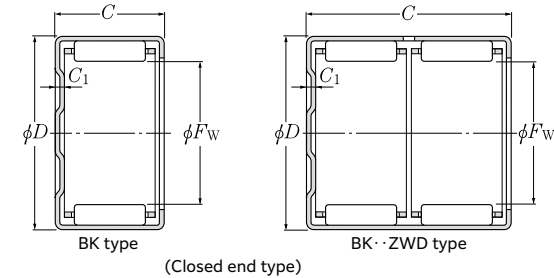
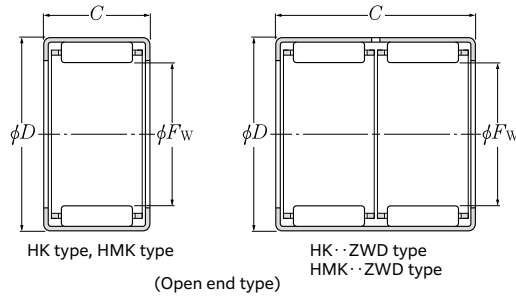


Drawn cup needle roller bearings

HK type, HK·ZWD type
HMK type, HMK·ZWD type
BK type, BK·ZWD type



F_w 25 ~ 30mm

| Boundary dimensions mm | Basic load rating | | Fatigue load limit | Allowable speed | | Number | | Mass kg (approx.) | Applied inner ring ¹⁾ (approx.) |
|---------------------------|-------------------|----------|--------------------------|-----------------------|--------------------|------------------|--------------------|-------------------------|--|
| | dynamic | static | | min ⁻¹ | | Open end type | Closed end type | | |
| F_w D 0 Max. | C_T | C_{0r} | N | Grease lubrication | Oil lubrication | | | | |
| 32 38 — | 35 000 | 65 500 | 8 000 | 6 500 | 9 500 | HK2538ZWD | — | 0.065 | IR20×25×38.5 |
| 32 38 2.7 | 35 000 | 65 500 | 8 000 | 6 500 | 9 500 | — | BK2538ZWD | 0.069 | IR20×25×38.5 |
| 33 10 — | 9 150 | 10 400 | 1 270 | 6 500 | 9 500 | HMK2510 | — | 0.019 | IR20×25×12.5 |
| 25 33 15 — | 15 200 | 19 900 | 2 430 | 6 500 | 9 500 | HMK2515CT | — | 0.029 | IR20×25×16 |
| 33 20 — | 21 200 | 30 500 | 3 750 | 6 500 | 9 500 | HMK2520CT | — | 0.039 | IR20×25×20.5 |
| 33 25 — | 26 700 | 41 000 | 5 000 | 6 500 | 9 500 | HMK2525F | — | 0.048 | IR20×25×26.5 |
| 33 30 — | 32 000 | 52 000 | 6 350 | 6 500 | 9 500 | 7E-HMK2530C | — | 0.058 | IR20×25×32 |
| 26 34 16 — | 17 100 | 23 400 | 2 860 | 6 000 | 9 000 | 7E-HMK2616 | — | 0.032 | IR22×26×20 |
| 34 20 — | 21 100 | 30 500 | 3 750 | 6 000 | 9 000 | 7E-HMK2620CT | — | 0.040 | — |
| 35 16 — | 16 700 | 26 400 | 3 200 | 5 500 | 8 500 | HK2816CT | — | 0.030 | IR22×28×17 |
| 35 16 2.7 | 16 700 | 26 400 | 3 200 | 5 500 | 8 500 | — | BK2816CT | 0.034 | IR22×28×17 |
| 35 20 — | 21 300 | 36 000 | 4 400 | 5 500 | 8 500 | HK2820 | — | 0.038 | IR22×28×20.5 |
| 35 20 2.7 | 21 300 | 36 000 | 4 400 | 5 500 | 8 500 | — | BK2820 | 0.043 | IR22×28×20.5 |
| 37 20 — | 23 600 | 32 500 | 4 000 | 5 500 | 8 500 | HMK2820 | — | 0.049 | IR22×28×20.5 |
| 37 30 — | 35 000 | 54 500 | 6 600 | 5 500 | 8 500 | 7E-HMK2830C | — | 0.073 | — |
| 29 38 20 — | 24 600 | 35 000 | 4 250 | 5 500 | 8 500 | HMK2920 | — | 0.050 | — |
| 38 30 — | 34 500 | 54 000 | 6 600 | 5 500 | 8 500 | HMK2930 | — | 0.075 | — |
| 37 12 — | 12 300 | 18 200 | 2 220 | 5 500 | 8 000 | HK3012CT | — | 0.024 | IR25×30×12.5 |
| 37 12 2.7 | 12 300 | 18 200 | 2 220 | 5 500 | 8 000 | — | BK3012CT | 0.028 | IR25×30×12.5 |
| 37 16 — | 18 100 | 30 000 | 3 650 | 5 500 | 8 000 | 7E-HK3016C | — | 0.032 | IR25×30×17 |
| 37 16 2.7 | 18 100 | 30 000 | 3 650 | 5 500 | 8 000 | — | BK3016CT | 0.037 | IR25×30×17 |
| 37 20 — | 22 300 | 39 500 | 4 800 | 5 500 | 8 000 | HK3020F | — | 0.040 | IR25×30×20.5 |
| 37 20 2.7 | 22 300 | 39 500 | 4 800 | 5 500 | 8 000 | — | BK3020 | 0.047 | IR25×30×20.5 |
| 30 37 26 — | 28 500 | 54 000 | 6 550 | 5 500 | 8 000 | HK3026F | — | 0.053 | IR25×30×26.5 |
| 37 26 2.7 | 28 500 | 54 000 | 6 550 | 5 500 | 8 000 | — | 7E-BK3026T | 0.059 | IR25×30×26.5 |
| 37 38 — | 38 500 | 78 500 | 9 600 | 5 500 | 8 000 | HK3038ZWD | — | 0.076 | IR25×30×38.5 |
| 37 38 2.7 | 38 500 | 78 500 | 9 600 | 5 500 | 8 000 | — | BK3038ZWD | 0.083 | IR25×30×38.5 |
| 40 13 — | 14 100 | 17 100 | 2 090 | 5 500 | 8 000 | HMK3013 | — | 0.040 | IR25×30×16 |
| 40 15 — | 17 100 | 22 100 | 2 690 | 5 500 | 8 000 | HMK3015 | — | 0.044 | IR25×30×16 |
| 40 20 — | 24 200 | 34 500 | 4 200 | 5 500 | 8 000 | HMK3020 | — | 0.058 | IR25×30×20.5 |

1) If the bearing has an inner ring, the value indicates HK + IR.
Example: HK2820 + IR22 × 28 × 20.5

F_w 30 ~ 40mm

| Boundary dimensions mm | Basic load rating | | Fatigue load limit | Allowable speed | | Number | | Mass kg (approx.) | Applied inner ring ¹⁾ (approx.) |
|---------------------------|-------------------|----------|--------------------------|-----------------------|--------------------|------------------|--------------------|-------------------------|--|
| | dynamic | static | | min ⁻¹ | | Open end type | Closed end type | | |
| F_w D 0 Max. | C_T | C_{0r} | N | Grease lubrication | Oil lubrication | | | | |
| 30 40 25 — | 31 000 | 47 500 | 5 800 | 5 500 | 8 000 | 7E-HMK3025CT | — | 0.073 | IR25×30×26.5 |
| 40 30 — | 36 000 | 57 500 | 7 000 | 5 500 | 8 000 | HMK3030 | — | 0.087 | IR25×30×32 |
| 32 42 20 — | 27 500 | 38 000 | 4 600 | 5 000 | 7 500 | 7E-HMK3220 | — | 0.062 | — |
| 42 30 — | 41 500 | 64 500 | 7 850 | 5 000 | 7 500 | 7E-HMK3230 | — | 0.092 | — |
| 42 12 — | 13 300 | 21 300 | 2 600 | 4 700 | 7 000 | HK3512CV2 | — | 0.028 | — |
| 42 12 2.7 | 13 300 | 21 300 | 2 600 | 4 700 | 7 000 | — | BK3512CT | 0.033 | — |
| 42 16 — | 19 000 | 33 500 | 4 100 | 4 700 | 7 000 | HK3516CT | — | 0.037 | — |
| 42 16 2.7 | 19 000 | 33 500 | 4 100 | 4 700 | 7 000 | — | BK3516CT | 0.044 | — |
| 42 20 — | 24 800 | 47 500 | 5 800 | 4 700 | 7 000 | HK3520 | — | 0.046 | — |
| 35 42 20 2.7 | 24 800 | 47 500 | 5 800 | 4 700 | 7 000 | — | BK3520 | 0.055 | — |
| 45 12 — | 14 900 | 17 600 | 2 150 | 4 700 | 7 000 | HMK3512 | — | 0.040 | — |
| 45 15 — | 20 200 | 26 200 | 3 200 | 4 700 | 7 000 | HMK3515 | — | 0.050 | — |
| 45 20 — | 28 400 | 40 500 | 4 900 | 4 700 | 7 000 | 7E-HMK3520B | — | 0.067 | — |
| 45 25 — | 36 000 | 54 500 | 6 650 | 4 700 | 7 000 | HMK3525 | — | 0.083 | — |
| 45 30 — | 44 000 | 71 000 | 8 650 | 4 700 | 7 000 | HMK3530CV1 | — | 0.100 | — |
| 37 47 20 — | 29 300 | 43 000 | 5 250 | 4 300 | 6 500 | HMK3720 | — | 0.070 | — |
| 47 30 — | 44 500 | 73 000 | 8 900 | 4 300 | 6 500 | HMK3730 | — | 0.105 | — |
| 48 15 — | 21 700 | 29 300 | 3 550 | 4 300 | 6 500 | HMK3815 | — | 0.054 | — |
| 48 20 — | 30 500 | 45 000 | 5 500 | 4 300 | 6 500 | HMK3820 | — | 0.072 | — |
| 38 48 25 — | 38 500 | 61 000 | 7 450 | 4 300 | 6 500 | HMK3825 | — | 0.090 | — |
| 48 30 — | 46 000 | 77 000 | 9 400 | 4 300 | 6 500 | HMK3830 | — | 0.107 | IR32×38×32 |
| 48 45 — | 62 000 | 113 000 | 13 700 | 4 300 | 6 500 | HMK3845ZWD | — | 0.161 | — |
| 47 12 — | 12 100 | 19 500 | 2 380 | 4 000 | 6 000 | HK4012V2 | — | 0.031 | IR35×40×12.5 |
| 47 12 2.7 | 12 600 | 20 800 | 2 530 | 4 000 | 6 000 | — | 7E-BK4012CT | 0.038 | IR35×40×12.5 |
| 47 16 — | 20 300 | 38 500 | 4 700 | 4 000 | 6 000 | HK4016CT | — | 0.041 | IR35×40×17 |
| 47 16 2.7 | 20 300 | 38 500 | 4 700 | 4 000 | 6 000 | — | BK4016CT | 0.051 | IR35×40×17 |
| 47 20 — | 25 900 | 52 500 | 6 400 | 4 000 | 6 000 | HK4020F | — | 0.052 | IR35×40×20.5 |
| 47 20 2.7 | 25 900 | 52 500 | 6 400 | 4 000 | 6 000 | — | BK4020 | 0.064 | IR35×40×20.5 |
| 50 15 — | 23 100 | 32 500 | 3 950 | 4 000 | 6 000 | HMK4015 | — | 0.056 | IR35×40×17 |
| 50 20 — | 32 500 | 50 000 | 6 100 | 4 000 | 6 000 | 7E-HMK4020 | — | 0.075 | IR35×40×20.5 |

1) If the bearing has an inner ring, the value indicates HK + IR.
Example: HK4012 + IR35 × 40 × 12.5