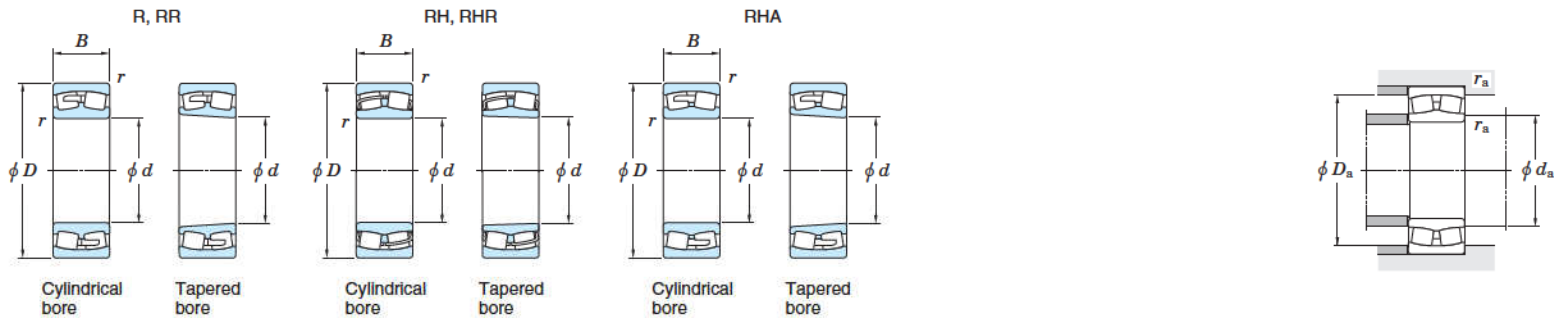


Spherical roller bearings

d 75 ~ (110) mm



| Boundary dimensions (mm) | | | | Basic load ratings (kN) | | Limiting speeds (min ⁻¹) | | Bearing No. | | Mounting dimensions (mm) | | | Constant 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 min. | D_a max. | r_a max. | | Y_1 | Y_2 | Y_0 | Cylindrical bore | Tapered bore |
| 75 | 130 | 31 | 1.5 | 193 | 236 | 2 600 | 3 400 | 22215RHR | 22215RHRK | 83.5 | 121.5 | 1.5 | 0.22 | 3.07 | 4.57 | 3.00 | 1.73 | 1.69 |
| | 160 | 37 | 2.1 | 246 | 298 | 2 200 | 3 000 | 21315RH | 21315RHK | 87 | 148 | 2 | 0.24 | 2.87 | 4.27 | 2.80 | 3.81 | 3.76 |
| | 160 | 55 | 2.1 | 393 | 473 | 2 200 | 3 000 | 22315RHR | 22315RHRK | 87 | 148 | 2 | 0.35 | 1.95 | 2.90 | 1.91 | 5.45 | 5.33 |
| 80 | 140 | 33 | 2 | 217 | 271 | 2 400 | 3 200 | 22216RHR | 22216RHRK | 90 | 130 | 2 | 0.22 | 3.07 | 4.57 | 3.00 | 2.17 | 2.13 |
| | 170 | 39 | 2.1 | 275 | 339 | 2 100 | 2 800 | 21316RH | 21316RHK | 92 | 158 | 2 | 0.23 | 2.88 | 4.29 | 2.82 | 4.53 | 4.47 |
| | 170 | 58 | 2.1 | 431 | 521 | 2 100 | 2 800 | 22316RHR | 22316RHRK | 92 | 158 | 2 | 0.35 | 1.95 | 2.90 | 1.91 | 6.44 | 6.30 |
| 85 | 150 | 36 | 2 | 258 | 324 | 2 200 | 3 000 | 22217RHR | 22217RHRK | 95 | 140 | 2 | 0.22 | 3.01 | 4.48 | 2.94 | 2.75 | 2.69 |
| | 180 | 41 | 3 | 300 | 372 | 2 000 | 2 600 | 21317RH | 21317RHK | 99 | 166 | 2.5 | 0.23 | 2.89 | 4.33 | 2.83 | 5.32 | 5.25 |
| | 180 | 60 | 3 | 481 | 586 | 2 000 | 2 600 | 22317RHR | 22317RHRK | 99 | 166 | 2.5 | 0.33 | 2.02 | 3.00 | 1.97 | 7.47 | 7.31 |
| 90 | 160 | 40 | 2 | 298 | 381 | 2 100 | 2 800 | 22218RHR | 22218RHRK | 100 | 150 | 2 | 0.24 | 2.79 | 4.15 | 2.73 | 3.50 | 3.43 |
| | 160 | 52.4 | 2 | 336 | 482 | 2 100 | 2 800 | 23218RH | 23218RHK | 100 | 150 | 2 | 0.32 | 2.14 | 3.19 | 2.09 | 4.63 | 4.50 |
| | 190 | 43 | 3 | 330 | 416 | 1 900 | 2 500 | 21318RH | 21318RHK | 104 | 176 | 2.5 | 0.23 | 2.91 | 4.30 | 2.84 | 6.20 | 6.11 |
| | 190 | 64 | 3 | 538 | 662 | 1 900 | 2 500 | 22318RHR | 22318RHRK | 104 | 176 | 2.5 | 0.34 | 2.00 | 2.98 | 1.96 | 8.82 | 8.63 |
| 95 | 170 | 43 | 2.1 | 334 | 422 | 2 000 | 2 600 | 22219RHR | 22219RHRK | 107 | 158 | 2 | 0.24 | 2.76 | 4.11 | 2.70 | 4.24 | 4.15 |
| | 200 | 45 | 3 | 362 | 461 | 1 800 | 2 300 | 21319RH | 21319RHK | 109 | 186 | 2.5 | 0.23 | 2.92 | 4.35 | 2.86 | 7.16 | 7.06 |
| | 200 | 67 | 3 | 586 | 726 | 1 800 | 2 300 | 22319RHR | 22319RHRK | 109 | 186 | 2.5 | 0.33 | 2.02 | 3.00 | 1.97 | 10.2 | 9.98 |
| 100 | 150 | 37 | 1.5 | 208 | 332 | 2 100 | 2 800 | 23020RH | 23020RHK | 117 | 141 | 1.5 | 0.22 | 3.01 | 4.48 | 2.94 | 2.34 | 2.27 |
| | 180 | 46 | 2.1 | 377 | 481 | 1 900 | 2 500 | 22220RHR | 22220RHRK | 112 | 168 | 2 | 0.25 | 2.74 | 4.08 | 2.68 | 5.11 | 5.00 |
| | 180 | 60.3 | 2.1 | 425 | 629 | 1 900 | 2 500 | 23220RH | 23220RHK | 112 | 168 | 2 | 0.32 | 2.09 | 3.11 | 2.04 | 6.85 | 6.66 |
| | 215 | 47 | 3 | 416 | 524 | 1 600 | 2 200 | 21320RH | 21320RHK | 114 | 201 | 2.5 | 0.22 | 3.02 | 4.49 | 2.95 | 8.79 | 8.68 |
| | 215 | 73 | 3 | 700 | 877 | 1 600 | 2 200 | 22320RHR | 22320RHRK | 114 | 201 | 2.5 | 0.35 | 1.95 | 2.90 | 1.91 | 13.2 | 12.9 |
| 110 | 170 | 45 | 2 | 300 | 486 | 1 900 | 2 500 | 23022RH | 23022RHK | 120 | 160 | 2 | 0.24 | 2.84 | 4.23 | 2.78 | 3.85 | 3.74 |
| | 180 | 56 | 2 | 385 | 605 | 1 800 | 2 400 | 23122RH | 23122RHK | 120 | 170 | 2 | 0.29 | 2.36 | 3.51 | 2.31 | 5.72 | 5.54 |
| | 180 | 69 | 2 | 469 | 778 | 1 800 | 2 400 | 24122RH | 24122RHK30 | 120 | 170 | 2 | 0.37 | 1.84 | 2.74 | 1.80 | 6.98 | 6.87 |
| | 200 | 53 | 2.1 | 491 | 642 | 1 700 | 2 200 | 22222RHR | 22222RHRK | 122 | 188 | 2 | 0.26 | 2.64 | 3.93 | 2.58 | 7.37 | 7.21 |
| | 200 | 69.8 | 2.1 | 537 | 792 | 1 700 | 2 200 | 23222RH | 23222RHK | 122 | 188 | 2 | 0.34 | 1.99 | 2.96 | 1.94 | 9.76 | 9.48 |
| | 240 | 50 | 3 | 484 | 616 | 1 400 | 1 900 | 21322RH | 21322RHK | 124 | 226 | 2.5 | 0.21 | 3.19 | 4.75 | 3.12 | 11.8 | 11.7 |

[Remark] Standard cage types used for the above bearings are shown in Table 5 earlier in this section.