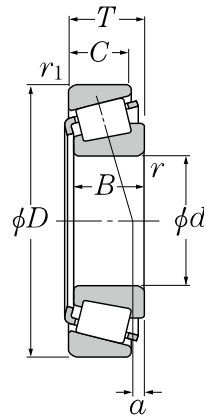


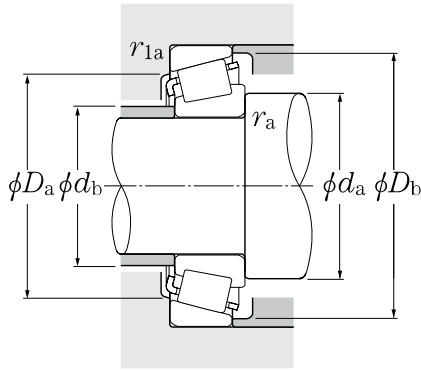
Inch series  
J series



d 60.000 ~ 65.000mm

| Boundary dimensions |         |        |        |        | Basic load rating |                 | Allowable speed    |                 |
|---------------------|---------|--------|--------|--------|-------------------|-----------------|--------------------|-----------------|
| mm                  |         |        |        |        | dynamic           | static          | min <sup>-1</sup>  |                 |
| d                   | D       | T      | B      | C      | C <sub>r</sub>    | C <sub>0r</sub> | Grease lubrication | Oil lubrication |
| 60.000              | 110.000 | 22.000 | 21.996 | 18.824 | 99.5              | 120             | 3 200              | 4 300           |
|                     | 130.000 | 34.100 | 30.924 | 22.650 | 173               | 186             | 2 700              | 3 600           |
| 60.325              | 100.000 | 25.400 | 25.400 | 19.845 | 100               | 134             | 3 500              | 4 700           |
|                     | 112.712 | 30.162 | 30.048 | 23.812 | 132               | 174             | 3 200              | 4 300           |
|                     | 122.238 | 38.100 | 38.354 | 29.718 | 208               | 244             | 3 100              | 4 100           |
|                     | 122.238 | 43.658 | 43.764 | 36.512 | 215               | 283             | 3 100              | 4 100           |
|                     | 123.825 | 38.100 | 36.678 | 30.162 | 175               | 216             | 3 000              | 4 100           |
|                     | 127.000 | 36.512 | 36.512 | 26.988 | 181               | 228             | 2 900              | 3 800           |
|                     | 127.000 | 44.450 | 44.450 | 34.925 | 226               | 263             | 3 100              | 4 200           |
|                     | 130.175 | 36.512 | 33.338 | 23.812 | 173               | 186             | 2 700              | 3 600           |
| 61.912              | 110.000 | 22.000 | 21.996 | 18.824 | 99.5              | 120             | 3 200              | 4 300           |
|                     | 136.525 | 46.038 | 46.038 | 36.512 | 248               | 355             | 2 600              | 3 500           |
|                     | 146.050 | 41.275 | 39.688 | 25.400 | 220               | 234             | 2 400              | 3 200           |
| 61.976              | 101.600 | 24.608 | 24.608 | 19.845 | 100               | 134             | 3 500              | 4 700           |
| 62.738              | 101.600 | 25.400 | 25.400 | 19.845 | 100               | 134             | 3 500              | 4 700           |
| 63.500              | 94.458  | 19.050 | 19.050 | 15.083 | 67.0              | 103             | 3 600              | 4 800           |
|                     | 107.950 | 25.400 | 25.400 | 19.050 | 101               | 140             | 3 200              | 4 300           |
|                     | 107.950 | 25.400 | 25.400 | 19.050 | 101               | 140             | 3 200              | 4 300           |
|                     | 110.000 | 22.000 | 21.996 | 18.824 | 99.5              | 120             | 3 200              | 4 300           |
|                     | 110.000 | 25.400 | 25.400 | 19.050 | 101               | 140             | 3 200              | 4 300           |
|                     | 112.712 | 30.162 | 30.048 | 23.812 | 132               | 174             | 3 200              | 4 300           |
|                     | 112.712 | 30.162 | 30.162 | 23.812 | 153               | 195             | 3 200              | 4 200           |
|                     | 120.000 | 29.794 | 29.007 | 24.237 | 142               | 177             | 3 000              | 4 000           |
|                     | 120.000 | 29.794 | 29.007 | 24.237 | 142               | 177             | 3 000              | 4 000           |
|                     | 122.238 | 38.100 | 38.354 | 29.718 | 208               | 244             | 3 100              | 4 100           |
|                     | 122.238 | 43.658 | 43.764 | 36.512 | 215               | 283             | 3 100              | 4 100           |
|                     | 123.825 | 38.100 | 36.678 | 30.162 | 175               | 216             | 3 000              | 4 100           |
|                     | 127.000 | 36.512 | 36.170 | 28.575 | 181               | 229             | 2 900              | 3 800           |
|                     | 127.000 | 36.512 | 36.512 | 26.988 | 181               | 228             | 2 900              | 3 800           |
|                     | 136.525 | 41.275 | 41.275 | 31.750 | 215               | 262             | 2 800              | 3 800           |
|                     | 140.030 | 36.512 | 33.236 | 23.520 | 190               | 212             | 2 600              | 3 400           |
| 65.000              | 105.000 | 24.000 | 23.000 | 18.500 | 94.5              | 117             | 3 300              | 4 500           |
|                     | 110.000 | 28.000 | 28.000 | 22.500 | 132               | 174             | 3 200              | 4 300           |

Note: Chamfer dimensions on the back face of the inner and outer rings of the bearing are larger than the maximum values of installation-related dimensions  $r_{1as}$  and  $r_{1as}$ .



Dynamic equivalent radial load

$P_r = XF_r + YF_a$

| $\frac{F_a}{F_r} \leq e$ |   | $\frac{F_a}{F_r} > e$ |       |
|--------------------------|---|-----------------------|-------|
| X                        | Y | X                     | Y     |
| 1                        | 0 | 0.4                   | $Y_2$ |

Static equivalent radial load

$P_{0r} = 0.5F_r + Y_0F_a$

When  $P_{0r} < F_r$  use  $P_{0r} = F_r$ .

For values of  $e$ ,  $Y_2$  and  $Y_0$  see the table below.

| Bearing number <sup>1)</sup> | Installation-related dimensions |       |       |       |                  |                   | Load center <sup>2)</sup><br>mm | Constant<br>$e$ | Axial load factors |       | Mass<br>kg<br>(approx.) |
|------------------------------|---------------------------------|-------|-------|-------|------------------|-------------------|---------------------------------|-----------------|--------------------|-------|-------------------------|
|                              | $d_a$                           | $d_b$ | $D_a$ | $D_b$ | $r_{as}$<br>Max. | $r_{1as}$<br>Max. |                                 |                 | $Y_2$              | $Y_0$ |                         |
| 4T-397/394A                  | 69                              | 68    | 101   | 105   | 0.8              | 1.3               | 0.7                             | 0.40            | 1.49               | 0.82  | 0.918                   |
| #4T-JHM911244/JHM911211      | 84                              | 74    | 109   | 123   | 3.5              | 3.3               | -7.6                            | 0.82            | 0.73               | 0.40  | 2.01                    |
| 4T-28985/28921               | 73                              | 67    | 89    | 96    | 3.5              | 3.3               | 2.5                             | 0.43            | 1.41               | 0.78  | 0.769                   |
| 4T-3980/3920                 | 75                              | 68    | 99    | 106   | 3.5              | 3.3               | 4.5                             | 0.40            | 1.49               | 0.82  | 1.34                    |
| 4T-HM212044/HM212011         | 85                              | 70    | 108   | 116   | 8                | 3.3               | 11.1                            | 0.34            | 1.78               | 0.98  | 2.02                    |
| 4T-5583/5535                 | 78                              | 72    | 106   | 116   | 3.5              | 3.3               | 13.3                            | 0.36            | 1.67               | 0.92  | 2.45                    |
| 4T-558/552A                  | 76                              | 72    | 109   | 116   | 2.3              | 3.3               | 9.4                             | 0.35            | 1.73               | 0.95  | 2.09                    |
| 4T-HM813841/HM813810         | 83                              | 77    | 111   | 121   | 3.5              | 3.3               | 3.7                             | 0.50            | 1.20               | 0.66  | 2.21                    |
| 4T-65237/65500               | 87                              | 71    | 107   | 119   | 3.5              | 3.3               | 9.3                             | 0.49            | 1.23               | 0.68  | 2.59                    |
| 4T-HM911245/HM911210         | 93                              | 74    | 109   | 123.6 | 5                | 3.3               | -5.2                            | 0.82            | 0.73               | 0.40  | 2.12                    |
| 4T-392/394A                  | 70                              | 69    | 101   | 105   | 0.8              | 1.3               | 0.7                             | 0.40            | 1.49               | 0.82  | 0.88                    |
| 4T-H715334/H715311           | 87                              | 81    | 118   | 132   | 3.5              | 3.3               | 8.7                             | 0.47            | 1.27               | 0.70  | 3.47                    |
| 4T-H913842/H913810           | 90                              | 82.4  | 124   | 138   | 3.5              | 3.3               | -4.3                            | 0.78            | 0.77               | 0.42  | 3.17                    |
| 4T-28990/28920               | 72                              | 68    | 90    | 97    | 2                | 3.3               | 1.7                             | 0.43            | 1.41               | 0.78  | 0.766                   |
| 4T-28995/28920               | 75                              | 69    | 90    | 97    | 3.5              | 3.3               | 2.5                             | 0.43            | 1.41               | 0.78  | 0.762                   |
| 4T-L610549/L610510           | 71                              | 69    | 86    | 91    | 1.5              | 1.5               | -0.6                            | 0.42            | 1.41               | 0.78  | 0.453                   |
| 4T-29585/29520               | 77                              | 71    | 96    | 103   | 3.5              | 3.3               | 0.6                             | 0.46            | 1.31               | 0.72  | 0.924                   |
| 4T-29586/29520               | 73                              | 71    | 96    | 103   | 1.5              | 3.3               | 0.6                             | 0.46            | 1.31               | 0.72  | 0.93                    |
| 4T-390A/394A                 | 73                              | 70    | 101   | 105   | 1.5              | 1.3               | 0.7                             | 0.40            | 1.49               | 0.82  | 0.858                   |
| 4T-29585/29521               | 77                              | 71    | 99    | 104   | 3.5              | 1.3               | 0.6                             | 0.46            | 1.31               | 0.72  | 0.982                   |
| 4T-3982/3920                 | 77                              | 71    | 99    | 106   | 3.5              | 3.3               | 4.5                             | 0.40            | 1.49               | 0.82  | 1.27                    |
| 4T-39585/39520               | 77                              | 71    | 101   | 107   | 3.5              | 3.3               | 6.6                             | 0.34            | 1.77               | 0.97  | 1.27                    |
| 4T-477/472                   | 73                              | 72    | 107   | 114   | 0.8              | 2                 | 3.9                             | 0.38            | 1.56               | 0.86  | 1.6                     |
| 4T-483/472                   | 78                              | 72    | 107   | 114   | 3.5              | 2                 | 3.9                             | 0.38            | 1.56               | 0.86  | 1.43                    |
| 4T-HM212046/HM212011         | 80                              | 73    | 108   | 116   | 3.5              | 3.3               | 11.1                            | 0.34            | 1.78               | 0.98  | 1.95                    |
| 4T-5584/5535                 | 81                              | 75    | 106   | 116   | 3.5              | 3.3               | 13.3                            | 0.36            | 1.67               | 0.92  | 2.34                    |
| 4T-559/552A                  | 81                              | 75    | 109   | 116   | 3.5              | 3.3               | 9.4                             | 0.35            | 1.73               | 0.95  | 2.01                    |
| 4T-565/563                   | 80                              | 73    | 112   | 120   | 3.5              | 3.3               | 8.3                             | 0.36            | 1.65               | 0.91  | 2.11                    |
| 4T-HM813842/HM813810         | 84                              | 78    | 111   | 121   | 3.5              | 3.3               | 3.7                             | 0.50            | 1.20               | 0.66  | 2.13                    |
| 4T-639/632                   | 81                              | 74    | 118   | 125   | 3.5              | 3.3               | 11.4                            | 0.36            | 1.66               | 0.91  | 2.85                    |
| 4T-78250/78551               | 85                              | 79    | 117   | 132   | 2.3              | 2.3               | -8.5                            | 0.87            | 0.69               | 0.38  | 2.54                    |
| #4T-JLM710949/JLM710910      | 77                              | 71    | 96    | 100.5 | 3                | 1                 | 0.3                             | 0.45            | 1.32               | 0.73  | 0.744                   |
| #4T-JM511946/JM511910        | 78                              | 72    | 99    | 105   | 3                | 2.5               | 3.4                             | 0.40            | 1.49               | 0.82  | 1.09                    |

1) Bearing numbers marked “#” designate J-series bearings. The tolerance of these bearings is listed in Table 6.8 on page A-66 to A-67.  
2) Dimensions with “-” indicate a load center at the outside on the end of an inner ring.