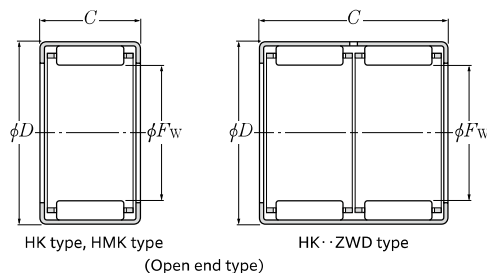


Needle Roller Bearings

NTN

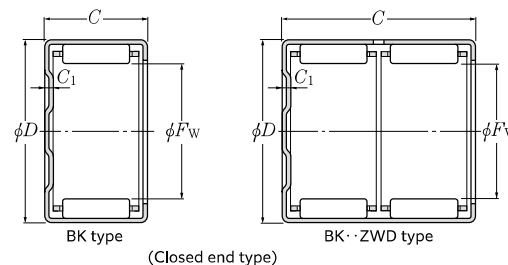
Drawn cup needle roller bearings

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



Needle Roller Bearings

NTN



F_w 16 ~ 20mm

Boundary dimensions mm				Basic load rating		Fatigue load limit	Allowable speed		Number		Mass	Applied inner ring ¹⁾
F_w	D	C 0 -0.2 Max.	C_1 N C_{0r}	dynamic C_r	static C_{0r}	C_u	min ⁻¹ Grease lubrication	Oil lubrication	Open end type	Closed end type	kg (approx.)	(approx.)
16	22	12	—	7 750	9 700	1 180	10 000	15 000	HK1612FM	—	0.012	IR12×16×13
	22	12	2.7	7 750	9 700	1 180	10 000	15 000	—	BK1612	0.014	IR12×16×13
	22	16	—	11 100	15 300	1 870	10 000	15 000	HK1616F	—	0.016	IR12×16×20
	22	16	2.7	11 100	15 300	1 870	10 000	15 000	—	BK1616	0.018	IR12×16×20
	22	22	—	13 300	19 400	2 370	10 000	15 000	HK1622ZWFD	—	0.022	—
	22	22	2.7	13 300	19 400	2 370	10 000	15 000	—	BK1622ZWD	0.023	—
	24	16	—	12 400	13 500	1 640	10 000	15 000	HMK1616	—	0.021	IR12×16×20
	24	20	—	15 600	18 200	2 220	10 000	15 000	7E-HMK1620CT	—	0.027	IR12×16×22
17	23	12	—	8 050	10 300	1 260	9 500	14 000	HK1712FM	—	0.012	—
	23	12	2.7	8 050	10 300	1 260	9 500	14 000	—	BK1712CT	0.015	—
	24	15	—	11 600	14 200	1 740	9 500	14 000	7E-HMK1715CT	—	0.018	IR14×17×17
	24	20	—	15 200	20 000	2 440	9 500	14 000	7E-HMK1720CT	—	0.024	IR12×17×20.5
	24	25	—	19 000	26 700	3 250	9 500	14 000	7E-HMK1725CT	—	0.030	IR12×17×25.5
18	24	12	—	8 300	10 900	1 330	8 500	13 000	HK1812FM	—	0.013	IR15×18×12.5
	24	12	2.7	8 300	10 900	1 330	8 500	13 000	—	BK1812	0.015	IR15×18×12.5
	24	16	—	11 800	17 300	2 110	8 500	13 000	HK1816F	—	0.018	IR15×18×16.5
	24	16	2.7	11 800	17 300	2 110	8 500	13 000	—	BK1816	0.020	IR15×18×16.5
	25	13	—	10 200	12 200	1 480	8 500	13 000	HMK1813	—	0.016	IR15×18×16
	25	15	—	12 000	15 100	1 840	8 500	13 000	HMK1815	—	0.019	IR15×18×16
	25	17	—	13 300	17 200	2 100	8 500	13 000	HMK1817C	—	0.021	IR15×18×17.5
	25	19	—	15 500	20 900	2 540	8 500	13 000	HMK1819	—	0.024	IR15×18×20.5
19	25	20	—	16 300	22 300	2 720	8 500	13 000	HMK1820	—	0.025	IR15×18×20.5
	25	25	—	20 900	31 000	3 750	8 500	13 000	HMK1825V2	—	0.031	IR15×18×25.5
	27	16	—	13 900	16 300	2 000	8 500	13 000	HMK1916	—	0.025	IR15×19×20
	27	20	—	18 100	23 000	2 800	8 500	13 000	HMK1920F	—	0.031	—
	26	12	—	8 750	12 100	1 480	8 000	12 000	HK2012FM	—	0.014	IR15×20×13
	26	12	2.7	9 250	13 000	1 590	8 000	12 000	—	BK2012	0.017	IR15×20×13
	26	16	—	12 500	19 200	2 340	8 000	12 000	HK2016F	—	0.019	IR17×20×16.5
	26	16	2.7	13 000	20 100	2 450	8 000	12 000	—	BK2016	0.022	IR17×20×16.5
20	26	20	—	16 000	26 200	3 200	8 000	12 000	HK2020F	—	0.024	IR17×20×20.5

1) If the bearing has an inner ring, the value indicates HK + IR.
Example: HK1812FM + IR15 × 18 × 12.5

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F_w 20 ~ 25mm

Boundary dimensions mm				Basic load rating		Fatigue load limit N C _u	Allowable speed		Number		Mass	Applied inner ring ¹⁾
<i>F</i> _W	<i>D</i>	<i>C</i> 0 -0.2 Max.	<i>C</i> ₁ Max.	dynamic N <i>C</i> _r	static <i>C</i> _{0r}		min ⁻¹ Grease lubrication	Oil lubrication	Open end type	Closed end type	kg (approx.)	(approx.)
20	26	20	2.7	16 000	26 200	3 200	8 000	12 000	—	BK2020CT	0.027	IR17×20×20.5
	26	30	—	21 500	38 500	4 700	8 000	12 000	HK2030ZWFD	—	0.035	IR17×20×30.5
	26	30	2.7	22 200	40 000	4 900	8 000	12 000	—	BK2030ZWD	0.037	IR17×20×30.5
	27	15	—	13 000	17 300	2 110	8 000	12 000	HMK2015CV3	—	0.021	IR17×20×16.5
	27	20	—	17 200	24 800	3 000	8 000	12 000	HMK2020CT	—	0.027	IR17×20×20.5
	27	25	—	22 000	34 000	4 150	8 000	12 000	HMK2025C	—	0.034	IR15×20×26
	27	30	—	26 100	42 000	5 150	8 000	12 000	HMK2030	—	0.041	IR17×20×30.5
21	29	16	—	15 300	19 100	2 320	7 500	11 000	HMK2116	—	0.027	IR17×21×20
	29	20	—	19 400	25 800	3 150	7 500	11 000	HMK2120	—	0.033	—
22	28	12	—	9 200	13 400	1 630	7 500	11 000	HK2212FM	—	0.013	IR17×22×13
	28	12	2.7	9 200	13 400	1 630	7 500	11 000	—	BK2212CT	0.015	IR17×22×13
	28	16	—	13 200	21 100	2 570	7 500	11 000	HK2216F	—	0.021	IR17×22×18
	28	16	2.7	13 600	22 100	2 700	7 500	11 000	—	BK2216	0.024	IR17×22×18
	28	20	—	16 800	28 800	3 500	7 500	11 000	HK2220F	—	0.026	IR17×22×20.5
	28	20	2.7	17 200	29 800	3 650	7 500	11 000	—	BK2220	0.030	IR17×22×20.5
	29	10	—	8 400	10 100	1 240	7 500	11 000	HMK2210	—	0.015	IR17×22×13
	29	15	—	12 900	17 600	2 150	7 500	11 000	7E-HMK2215C	—	0.022	IR17×22×16D
	29	20	—	18 200	27 400	3 350	7 500	11 000	HMK2220CV2	—	0.030	IR17×22×20.5
	29	25	—	23 200	37 500	4 550	7 500	11 000	HMK2225CT	—	0.037	IR17×22×26
24	31	20	—	18 300	28 200	3 450	6 500	10 000	HMK2420CT	—	0.032	—
	31	28	—	26 000	44 500	5 400	6 500	10 000	HMK2428	—	0.045	IR20×24×28.5
25	32	12	—	11 100	15 200	1 850	6 500	9 500	HK2512F	—	0.021	IR20×25×12.5
	32	12	2.7	11 800	16 300	1 990	6 500	9 500	—	BK2512	0.023	IR20×25×12.5
	32	16	—	15 900	24 000	2 920	6 500	9 500	HK2516F	—	0.027	IR20×25×17
	32	16	2.7	15 900	24 000	2 920	6 500	9 500	—	BK2516	0.031	IR20×25×17
	32	20	—	20 300	33 000	4 000	6 500	9 500	HK2520	—	0.034	IR20×25×20.5
	32	20	2.7	20 300	33 000	4 000	6 500	9 500	—	BK2520	0.039	IR20×25×20.5
	32	26	—	26 400	46 000	5 600	6 500	9 500	HK2526C	—	0.045	IR20×25×26.5
	32	26	2.7	26 400	46 000	5 600	6 500	9 500	—	BK2526C	0.049	IR20×25×26.5

1) If the bearing has an inner ring, the value indicates HK + IR.
Example: HK2512F + IR20 × 25 × 12.5

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