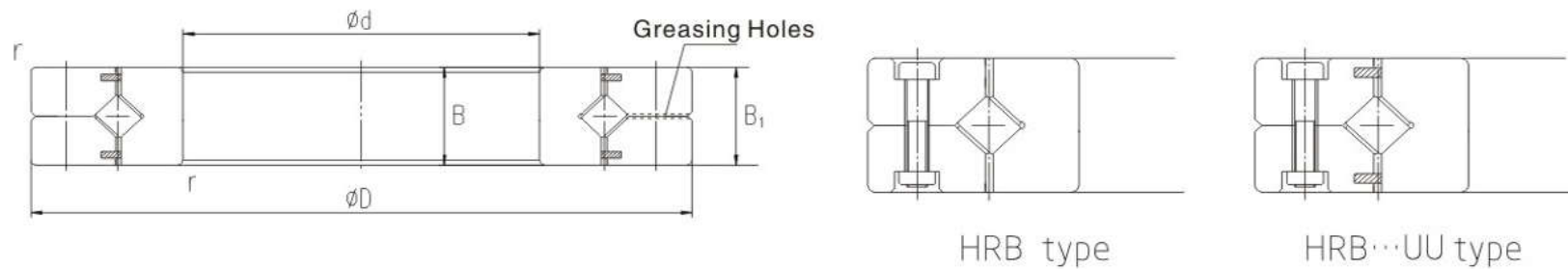


## HRB crossed cylindrical roller bearing



| Type    | Main sizes     |                |                              |         |           | Shoulder size |       | Basic load ratings (radial) |          | Mass |
|---------|----------------|----------------|------------------------------|---------|-----------|---------------|-------|-----------------------------|----------|------|
|         | Inner diameter | Outer diameter | Roller pitch circle diameter | Height  | Chamfer   |               |       | $C_r$                       | $C_{or}$ |      |
|         | $d$            | $D$            | $D_{pw}$                     | $B/B_1$ | $r_{min}$ | $d_s$         | $D_h$ | kN                          | kN       | kg   |
| HRB3010 | 30             | 55             | 41.5                         | 10      | 0.6       | 37            | 47    | 7.35                        | 8.36     | 0.12 |
| HRB3510 | 35             | 60             | 46.5                         | 10      | 0.6       | 41            | 51.5  | 7.64                        | 9.12     | 0.13 |
| HRB4010 | 40             | 65             | 51.5                         | 10      | 0.6       | 47.5          | 57.5  | 8.33                        | 10.6     | 0.16 |
| HRB4510 | 45             | 70             | 56.5                         | 10      | 0.6       | 51            | 61.5  | 8.62                        | 11.3     | 0.17 |
| HRB5013 | 50             | 80             | 64                           | 13      | 0.6       | 57.4          | 72    | 16.7                        | 20.9     | 0.27 |
| HRB6013 | 60             | 90             | 74                           | 13      | 0.6       | 68            | 82    | 18                          | 24.3     | 0.3  |
| HRB7013 | 70             | 100            | 84                           | 13      | 0.6       | 78            | 92    | 19.4                        | 27.7     | 0.35 |
| HRB8016 | 80             | 120            | 98                           | 16      | 0.6       | 91            | 111   | 30.1                        | 42.1     | 0.7  |
| HRB9016 | 90             | 130            | 108                          | 16      | 1         | 98            | 118   | 31.4                        | 45.3     | 0.75 |

| Type     | Main sizes     |                |                              |                  |                  | Shoulder size  |                | Basic rated load ratings(radial) |                 | Mass |
|----------|----------------|----------------|------------------------------|------------------|------------------|----------------|----------------|----------------------------------|-----------------|------|
|          | Inner diameter | Outer diameter | Roller pitch circle diameter | Height           | Chamfer          |                |                | C <sub>r</sub>                   | C <sub>or</sub> |      |
|          | d              | D              | D <sub>pw</sub>              | B/B <sub>1</sub> | r <sub>min</sub> | d <sub>s</sub> | D <sub>h</sub> | kN                               | kN              | kg   |
| HRB10016 | 100            | 140            | 119.3                        | 16               | 1                | 109            | 129            | 31.7                             | 48.6            | 0.83 |
| HRB10020 |                | 150            | 123                          | 20               | 1                | 113            | 133            | 33.1                             | 50.9            | 1.45 |
| HRB11012 | 110            | 135            | 121.8                        | 12               | 0.6              | 117            | 127            | 12.5                             | 24.1            | 0.4  |
| HRB11015 |                | 145            | 126.5                        | 15               | 0.6              | 122            | 136            | 23.7                             | 41.5            | 0.75 |
| HRB11020 |                | 160            | 133                          | 20               | 1                | 120            | 143            | 34                               | 54              | 1.56 |
| HRB12016 | 120            | 150            | 134.2                        | 16               | 1.6              | 127            | 141            | 24.2                             | 43.2            | 0.72 |
| HRB12025 |                | 180            | 148.7                        | 25               | 1.5              | 133            | 164            | 66.9                             | 100             | 2.62 |
| HRB13015 | 130            | 160            | 144.5                        | 15               | 0.6              | 137            | 152            | 25                               | 46.7            | 0.72 |
| HRB13025 |                | 190            | 158                          | 15               | 1.5              | 143            | 174            | 69.5                             | 107             | 2.82 |
| HRB14016 | 140            | 175            | 154.8                        | 16               | 1                | 147            | 162            | 25.9                             | 50.1            | 1    |
| HRB14025 |                | 200            | 168                          | 25               | 1.5              | 154            | 185            | 74.8                             | 121             | 2.96 |
| HRB15013 | 150            | 180            | 164                          | 13               | 0.6              | 157            | 172            | 27                               | 53.5            | 0.68 |
| HRB15025 |                | 210            | 178                          | 25               | 1.5              | 164            | 194            | 76.8                             | 128             | 3.16 |
| HRB15030 |                | 230            | 188                          | 30               | 1.5              | 173            | 211            | 100                              | 156             | 5.3  |
| HRB16025 | 160            | 220            | 188.6                        | 25               | 1.5              | 173            | 204            | 81.7                             | 135             | 3.14 |
| HRB17020 | 170            | 220            | 191                          | 20               | 1.5              | 184            | 198            | 29                               | 62.1            | 2.21 |
| HRB18025 | 180            | 240            | 210                          | 25               | 1.5              | 195            | 225            | 84                               | 143             | 3.44 |
| HRB19025 | 190            | 240            | 211.9                        | 25               | 1                | 202            | 222            | 41.7                             | 82.9            | 2.99 |
| HRB20025 | 200            | 260            | 230                          | 25               | 2                | 215            | 245            | 84.2                             | 157             | 4    |
| HRB20030 |                | 280            | 240                          | 30               | 2                | 221            | 258            | 114                              | 200             | 6.7  |
| HRB20035 |                | 295            | 247.7                        | 35               | 2                | 225            | 270            | 151                              | 252             | 9.6  |

| Type       | Main sizes     |                |                              |                  |                  | Shoulder size  |                | Basic rated load ratings(radial) |                 | Mass |
|------------|----------------|----------------|------------------------------|------------------|------------------|----------------|----------------|----------------------------------|-----------------|------|
|            | Inner diameter | Outer diameter | Roller pitch circle diameter | Height           | Chamfer          |                |                | C <sub>r</sub>                   | C <sub>0r</sub> |      |
|            | d              | D              | D <sub>pw</sub>              | B/B <sub>1</sub> | r <sub>min</sub> | d <sub>s</sub> | D <sub>h</sub> | kN                               | kN              | kg   |
| HRB22025   | 220            | 280            | 250.1                        | 25               | 2                | 235            | 265            | 92.3                             | 171             | 4.1  |
| HRB24025   | 240            | 300            | 269                          | 25               | 2.5              | 256            | 281            | 68.3                             | 145             | 4.5  |
| HRB25025   | 250            | 310            | 277.5                        | 25               | 2.5              | 265            | 290            | 69.3                             | 150             | 5    |
| HRB25030   |                | 330            | 287.5                        | 30               | 2.5              | 269            | 306            | 126                              | 244             | 8.1  |
| HRB25040   |                | 355            | 300.7                        | 40               | 2.5              | 275            | 326            | 195                              | 348             | 14.8 |
| HRB30025   | 300            | 360            | 328                          | 25               | 2.5              | 315            | 340            | 76.3                             | 178             | 5.9  |
| HRB30035   |                | 395            | 345                          | 35               | 2.5              | 322            | 368            | 183                              | 367             | 13.4 |
| HRB30040   |                | 405            | 351.6                        | 40               | 2.5              | 326            | 377            | 212                              | 409             | 17.2 |
| HRB35020   | 350            | 400            | 373.4                        | 20               | 2.5              | 363            | 383            | 54.1                             | 143             | 3.9  |
| HRB40035   | 400            | 480            | 400.3                        | 35               | 2.5              | 422            | 459            | 156                              | 370             | 14.5 |
| HRB40040   |                | 510            | 453.4                        | 40               | 2.5              | 428            | 479            | 241                              | 531             | 23.5 |
| HRB45025   | 450            | 500            | 474                          | 25               | 1                | 464            | 484            | 61.7                             | 182             | 6.6  |
| HRB50025   | 500            | 550            | 524.2                        | 25               | 1                | 514            | 534            | 65.5                             | 201             | 7.3  |
| HRB50040   |                | 600            | 548.8                        | 40               | 2.5              | 526            | 572            | 239                              | 607             | 26   |
| HRB50050   |                | 625            | 561.6                        | 50               | 2.5              | 536            | 587            | 267                              | 653             | 41.7 |
| HRB60040   | 600            | 700            | 650                          | 40               | 3                | 627            | 673            | 264                              | 721             | 29   |
| HRB70045   | 700            | 815            | 753.5                        | 45               | 3                | 731            | 777            | 281                              | 836             | 46   |
| HRB80070   | 800            | 950            | 868.1                        | 70               | 4                | 836            | 900            | 468                              | 1330            | 105  |
| HRB90070   | 900            | 1050           | 969                          | 70               | 4                | 937            | 1001           | 494                              | 1490            | 120  |
| HRB1000110 | 1000           | 1250           | 1114                         | 110              | 5                | 1057           | 1171           | 1220                             | 3220            | 360  |
| HRB1250110 | 1250           | 1500           | 1365.8                       | 110              | 5                | 1308           | 1423           | 1350                             | 1970            | 440  |