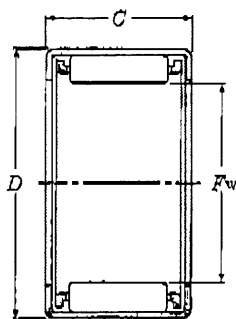


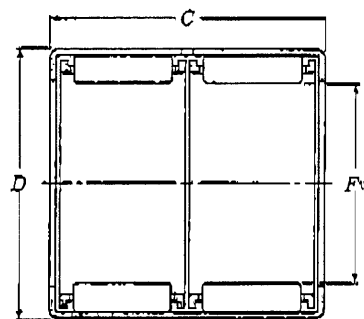
Drawn cup needle roller bearings

NTN

Type HK, Type HK · ZWD
 Type HMK
 Type BK, Type BK · ZWD



Type HK, Type HMK



Type HK · ZWD

(Open end design)

F_w 3~10mm

| Boundary dimensions | Basic load ratings | | | | Limiting speeds | | Bearing numbers | | Mass kg (approx.) | Appropriate ¹⁾ inner ring (as a reference) | | | |
|---------------------|--------------------|----|------------------|-------|-----------------|-------|--------------------|----------------------|-------------------------|---|----------------------|-------------------------|---|
| | N | | | | rpm | | open end design | closed end design | | | | | |
| | mm | mm | mm | mm | grease | oil | | | open end design | closed end design | | | |
| 3 | D | C | C_1 0.2 max | C_r | C_{or} | C_r | C_{or} | grease | oil | open end design | closed end design | Mass kg (approx.) | Appropriate ¹⁾ inner ring (as a reference) |
| | | | | | | | | | | | | | |
| 3 | 6.5 | 6 | — | 1 250 | 835 | 128 | 85 | 33 000 | 50 000 | HK0306T2 | — | 0.0006 | — |
| | 6.5 | 6 | 0.8 | 1 250 | 835 | 128 | 85 | 33 000 | 50 000 | — | BK0306T2 | 0.0007 | — |
| 4 | 8 | 8 | — | 1 770 | 1 270 | 180 | 129 | 30 000 | 45 000 | HK0408T2 | — | 0.0016 | — |
| | 8 | 8 | 1.6 | 1 770 | 1 270 | 180 | 129 | 30 000 | 45 000 | — | BK0408T2 | 0.0018 | — |
| 5 | 9 | 9 | — | 2 640 | 2 190 | 269 | 224 | 27 000 | 40 000 | HK0509T2 | — | 0.0019 | — |
| | 9 | 9 | 1.6 | 2 640 | 2 190 | 269 | 224 | 27 000 | 40 000 | — | BK0509T2 | 0.0021 | — |
| 6 | 10 | 9 | — | 2 660 | 2 280 | 272 | 233 | 25 000 | 37 000 | HK0609T2 | — | 0.0022 | — |
| | 10 | 9 | 1.6 | 2 660 | 2 280 | 272 | 233 | 25 000 | 37 000 | — | BK0609T2 | 0.0024 | — |
| 7 | 11 | 9 | — | 3 400 | 3 250 | 345 | 330 | 23 000 | 34 000 | HK0709 | — | 0.0025 | — |
| | 11 | 9 | 1.6 | 3 400 | 3 250 | 345 | 330 | 23 000 | 34 000 | — | BK0709 | 0.0027 | — |
| 8 | 12 | 10 | — | 3 850 | 3 950 | 395 | 400 | 20 000 | 30 000 | HK0810C | — | 0.0032 | IR 5× 8×12 |
| | 12 | 10 | 1.6 | 3 850 | 3 950 | 395 | 400 | 20 000 | 30 000 | — | BK0810C | 0.0034 | IR 5× 8×12 |
| | 15 | 10 | — | 3 800 | 2 870 | 390 | 293 | 20 000 | 30 000 | HMK0810 | — | 0.0067 | IR 5× 8×12 |
| | 15 | 15 | — | 6 600 | 5 800 | 675 | 590 | 20 000 | 30 000 | HMK0815 | — | 0.0100 | IR 5× 8×16 |
| | 15 | 20 | — | 9 050 | 8 750 | 925 | 890 | 20 000 | 30 000 | HMK0820T2 | — | 0.0130 | — |
| 9 | 13 | 10 | — | 4 600 | 5 050 | 465 | 515 | 18 000 | 27 000 | HK0910 | — | 0.0035 | IR 6× 9×12 |
| | 13 | 10 | 1.6 | 4 600 | 5 050 | 465 | 515 | 18 000 | 27 000 | — | BK0910 | 0.0039 | IR 6× 9×12 |
| | 13 | 12 | — | 5 650 | 6 650 | 575 | 680 | 18 000 | 27 000 | HK0912 | — | 0.0042 | IR 6× 9×12 |
| | 13 | 12 | 1.6 | 5 650 | 6 650 | 575 | 680 | 18 000 | 27 000 | — | BK0912 | 0.0045 | IR 6× 9×12 |
| | 16 | 12 | — | 5 300 | 4 450 | 540 | 455 | 18 000 | 27 000 | HMK0912 | — | 0.0087 | IR 6× 9×16 |
| | 16 | 16 | — | 7 400 | 6 850 | 755 | 700 | 18 000 | 27 000 | HMK0916 | — | 0.0120 | — |
| 10 | 14 | 10 | — | 4 500 | 5 100 | 460 | 520 | 16 000 | 24 000 | HK1010 | — | 0.0038 | IR 7×10×10.5 |
| | 14 | 10 | 1.6 | 4 500 | 5 100 | 460 | 520 | 16 000 | 24 000 | — | BK1010 | 0.0042 | IR 7×10×10.5 |
| | 14 | 12 | — | 5 900 | 7 250 | 605 | 735 | 16 000 | 24 000 | HK1012 | — | 0.0045 | IR 7×10×16 |
| | 14 | 12 | 1.6 | 5 900 | 7 250 | 605 | 735 | 16 000 | 24 000 | — | BK1012 | 0.0050 | IR 7×10×16 |
| | 14 | 15 | — | 7 100 | 9 150 | 725 | 935 | 16 000 | 24 000 | HK1015 | — | 0.0056 | IR 7×10×16 |
| | 14 | 15 | 1.6 | 7 100 | 9 150 | 725 | 935 | 16 000 | 24 000 | — | BK1015 | 0.0062 | IR 7×10×16 |
| | 17 | 10 | — | 4 250 | 3 450 | 435 | 350 | 16 000 | 24 000 | HMK1010 | — | 0.0079 | IR 7×10×10.5 |
| | 17 | 12 | — | 5 600 | 4 850 | 570 | 495 | 16 000 | 24 000 | HMK1012 | — | 0.0094 | IR 7×10×16 |

NOTE : 1) For bearing with an inner ring, part number is clarified as HK+IR. (See page B-179 for the inner ring dimension table.)
 Example : HK1012+IR7×10×16.5