 |
| | 59.131 | 15.875 | 16.764 | 11.811 | ** [2] | 1.3 | 36.5 | 44.6 | 6,600 | 8,800 | LM67048—LM67010 | | 3.0 | 0.41 | 1.46 | 0.80 | 36.0 | 42.5 | ** [2] | 56.0 | 52.0 | 1.3 | 4.5 | 3.5 | 0.17 |
| | 62.000 | 18.161 | 19.050 | 14.288 | ** | 1.3 | 46.8 | 53.9 | 6,400 | 8,600 | 15123—15245 | | 4.8 | 0.35 | 1.71 | 0.94 | 36.5 | 42.5 | ** | 58.0 | 55.0 | 1.3 | 5.0 | 5.0 | 0.23 |
| | 62.000 | 19.050 | 20.638 | 14.288 | 3.5 | 1.3 | 46.8 | 53.9 | 6,400 | 8,600 | 15125—15245 | | 5.8 | 0.35 | 1.71 | 0.94 | 36.5 | 42.5 | 3.5 | 58.0 | 55.0 | 1.3 | 5.0 | 5.0 | 0.24 |
| | 62.000 | 19.050 | 19.050 | 14.288 | 0.8 | 1.3 | 46.8 | 53.9 | 6,400 | 8,600 | 15126—15245 | | 5.8 | 0.35 | 1.71 | 0.94 | 36.5 | 37.0 | 0.8 | 58.0 | 55.0 | 1.3 | 5.0 | 5.0 | 0.25 |
| | 66.421 | 25.400 | 25.357 | 20.638 | 0.8 | 3.3 | 77.5 | 94.4 | 6,000 | 8,000 | 2580—2520 | | 8.6 | 0.27 | 2.19 | 1.21 | 37.5 | 38.5 | 0.8 | 62.0 | 56.9 | 3.3 | 5.5 | 3.0 | 0.39 |
| | 68.262 | 22.225 | 22.225 | 17.462 | 1.5 | 1.5 | 59.6 | 77.4 | 6,000 | 7,900 | M88046—M88010 | | 2.8 | 0.55 | 1.10 | 0.60 | 40.5 | 43.0 | 1.5 | 65.0 | 58.0 | 1.5 | 4.0 | 3.0 | 0.40 |
| | 68.262 | 22.225 | 22.225 | 17.462 | 3.5 | 1.5 | 59.1 | 70.2 | 6,000 | 8,000 | 02475—02420 | | 5.1 | 0.42 | 1.44 | 0.79 | 38.5 | 44.5 | 3.5 | 63.0 | 59.0 | 1.5 | 5.5 | 3.0 | 0.37 |

# Tapered Roller Bearings

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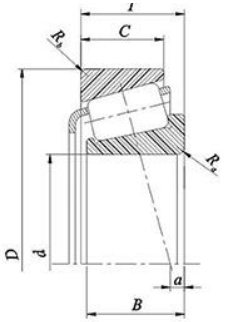


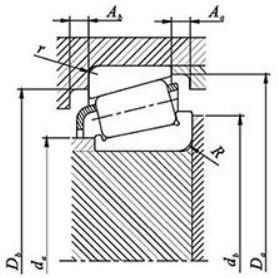

## *d* 31.750~34.980 mm

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | | Action point location mm | constant | Axial load factor | | Installation related dimensions (mm) | | | | | | | | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | $R_a$ | $R_b$ | | | | | | | | | | | axis | | | Bearing pedestal | | | Cage | | |
| *d* | *D* | *T* | *B* | *C* | (Min) | | $C_r$ | $C_{0r}$ | Grease | Oil | inner--outer | | $a$ [1] | *e* | $Y_1$ | $Y_0$ | $d_a$ | $d_b$ | *R* (Max) | $D_a$ | $D_b$ | *r* (Max) | $A_a$ | $A_b$ | |
| 31.750 | 68.262 | 22.225 | 22.225 | 17.462 | 0.8 | 1.5 | 59.1 | 70.2 | 6,000 | 8,000 | 02476—02420 | | 5.1 | 0.42 | 1.44 | 0.79 | 38.5 | 44.5 | 0.8 | 63.0 | 59.0 | 1.5 | 5.5 | 3.0 | 0.38 |
| | 73.025 | 22.225 | 22.225 | 17.462 | 3.5 | 3.3 | 60.8 | 74.9 | 5,600 | 7,400 | 02875—02820 | | 3.8 | 0.45 | 1.32 | 0.73 | 39.5 | 45.5 | 3.5 | 68.0 | 62.0 | 3.3 | 5.0 | 3.0 | 0.44 |
| | 73.025 | 22.225 | 22.225 | 17.462 | 0.8 | 3.3 | 60.8 | 74.9 | 5,600 | 7,400 | 02876—02820 | | 3.8 | 0.45 | 1.32 | 0.73 | 39.5 | 40.0 | 0.8 | 68.0 | 62.0 | 3.3 | 5.0 | 3.0 | 0.45 |
| | 73.025 | 29.370 | 27.783 | 23.020 | 1.3 | 3.3 | 80.6 | 111 | 5,600 | 7,500 | HM88542—HM88510 | | 5.6 | 0.55 | 1.10 | 0.60 | 42.5 | 45.5 | 1.3 | 70.0 | 59.0 | 3.3 | 6.5 | 2.0 | 0.61 |
| | 73.812 | 29.370 | 27.783 | 23.020 | 1.3 | 0.8 | 80.6 | 111 | 5,600 | 7,500 | HM88542—HM88511 | | 5.6 | 0.55 | 1.10 | 0.60 | 42.5 | 45.5 | 1.3 | 70.0 | 62.0 | 0.8 | 6.5 | 2.0 | 0.62 |
| | 79.375 | 25.400 | 24.074 | 17.462 | 1.5 | 1.5 | 71.9 | 76.2 | 5,500 | 7,300 | 43125—43312 | | 2.0 | 0.67 | 0.90 | 0.49 | 41.5 | 44.0 | 1.5 | 74.0 | 67.0 | 1.5 | 7.0 | 3.5 | 0.57 |
| 33.338 | 68.262 | 22.225 | 22.225 | 17.462 | 0.8 | 1.5 | 59.6 | 77.4 | 6,020 | 7,900 | M88048—M88010 | | 2.8 | 0.55 | 1.10 | 0.60 | 41.0 | 42.5 | 0.8 | 65.0 | 58.0 | 1.5 | 4.0 | 3.0 | 0.37 |
| | 72.000 | 19.000 | 18.923 | 15.875 | 3.5 | 1.5 | 54.4 | 60.1 | 5,900 | 7,800 | 26131—26283 | | 4.2 | 0.36 | 1.67 | 0.92 | 38.5 | 44.5 | 3.5 | 65.0 | 62.0 | 1.5 | 4.5 | 3.0 | 0.34 |
| | 73.025 | 29.370 | 27.783 | 23.020 | 0.8 | 3.3 | 80.6 | 111 | 5,600 | 7,500 | HM88547—HM88510 | | 5.6 | 0.55 | 1.10 | 0.60 | 42.6 | 45.5 | 0.8 | 70.0 | 59.0 | 3.3 | 6.5 | 2.0 | 0.59 |
| | 76.200 | 29.370 | 28.575 | 23.020 | 0.8 | 3.3 | 86.2 | 119 | 5,400 | 7,200 | HM89443—HM89410 | | 5.6 | 0.55 | 1.10 | 0.60 | 44.5 | 46.5 | 0.8 | 73.0 | 62.0 | 3.3 | 5.5 | 3.0 | 0.66 |
| | 79.375 | 25.400 | 24.074 | 17.462 | 3.5 | 1.5 | 71.9 | 76.2 | 5,500 | 7,300 | 43131—43312 | | 2.0 | 0.67 | 0.90 | 0.49 | 42.0 | 51.0 | 3.5 | 74.0 | 67.0 | 1.5 | 7.0 | 3.5 | 0.55 |
| | 79.375 | 25.400 | 24.074 | 17.462 | 2.0 | 1.5 | 71.9 | 76.2 | 5,500 | 7,300 | 43132—43312 | | 2.0 | 0.67 | 0.90 | 0.49 | 42.0 | 48.0 | 2.0 | 74.0 | 67.0 | 1.5 | 7.0 | 3.5 | 0.56 |
| | 88.501 | 25.400 | 23.698 | 17.462 | 2.0 | 1.5 | 77.9 | 88.6 | 3,900 | 5,500 | 43131—43318 | | 2.3 | 0.78 | 0.77 | 0.42 | 48.0 | 51.0 | 2.0 | 84.0 | 75.0 | 1.5 | 5.5 | 4.0 | 0.76 |
| 34.925 | 65.088 | 18.034 | 18.288 | 13.970 | ** [2] | 1.3 | 50.5 | 63.1 | 6,000 | 8,000 | LM48548—LM48510 | | 3.6 | 0.38 | 1.59 | 0.88 | 40.0 | 46.0 | ** [2] | 61.0 | 58.0 | 1.3 | 4.5 | 3.0 | 0.26 |
| | 69.012 | 19.845 | 19.583 | 15.875 | 1.5 | 1.3 | 50.6 | 61.7 | 5,900 | 7,800 | 14137A—14276 | | 4.3 | 0.38 | 1.57 | 0.86 | 40.0 | 42.0 | 1.5 | 63.0 | 60.0 | 1.3 | 4.5 | 3.0 | 0.32 |
| | 72.233 | 25.400 | 25.400 | 19.842 | 2.3 | 2.3 | 71.1 | 94.2 | 5,700 | 7,600 | HM88649—HM88610 | | 4.6 | 0.55 | 1.10 | 0.6 | 42.5 | 48.5 | 2.3 | 69.0 | 60.0 | 2.3 | 5.5 | 4.0 | 0.50 |
| | 72.238 | 20.638 | 20.638 | 15.875 | 3.5 | 1.3 | 52.4 | 65.8 | 5,600 | 7,400 | 16137—16284 | | 4.1 | 0.40 | 1.49 | 0.82 | 40.5 | 47.0 | 3.5 | 67.0 | 63.0 | 1.3 | 5.5 | 3.0 | 0.38 |
| | 73.025 | 22.225 | 22.225 | 17.462 | 3.5 | 3.3 | 60.8 | 74.9 | 5,500 | 7,400 | 02877—02820 | | 3.8 | 0.45 | 1.32 | 0.73 | 42.0 | 48.5 | 3.5 | 68.0 | 62.0 | 3.3 | 5.0 | 3.0 | 0.41 |
| | 73.025 | 22.225 | 22.225 | 17.462 | 0.8 | 3.3 | 60.8 | 74.9 | 5,500 | 7,400 | 02878—02820 | | 3.8 | 0.45 | 1.32 | 0.73 | 42.0 | 42.5 | 0.8 | 68.0 | 62.0 | 3.3 | 5.0 | 3.0 | 0.42 |
| | 73.025 | 23.812 | 24.608 | 19.050 | 1.5 | 0.8 | 78.8 | 97.4 | 5,600 | 7,400 | 25877—25821 | | 8.1 | 0.29 | 2.07 | 1.14 | 40.5 | 43.0 | 1.5 | 68.0 | 65.0 | 0.8 | 5.5 | 4.5 | 0.46 |
| | 76.200 | 23.812 | 25.654 | 19.050 | 5.0 | 3.3 | 80.4 | 102 | 5,300 | 7,000 | 2786—2720 | | 8.1 | 0.30 | 1.98 | 0.82 | 41.0 | 51.0 | 5.0 | 70.0 | 66.0 | 3.3 | 5.0 | 5.0 | 0.52 |
| | 76.200 | 29.370 | 28.575 | 23.812 | 3.5 | 3.3 | 87.7 | 107 | 5,400 | 7,200 | 31594—31520 | | 7.6 | 0.40 | 1.49 | 1.09 | 43.5 | 46.0 | 1.5 | 72.0 | 64.0 | 3.3 | 6.0 | 2.5 | 0.61 |
| | 79.375 | 29.370 | 29.711 | 23.812 | 3.5 | 3.3 | 96.9 | 119 | 5,400 | 7,200 | 3478—3420 | | 8.6 | 0.37 | 1.64 | 0.82 | 43.5 | 50.0 | 3.5 | 74.0 | 67.0 | 3.3 | 6.0 | 3.5 | 0.70 |
| | 80.035 | 21.433 | 20.940 | 15.875 | 1.5 | 1.5 | 58.8 | 68.9 | 5,200 | 6,900 | 28137—28317 | | 4.8 | 0.40 | 1.49 | 0.90 | 41.0 | 43.5 | 1.5 | 73.0 | 69.0 | 1.5 | 4.5 | 3.0 | 0.50 |
| | 95.250 | 27.782 | 29.900 | 22.225 | 0.8 | 2.3 | 118 | 144 | 4,500 | 5,900 | 449—432 | | 9.1 | 0.28 | 2.11 | 1.16 | 43.5 | 44.0 | 0.8 | 87.0 | 83.0 | 2.3 | 6.0 | 5.0 | 1.07 |
| 34.980 | 59.131 | 15.875 | 16.764 | 11.938 | ** [2] | 1.3 | 35.5 | 49.3 | 6,400 | 8,500 | L68149—L68110 | | 2.5 | 0.42 | 1.44 | 0.79 | 39.0 | 45.5 | ** [2] | 56.0 | 53.0 | 1.3 | 4.0 | 3.0 | 0.18 |
| | 59.975 | 15.875 | 16.764 | 11.938 | ** | 1.3 | 35.5 | 49.3 | 6,400 | 8,500 | L68149—L68110 | | 2.5 | 0.42 | 1.44 | 0.79 | 39.0 | 45.5 | ** | 56.0 | 53.0 | 1.3 | 4.0 | 3.0 | 0.18 |

# Tapered Roller Bearings

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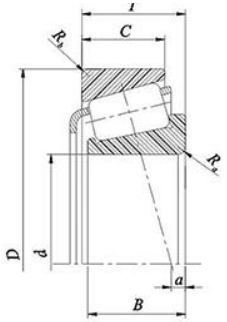


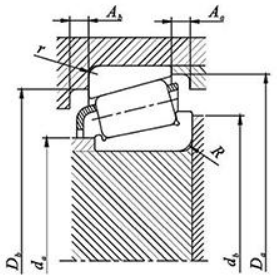


## *d* 35.000~38.100 mm

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | | Action point location mm | constant | Axial load factor | | Installation related dimensions (mm) | | | | | | | | | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | axis | | | Bearing pedestal | | | Cage | | |
| *d* | *D* | *T* | *B* | *C* | $R_a$ (Min) | $R_b$ | $C_r$ | $C_{0r}$ | Grease | Oil | inner--outer | | $a$ [1] | $e$ | $Y_1$ | $Y_0$ | $d_a$ | $d_b$ | $R$ (Max) | $D_a$ | $D_b$ | $r$ (Max) | $A_a$ | $A_b$ | |
| **35.000** | 79.375 | 23.812 | 25.400 | 19.050 | 0.8 | 0.8 | 84.3 | 110 | 5,000 | 6,700 | 26883—26822 | | 7.4 | 0.32 | 1.88 | 1.04 | 42.0 | 42.5 | 0.8 | 74.0 | 71.0 | 0.8 | 5.0 | 4.5 | | 0.60 |
| | 80.000 | 21.000 | 22.403 | 17.826 | 0.8 | 1.3 | 73.6 | 83.4 | 4,900 | 6,000 | 338—332 | | 6.2 | 0.27 | 2.20 | 1.21 | 41.5 | 42.5 | 0.8 | 75.0 | 73.0 | 1.3 | 5.0 | 4.5 | | 0.53 |
| **35.717** | 72.233 | 25.400 | 25.400 | 19.842 | 3.5 | 2.3 | 71.1 | 94.2 | 5,700 | 7,600 | HM88648—HM88610 | | 4.6 | 0.55 | 1.10 | 0.60 | 43.0 | 52.0 | 3.5 | 69.0 | 60.0 | 2.3 | 5.5 | 4.0 | | 0.48 |
| **36.487** | 73.025 | 23.812 | 24.608 | 19.050 | 1.5 | 0.8 | 78.8 | 97.4 | 5,600 | 7,400 | 25880—25821 | | 8.1 | 0.29 | 2.07 | 1.14 | 42.0 | 44.0 | 1.5 | 68.0 | 65.0 | 0.8 | 5.5 | 4.5 | | 0.45 |
| | 76.200 | 23.812 | 25.654 | 19.050 | 1.5 | 3.3 | 80.4 | 102 | 5,400 | 7,200 | 2780—2720 | | 8.1 | 0.3 | 1.98 | 1.09 | 42.5 | 44.5 | 1.5 | 70.0 | 66.0 | 3.3 | 5.0 | 5.0 | | 0.52 |
| **36.512** | 76.200 | 29.370 | 28.575 | 23.020 | 3.5 | 0.8 | 86.2 | 119 | 5,400 | 7,200 | HM89449—HM89441 | | 5.6 | 0.55 | 1.10 | 0.60 | 44.5 | 54.0 | 3.5 | 73.0 | 65.0 | 0.8 | 5.5 | 3.0 | | 0.62 |
| | 79.375 | 23.812 | 25.400 | 19.050 | 0.8 | 0.8 | 84.3 | 110 | 5,000 | 6,700 | 26877—26822 | | 7.4 | 0.32 | 1.88 | 1.04 | 43.0 | 44.0 | 0.8 | 74.0 | 71.0 | 0.8 | 5.0 | 4.5 | | 0.59 |
| | 79.375 | 29.370 | 29.771 | 23.812 | 0.8 | 3.3 | 96.9 | 119 | 5,200 | 6,900 | 3479—3420 | | 8.6 | 0.37 | 1.64 | 0.90 | 44.5 | 45.5 | 0.8 | 74.0 | 67.0 | 3.3 | 6.0 | 3.5 | | 0.68 |
| | 85.725 | 30.162 | 30.162 | 23.812 | 0.8 | 3.3 | 115 | 148 | 4,800 | 6,400 | 3878—3820 | | 8.1 | 0.40 | 1.49 | 0.82 | 47.0 | 48.0 | 0.8 | 81.0 | 73.0 | 3.3 | 7.0 | 4.5 | | 0.89 |
| | 88.500 | 25.400 | 23.698 | 17.462 | 2.3 | 1.5 | 77.9 | 88.6 | 3,900 | 5,500 | 44143—44348 | | -2.3 | 0.78 | 0.77 | 0.42 | 50.0 | 54.0 | 2.3 | 84.0 | 75.0 | 1.5 | 5.5 | 4.0 | | 0.72 |
| **38.000** | 63.000 | 17.000 | 17.000 | 13.500 | ** [2] | 1.3 | 39.8 | 55.0 | 6,000 | 8,000 | JL69349—JL69310 | | 2.3 | 0.42 | 1.44 | 0.79 | 42.5 | 49.0 | ** [2] | 60.0 | 56.0 | 1.3 | 4.0 | 3.0 | | 0.19 |
| **38.100** | 63.500 | 12.700 | 11.908 | 9.525 | 1.5 | 0.8 | 25.1 | 33.0 | 5,800 | 7,700 | 13889—13830 | | 0.8 | 0.35 | 1.73 | 0.95 | 42.5 | 45.0 | 1.5 | 60.0 | 59.0 | 0.8 | 4.0 | 2.0 | | 0.14 |
| | 65.088 | 12.700 | 11.908 | 9.525 | 1.5 | 0.8 | 25.1 | 33.0 | 5,800 | 7,700 | 13889—13836 | | 0.8 | 0.35 | 1.73 | 0.95 | 42.5 | 45.0 | 1.5 | 61.0 | 59.0 | 0.8 | 4.0 | 2.0 | | 0.15 |
| | 65.088 | 18.034 | 18.288 | 13.970 | ** [2] | 1.3 | 45.0 | 60.3 | 5,800 | 7,800 | LM29748—LM29710 | | 4.1 | 0.33 | 1.80 | 0.99 | 42.5 | 49.0 | ** [2] | 62.0 | 59.0 | 1.3 | 4.5 | 3.0 | | 0.22 |
| | 65.088 | 19.812 | 18.288 | 15.748 | 2.3 | 1.3 | 45.0 | 60.3 | 5,800 | 7,800 | LM29749—LM29711 | | 4.1 | 0.33 | 1.80 | 0.99 | 42.5 | 46.0 | 2.3 | 62.0 | 58.0 | 1.3 | 4.5 | 1.5 | | 0.24 |
| | 69.012 | 19.050 | 19.050 | 15.083 | 2.0 | 2.3 | 52.5 | 67.9 | 5,600 | 7,500 | 13687—13621 | | 3.0 | 0.40 | 1.49 | 0.82 | 43.0 | 46.5 | 2.0 | 65.0 | 61.0 | 2.3 | 4.0 | 2.5 | | 0.29 |
| | 71.438 | 15.875 | 16.520 | 11.908 | 1.5 | 1.0 | 46.9 | 57.8 | 5,700 | 7,600 | 19150—19281 | | 1.5 | 0.44 | 1.35 | 0.74 | 43.0 | 45.0 | 1.5 | 66.0 | 63.0 | 1.0 | 4.0 | 4.0 | | 0.27 |
| | 71.996 | 17.018 | 16.520 | 14.288 | 1.5 | 1.5 | 46.9 | 57.8 | 5,700 | 7,600 | 19150—19288 | | 1.5 | 0.44 | 1.35 | 0.74 | 43.0 | 45.0 | 1.5 | 66.0 | 63.0 | 1.5 | 2.5 | 3.0 | | 0.30 |
| | 72.000 | 19.000 | 20.638 | 14.237 | 3.5 | 1.5 | 52.4 | 65.8 | 5,600 | 7,400 | 16150—16282 | | 4.1 | 0.40 | 1.49 | 0.82 | 43.0 | 49.5 | 3.5 | 67.0 | 63.0 | 1.5 | 5.5 | 4.5 | | 0.33 |
| | 72.238 | 20.638 | 20.638 | 15.875 | 3.5 | 1.3 | 52.4 | 65.8 | 5,600 | 7,400 | 16150—16284 | | 4.1 | 0.40 | 1.49 | 0.82 | 43.0 | 49.5 | 3.5 | 67.0 | 63.0 | 1.3 | 5.5 | 3.0 | | 0.35 |
| | 76.200 | 23.812 | 25.654 | 19.050 | 3.5 | 3.3 | 80.4 | 102 | 5,400 | 7,200 | 2788—2720 | | 8.1 | 0.30 | 1.98 | 1.09 | 43.5 | 50.0 | 3.5 | 77.0 | 66.0 | 3.3 | 5.0 | 5.0 | | 0.49 |
| | 79.375 | 29.370 | 29.771 | 23.812 | 3.5 | 3.3 | 96.9 | 119 | 5,200 | 6,900 | 3490—3420 | | 8.6 | 0.37 | 1.64 | 0.90 | 45.5 | 52.0 | 3.5 | 74.0 | 67.0 | 3.3 | 6.0 | 3.5 | | 0.65 |
| | 80.035 | 21.006 | 20.940 | 15.875 | 1.5 | 1.5 | 58.8 | 68.9 | 5,300 | 7,000 | 28150—28315 | | 4.8 | 0.40 | 1.49 | 0.82 | 43.5 | 45.5 | 1.5 | 73.0 | 69.0 | 1.5 | 4.5 | 3.5 | | 0.46 |
| | 80.035 | 24.608 | 23.698 | 18.512 | 0.8 | 1.5 | 72.2 | 91.1 | 5,200 | 6,900 | 27880—27820 | | 2.5 | 0.56 | 1.07 | 0.59 | 47.0 | 48.0 | 0.8 | 75.0 | 68.0 | 1.5 | 4.5 | 2.5 | | 0.56 |
| | 80.035 | 24.608 | 23.698 | 18.512 | 3.5 | 1.5 | 72.2 | 91.1 | 5,200 | 6,900 | 27881—27820 | | 2.5 | 0.56 | 1.07 | 0.59 | 47.0 | 53.0 | 3.5 | 75.0 | 68.0 | 1.5 | 4.5 | 2.5 | | 0.55 |
| | 82.550 | 29.370 | 28.575 | 23.020 | 0.8 | 3.3 | 95.1 | 130 | 4,900 | 6,600 | HM801346—HM801310 | | 4.8 | 0.55 | 1.10 | 0.60 | 49.1 | 51.0 | 0.8 | 78.0 | 68.0 | 3.3 | 6.0 | 3.0 | | 0.76 |
| | 82.550 | 29.370 | 28.575 | 23.020 | 2.3 | 3.3 | 95.1 | 130 | 4,900 | 6,600 | HM801346X—HM801310 | | 4.8 | 0.55 | 1.10 | 0.60 | 49.1 | 54.0 | 2.3 | 78.0 | 68.0 | 3.3 | 6.0 | 3.0 | | 0.53 |

# Tapered Roller Bearings

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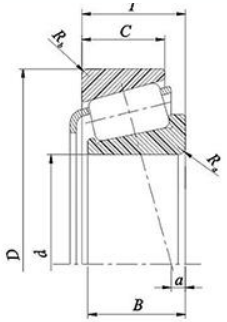


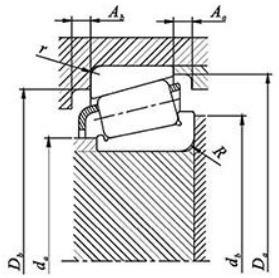


*d* **41.275~44.450 mm**

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | | Action point location mm | constant | Axial load factor | | Installation related dimensions (mm) | | | | | | | | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | $R_a$ | $R_b$ | | | | | | | | | | | axis | | | Bearing pedestal | | | Cage | | |
| $d$ | $D$ | $T$ | $B$ | $C$ | (Min) | | $C_r$ | $C_{0r}$ | Grease | Oil | inner--outer | | $a$ [1] | $e$ | $Y_1$ | $Y_0$ | $d_a$ | $d_b$ | $R$ (Max) | $D_a$ | $D_b$ | $r$ (Max) | $A_a$ | $A_b$ | |
| **41.275** | 88.501 | 26.988 | 29.083 | 22.225 | 3.5 | 1.5 | 107 | 124 | 4,600 | 6,200 | 419—414 | | 9.7 | 0.26 | 2.28 | 1.25 | 47.0 | 54.0 | 3.5 | 80.0 | 77.0 | 1.5 | 6.0 | 5.0 | 0.77 |
| | 88.900 | 20.638 | 22.225 | 16.513 | 3.5 | 1.3 | 79.5 | 95.8 | 4,900 | 6,500 | 365A—362A | | 4.3 | 0.32 | 1.88 | 1.03 | 48.5 | 55.0 | 3.5 | 84.0 | 81.0 | 1.3 | 5.5 | 5.0 | 0.62 |
| | 88.900 | 30.162 | 29.370 | 23.020 | 3.5 | 3.3 | 105 | 144 | 4,400 | 5,800 | HM803146—HM803110 | | 4.3 | 0.55 | 1.10 | 0.60 | 53.0 | 60.0 | 3.5 | 85.0 | 74.0 | 3.3 | 7.5 | 4.0 | 0.89 |
| | 88.900 | 30.162 | 29.370 | 23.020 | 3.5 | 0.8 | 105 | 144 | 4,600 | 6,100 | HM803146—HM803111 | | 4.3 | 0.55 | 1.10 | 0.60 | 53.0 | 60.0 | 3.5 | 85.0 | 76.0 | 0.8 | 7.5 | 4.0 | 0.90 |
| | 90.488 | 39.688 | 40.386 | 33.338 | 3.5 | 3.3 | 155 | 204 | 4,500 | 6,000 | 4388—4335 | | 15.0 | 0.28 | 2.11 | 1.16 | 51.0 | 57.0 | 3.5 | 85.0 | 77.0 | 3.3 | 6.5 | 3.5 | 1.23 |
| | 93.662 | 31.750 | 31.750 | 26.195 | 0.8 | 3.3 | 120 | 158 | 4,400 | 5,800 | 46162—46368 | | 7.9 | 0.40 | 1.49 | 0.82 | 51.0 | 52.0 | 0.8 | 87.0 | 79.0 | 3.3 | 5.5 | 3.5 | 1.07 |
| | 95.250 | 30.162 | 29.370 | 23.020 | 3.5 | 3.3 | 115 | 157 | 3,300 | 4,400 | HM804840—HM804810 | | 3.8 | 0.55 | 1.10 | 0.60 | 54.0 | 61.0 | 3.5 | 91.0 | 81.0 | 3.3 | 7.0 | 4.5 | 1.06 |
| | 104.775 | 36.513 | 36.512 | 28.575 | 1.5 | 3.3 | 159 | 223 | 3,800 | 5,100 | HM807035—HM807010 | | 7.4 | 0.49 | 1.23 | 0.68 | 57.0 | 60.0 | 1.5 | 100 | 89.0 | 3.3 | 7.0 | 4.0 | 1.69 |
| **42.070** | 90.488 | 39.688 | 40.386 | 33.338 | 3.5 | 3.3 | 155 | 204 | 4,500 | 6,000 | 4395—4335 | | 15.0 | 0.28 | 2.11 | 1.16 | 51.0 | 58.0 | 3.5 | 85.0 | 77.0 | 3.3 | 6.5 | 3.5 | 1.21 |
| **42.862** | 76.992 | 17.462 | 17.145 | 11.908 | 1.5 | 1.5 | 45.9 | 58.1 | 5,000 | 6,600 | 12168—12303 | | 0 | 0.51 | 1.19 | 0.65 | 48.5 | 51.0 | 1.5 | 73.0 | 68.0 | 1.5 | 6.0 | 3.5 | 0.31 |
| **42.875** | 79.375 | 23.812 | 25.400 | 19.050 | 3.5 | 0.8 | 84.3 | 110 | 5,000 | 6,700 | 26884—26822 | | 7.4 | 0.32 | 1.88 | 1.04 | 48.5 | 55.0 | 3.5 | 74.0 | 71.0 | 0.8 | 5.0 | 4.5 | 0.50 |
| | 82.931 | 23.876 | 25.400 | 19.050 | 3.5 | 0.8 | 83.8 | 111 | 4,800 | 6,300 | 25577—25520 | | 6.4 | 0.33 | 1.79 | 0.99 | 49.0 | 55.0 | 3.5 | 77.0 | 74.0 | 0.8 | 5.5 | 4.5 | 0.58 |
| **44.450** | 73.025 | 18.258 | 18.258 | 15.083 | 1.5 | 1.5 | 52.8 | 73.8 | 5,100 | 6,800 | L102849—L102810 | | 3.8 | 0.32 | 1.88 | 1.04 | 49.0 | 51.0 | 1.5 | 69.0 | 66.0 | 1.5 | 4.5 | 3.0 | 0.30 |
| | 79.992 | 17.462 | 17.145 | 11.908 | 1.5 | 1.5 | 45.9 | 58.1 | 5,000 | 6,600 | 12175—12303 | | 0 | 0.51 | 1.19 | 0.65 | 49.5 | 52.0 | 1.5 | 73.0 | 68.0 | 1.5 | 6.0 | 3.5 | 0.30 |
| | 79.375 | 17.462 | 17.462 | 13.495 | 2.8 | 1.5 | 48.2 | 61.3 | 4,800 | 6,400 | 18685—18620 | | 2 | 0.37 | 1.60 | 0.88 | 49.5 | 54.0 | 2.8 | 74.0 | 71.0 | 1.5 | 5.0 | 3.5 | 0.34 |
| | 82.931 | 23.812 | 25.400 | 19.050 | 5.0 | 0.8 | 83.8 | 111 | 4,800 | 6,300 | 25582—25520 | | 6.4 | 0.33 | 1.79 | 0.99 | 50.0 | 60.0 | 5.0 | 77.0 | 74.0 | 0.8 | 5.5 | 4.5 | 0.55 |
| | 84.138 | 30.162 | 30.886 | 23.812 | 3.5 | 3.3 | 105 | 134 | 4,600 | 6,200 | 3578—3520 | | 10.2 | 0.31 | 1.96 | 1.08 | 51.0 | 57.0 | 3.5 | 80.0 | 74.0 | 3.3 | 6.5 | 3.5 | 0.68 |
| | 85.000 | 20.638 | 21.692 | 17.462 | 2.3 | 1.3 | 75.8 | 89.2 | 4,600 | 6,200 | 355—354A | | 4.8 | 0.31 | 1.96 | 1.08 | 50.0 | 54.0 | 2.3 | 80.0 | 77.0 | 1.3 | 5.0 | 5.0 | 0.50 |
| | 85.000 | 20.638 | 21.692 | 17.462 | 0.8 | 1.3 | 75.8 | 89.2 | 4,600 | 6,200 | 355A—355A | | 4.8 | 0.31 | 1.96 | 1.08 | 50.0 | 51.0 | 0.8 | 80.0 | 77.0 | 1.3 | 5.0 | 5.0 | 0.50 |
| | 88.900 | 30.162 | 29.370 | 23.020 | 3.5 | 3.3 | 105 | 144 | 4,600 | 6,100 | HM803149—LM803110 | | 4.3 | 0.55 | 1.10 | 0.60 | 53.4 | 62.0 | 3.5 | 85.0 | 74.0 | 3.3 | 7.5 | 4.0 | 0.84 |
| | 93.662 | 31.750 | 31.750 | 26.195 | 0.8 | 3.3 | 120 | 158 | 4,400 | 5,900 | 46175—46368 | | 7.8 | 0.40 | 1.49 | 0.92 | 54.0 | 55.0 | 0.8 | 87.0 | 79.0 | 3.3 | 5.5 | 3.5 | 1.01 |
| | 93.662 | 31.750 | 31.750 | 25.400 | 3.5 | 3.3 | 126 | 156 | 4,400 | 5,800 | 49175—49368 | | 9.1 | 0.36 | 1.67 | 0.82 | 53.0 | 59.0 | 3.5 | 87.0 | 82.0 | 3.3 | 5.5 | 3.0 | 1.00 |
| | 93.662 | 31.750 | 31.750 | 26.195 | 3.5 | 3.3 | 120 | 158 | 4,400 | 5,800 | 46176—46368 | | 7.8 | 0.40 | 1.49 | 0.82 | 54.0 | 60.0 | 3.5 | 87.0 | 79.0 | 3.3 | 5.5 | 3.5 | 1.01 |
| | 95.250 | 27.783 | 28.575 | 22.225 | 0.8 | 2.3 | 120 | 161 | 4,100 | 5,400 | 33885—33821 | | 7.6 | 0.33 | 1.82 | 1.00 | 53.0 | 53.0 | 0.8 | 90.0 | 85.0 | 2.3 | 6.5 | 5.5 | 0.96 |
| | 95.250 | 27.783 | 29.000 | 22.225 | 3.5 | 0.8 | 118 | 144 | 4,500 | 5,900 | 438—432A | | 9.1 | 0.28 | 2.11 | 1.16 | 51.0 | 57.0 | 3.5 | 87.0 | 84.0 | 0.8 | 6.0 | 5.0 | 0.93 |
| | 95.250 | 30.162 | 29.370 | 23.020 | 0.8 | 3.3 | 115 | 157 | 3,300 | 4,400 | HM804842—HM804810 | | 3.8 | 0.55 | 1.10 | 0.6 | 57.0 | 57.0 | 0.8 | 91.0 | 81.0 | 3.3 | 7.0 | 4.5 | 1.02 |
| | 95.250 | 30.162 | 29.370 | 23.020 | 3.5 | 3.3 | 115 | 157 | 3,700 | 5,200 | HM804843—HM804810 | | 3.8 | 0.55 | 1.10 | 0.6 | 57.0 | 63.0 | 3.5 | 91.0 | 81.0 | 3.3 | 7.0 | 4.5 | 1.01 |

# Tapered Roller Bearings

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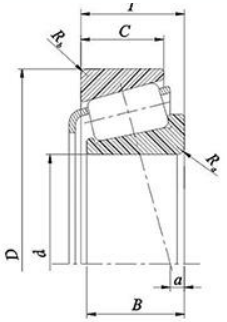


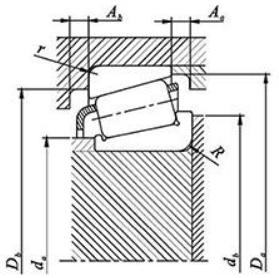

## *d* 44.450~47.625 mm

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | | Action point location mm | constant | Axial load factor | | Installation related dimensions (mm) | | | | | | | | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | $R_a$ | $R_b$ | | | | | | | | | | | axis | | | Bearing pedestal | | | Cage | | |
| *d* | *D* | *T* | *B* | *C* | (Min) | | $C_r$ | $C_{0r}$ | Grease | Oil | inner--outer | | $a$ [1] | *e* | $Y_1$ | $Y_0$ | $d_a$ | $d_b$ | R (Max) | $D_a$ | $D_b$ | r (Max) | $A_a$ | $A_b$ | |
| **44.450** | 95.250 | 30.958 | 28.300 | 20.638 | 3.5 | 0.8 | 92.8 | 104 | 3,700 | 5,200 | 53177—53375 | | 0.3 | 0.74 | 0.81 | 0.45 | 53.0 | 63.0 | 3.5 | 89.0 | 81.0 | 0.8 | 7.0 | 2.0 | 0.94 |
| | 95.250 | 30.958 | 28.300 | 20.638 | 2.0 | 0.8 | 92.8 | 104 | 3,700 | 5,200 | 53178—53375 | | 0.3 | 0.74 | 0.81 | 0.45 | 53.0 | 60.0 | 2.0 | 89.0 | 81.0 | 0.8 | 7.0 | 2.0 | 0.94 |
| | 95.250 | 30.958 | 28.575 | 22.225 | 3.5 | 0.8 | 107 | 132 | 3,700 | 5,100 | HM903249—HM903210 | | -0.5 | 0.74 | 0.81 | 0.45 | 54.0 | 65.0 | 3.5 | 91.0 | 81.0 | 0.8 | 7.0 | 2.0 | 1.00 |
| | 98.425 | 31.750 | 31.750 | 25.400 | 0.8 | 3.3 | 123 | 155 | 3,900 | 5,200 | 49576—49520 | | 7.1 | 0.40 | 1.50 | 0.82 | 54.0 | 55.0 | 0.8 | 96.0 | 88.0 | 3.3 | 6.5 | 4.0 | 1.23 |
| | 98.425 | 30.958 | 28.300 | 20.638 | 1.3 | 0.8 | 92.8 | 104 | 3,700 | 5,200 | 53176—53387 | | 0.3 | 0.74 | 0.81 | 0.45 | 53.0 | 59.0 | 1.3 | 91.0 | 82.0 | 0.8 | 7.0 | 2.0 | 1.03 |
| | 101.6 | 34.926 | 30.068 | 26.988 | 3.5 | 3.3 | 152 | 192 | 4,000 | 5,300 | 527—522 | | 12.7 | 0.29 | 2.10 | 1.16 | 53.0 | 59.0 | 3.5 | 95.0 | 89.0 | 3.3 | 8.0 | 5.5 | 1.35 |
| | 104.775 | 36.512 | 36.512 | 28.575 | 3.5 | 3.3 | 159 | 223 | 3,800 | 5,100 | HM807840—HM807810 | | 7.4 | 0.49 | 1.23 | 0.68 | 59.0 | 66.0 | 3.5 | 100 | 89.0 | 3.3 | 7.0 | 4.0 | 1.62 |
| | 111.125 | 30.162 | 26.909 | 20.638 | 3.5 | 3.3 | 118 | 161 | 3,100 | 4,300 | 55175C—55437 | | -7.6 | 0.88 | 0.68 | 0.37 | 64.0 | 70.0 | 3.5 | 105 | 92.0 | 3.3 | 6.0 | 3.5 | 1.44 |
| | 111.125 | 30.162 | 26.909 | 20.638 | 0.8 | 3.3 | 118 | 161 | 3,100 | 4,300 | 55176C—55437 | | -7.6 | 0.88 | 0.68 | 0.37 | 64.0 | 65.0 | 0.8 | 105 | 92.0 | 3.3 | 6.0 | 3.5 | 1.44 |
| | 111.125 | 38.100 | 36.957 | 30.162 | 3.5 | 3.3 | 159 | 206 | 3,800 | 5,100 | 535—532A | | 12.2 | 0.3 | 2.02 | 1.11 | 54.0 | 60.0 | 3.5 | 100 | 95.0 | 3.3 | 8.0 | 2.5 | 1.84 |
| **44.983** | 93.264 | 30.162 | 30.302 | 23.812 | 3.5 | 3.3 | 113 | 153 | 4,200 | 5,500 | 3776—3720 | | 8.1 | 0.34 | 1.77 | 0.97 | 53.0 | 59.0 | 3.5 | 88.0 | 82.0 | 3.3 | 7.0 | 3.5 | 0.94 |
| **44.988** | 95.250 | 30.958 | 28.575 | 22.225 | 3.5 | 0.8 | 107 | 132 | 3,700 | 5,100 | HM903248—HM903210 | | -0.5 | 0.74 | 0.81 | 0.45 | 54.0 | 66.0 | 3.5 | 91.0 | 81.0 | 0.8 | 7.0 | 2.0 | 0.99 |
| **45.000** | 85.000 | 20.638 | 21.692 | 17.462 | 1.5 | 1.3 | 75.8 | 89.2 | 4,600 | 6,200 | 358—354A | | 4.8 | 0.31 | 1.96 | 1.08 | 50.0 | 53.0 | 1.5 | 80.0 | 77.0 | 1.3 | 5.0 | 5.0 | 0.50 |
| **45.242** | 73.431 | 19.558 | 19.812 | 15.748 | 3.5 | 0.8 | 56.9 | 81.8 | 5,100 | 6,700 | LM102949—LM102910 | | 4.6 | 0.31 | 1.97 | 1.08 | 50.0 | 56.0 | 3.5 | 70.0 | 68.0 | 0.8 | 4.5 | 3.0 | 0.31 |
| | 77.788 | 19.842 | 19.842 | 15.080 | 3.5 | 0.8 | 59.6 | 77.9 | 4,900 | 6,500 | LM603049—LM603011 | | 2.3 | 0.43 | 1.41 | 0.77 | 50.0 | 57.0 | 3.5 | 74.0 | 71.0 | 0.8 | 5.0 | 3.5 | 0.36 |
| | 77.788 | 21.430 | 19.842 | 16.667 | 3.5 | 0.8 | 59.6 | 77.9 | 4,900 | 6,500 | LM603049—LM603012 | | 2.3 | 0.43 | 1.41 | 1.08 | 50.0 | 57.0 | 3.5 | 74.0 | 70.0 | 0.8 | 5.0 | 2.0 | 0.37 |
| | 80.000 | 19.842 | 19.842 | 15.080 | 3.5 | 0.8 | 59.6 | 77.9 | 4,900 | 6,500 | LM603049—LM603014 | | 2.3 | 0.43 | 1.41 | 0.77 | 51.0 | 58.0 | 3.5 | 75.0 | 71.0 | 0.8 | 5.0 | 3.5 | 0.39 |
| **45.618** | 85.000 | 23.812 | 25.400 | 19.050 | 3.5 | 2.3 | 83.8 | 111 | 4,800 | 6,300 | 25590—25526 | | 6.4 | 0.33 | 1.79 | 0.99 | 51.0 | 58.0 | 3.5 | 78.0 | 74.0 | 2.3 | 5.5 | 4.5 | 0.57 |
| **45.987** | 74.976 | 18.000 | 18.000 | 14.000 | 2.3 | 1.5 | 52.6 | 75.4 | 5,000 | 6,600 | LM503349—LM503310 | | 2.0 | 0.40 | 1.49 | 0.82 | 51.0 | 55.0 | 2.3 | 71.0 | 67.0 | 1.5 | 5.0 | 3.5 | 0.30 |
| **46.038** | 79.375 | 17.462 | 17.462 | 13.495 | 2.8 | 1.5 | 48.2 | 61.3 | 4,800 | 6,400 | 18690—18620 | | 2.0 | 0.37 | 1.60 | 0.88 | 51.0 | 56.0 | 2.8 | 74.0 | 71.0 | 1.5 | 5.0 | 3.5 | 0.33 |
| | 85.000 | 20.638 | 21.692 | 17.462 | 3.5 | 1.3 | 75.8 | 89.2 | 4,800 | 6,200 | 359A—354A | | 4.8 | 0.31 | 1.96 | 1.08 | 51.0 | 57.0 | 3.5 | 80.0 | 77.0 | 1.3 | 5.0 | 5.0 | 0.48 |
| | 85.000 | 20.638 | 21.692 | 17.462 | 2.3 | 1.3 | 75.8 | 89.2 | 4,800 | 6,200 | 359S—354A | | 4.8 | 0.31 | 1.96 | 1.08 | 51.0 | 55.0 | 2.3 | 80.0 | 77.0 | 1.3 | 5.0 | 5.0 | 0.48 |
| | 85.000 | 25.400 | 25.608 | 20.638 | 3.5 | 1.3 | 86.4 | 117 | 4,800 | 6,100 | 2984—2924 | | 6.4 | 0.35 | 1.73 | 0.95 | 52.0 | 58.0 | 3.5 | 80.0 | 76.0 | 1.3 | 5.0 | 5.0 | 0.60 |
| **47.625** | 88.900 | 20.638 | 22.225 | 16.513 | 3.5 | 1.3 | 79.5 | 95.8 | 4,400 | 5,800 | 369A—362A | | 4.3 | 0.32 | 1.88 | 1.03 | 53.0 | 60.0 | 3.5 | 84.0 | 81.0 | 1.3 | 5.0 | 5.0 | 0.54 |
| | 88.900 | 25.400 | 25.400 | 19.050 | 3.5 | 3.3 | 91.3 | 116 | 4,400 | 5,900 | M804049—M804010 | | 1.8 | 0.55 | 1.10 | 0.6 | 56.0 | 63.0 | 3.5 | 85.0 | 77.0 | 3.3 | 6.5 | 4.5 | 0.65 |

# Tapered Roller Bearings

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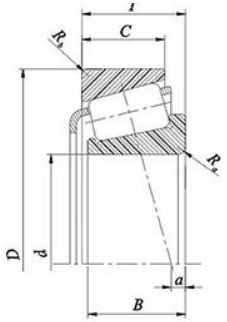


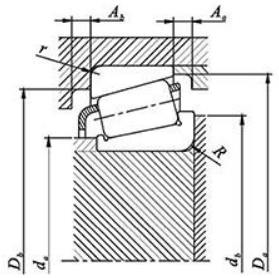


## *d* 47.625~50.800 mm

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | | Action point location mm | constant | Axial load factor | | Installation related dimensions (mm) | | | | | | | | | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | axis | | | Bearing pedestal | | | Cage | | |
| *d* | *D* | *T* | *B* | *C* | $R_a$ (Min) | $R_b$ | $C_r$ | $C_{0r}$ | Grease | Oil | inner--outer | | $a^{1)}$ | *e* | $Y_1$ | $Y_0$ | $d_a$ | $d_b$ | R (Max) | $D_a$ | $D_b$ | r (Max) | $A_a$ | $A_b$ | |
| **47.625** | 95.250 | 30.162 | 29.370 | 23.020 | 3.5 | 3.3 | 115 | 157 | 3,300 | 4,400 | HM804046—HM804810 | | 3.8 | 0.55 | 1.10 | 0.6 | 57.0 | 66.0 | 3.5 | 91.0 | 81.0 | 3.3 | 7.0 | 4.5 | | 0.96 |
| | 96.838 | 21.000 | 21.946 | 15.875 | 0.8 | 0.8 | 84.2 | 108 | 3,900 | 5,200 | 386A—382A | | 3.0 | 0.35 | 1.69 | 0.93 | 55.0 | 56.0 | 0.8 | 92.0 | 89.0 | 0.8 | 6.0 | 5.5 | | 0.72 |
| | 101.600 | 34.925 | 36.068 | 26.988 | 3.5 | 3.3 | 152 | 192 | 4,000 | 5,300 | 528—522 | | 12.7 | 0.29 | 2.10 | 1.16 | 55.0 | 62.0 | 3.5 | 95.0 | 89.0 | 3.3 | 8.0 | 5.5 | | 1.29 |
| | 104.775 | 30.162 | 29.317 | 24.605 | 4.8 | 3.3 | 126 | 166 | 3,700 | 4,900 | 463—453X | | 7.1 | 0.34 | 1.79 | 0.98 | 56.0 | 65.0 | 4.8 | 98.0 | 92.0 | 3.3 | 5.5 | 3.0 | | 1.21 |
| | 104.775 | 30.162 | 29.317 | 24.605 | 0.8 | 3.3 | 126 | 166 | 3,700 | 4,900 | 467—453X | | 7.1 | 0.34 | 1.79 | 0.98 | 56.0 | 57.0 | 0.8 | 98.0 | 92.0 | 3.3 | 5.5 | 3.0 | | 1.22 |
| | 104.775 | 30.162 | 30.958 | 23.812 | 3.5 | 3.3 | 142 | 189 | 3,700 | 4,900 | 45282—45220 | | 8.1 | 0.33 | 1.8 | 0.99 | 57.0 | 63.0 | 3.5 | 99.0 | 93.0 | 3.3 | 6.5 | 5.0 | | 1.26 |
| | 111.125 | 30.162 | 26.909 | 20.638 | 3.5 | 3.3 | 118 | 161 | 3,200 | 4,400 | 55187C—55437 | | -7.6 | 0.88 | 0.68 | 0.37 | 62.0 | 69.0 | 3.5 | 105.0 | 92.0 | 3.3 | 6.0 | 3.5 | | 1.39 |
| | 112.712 | 30.162 | 26.909 | 20.638 | 3.5 | 3.3 | 118 | 161 | 3,100 | 4,300 | 55187C—55443 | | -7.6 | 0.88 | 0.68 | 0.37 | 62.0 | 69.0 | 3.5 | 106.0 | 92.0 | 3.3 | 6.0 | 3.5 | | 1.47 |
| **48.412** | 95.250 | 30.162 | 29.370 | 23.020 | 2.3 | 3.3 | 115 | 157 | 3,300 | 4,400 | HM804848—HM804810 | | 3.8 | 0.55 | 1.10 | 0.6 | 57.0 | 63.0 | 2.3 | 91.0 | 81.0 | 3.3 | 7.0 | 4.5 | | 0.95 |
| | 95.250 | 30.162 | 29.370 | 23.020 | 3.5 | 3.3 | 115 | 157 | 3,300 | 4,400 | HM804849—HM804810 | | 3.8 | 0.55 | 1.10 | 0.6 | 57.0 | 63.0 | 3.5 | 91.0 | 83.0 | 3.3 | 7.0 | 4.5 | | 0.95 |
| **49.212** | 88.900 | 20.638 | 22.225 | 16.513 | 0.8 | 1.3 | 79.5 | 95.8 | 4,400 | 5,800 | 365S—362A | | 4.3 | 0.32 | 1.88 | 1.03 | 54.0 | 55.0 | 0.8 | 84.0 | 81.0 | 1.3 | 5.5 | 5.0 | | 0.53 |
| | 104.775 | 36.512 | 36.512 | 28.575 | 3.5 | 3.3 | 159 | 223 | 3,800 | 5,100 | HM807044—HM807010 | | 7.4 | 0.49 | 1.23 | 0.68 | 63.0 | 69.0 | 3.5 | 100.0 | 89.0 | 3.3 | 7.0 | 4.0 | | 1.52 |
| | 114.3 | 44.500 | 44.500 | 34.925 | 3.5 | 3.3 | 207 | 256 | 3,800 | 5,000 | 65390—65320 | | 12.4 | 0.43 | 1.39 | 0.77 | 60.0 | 70.0 | 3.5 | 107.0 | 97.0 | 3.3 | 9.0 | 4.0 | | 2.18 |
| | 114.3 | 44.500 | 44.500 | 36.068 | 3.5 | 3.3 | 228 | 290 | 3,700 | 5,000 | HH506348—HH506310 | | 13.5 | 0.40 | 1.49 | 0.82 | 61.0 | 71.0 | 3.5 | 107.0 | 97.0 | 3.3 | 9.5 | 6.0 | | 2.34 |
| **49.987** | 92.075 | 24.608 | 25.400 | 19.845 | 2.3 | 0.8 | 91.6 | 130 | 4,200 | 5,600 | 28579—28521 | | 4.8 | 0.38 | 1.59 | 0.87 | 56.0 | 60.0 | 2.3 | 87.0 | 83.0 | 0.8 | 5.0 | 3.5 | | 0.71 |
| **50.000** | 82.000 | 21.500 | 21.500 | 17.000 | 3.0 | 0.5 | 75.2 | 104 | 4,500 | 6,000 | JLM104948—JLM104910 | | 5.3 | 0.31 | 1.97 | 1.08 | 55.0 | 60.0 | 3.0 | 78.0 | 76.0 | 0.5 | 5.5 | 4.0 | | 0.41 |
| | 88.900 | 20.638 | 22.225 | 16.513 | 2.0 | 1.3 | 79.5 | 95.8 | 4,400 | 5,800 | 365—362A | | 4.3 | 0.32 | 1.88 | 1.03 | 55.0 | 58.0 | 2.0 | 84.0 | 81.0 | 1.3 | 5.5 | 5.0 | | 0.51 |
| | 88.900 | 20.638 | 22.225 | 16.513 | 2.3 | 1.3 | 79.5 | 95.8 | 4,400 | 5,800 | 366—362A | | 4.3 | 0.32 | 1.88 | 1.03 | 55.0 | 59.0 | 2.3 | 84.0 | 81.0 | 1.3 | 5.5 | 5.0 | | 0.51 |
| | 90.000 | 28.000 | 28.000 | 23.000 | 3.0 | 2.5 | 115 | 154 | 4,300 | 5,800 | JM205149—JM205110 | | 7.6 | 0.33 | 1.82 | 1.00 | 57.0 | 62.0 | 3.0 | 85.0 | 80.0 | 2.5 | 6.5 | 4.5 | | 0.74 |
| | 105.000 | 37.000 | 36.000 | 29.000 | 3.0 | 2.5 | 159 | 223 | 3,800 | 5,100 | JHM807045—JHM807012 | | 7.4 | 0.49 | 1.23 | 0.68 | 63.0 | 69.0 | 3.0 | 100.0 | 90.0 | 2.5 | 6.5 | 4.0 | | 1.52 |
| | 110.000 | 22.000 | 21.996 | 18.824 | 0.8 | 1.3 | 91.6 | 126 | 3,400 | 4,500 | 396—394A | | 0.8 | 0.40 | 1.49 | 0.82 | 60.0 | 61.0 | 0.8 | 104.0 | 101.0 | 1.3 | 4.0 | 4.5 | | 1.04 |
| **50.800** | 80.962 | 18.258 | 18.258 | 14.288 | 1.5 | 1.5 | 56.3 | 88.8 | 4,600 | 6,100 | L305649—L305610 | | 2.5 | 0.36 | 1.69 | 0.93 | 56.0 | 58.0 | 1.5 | 77.0 | 73.0 | 1.5 | 5.0 | 3..5 | | 0.34 |
| | 82.55 | 21.590 | 22.225 | 16.510 | 3.5 | 1.3 | 75.2 | 104 | 4,500 | 6,000 | LM104949—LM104911 | | 5.8 | 0.31 | 1.97 | 1.08 | 55.0 | 62.0 | 3.5 | 78.0 | 75.0 | 1.3 | 5.5 | 4.5 | | 0.42 |
| | 85.725 | 19.050 | 18.263 | 12.700 | 1.5 | 1.5 | 47.8 | 63.9 | 4,400 | 5,900 | 18200—18337 | | -1.9 | 0.57 | 1.06 | 0.58 | 56.0 | 59.0 | 1.5 | 81.0 | 76.0 | 1.5 | 5.0 | 3.0 | | 0.39 |
| | 88.900 | 17.462 | 17.462 | 13.495 | 3.5 | 1.3 | 50.6 | 67.5 | 4,400 | 5,900 | 18790—18724 | | 0.8 | 0.41 | 1.48 | 0.81 | 56.0 | 62.0 | 3.5 | 82.0 | 78.0 | 1.3 | 5.0 | 3.5 | | 0.42 |
| | 88.900 | 20.638 | 22.225 | 16.153 | 1.5 | 1.3 | 79.5 | 95.8 | 4,400 | 5,900 | 368—362A | | 4.3 | 0.32 | 1.88 | 1.03 | 56.0 | 58.0 | 1.5 | 84.0 | 81.0 | 1.3 | 5.5 | 5.0 | | 0.50 |
| | 88.900 | 20.638 | 22.225 | 16.153 | 3.5 | 1.3 | 79.5 | 95.8 | 4,400 | 5,800 | 368A—362A | | 4.3 | 0.32 | 1.88 | 1.03 | 56.0 | 62.0 | 3.5 | 84.0 | 81.0 | 1.3 | 5.5 | 5.0 | | 0.50 |

# Tapered Roller Bearings

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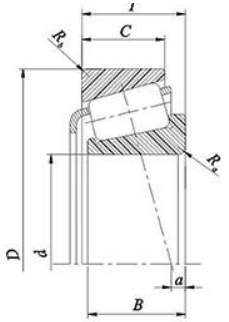


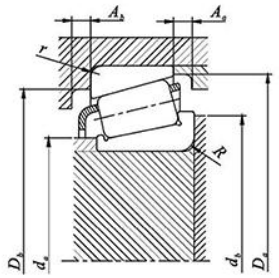


## d 50.800~53.975 mm

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | | Action point location mm | constant | Axial load factor | | Installation related dimensions (mm) | | | | | | | | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | axis | | | Bearing pedestal | | | Cage | | |
| d | D | T | B | C | $R_a$ (Min) | $R_b$ | $C_r$ | $C_{0r}$ | Grease | Oil | inner--outer | | $a^{1)}$ | e | $Y_1$ | $Y_0$ | $d_a$ | $d_b$ | R (Max) | $D_a$ | $D_b$ | r (Max) | $A_a$ | $A_b$ | |
| 50.800 | 88.900 | 20.638 | 22.225 | 16.513 | 5.0 | 1.3 | 79.5 | 95.8 | 4,400 | 5,800 | HM804046—HM804810 | | 4.3 | 0.32 | 1.88 | 1.03 | 56.0 | 65.0 | 5.0 | 84.0 | 81.0 | 1.3 | 5.5 | 5.0 | 0.49 |
| | 92.075 | 24.608 | 25.400 | 19.845 | 3.5 | 0.8 | 91.6 | 130 | 4,200 | 5,600 | 386A—382A | | 4.8 | 0.38 | 1.59 | 0.87 | 57.0 | 63.0 | 3.5 | 87.0 | 83.0 | 0.8 | 5.0 | 3.5 | 0.69 |
| | 93.264 | 20.638 | 22.225 | 15.083 | 2.3 | 1.3 | 81.4 | 101 | 4,200 | 5,600 | 528—522 | | 3.8 | 0.34 | 1.77 | 0.97 | 57.0 | 60.0 | 2.3 | 88.0 | 85.0 | 1.3 | 7.0 | 5.5 | 0.59 |
| | 93.264 | 30.162 | 30.302 | 23.812 | 3.5 | 3.3 | 113 | 153 | 4,200 | 5,500 | 463—453X | | 8.1 | 0.34 | 1.77 | 0.97 | 58.0 | 64.0 | 3.5 | 88.0 | 82.0 | 3.3 | 7.0 | 3.5 | 0.84 |
| | 93.264 | 30.162 | 30.302 | 23.812 | 3.5 | 0.8 | 113 | 153 | 4,200 | 5,500 | 467—453X | | 8.1 | 0.34 | 1.77 | 0.97 | 58.0 | 64.0 | 3.5 | 88.0 | 84.1 | 0.8 | 7.0 | 3.5 | 0.85 |
| | 95.250 | 27.783 | 28.575 | 22.225 | 3.5 | 2.3 | 120 | 161 | 4,100 | 5,400 | 45282—45220 | | 7.6 | 0.33 | 1.82 | 1.00 | 58.0 | 64.0 | 3.5 | 90.0 | 85.0 | 2.3 | 6.5 | 5.5 | 0.85 |
| | 96.838 | 21.000 | 21.946 | 15.875 | 2.3 | 0.8 | 84.2 | 108 | 3,900 | 5,200 | 55187C—55437 | | 3.0 | 0.35 | 1.69 | 0.93 | 60.0 | 61.0 | 2.3 | 92.0 | 89.0 | 0.8 | 6.0 | 5.5 | 0.67 |
| | 97.630 | 24.608 | 24.608 | 19.446 | 3.5 | 0.8 | 96.3 | 142 | 3,900 | 5,200 | 55187C—55443 | | 3.3 | 0.40 | 1.49 | 0.82 | 58.0 | 65.0 | 3.5 | 92.0 | 88.0 | 0.8 | 5.0 | 4.0 | 0.83 |
| | 98.425 | 30.162 | 30.302 | 23.812 | 3.5 | 3.3 | 113 | 153 | 4,200 | 5,500 | 55187C—55443 | | 8.1 | 0.34 | 1.77 | 0.97 | 58.0 | 64.0 | 3.5 | 90.0 | 84.0 | 3.3 | 7.0 | 3.5 | 0.98 |
| | 101.600 | 31.750 | 31.750 | 25.400 | 3.5 | 3.3 | 123 | 155 | 3,900 | 5,200 | HM804848—HM804810 | | 7.1 | 0.40 | 1.50 | 0.82 | 59.0 | 66.0 | 3.5 | 96.0 | 88.0 | 3.3 | 6.5 | 4.0 | 1.11 |
| | 101.600 | 34.925 | 36.068 | 26.998 | 0.8 | 3.3 | 152 | 192 | 4,000 | 5,300 | HM804849—HM804810 | | 12.7 | 0.29 | 2.10 | 1.16 | 58.0 | 59.0 | 0.8 | 95.0 | 89.0 | 3.3 | 8.0 | 5.5 | 1.23 |
| | 101.600 | 34.925 | 36.068 | 26.998 | 3.5 | 3.3 | 152 | 192 | 4,000 | 5,300 | 365S—362A | | 12.7 | 0.29 | 2.10 | 1.16 | 58.0 | 65.0 | 3.5 | 95.0 | 89.0 | 3.3 | 8.0 | 5.5 | 1.22 |
| | 104.775 | 30.162 | 30.958 | 23.812 | 6.4 | 3.3 | 142 | 189 | 3,700 | 4,900 | HM807044—HM807010 | | 8.1 | 0.33 | 1.80 | 0.99 | 59.0 | 71.0 | 6.4 | 99.0 | 93.0 | 3.3 | 6.5 | 5.0 | 1.19 |
| | 104.775 | 36.512 | 36.512 | 28.575 | 3.5 | 3.3 | 159 | 223 | 3,900 | 5,100 | 65390—65320 | | 7.4 | 0.49 | 1.23 | 0.68 | 63.0 | 70.0 | 3.5 | 100.0 | 89.0 | 3.3 | 7.0 | 4.0 | 1.49 |
| | 104.775 | 36.512 | 36.512 | 28.575 | 3.5 | 3.3 | 158 | 202 | 3,800 | 5,100 | HH506348—HH506310 | | 9.7 | 0.40 | 1.49 | 0.82 | 61.0 | 68.0 | 3.5 | 99.0 | 92.0 | 3.3 | 7.0 | 4.0 | 1.39 |
| | 104.775 | 39.688 | 40.157 | 33.338 | 3.5 | 3.3 | 167 | 237 | 3,800 | 5,100 | 28579—28521 | | 12.4 | 0.34 | 1.79 | 0.98 | 61.0 | 67.0 | 3.5 | 99.0 | 90.0 | 3.3 | 7.5 | 4.5 | 1.61 |
| 51.592 | 88.900 | 20.638 | 22.225 | 16.513 | 2.0 | 1.3 | 79.5 | 95.8 | 4,400 | 5,800 | JLM104948—JLM104910 | | 4.3 | 0.32 | 1.88 | 1.03 | 56.0 | 59.0 | 2.0 | 84.0 | 81.0 | 1.3 | 5.5 | 5.0 | 0.49 |
| 52.388 | 92.075 | 24.608 | 25.400 | 19.845 | 3.5 | 0.8 | 91.6 | 130 | 4,200 | 5,600 | 365—362A | | 4.8 | 0.38 | 1.59 | 0.87 | 58.0 | 65.0 | 3.5 | 87.0 | 83.0 | 0.8 | 5.0 | 3.5 | 0.66 |
| | 104.775 | 30.162 | 29.317 | 24.605 | 1.5 | 3.3 | 126 | 166 | 3,700 | 4,900 | 366—362A | | 7.1 | 0.34 | 1.79 | 0.98 | 60.0 | 62.0 | 1.5 | 98.0 | 92.0 | 3.3 | 5.5 | 3.0 | 1.12 |
| 53.975 | 88.900 | 19.050 | 19.050 | 13.492 | 2.3 | 2.0 | 60.6 | 81.8 | 4,200 | 5,600 | JM205149—JM205110 | | -2.3 | 0.55 | 1.10 | 0.68 | 60.0 | 63.0 | 2.3 | 85.0 | 80.0 | 2.0 | 5.5 | 4.0 | 0.42 |
| | 95.250 | 27.783 | 28.575 | 22.225 | 1.5 | 0.8 | 120 | 161 | 4,100 | 5,400 | JHM807045—JHM807012 | | 7.6 | 0.33 | 1.82 | 1.00 | 60.0 | 63.0 | 1.5 | 90.0 | 86.0 | 0.8 | 6.5 | 5.5 | 0.79 |
| | 104.775 | 30.162 | 29.317 | 24.605 | 3.5 | 3.3 | 126 | 166 | 3,700 | 4,900 | 396—394A | | 7.1 | 0.34 | 1.79 | 0.98 | 61.0 | 68.0 | 3.5 | 98.0 | 92.0 | 3.3 | 5.5 | 3.0 | 1.1 |
| | 104.775 | 36.512 | 36.512 | 28.575 | 3.5 | 3.3 | 159 | 223 | 3,800 | 5,100 | L305649—L305610 | | 7.4 | 0.49 | 1.23 | 0.68 | 63.0 | 73.0 | 3.5 | 100.0 | 89.0 | 3.3 | 7.0 | 4.0 | 1.41 |
| | 104.775 | 39.688 | 40.157 | 33.338 | 3.5 | 3.3 | 167 | 237 | 3,800 | 5,100 | LM104949—LM104911 | | 12.3 | 0.34 | 1.79 | 0.98 | 63.0 | 70.0 | 3.5 | 99.0 | 90.0 | 3.3 | 7.5 | 4.5 | 1.54 |
| | 107.950 | 36.512 | 36.957 | 28.575 | 3.5 | 3.3 | 159 | 206 | 3,800 | 5,100 | 18200—18337 | | 12.2 | 0.30 | 2.02 | 1.11 | 61.0 | 68.0 | 3.5 | 100.0 | 94.0 | 3.3 | 8.0 | 4.0 | 1.44 |
| | 107.950 | 36.512 | 36.957 | 28.575 | 5.5 | 3.3 | 159 | 161 | 3,800 | 5,100 | 18790—18724 | | 12.2 | 0.30 | 2.02 | 1.11 | 61.0 | 72.0 | 5.5 | 100.0 | 94.0 | 3.3 | 8.0 | 4.0 | 1.43 |
| | 117.475 | 33.338 | 31.750 | 23.812 | 3.5 | 3.3 | 138 | 166 | 3,500 | 4,600 | 368—362A | | 0.3 | 0.63 | 0.96 | 0.53 | 67.0 | 73.0 | 3.5 | 110.0 | 100.0 | 3.3 | 7.0 | 3.0 | 1.58 |
| | 120.650 | 41.275 | 41.275 | 31.750 | 3.5 | 3.3 | 192 | 244 | 3,500 | 4,600 | 368A—362A | | 14.0 | 0.31 | 1.91 | 1.05 | 63.0 | 70.0 | 3.5 | 110.0 | 105.0 | 3.3 | 8.5 | 5.0 | 2.18 |

# Tapered Roller Bearings

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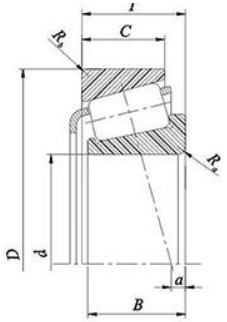


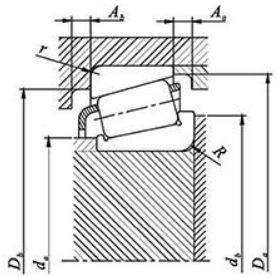


*d* **53.975~57.150 mm**

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | | Action point location mm | constant | Axial load factor | | Installation related dimensions (mm) | | | | | | | | | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | $R_a$ | $R_b$ | | | | | | | | | | | axis | | | Bearing pedestal | | | Cage | | | |
| $d$ | $D$ | $T$ | $B$ | $C$ | (Min) | | $C_r$ | $C_{or}$ | Grease | Oil | inner--outer | | $a$ [1] | $e$ | $Y_1$ | $Y_0$ | $d_a$ | $d_b$ | $R$ (Max) | $D_a$ | $D_b$ | $r$ (Max) | $A_a$ | $A_b$ | |
| 53.975 | 122.238 | 33.338 | 31.750 | 23.812 | 3.5 | 3.3 | 143 | 178 | 3,300 | 4,300 | 66584—66520 | | -2.0 | 0.67 | 0.90 | 0.5 | 68.0 | 75.0 | 3.5 | 116.0 | 105.0 | 3.3 | 7.0 | 3.0 | | 1.78 |
| | 122.238 | 43.658 | 43.764 | 36.512 | 3.5 | 3.3 | 219 | 327 | 3,200 | 4,300 | 5578—5535 | | 12.2 | 0.36 | 1.67 | 0.92 | 67.0 | 73.0 | 3.5 | 116.0 | 106.0 | 3.3 | 7.5 | 4.0 | | 2.59 |
| | 123.825 | 36.512 | 32.791 | 25.400 | 3.5 | 3.3 | 167 | 208 | 2,900 | 4,000 | 72212C—72487 | | -2.0 | 0.74 | 0.81 | 0.45 | 67.0 | 79.0 | 3.5 | 116.0 | 102.0 | 3.3 | 8.0 | 3.5 | | 2.12 |
| | 123.825 | 38.100 | 36.678 | 30.162 | 3.5 | 3.3 | 177 | 248 | 3,200 | 4,200 | 567S—552A | | 9.4 | 0.35 | 1.73 | 0.95 | 65.0 | 71.0 | 3.5 | 116.0 | 109.0 | 3.3 | 7.5 | 2.5 | | 2.22 |
| | 127.000 | 44.450 | 44.450 | 34.925 | 3.5 | 3.3 | 225 | 297 | 3,300 | 4,400 | 65212—65500 | | 9.4 | 0.49 | 1.23 | 0.68 | 71.0 | 77.0 | 3.5 | 119.0 | 107.0 | 3.3 | 8.5 | 4.0 | | 2.86 |
| | 130.175 | 36.512 | 33.338 | 23.812 | 3.5 | 3.3 | 154 | 183 | 2,600 | 3,700 | HM911242—HM911210 | | -5.3 | 0.82 | 0.73 | 0.40 | 74.0 | 79.0 | 3.5 | 123.6 | 109.0 | 3.3 | 8.5 | 4.0 | | 2.22 |
| 54.988 | 104.775 | 30.162 | 29.317 | 24.605 | 2.3 | 3.3 | 126 | 166 | 3,700 | 4,900 | 466—453X | | 7.1 | 0.34 | 1.79 | 0.98 | 62.0 | 66.0 | 2.3 | 98.0 | 92.0 | 3.3 | 5.5 | 3.0 | | 1.08 |
| 54.991 | 135.755 | 53.975 | 56.007 | 44.450 | 3.5 | 3.3 | 298 | 404 | 3,000 | 4,000 | 6381—6320 | | 19.3 | 0.32 | 1.85 | 1.02 | 70.0 | 76.0 | 3.5 | 126.0 | 117.0 | 3.3 | 9.0 | 6.0 | | 4.03 |
| 55.000 | 90.000 | 23.000 | 23.000 | 18.500 | 1.5 | 0.5 | 85.0 | 123 | 4,200 | 5,500 | JLM506849—JLM506810 | | 2.8 | 0.40 | 1.49 | 0.82 | 61.0 | 63.0 | 1.5 | 86.0 | 82.0 | 0.5 | 5.0 | 3.5 | | 0.55 |
| | 95.000 | 29.000 | 29.000 | 23.500 | 1.5 | 2.5 | 121 | 168 | 4,000 | 5,300 | JM207049—JM207010 | | 7.6 | 0.33 | 1.79 | 0.98 | 62.0 | 64.0 | 1.5 | 91.0 | 85.0 | 2.5 | 6.5 | 4.5 | | 0.84 |
| | 96.838 | 21.000 | 21.946 | 15.875 | 2.3 | 0.8 | 84.2 | 108 | 3,900 | 5,200 | 385—382A | | 3.0 | 0.35 | 1.69 | 0.93 | 61.0 | 65.0 | 2.3 | 92.0 | 89.0 | 0.8 | 6.0 | 5.5 | | 0.61 |
| | 96.838 | 21.000 | 21.946 | 15.875 | 3.5 | 0.8 | 84.2 | 108 | 3,900 | 5,200 | 385X—382A | | 3.0 | 0.35 | 1.69 | 0.93 | 61.0 | 67.0 | 3.5 | 92.0 | 89.0 | 0.8 | 6.0 | 5.5 | | 0.61 |
| | 110.000 | 39.000 | 39.000 | 32.000 | 3.0 | 2.5 | 194 | 251 | 3,600 | 4,900 | JH307749—JH307710 | | 11.7 | 0.35 | 1.73 | 0.95 | 64.0 | 71.0 | 3.0 | 104.0 | 97.0 | 2.5 | 9.0 | 6.0 | | 1.69 |
| 55.562 | 97.630 | 24.608 | 24.608 | 19.446 | 3.5 | 0.8 | 96.3 | 142 | 3,900 | 5,200 | 28680—28622 | | 3.4 | 0.40 | 1.49 | 0.82 | 62.0 | 68.0 | 3.5 | 92.0 | 88.0 | 0.8 | 5.0 | 4.0 | | 0.75 |
| | 127.000 | 36.512 | 36.512 | 26.988 | 3.5 | 3.3 | 179 | 256 | 3,000 | 4,000 | HM813840—HM813810 | | 3.8 | 0.50 | 1.20 | 0.68 | 70.0 | 76.0 | 3.5 | 121.0 | 111.0 | 3.3 | 8.0 | 4.0 | | 2.73 |
| 55.575 | 96.838 | 21.000 | 21.946 | 15.875 | 2.3 | 0.8 | 84.2 | 108 | 3,900 | 5,200 | 389—382A | | 3.0 | 0.35 | 1.69 | 0.93 | 61.0 | 65.0 | 2.3 | 92.0 | 89.0 | 0.8 | 6.0 | 5.5 | | 0.60 |
| 57.150 | 96.838 | 21.000 | 21.946 | 15.875 | 2.3 | 0.8 | 84.2 | 108 | 3,900 | 5,200 | 387—382A | | 3.0 | 0.35 | 1.69 | 0.93 | 62.0 | 66.0 | 2.3 | 92.0 | 89.0 | 0.8 | 6.0 | 5.5 | | 0.58 |
| | 96.838 | 21.000 | 21.946 | 15.875 | 3.5 | 0.8 | 84.2 | 108 | 3,900 | 5,200 | 387A—382A | | 3.0 | 0.35 | 1.69 | 0.93 | 62.0 | 69.0 | 3.5 | 92.0 | 89.0 | 0.8 | 6.0 | 5.5 | | 0.57 |
| | 96.838 | 21.000 | 21.946 | 15.875 | 5.0 | 0.8 | 84.2 | 108 | 3,900 | 5,200 | 387AS—382A | | 3.0 | 0.35 | 1.69 | 0.93 | 62.0 | 72.0 | 5.0 | 92.0 | 89.0 | 0.8 | 6.0 | 5.5 | | 0.56 |
| | 96.838 | 21.000 | 21.946 | 15.875 | 0.8 | 0.8 | 84.2 | 108 | 3,900 | 5,200 | 387S—382A | | 3.0 | 0.35 | 1.69 | 0.93 | 62.0 | 63.0 | 0.8 | 92.0 | 89.0 | 0.8 | 6.0 | 5.5 | | 0.58 |
| | 98.425 | 21.000 | 21.946 | 17.826 | 3.5 | 0.8 | 84.2 | 108 | 3,900 | 5,200 | 387A—382 | | 3.0 | 0.35 | 1.69 | 0.93 | 62.0 | 69.0 | 3.5 | 92.0 | 90.0 | 0.8 | 4.0 | 4.5 | | 0.62 |
| | 104.775 | 30.162 | 29.317 | 24.605 | 2.3 | 3.3 | 126 | 166 | 3,700 | 4,900 | 462—453X | | 7.1 | 0.34 | 1.79 | 0.98 | 63.0 | 67.0 | 2.3 | 98.0 | 92.0 | 3.3 | 5.5 | 3.0 | | 1.04 |
| | 104.775 | 30.162 | 29.317 | 24.605 | 3.5 | 3.3 | 126 | 166 | 3,700 | 4,900 | 469—453X | | 7.1 | 0.34 | 1.79 | 0.98 | 63.0 | 70.0 | 3.5 | 98.0 | 92.0 | 3.3 | 5.5 | 3.0 | | 1.03 |
| | 104.775 | 30.162 | 30.958 | 23.812 | 6.4 | 0.8 | 142 | 189 | 3,700 | 4,900 | 45291—45221 | | 8.1 | 0.33 | 1.80 | 0.99 | 65.0 | 76.0 | 6.4 | 99.0 | 95.0 | 0.8 | 6.5 | 5.0 | | 1.06 |
| | 112.712 | 30.162 | 30.048 | 23.812 | 3.5 | 3.3 | 129 | 191 | 3,400 | 4,500 | 3879—3920 | | 4.6 | 0.40 | 1.49 | 0.82 | 66.0 | 72.0 | 3.5 | 106.0 | 99.0 | 3.3 | 6.5 | 3.5 | | 1.36 |
| | 112.712 | 30.162 | 30.162 | 23.812 | 3.5 | 3.3 | 155 | 224 | 3,300 | 4,500 | 39580—39520 | | 6.6 | 0.34 | 1.77 | 0.97 | 66.0 | 72.0 | 3.5 | 107.0 | 101.0 | 3.3 | 7.0 | 5.0 | | 1.37 |

# Tapered Roller Bearings

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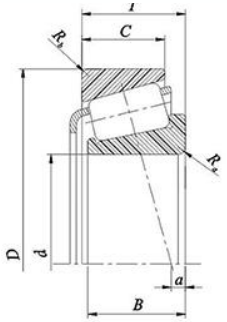


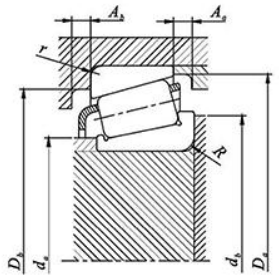


## *d* 57.150~63.500 mm

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | | Action point location mm | constant | Axial load factor | | Installation related dimensions (mm) | | | | | | | | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | $R_a$ | $R_b$ | | | | | | | | | | | axis | | | Bearing pedestal | | | Cage | | |
| *d* | *D* | *T* | *B* | *C* | (Min) | | $C_r$ | $C_{0r}$ | Grease | Oil | inner--outer | | $a^{1)}$ | *e* | $Y_1$ | $Y_0$ | $d_a$ | $d_b$ | R (Max) | $D_a$ | $D_b$ | r (Max) | $A_a$ | $A_b$ | |
| **57.150** | 112.712 | 30.162 | 30.162 | 23.812 | 8.0 | 3.3 | 155 | 224 | 3,300 | 4,500 | 39581—39520 | | 6.6 | 0.34 | 1.77 | 0.97 | 66.0 | 81.0 | 8.0 | 107.0 | 101.0 | 3.3 | 7.0 | 5.0 | 1.33 |
| | 117.475 | 30.162 | 30.162 | 23.812 | 3.5 | 3.3 | 128 | 197 | 3,200 | 4,200 | 33225—33462 | | 2.8 | 0.44 | 1.38 | 0.76 | 68.0 | 74.0 | 3.5 | 112.0 | 104.0 | 3.3 | 6.5 | 3.5 | 1.53 |
| | 120.650 | 41.275 | 41.275 | 31.750 | 3.5 | 3.3 | 192 | 244 | 3,500 | 4,600 | 623—612 | | 14.0 | 0.31 | 1.91 | 1.05 | 66.0 | 72.0 | 3.5 | 110.0 | 105.0 | 3.3 | 8.5 | 5.0 | 2.09 |
| | 123.825 | 36.512 | 32.791 | 25.400 | 3.5 | 3.3 | 167 | 208 | 2,900 | 4,000 | 72225C—72487 | | -2.0 | 0.74 | 0.81 | 0.45 | 67.0 | 81.0 | 3.5 | 116.0 | 102.0 | 3.3 | 8.0 | 3.5 | 2.05 |
| | 127.000 | 44.450 | 44.450 | 34.925 | 3.5 | 3.3 | 225 | 297 | 3,300 | 4,400 | 65225—65500 | | 9.4 | 0.49 | 1.23 | 0.68 | 71.0 | 80.0 | 3.5 | 119.0 | 107.0 | 3.3 | 8.5 | 4.0 | 2.68 |
| | 140.030 | 36.512 | 33.236 | 23.520 | 3.5 | 2.3 | 158 | 193 | 2,500 | 3,500 | 78225—78551 | | -7.9 | 0.87 | 0.69 | 0.38 | 77.0 | 83.0 | 3.5 | 132.0 | 117.0 | 2.3 | 9.0 | 4.0 | 2.56 |
| **57.531** | 96.838 | 21.000 | 21.946 | 15.875 | 3.5 | 0.8 | 84.2 | 108 | 3,900 | 5,200 | 388A—382A | | 3.0 | 0.35 | 1.69 | 0.93 | 63.0 | 69.0 | 3.5 | 92.0 | 89.0 | 0.8 | 6.0 | 5.5 | 0.57 |
| **59.972** | 122.238 | 33.338 | 31.750 | 23.812 | 0.8 | 3.3 | 143 | 178 | 3,300 | 4,300 | 66589—66520 | | -2.0 | 0.67 | 0.90 | 0.50 | 73.0 | 74.0 | 0.8 | 116.0 | 105.0 | 3.3 | 7.0 | 3.0 | 1.65 |
| **60.000** | 95.000 | 24.000 | 24.000 | 19.000 | 5.0 | 2.5 | 90.4 | 135 | 3,900 | 5,200 | JLM508748—JLM508710 | | 2.8 | 0.40 | 1.49 | 0.82 | 66.0 | 75.0 | 5.0 | 91.0 | 85.0 | 2.5 | 5.5 | 3.5 | 0.63 |
| | 107.950 | 25.400 | 25.400 | 19.050 | 3.5 | 3.3 | 102 | 158 | 3,300 | 4,400 | 29580—29520 | | 0.8 | 0.46 | 1.31 | 0.72 | 68.0 | 75.0 | 3.5 | 103.0 | 96.0 | 3.3 | 6.0 | 3.0 | 0.84 |
| | 110.000 | 22.000 | 21.996 | 18.824 | 0.8 | 1.3 | 91.6 | 126 | 2,500 | 3,500 | 397—394A | | 0.8 | 0.4 | 1.49 | 0.82 | 68.0 | 69.0 | 0.8 | 104.0 | 101.0 | 1.3 | 4.0 | 4.5 | 0.89 |
| **60.325** | 100.000 | 25.400 | 25.400 | 19.845 | 3.5 | 3.3 | 98.2 | 149 | 3,700 | 4,900 | 28985—28921 | | 2.5 | 0.43 | 1.41 | 0.78 | 67.0 | 73.0 | 3.5 | 96.00 | 89.00 | 3.3 | 5.5 | 3.0 | 0.75 |
| | 101.600 | 25.400 | 25.400 | 19.845 | 3.5 | 3.3 | 98.2 | 149 | 3,700 | 4,900 | 28985—28920 | | 2.5 | 0.43 | 1.41 | 0.78 | 67.0 | 73.0 | 3.5 | 97.00 | 90.00 | 3.3 | 5.5 | 3.0 | 0.79 |
| | 122.238 | 43.658 | 43.764 | 36.512 | 3.5 | 3.3 | 219 | 327 | 3,200 | 4,300 | 5583—5535 | | 12.2 | 0.36 | 1.67 | 0.92 | 72.0 | 78.0 | 3.5 | 116.0 | 106.0 | 3.3 | 7.5 | 4.0 | 2.40 |
| | 127.000 | 36.512 | 36.512 | 26.988 | 3.5 | 3.3 | 179 | 256 | 3,000 | 4,000 | HM813841—HM813810 | | 3.8 | 0.50 | 1.20 | 0.66 | 73.0 | 80.0 | 3.5 | 121.0 | 111.0 | 3.3 | 8.0 | 4.0 | 2.61 |
| | 127.000 | 36.512 | 36.512 | 26.988 | 1.5 | 3.3 | 179 | 256 | 3,000 | 4,000 | HM813841A—HM813810 | | 3.8 | 0.50 | 1.20 | 0.66 | 73.0 | 76.0 | 1.5 | 121.0 | 111.0 | 3.3 | 8.0 | 4.0 | 2.61 |
| | 127.000 | 44.450 | 44.450 | 34.925 | 3.5 | 3.3 | 225 | 297 | 3,300 | 4,400 | 65237—65500 | | 9.4 | 0.49 | 1.23 | 0.68 | 71.0 | 82.0 | 3.5 | 119.0 | 107.0 | 3.3 | 8.5 | 4.0 | 2.66 |
| | 127.000 | 44.450 | 44.450 | 34.925 | 1.5 | 3.3 | 225 | 297 | 3,300 | 4,400 | 65237A—65500 | | 9.4 | 0.49 | 1.23 | 0.68 | 71.0 | 78.0 | 1.5 | 119.0 | 107.0 | 3.3 | 8.5 | 4.0 | 2.59 |
| | 130.175 | 36.512 | 33.338 | 23.812 | 5.0 | 3.3 | 154 | 183 | 2,600 | 3,700 | HM911245—HM911210 | | -5.3 | 0.82 | 0.73 | 0.40 | 74.0 | 87.0 | 5.0 | 124.0 | 109.0 | 3.3 | 8.5 | 4.0 | 2.06 |
| | 136.525 | 46.038 | 46.038 | 36.512 | 3.5 | 3.3 | 249 | 405 | 2,800 | 3,700 | H715332—H715311 | | 8.6 | 0.47 | 1.27 | 0.70 | 78.0 | 84.0 | 3.5 | 132.0 | 118.0 | 3.3 | 8.0 | 4.5 | 3.55 |
| **61.912** | 110.000 | 22.000 | 21.996 | 18.824 | 0.8 | 1.3 | 91.6 | 126 | 3,400 | 4,500 | 392—394A | | 0.8 | 0.40 | 1.49 | 0.82 | 69.0 | 70.0 | 0.8 | 104.5 | 101.0 | 1.3 | 4.0 | 4.5 | 0.86 |
| | 130.175 | 36.512 | 33.338 | 23.812 | 3.5 | 3.3 | 154 | 183 | 2,600 | 3,700 | HM911249—HM911210 | | -5.3 | 0.82 | 0.73 | 0.40 | 74.0 | 85.0 | 3.5 | 123.6 | 109.0 | 3.3 | 8.5 | 4.0 | 2.03 |
| | 146.050 | 41.275 | 39.688 | 25.400 | 3.5 | 3.3 | 213 | 256 | 2,300 | 3,300 | H913842—H913810 | | -4.3 | 0.78 | 0.77 | 0.42 | 82.0 | 90.0 | 3.5 | 138.0 | 124.0 | 3.3 | 11.0 | 5.5 | 3.11 |
| **63.500** | 107.950 | 25.400 | 25.400 | 19.050 | 1.5 | 3.3 | 102 | 158 | 3,400 | 4,500 | 29586—29520 | | 0.8 | 0.46 | 1.31 | 0.72 | 71.0 | 73.0 | 1.5 | 103.0 | 96.0 | 3.3 | 6.0 | 3.0 | 0.92 |
| | 110.000 | 22.000 | 21.996 | 18.824 | 1.5 | 1.3 | 91.6 | 126 | 3,400 | 4,500 | 350A—394A | | 0.8 | 0.40 | 1.49 | 0.82 | 70.0 | 73.0 | 1.5 | 104.0 | 101.0 | 1.3 | 4.0 | 4.5 | 0.83 |
| | 110.000 | 22.000 | 21.996 | 18.824 | 3.5 | 1.3 | 91.6 | 126 | 3,400 | 4,500 | 395—394A | | 0.8 | 0.40 | 1.49 | 0.82 | 70.0 | 77.0 | 3.5 | 104.0 | 101.0 | 1.3 | 4.0 | 4.5 | 0.82 |
| | 110.000 | 25.400 | 25.400 | 19.050 | 3.5 | 1.3 | 102 | 158 | 3,400 | 4,500 | 29585—29521 | | 0.8 | 0.46 | 1.31 | 0.72 | 71.0 | 77.0 | 3.5 | 104.0 | 99.0 | 1.3 | 6.0 | 3.0 | 0.98 |

# Tapered Roller Bearings

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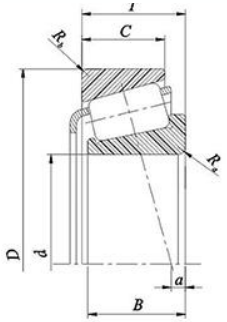


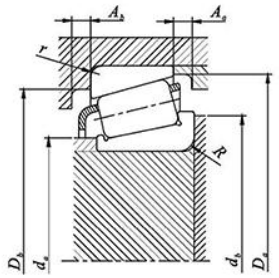


## $d$ 63.500~66.675 mm

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | | Action point location mm | constant | Axial load factor | | Installation related dimensions (mm) | | | | | | | | | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | $R_a$ | $R_b$ | | | | | | | | | | | axis | | | Bearing pedestal | | | Cage | | | |
| $d$ | $D$ | $T$ | $B$ | $C$ | (Min) | | $C_r$ | $C_{0r}$ | Grease | Oil | inner | outer | $a$ [1] | $e$ | $Y_1$ | $Y_0$ | $d_a$ | $d_b$ | $R$ (Max) | $D_a$ | $D_b$ | $r$ (Max) | $A_a$ | $A_b$ | |
| **63.500** | 112.712 | 30.162 | 30.162 | 23.812 | 3.5 | 3.3 | 155 | 224 | 3,300 | 4,500 | 39585 | 39520 | 0.8 | 0.46 | 1.31 | 0.97 | 71.0 | 77.0 | 3.5 | 107.0 | 101.0 | 3.3 | 7.0 | 5.0 | 1.22 |
| | 120.000 | 29.794 | 29.007 | 24.237 | 0.8 | 2.0 | 133 | 186 | 3,200 | 4,200 | 477 | 472 | 4.1 | 0.38 | 1.56 | 0.86 | 72.0 | 73.0 | 0.8 | 114.0 | 107.0 | 2.0 | 6.5 | 4.0 | 1.46 |
| | 122.238 | 38.100 | 38.354 | 29.718 | 3.5 | 3.3 | 209 | 279 | 3,200 | 4,300 | HM212046 | HM211011 | 10.9 | 0.34 | 1.78 | 0.98 | 73.0 | 80.0 | 3.5 | 116.0 | 108.0 | 3.3 | 9.0 | 6.5 | 1.94 |
| | 122.238 | 43.658 | 43.764 | 36.512 | 3.5 | 3.3 | 219 | 327 | 3,200 | 4,300 | 5584 | 5535 | 12.2 | 0.36 | 1.67 | 0.92 | 75.0 | 81.0 | 3.5 | 116.0 | 106.0 | 3.3 | 7.5 | 4.0 | 2.29 |
| | 127.000 | 36.512 | 36.170 | 28.575 | 3.5 | 3.3 | 182 | 263 | 3,000 | 4,000 | 565 | 563 | 8.1 | 0.36 | 1.65 | 0.91 | 73.0 | 80.0 | 3.5 | 120.0 | 112.0 | 3.3 | 7.5 | 4.0 | 2.08 |
| | 135.775 | 53.975 | 56.007 | 44.450 | 4.3 | 3.3 | 298 | 404 | 3,000 | 4,000 | 6382 | 6320 | 19.3 | 0.32 | 1.85 | 1.02 | 77.0 | 84.0 | 4.3 | 126.0 | 117.0 | 3.3 | 9.0 | 6.0 | 3.68 |
| | 136.525 | 36.512 | 33.236 | 23.520 | 2.3 | 3.3 | 158 | 193 | 2,500 | 3,500 | 78250 | 78537 | -7.9 | 0.87 | 0.69 | 0.38 | 79.0 | 85.0 | 2.3 | 130.0 | 115.0 | 3.3 | 9.0 | 4.0 | 2.26 |
| | 136.525 | 41.275 | 41.275 | 31.750 | 3.5 | 3.3 | 252 | 335 | 2,900 | 3,800 | H414235 | H414210 | 10.9 | 0.36 | 1.67 | 0.92 | 78.0 | 82.0 | 3.5 | 129.0 | 121.0 | 3.3 | 9.0 | 6.0 | 2.91 |
| **64.986** | 112.712 | 30.162 | 30.924 | 23.812 | 2.3 | 3.3 | 155 | 224 | 3,300 | 4,500 | 39586 | 39520 | 6.6 | 0.34 | 1.77 | 0.97 | 72.0 | 76.0 | 2.3 | 107.0 | 101.0 | 3.3 | 7.0 | 5.0 | 1.20 |
| **65.000** | 105.000 | 24.000 | 23.000 | 18.500 | 3.0 | 1.0 | 100 | 139 | 3,500 | 4,700 | JLM710949 | JLM710910 | 0.3 | 0.45 | 1.32 | 0.73 | 71.0 | 77.0 | 3.0 | 101.0 | 96.0 | 1.0 | 6.5 | 4.0 | 0.72 |
| | 110.000 | 28.000 | 28.000 | 22.500 | 3.0 | 2.5 | 131 | 195 | 3,400 | 4,600 | JM511946 | JM511910 | 3.3 | 0.40 | 1.49 | 0.82 | 72.0 | 78.0 | 3.0 | 105.0 | 99.0 | 2.5 | 6.5 | 4.5 | 1.05 |
| | 120.000 | 39.000 | 38.500 | 32.000 | 3.0 | 2.5 | 207 | 283 | 3,200 | 4,300 | JH211749 | JH211710 | 10.7 | 0.34 | 1.78 | 0.98 | 74.0 | 80.0 | 3.0 | 114.0 | 107.0 | 2.5 | 9.0 | 6.0 | 1.86 |
| | 120.000 | 39.000 | 38.500 | 32.000 | 7.0 | 2.5 | 207 | 283 | 3,200 | 4,300 | JH211749A | JH211710 | 10.7 | 0.34 | 1.78 | 0.98 | 74.0 | 88.0 | 7.0 | 114.0 | 107.0 | 2.5 | 9.0 | 6.0 | 1.83 |
| **65.088** | 135.755 | 53.975 | 56.007 | 44.450 | 3.5 | 3.3 | 298 | 404 | 3,000 | 4,000 | 6379 | 6320 | 19.3 | 0.32 | 1.85 | 1.02 | 77.0 | 84.0 | 3.5 | 126.0 | 117.0 | 3.3 | 9.0 | 6.0 | 3.61 |
| | 136.525 | 46.038 | 46.038 | 36.512 | 3.5 | 3.3 | 249 | 405 | 2,800 | 3,700 | H715340 | H7154311 | 8.6 | 0.47 | 1.27 | 0.70 | 82.0 | 88.0 | 3.5 | 132.0 | 118.0 | 3.3 | 8.0 | 4.5 | 3.38 |
| **65.883** | 122.238 | 43.658 | 43.764 | 36.512 | 3.5 | 3.3 | 219 | 327 | 3,200 | 4,300 | 5595 | 5535 | 12.2 | 0.36 | 1.67 | 0.92 | 77.0 | 83.0 | 3.5 | 116.0 | 106.0 | 3.3 | 7.5 | 4.0 | 2.21 |
| **66.675** | 110.000 | 22.000 | 21.996 | 18.824 | 0.8 | 1.3 | 91.6 | 126 | 3,400 | 4,500 | 395A | 394A | 0.8 | 0.40 | 1.49 | 0.82 | 73.0 | 73.0 | 0.8 | 104.0 | 101.0 | 1.3 | 4.0 | 4.5 | 1.06 |
| | 110.000 | 22.000 | 21.996 | 18.824 | 3.5 | 1.3 | 91.6 | 126 | 3,400 | 4,500 | 395S | 394A | 0.8 | 0.40 | 1.49 | 0.82 | 73.0 | 79.0 | 3.5 | 104.0 | 101.0 | 1.3 | 4.0 | 4.5 | 0.78 |
| | 112.712 | 30.162 | 30.048 | 23.812 | 3.5 | 0.8 | 129 | 191 | 3,400 | 4,500 | 3984 | 3925 | 4.6 | 0.40 | 1.49 | 0.82 | 74.0 | 80.0 | 3.5 | 106.0 | 101.0 | 0.8 | 6.5 | 3.5 | 1.14 |
| | 112.712 | 30.162 | 30.162 | 23.812 | 3.5 | 3.3 | 155 | 224 | 3,300 | 4,500 | 39590 | 39520 | 6.6 | 0.34 | 1.77 | 0.97 | 74.0 | 80.0 | 3.5 | 107.0 | 101.0 | 3.3 | 7.0 | 5.0 | 1.13 |
| | 112.712 | 30.162 | 30.162 | 23.812 | 3.5 | 0.8 | 155 | 224 | 3,300 | 4,500 | 39590 | 39521 | 6.6 | 0.34 | 1.77 | 0.97 | 74.0 | 80.0 | 3.5 | 107.0 | 103.0 | 0.8 | 7.0 | 5.0 | 1.15 |
| | 122.238 | 38.100 | 38.354 | 29.718 | 3.5 | 1.5 | 209 | 279 | 3,200 | 4,300 | HM212049 | HM212010 | 10.9 | 0.34 | 1.78 | 0.98 | 75.0 | 82.0 | 3.5 | 116.0 | 110.0 | 1.5 | 9.0 | 6.5 | 1.85 |
| | 127.000 | 36.512 | 36.512 | 26.988 | 3.5 | 1.5 | 179 | 256 | 3,000 | 4,000 | HM813844 | HM813811 | 3.8 | 0.50 | 1.20 | 0.66 | 78.0 | 85.0 | 3.5 | 121.0 | 113.0 | 1.5 | 8.0 | 4.0 | 1.99 |
| | 130.175 | 41.275 | 41.275 | 31.750 | 3.5 | 3.3 | 216 | 298 | 3,000 | 3,900 | 641 | 633 | 11.2 | 0.36 | 1.66 | 0.91 | 77.0 | 83.0 | 3.5 | 124.0 | 116.0 | 3.3 | 8.5 | 5.0 | 2.38 |
| | 135.755 | 53.975 | 56.007 | 44.450 | 4.3 | 3.3 | 298 | 404 | 3,000 | 4,000 | 6386 | 6320 | 19.3 | 0.32 | 1.85 | 1.02 | 77.0 | 87.0 | 4.3 | 126.0 | 117.0 | 3.3 | 9.0 | 6.0 | 3.54 |
| | 135.755 | 53.975 | 56.007 | 44.450 | 6.4 | 3.3 | 298 | 404 | 3,000 | 4,000 | 6389 | 6320 | 19.3 | 0.32 | 1.85 | 1.02 | 77.0 | 91.0 | 6.4 | 126.0 | 117.0 | 3.3 | 9.0 | 6.0 | 3.52 |
| | 136.525 | 41.275 | 41.275 | 31.750 | 3.5 | 3.3 | 252 | 335 | 2,900 | 3,800 | H414242 | H414210 | 10.9 | 0.36 | 1.67 | 0.92 | 81.0 | 85.0 | 3.5 | 129.0 | 121.0 | 3.3 | 9.0 | 6.0 | 2.81 |

# Tapered Roller Bearings

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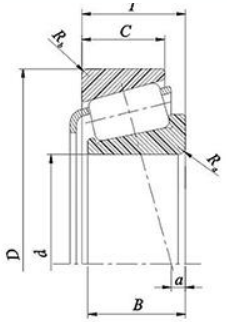


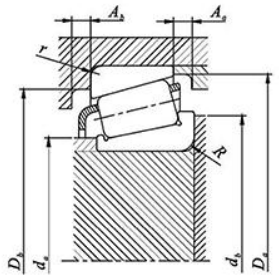


## *d* 66.675~70.000 mm

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Limit Speed (r/min) | | Nominal Model | Action point location mm | constant | Axial load factor | | Installation related dimensions (mm) | | | | | | | | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | $R_a$ | $R_b$ | | | | | | | | | | axis | | | Bearing pedestal | | | Cage | | |
| *d* | *D* | *T* | *B* | *C* | (Min) | | $C_r$ | $C_{or}$ | Grease | Oil | inner--outer | $a^{1)}$ | *e* | $Y_1$ | $Y_0$ | $d_a$ | $d_b$ | R (Max) | $D_a$ | $D_b$ | r (Max) | $A_a$ | $A_b$ | |
| **66.675** | 136.525 | 46.038 | 46.038 | 36.512 | 3.5 | 3.3 | 252 | 335 | 2,800 | 3,700 | H715341—H715311 | 8.6 | 0.47 | 1.27 | 0.70 | 84.0 | 90.0 | 3.5 | 132.0 | 118.0 | 3.3 | 8.0 | 4.5 | 3.26 |
| | 177.800 | 57.150 | 53.975 | 37.308 | 3.5 | 3.3 | 352 | 413 | 2,100 | 2,900 | HH914449—HH914442 | 0.3 | 0.80 | 0.75 | 0.41 | 85.0 | 106.0 | 3.5 | 165.0 | 146.0 | 3.3 | 14.0 | 6.0 | 6.73 |
| **68.262** | 110.000 | 22.000 | 21.996 | 18.824 | 2.3 | 1.3 | 91.6 | 126 | 3,400 | 4,500 | 399A—394A | 0.8 | 0.40 | 1.49 | 0.82 | 74.0 | 78.0 | 2.3 | 104.0 | 101.0 | 1.3 | 4.0 | 4.5 | 0.74 |
| | 110.000 | 22.000 | 21.996 | 18.824 | 5.0 | 1.3 | 91.6 | 126 | 3,400 | 4,500 | 399AS—94A | 0.8 | 0.40 | 1.49 | 0.82 | 74.0 | 83.0 | 5.0 | 104.0 | 101.0 | 1.3 | 4.0 | 4.5 | 0.72 |
| | 117.475 | 30.162 | 30.162 | 23.812 | 3.5 | 3.3 | 128 | 197 | 3,200 | 4,200 | 33269—33462 | 2.8 | 0.44 | 1.38 | 0.76 | 76.0 | 82.0 | 3.5 | 112.0 | 104.0 | 3.3 | 6.5 | 3.5 | 1.29 |
| | 127.000 | 36.512 | 36.170 | 28.575 | 3.5 | 3.3 | 182 | 263 | 3,000 | 4,000 | 570—563 | 8.1 | 0.36 | 1.65 | 0.91 | 77.0 | 83.0 | 3.5 | 120.0 | 112.0 | 3.3 | 7.5 | 4.0 | 1.94 |
| | 136.525 | 41.275 | 41.275 | 31.750 | 3.5 | 3.3 | 252 | 335 | 2,900 | 3,800 | H414245—H414210 | 10.9 | 0.36 | 1.67 | 0.92 | 82.0 | 86.0 | 3.5 | 129.0 | 121.0 | 3.3 | 9.0 | 6.0 | 2.75 |
| | 136.525 | 46.038 | 46.038 | 36.512 | 3.5 | 3.3 | 249 | 405 | 2,800 | 3,700 | H715343—H715311 | 8.6 | 0.47 | 1.27 | 0.70 | 84.0 | 90.0 | 3.5 | 132.0 | 118.0 | 3.3 | 8.0 | 4.5 | 3.26 |
| | 152.400 | 47.625 | 46.038 | 31.750 | 3.5 | 3.3 | 264 | 306 | 2,700 | 3,600 | 9185—9121 | 3.8 | 0.66 | 0.91 | 0.50 | 81.0 | 94.0 | 3.5 | 145.0 | 130.0 | 3.3 | 11.5 | 6.5 | 3.83 |
| | 161.925 | 49.212 | 46.038 | 31.750 | 3.5 | 3.3 | 275 | 330 | 2,100 | 2,900 | 9278—9220 | 0.0 | 0.71 | 0.85 | 0.47 | 90.4 | 97.0 | 3.5 | 153.0 | 138.0 | 3.3 | 12.0 | 4.5 | 4.64 |
| **69.850** | 99.271 | 17.000 | 16.000 | 13.000 | 1.5 | 1.5 | 45.2 | 75.0 | 3,500 | 4,700 | JL713149—JL713110 | -4.6 | 0.46 | 1.29 | 0.75 | 75.0 | 77.0 | 1.5 | 95.0 | 91.0 | 1.5 | 5.0 | 1.0 | 0.38 |
| | 112.712 | 22.225 | 21.996 | 15.875 | 1.5 | 0.8 | 93.4 | 131 | 3,300 | 4,400 | LM613449—LM613410 | 0.0 | 0.42 | 1.44 | 0.79 | 76.0 | 78.0 | 1.5 | 107.0 | 104.0 | 0.8 | 7.0 | 4.5 | 0.77 |
| | 112.712 | 25.400 | 25.400 | 19.050 | 1.5 | 3.3 | 102 | 166 | 3,200 | 4,300 | 29675—29620 | -1.0 | 0.49 | 1.23 | 0.68 | 77.0 | 80.0 | 1.5 | 109.0 | 101.0 | 3.3 | 6.0 | 3.5 | 0.95 |
| | 117.745 | 30.162 | 30.162 | 23.812 | 3.5 | 3.3 | 128 | 197 | 3,200 | 4,200 | 33275—33462 | 2.8 | 0.44 | 1.38 | 0.76 | 77.0 | 84.0 | 3.5 | 112.0 | 104.0 | 3.3 | 6.5 | 3.5 | 1.25 |
| | 120.000 | 29.002 | 29.007 | 23.444 | 3.5 | 3.3 | 133 | 186 | 3,200 | 4,200 | 482—472A | 4.1 | 0.38 | 1.56 | 0.86 | 77.0 | 83.0 | 3.5 | 114.0 | 106.0 | 3.3 | 6.5 | 5.0 | 1.27 |
| | 120.000 | 29.794 | 29.007 | 24.237 | 3.5 | 2.0 | 133 | 186 | 3,200 | 4,200 | 482—472 | 4.1 | 0.38 | 1.56 | 0.86 | 77.0 | 83.0 | 3.5 | 114.0 | 107.0 | 2.0 | 6.5 | 4.0 | 1.30 |
| | 120.000 | 32.545 | 32.545 | 26.195 | 3.5 | 3.3 | 166 | 249 | 3,100 | 4,200 | 47487—47420 | 6.4 | 0.36 | 1.67 | 0.92 | 78.0 | 84.0 | 3.5 | 114.0 | 107.0 | 3.3 | 6.5 | 4.0 | 1.46 |
| | 120.650 | 32.545 | 32.545 | 26.195 | 3.5 | 0.5 | 166 | 249 | 3,100 | 4,200 | 47487—47420A | 6.4 | 0.36 | 1.67 | 0.92 | 78.0 | 84.0 | 3.5 | 114.0 | 109.0 | 0.5 | 6.5 | 4.0 | 1.47 |
| | 127.000 | 36.512 | 36.170 | 28.575 | 3.5 | 3.3 | 182 | 263 | 3,000 | 4,000 | 566—563 | 8.1 | 0.36 | 1.65 | 0.91 | 78.0 | 85.0 | 3.5 | 120.0 | 112.0 | 3.3 | 7.5 | 4.0 | 1.89 |
| | 146.050 | 41.275 | 39.688 | 25.400 | 3.5 | 3.3 | 213 | 256 | 2,300 | 3,300 | H913849—H913810 | -4.3 | 0.78 | 0.77 | 0.42 | 82.0 | 95.0 | 3.5 | 138.0 | 124.0 | 3.3 | 11.0 | 5.5 | 2.85 |
| | 146.050 | 41.275 | 41.275 | 31.750 | 3.5 | 3.3 | 229 | 335 | 2,600 | 3,400 | 655—653 | 7.9 | 0.41 | 1.47 | 0.81 | 82.0 | 88.0 | 3.5 | 139.0 | 131.0 | 3.3 | 8.0 | 5.0 | 3.24 |
| | 150.089 | 44.450 | 46.672 | 36.512 | 3.5 | 3.3 | 294 | 417 | 2,500 | 3,400 | 745A—742 | 11.9 | 0.33 | 1.84 | 1.01 | 82.0 | 88.0 | 3.5 | 142.0 | 134.0 | 3.3 | 9.5 | 7.0 | 3.88 |
| | 168.275 | 53.975 | 56.363 | 41.275 | 3.5 | 3.3 | 379 | 522 | 2,300 | 3,100 | 835—832 | 18.5 | 0.30 | 2.00 | 1.10 | 84.0 | 91.0 | 3.5 | 155.0 | 149.0 | 3.3 | 11.0 | 7.5 | 6.15 |
| **69.952** | 121.442 | 24.608 | 23.012 | 17.462 | 2.0 | 2.0 | 94.6 | 137 | 3,000 | 4,000 | 34274—34478 | -1.5 | 0.45 | 1.33 | 0.73 | 78.0 | 81.0 | 2.0 | 116.0 | 110.0 | 2.0 | 7.0 | 3.0 | 1.08 |
| **70.000** | 110.000 | 26.000 | 25.000 | 20.500 | 1.0 | 2.5 | 106 | 168 | 3,300 | 4,400 | JLM812049—JLM813010 | -0.3 | 0.49 | 1.23 | 0.68 | 77.0 | 78.0 | 1.0 | 105.0 | 98.0 | 2.5 | 6.0 | 4.0 | 0.88 |
| | 115.000 | 29.000 | 29.000 | 23.000 | 3.0 | 2.5 | 139 | 198 | 3,200 | 4,300 | JM612949—JM612910 | 2.5 | 0.43 | 1.39 | 0.77 | 77.0 | 83.0 | 3.0 | 110.0 | 103.0 | 2.5 | 7.5 | 5.0 | 1.13 |

# Tapered Roller Bearings

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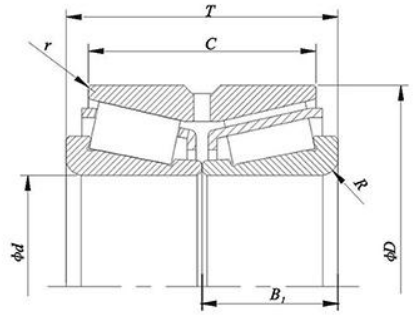


*d* 80~100 mm

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Calculation coefficient | | | | Limit Speed (r/min) | | | Nominal Model | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *d* | *D* | *T* | *C* | $B_1$ | *R* (Min) | *r* (Min) | $C_r$ | $C_{0r}$ | *e* | $Y_1$ | $Y_2$ | $Y_0$ | Grease | Oil | | | |
| **80** | 110 | 46 | 38 | 20 | 1.0 | 0.2 | 186 | 258 | 0.35 | 1.93 | 2.86 | 1.88 | 2600 | 3600 | | 352916 | 1.14 |
| | 125 | 66 | 52 | 29 | 1.5 | 0.6 | 684 | 478 | 0.42 | 1.61 | 2.39 | 1.57 | 2300 | 3100 | | 352016 | 1.28 |
| | 140 | 64 | 51.5 | — | 2.5 | 0.6 | 256 | 364 | 0.42 | 1.61 | 2.39 | 1.57 | 2200 | 2900 | | 350216 | 3.91 |
| | 140 | 78 | 63.5 | 33 | 2.5 | 0.6 | 321 | 488 | 0.42 | 1.61 | 2.39 | 1.57 | 2200 | 2900 | | 352216 | 3.91 |
| | 170 | 92 | 73 | — | 3.0 | 1.0 | 456 | 622 | 0.35 | 1.96 | 2.91 | 1.91 | 1800 | 2500 | | 350316 | 9.57 |
| | 170 | 94 | 63 | 39 | 3.0 | 1.0 | 384 | 530 | 0.83 | 0.81 | 1.21 | 0.8 | 1600 | 2400 | | 351316 | 9.44 |
| | 170 | 131 | 104 | — | 3.0 | 1.0 | 595 | 881 | 0.35 | 1.96 | 2.91 | 1.91 | 1900 | 2500 | | 352316 | 13.6 |
| **85** | 130 | 67 | 53 | 29 | 1.5 | 0.6 | 257 | 468 | 0.44 | 1.53 | 2.28 | 1.5 | 2400 | 3200 | | 352017 | 4.78 |
| | 150 | 70 | 57 | — | 2.5 | 0.6 | 289 | 416 | 0.42 | 1.61 | 2.39 | 1.57 | 2000 | 2700 | | 350217 | 4.94 |
| | 150 | 86 | 69 | 36 | 2.5 | 0.6 | 368 | 567 | 0.42 | 1.61 | 2.39 | 1.57 | 2000 | 2700 | | 350217 | 6.07 |
| | 180 | 98 | 77 | — | 4.0 | 1.0 | 491 | 671 | 0.35 | 1.96 | 2.91 | 1.91 | 1700 | 2300 | | 350317 | 11.4 |
| | 180 | 99 | 66 | 41 | 4.0 | 1.0 | 520 | 730 | 0.83 | 0.81 | 1.21 | 0.8 | 1600 | 2400 | | 351317 | 10.72 |
| | 180 | 137 | 108 | — | 4.0 | 1.0 | 680 | 1030 | 0.35 | 1.96 | 2.91 | 1.91 | 1800 | 2400 | | 352317 | 15.9 |
| **90** | 140 | 73 | 57 | 32 | 2.0 | 0.6 | 305 | 552 | 0.42 | 1.61 | 2.39 | 1.57 | 2100 | 2800 | | 352018 | 4.08 |
| | 160 | 74 | 61 | — | 2.5 | 0.6 | 324 | 470 | 0.42 | 1.61 | 2.39 | 1.57 | 1900 | 2500 | | 350218 | 5.99 |
| | 160 | 94 | 77 | — | 2.5 | 0.6 | 417 | 651 | 0.42 | 1.61 | 2.39 | 1.57 | 1900 | 2500 | | 352218 | 7.61 |
| | 190 | 102 | 81 | — | 4.0 | 1.0 | 536 | 736 | 0.35 | 1.96 | 2.91 | 1.91 | 1600 | 2200 | | 350318 | 13.2 |
| | 190 | 144 | 115 | — | 4.0 | 1.0 | 715 | 1070 | 0.35 | 1.96 | 2.91 | 1.91 | 1700 | 2200 | | 352318 | 18.6 |
| | 190 | 103 | 70 | 43 | 4.0 | 1.0 | 453 | 630 | 0.83 | 0.81 | 1.21 | 0.8 | 1700 | 2200 | | 351318 | 13.75 |
| **95** | 145 | 73 | 57 | 32 | 2.0 | 0.6 | 312 | 574 | 0.44 | 1.53 | 2.28 | 1.5 | 2100 | 2800 | | 352019 | 4.19 |
| | 170 | 100 | 83 | 43 | 3.0 | 1.0 | 533 | 878 | 0.42 | 1.61 | 2.39 | 1.57 | 1900 | 2600 | | 352219 | 9.44 |
| | 200 | 109 | 74 | 45 | 4.0 | 1.0 | 501 | 710 | 0.83 | 0.81 | 1.21 | 0.8 | 1450 | 2100 | | 351319 | 16.2 |
| **100** | 140 | 57 | 47 | 25 | 1.5 | 0.2 | 217 | 437 | 0.33 | 2.05 | 3.05 | 2.38 | 2000 | 2800 | | 352920 | 2.31 |
| | 150 | 73 | 57 | 32 | 2.0 | 0.6 | 317 | 596 | 0.46 | 1.48 | 2.36 | 1.44 | 2000 | 2700 | | 352020 | 4.43 |
| | 180 | 107 | 87 | 46 | 3.0 | 1.0 | 409 | 608 | 0.42 | 1.61 | 2.39 | 1.57 | 1700 | 2200 | | 352220 | 8.6 |
| | 215 | 112 | 87 | — | 4.0 | 1.0 | 655 | 912 | 0.35 | 1.96 | 2.91 | 1.91 | 1500 | 1900 | | 350320 | 18.8 |
| | 215 | 124 | 81 | 51 | 4.0 | 1.0 | 641 | 930 | 0.83 | 0.81 | 1.21 | 0.8 | 1400 | 1900 | | 351320 | 20.0 |
| | 215 | 162 | 127 | — | 4.0 | 1.0 | 892 | 1360 | 0.35 | 1.96 | 2.91 | 1.91 | 1500 | 2000 | | 352320 | 27.1 |

# Tapered Roller Bearings

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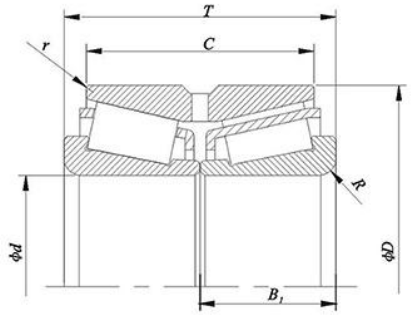


## $d$ 80~100 mm

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Calculation coefficient | | | | Limit Speed (r/min) | | | Nominal Model | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $d$ | $D$ | $T$ | $C$ | $B_1$ | $R$ (Min) | $r$ (Min) | $C_r$ | $C_{0r}$ | $e$ | $Y_1$ | $Y_2$ | $Y_0$ | Grease | Oil | | | |
| **80** | 110 | 46 | 38 | 20 | 1.0 | 0.2 | 186 | 258 | 0.35 | 1.93 | 2.86 | 1.88 | 2600 | 3600 | | 352916 | 1.14 |
| | 125 | 66 | 52 | 29 | 1.5 | 0.6 | 684 | 478 | 0.42 | 1.61 | 2.39 | 1.57 | 2300 | 3100 | | 352016 | 1.28 |
| | 140 | 64 | 51.5 | — | 2.5 | 0.6 | 256 | 364 | 0.42 | 1.61 | 2.39 | 1.57 | 2200 | 2900 | | 350216 | 3.91 |
| | 140 | 78 | 63.5 | 33 | 2.5 | 0.6 | 321 | 488 | 0.42 | 1.61 | 2.39 | 1.57 | 2200 | 2900 | | 352216 | 3.91 |
| | 170 | 92 | 73 | — | 3.0 | 1.0 | 456 | 622 | 0.35 | 1.96 | 2.91 | 1.91 | 1800 | 2500 | | 350316 | 9.57 |
| | 170 | 94 | 63 | 39 | 3.0 | 1.0 | 384 | 530 | 0.83 | 0.81 | 1.21 | 0.8 | 1600 | 2400 | | 351316 | 9.44 |
| | 170 | 131 | 104 | — | 3.0 | 1.0 | 595 | 881 | 0.35 | 1.96 | 2.91 | 1.91 | 1900 | 2500 | | 352316 | 13.6 |
| **85** | 130 | 67 | 53 | 29 | 1.5 | 0.6 | 257 | 468 | 0.44 | 1.53 | 2.28 | 1.5 | 2400 | 3200 | | 352017 | 4.78 |
| | 150 | 70 | 57 | — | 2.5 | 0.6 | 289 | 416 | 0.42 | 1.61 | 2.39 | 1.57 | 2000 | 2700 | | 350217 | 4.94 |
| | 150 | 86 | 69 | 36 | 2.5 | 0.6 | 368 | 567 | 0.42 | 1.61 | 2.39 | 1.57 | 2000 | 2700 | | 350217 | 6.07 |
| | 180 | 98 | 77 | — | 4.0 | 1.0 | 491 | 671 | 0.35 | 1.96 | 2.91 | 1.91 | 1700 | 2300 | | 350317 | 11.4 |
| | 180 | 99 | 66 | 41 | 4.0 | 1.0 | 520 | 730 | 0.83 | 0.81 | 1.21 | 0.8 | 1600 | 2400 | | 351317 | 10.72 |
| | 180 | 137 | 108 | — | 4.0 | 1.0 | 680 | 1030 | 0.35 | 1.96 | 2.91 | 1.91 | 1800 | 2400 | | 352317 | 15.9 |
| **90** | 140 | 73 | 57 | 32 | 2.0 | 0.6 | 305 | 552 | 0.42 | 1.61 | 2.39 | 1.57 | 2100 | 2800 | | 352018 | 4.08 |
| | 160 | 74 | 61 | — | 2.5 | 0.6 | 324 | 470 | 0.42 | 1.61 | 2.39 | 1.57 | 1900 | 2500 | | 350218 | 5.99 |
| | 160 | 94 | 77 | — | 2.5 | 0.6 | 417 | 651 | 0.42 | 1.61 | 2.39 | 1.57 | 1900 | 2500 | | 352218 | 7.61 |
| | 190 | 102 | 81 | — | 4.0 | 1.0 | 536 | 736 | 0.35 | 1.96 | 2.91 | 1.91 | 1600 | 2200 | | 350318 | 13.2 |
| | 190 | 144 | 115 | — | 4.0 | 1.0 | 715 | 1070 | 0.35 | 1.96 | 2.91 | 1.91 | 1700 | 2200 | | 352318 | 18.6 |
| | 190 | 103 | 70 | 43 | 4.0 | 1.0 | 453 | 630 | 0.83 | 0.81 | 1.21 | 0.8 | 1700 | 2200 | | 351318 | 13.75 |
| **95** | 145 | 73 | 57 | 32 | 2.0 | 0.6 | 312 | 574 | 0.44 | 1.53 | 2.28 | 1.5 | 2100 | 2800 | | 352019 | 4.19 |
| | 170 | 100 | 83 | 43 | 3.0 | 1.0 | 533 | 878 | 0.42 | 1.61 | 2.39 | 1.57 | 1900 | 2600 | | 352219 | 9.44 |
| | 200 | 109 | 74 | 45 | 4.0 | 1.0 | 501 | 710 | 0.83 | 0.81 | 1.21 | 0.8 | 1450 | 2100 | | 351319 | 16.2 |
| **100** | 140 | 57 | 47 | 25 | 1.5 | 0.2 | 217 | 437 | 0.33 | 2.05 | 3.05 | 2.38 | 2000 | 2800 | | 352920 | 2.31 |
| | 150 | 73 | 57 | 32 | 2.0 | 0.6 | 317 | 596 | 0.46 | 1.48 | 2.36 | 1.44 | 2000 | 2700 | | 352020 | 4.43 |
| | 180 | 107 | 87 | 46 | 3.0 | 1.0 | 409 | 608 | 0.42 | 1.61 | 2.39 | 1.57 | 1700 | 2200 | | 352220 | 8.6 |
| | 215 | 112 | 87 | — | 4.0 | 1.0 | 655 | 912 | 0.35 | 1.96 | 2.91 | 1.91 | 1500 | 1900 | | 350320 | 18.8 |
| | 215 | 124 | 81 | 51 | 4.0 | 1.0 | 641 | 930 | 0.83 | 0.81 | 1.21 | 0.8 | 1400 | 1900 | | 351320 | 20.0 |
| | 215 | 162 | 127 | — | 4.0 | 1.0 | 892 | 1360 | 0.35 | 1.96 | 2.91 | 1.91 | 1500 | 2000 | | 352320 | 27.1 |

# Tapered Roller Bearings

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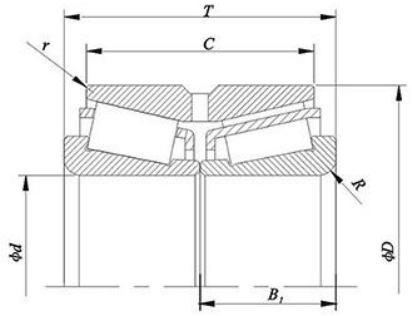


$d$ **150 mm**

| Main Dimensions (mm) | | | | | | | Basic Rated Load (kN) | | Calculation coefficient | | | | Limit Speed (r/min) | | | Nominal Model | Reference Quality (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $d$ | $D$ | $T$ | $C$ | $B_1$ | $R$ (Min) | $r$ | $C_r$ | $C_{0r}$ | $e$ | $Y_1$ | $Y_2$ | $Y_0$ | Grease | Oil | | | |
| **150** | 225 | 110 | 86 | 48 | 3.0 | 1.0 | 670 | 1336 | 0.46 | 1.48 | 2.19 | 1.44 | 1300 | 1700 | | 352030 | — |
| | 250 | 138 | 112 | 60 | 2.5 | 1.0 | — | — | — | — | — | — | 1100 | 1600 | | 352130 | — |
| | 270 | 109 | 87 | — | 4.0 | 1.0 | 764 | 1200 | 0.44 | 1.55 | 2.31 | 1.52 | 1100 | 1400 | | 351230 | 25.4 |
| | 270 | 164 | 130 | 73 | 4.0 | 1.0 | 1050 | 1760 | 0.44 | 1.55 | 2.31 | 1.52 | 1100 | 1400 | | 352230 | 38.2 |
| | 320 | 154 | 120 | — | 5.0 | 1.5 | 1300 | 1890 | 0.35 | 1.96 | 2.91 | 1.91 | 930 | 1200 | | 350330 | 56.9 |
| | 320 | 178 | 114 | 75 | 5.0 | 1.1 | 1340 | 2040 | 0.83 | 0.81 | 1.21 | 0.8 | 800 | 1200 | | 351330 | 68.7 |

# PLEASE CONTACT US

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# THANK YOU