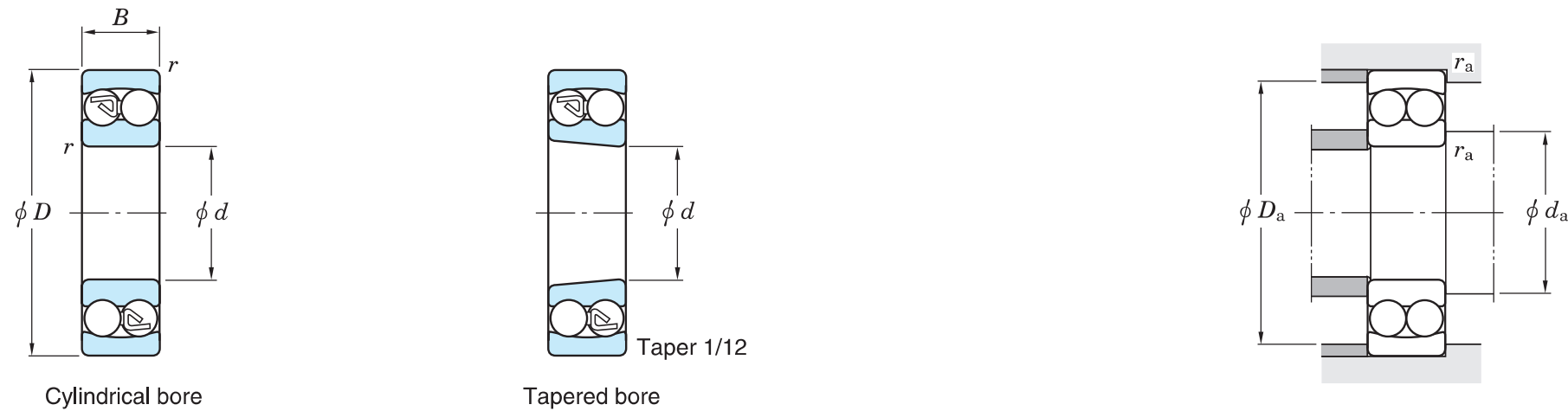


d 10 ~ (35) mm



| Boundary dimensions<br>(mm) |     |     |            | Basic load ratings<br>(kN) |          | Fatigue<br>load limit<br>(kN)<br>$C_u$ | Limiting speeds<br>(min <sup>-1</sup> ) |          | Bearing No.      |              |  | Mounting dimensions<br>(mm) |               |               | Con-<br>stant<br>$e$ | Axial load factors |       |       | (Refer.) Mass (kg) |              |
|-----------------------------|-----|-----|------------|----------------------------|----------|----------------------------------------|-----------------------------------------|----------|------------------|--------------|--|-----------------------------|---------------|---------------|----------------------|--------------------|-------|-------|--------------------|--------------|
| $d$                         | $D$ | $B$ | $r_{min.}$ | $C_r$                      | $C_{0r}$ |                                        | Grease lub.                             | Oil lub. | Cylindrical bore | Tapered bore |  | $d_a$<br>min.               | $D_a$<br>max. | $r_a$<br>max. |                      | $Y_1$              | $Y_2$ | $Y_0$ | Cylindrical bore   | Tapered bore |
| 10                          | 30  | 9   | 0.6        | 6.85                       | 1.20     | 0.08                                   | 23 000                                  | 28 000   | 1200             | —            |  | 14                          | 26            | 0.6           | 0.33                 | 1.92               | 2.97  | 2.01  | 0.034              | —            |
|                             | 30  | 14  | 0.6        | 9.20                       | 1.60     | 0.10                                   | 23 000                                  | 29 000   | 2200             | —            |  | 14                          | 26            | 0.6           | 0.59                 | 1.07               | 1.65  | 1.12  | 0.047              | —            |
| 12                          | 32  | 10  | 0.6        | 7.00                       | 1.25     | 0.08                                   | 21 000                                  | 26 000   | 1201             | —            |  | 16                          | 28            | 0.6           | 0.33                 | 1.89               | 2.93  | 1.98  | 0.040              | —            |
|                             | 32  | 14  | 0.6        | 9.55                       | 1.75     | 0.11                                   | 21 000                                  | 26 000   | 2201             | —            |  | 16                          | 28            | 0.6           | 0.53                 | 1.18               | 1.83  | 1.24  | 0.053              | —            |
| 15                          | 35  | 11  | 0.6        | 9.35                       | 1.75     | 0.11                                   | 18 000                                  | 22 000   | 1202             | —            |  | 19                          | 31            | 0.6           | 0.33                 | 1.90               | 2.95  | 2.00  | 0.049              | —            |
|                             | 35  | 14  | 0.6        | 9.60                       | 1.85     | 0.12                                   | 18 000                                  | 22 000   | 2202             | —            |  | 19                          | 31            | 0.6           | 0.50                 | 1.27               | 1.97  | 1.33  | 0.060              | —            |
|                             | 42  | 13  | 1          | 12.0                       | 2.30     | 0.14                                   | 16 000                                  | 20 000   | 1302             | —            |  | 20                          | 37            | 1             | 0.34                 | 1.86               | 2.88  | 1.95  | 0.094              | —            |
|                             | 42  | 17  | 1          | 15.1                       | 2.90     | 0.18                                   | 14 000                                  | 20 000   | 2302             | —            |  | 20                          | 37            | 1             | 0.50                 | 1.27               | 1.96  | 1.33  | 0.114              | —            |
| 17                          | 40  | 12  | 0.6        | 9.85                       | 2.05     | 0.13                                   | 16 000                                  | 20 000   | 1203             | —            |  | 21                          | 36            | 0.6           | 0.31                 | 2.03               | 3.14  | 2.12  | 0.073              | —            |
|                             | 40  | 16  | 0.6        | 12.3                       | 2.40     | 0.15                                   | 16 000                                  | 20 000   | 2203             | —            |  | 21                          | 36            | 0.6           | 0.50                 | 1.27               | 1.96  | 1.33  | 0.088              | —            |
|                             | 47  | 14  | 1          | 15.7                       | 3.20     | 0.20                                   | 14 000                                  | 17 000   | 1303             | —            |  | 22                          | 42            | 1             | 0.33                 | 1.92               | 2.97  | 2.01  | 0.130              | —            |
|                             | 47  | 19  | 1          | 18.1                       | 3.60     | 0.23                                   | 13 000                                  | 18 000   | 2303             | —            |  | 22                          | 42            | 1             | 0.49                 | 1.28               | 1.98  | 1.34  | 0.158              | —            |
| 20                          | 47  | 14  | 1          | 12.4                       | 2.65     | 0.16                                   | 14 000                                  | 17 000   | 1204             | 1204K        |  | 25                          | 42            | 1             | 0.29                 | 2.16               | 3.35  | 2.27  | 0.120              | 0.118        |
|                             | 47  | 18  | 1          | 15.8                       | 3.25     | 0.21                                   | 14 000                                  | 17 000   | 2204             | 2204K        |  | 25                          | 42            | 1             | 0.48                 | 1.31               | 2.02  | 1.37  | 0.140              | 0.136        |
|                             | 52  | 15  | 1.1        | 15.5                       | 3.35     | 0.21                                   | 13 000                                  | 15 000   | 1304             | 1304K        |  | 26.5                        | 45.5          | 1             | 0.30                 | 2.12               | 3.28  | 2.22  | 0.163              | 0.161        |
|                             | 52  | 21  | 1.1        | 22.5                       | 4.65     | 0.30                                   | 11 000                                  | 15 000   | 2304             | 2304K        |  | 26.5                        | 45.5          | 1             | 0.49                 | 1.29               | 2.00  | 1.35  | 0.209              | 0.205        |
| 25                          | 52  | 15  | 1          | 15.1                       | 3.30     | 0.21                                   | 12 000                                  | 14 000   | 1205             | 1205K        |  | 30                          | 47            | 1             | 0.28                 | 2.28               | 3.52  | 2.39  | 0.141              | 0.138        |
|                             | 52  | 18  | 1          | 15.7                       | 3.50     | 0.22                                   | 12 000                                  | 15 000   | 2205             | 2205K        |  | 30                          | 47            | 1             | 0.40                 | 1.58               | 2.45  | 1.66  | 0.163              | 0.158        |
|                             | 62  | 17  | 1.1        | 22.5                       | 5.05     | 0.32                                   | 9 900                                   | 12 000   | 1305             | 1305K        |  | 31.5                        | 55.5          | 1             | 0.27                 | 2.31               | 3.57  | 2.42  | 0.257              | 0.252        |
|                             | 62  | 24  | 1.1        | 30.6                       | 6.55     | 0.42                                   | 9 400                                   | 13 000   | 2305             | 2305K        |  | 31.5                        | 55.5          | 1             | 0.46                 | 1.36               | 2.10  | 1.42  | 0.335              | 0.327        |
| 30                          | 62  | 16  | 1          | 19.6                       | 4.70     | 0.29                                   | 9 900                                   | 12 000   | 1206             | 1206K        |  | 35                          | 57            | 1             | 0.25                 | 2.55               | 3.94  | 2.67  | 0.220              | 0.216        |
|                             | 62  | 20  | 1          | 19.3                       | 4.65     | 0.29                                   | 10 000                                  | 12 000   | 2206             | 2206K        |  | 35                          | 57            | 1             | 0.35                 | 1.79               | 2.77  | 1.87  | 0.260              | 0.254        |
|                             | 72  | 19  | 1.1        | 26.6                       | 6.30     | 0.40                                   | 8 700                                   | 11 000   | 1306             | 1306K        |  | 36.5                        | 65.5          | 1             | 0.26                 | 2.40               | 3.72  | 2.52  | 0.387              | 0.381        |
|                             | 72  | 27  | 1.1        | 39.3                       | 8.70     | 0.55                                   | 8 000                                   | 11 000   | 2306             | 2306K        |  | 36.5                        | 65.5          | 1             | 0.44                 | 1.44               | 2.23  | 1.51  | 0.500              | 0.489        |
| 35                          | 72  | 17  | 1.1        | 19.7                       | 5.15     | 0.32                                   | 8 500                                   | 10 000   | 1207             | 1207K        |  | 41.5                        | 65.5          | 1             | 0.23                 | 2.71               | 4.20  | 2.84  | 0.323              | 0.317        |

[Remark] Standard cage types used for the above bearings are described earlier in this section.