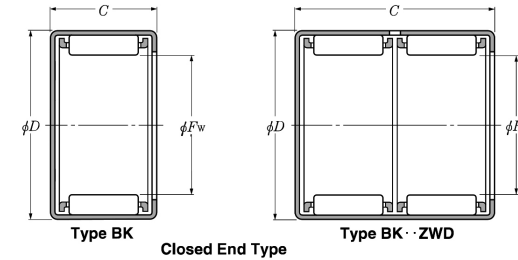
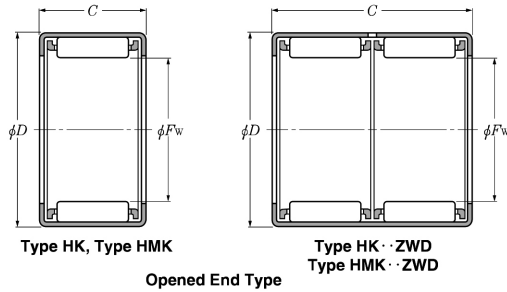


Drawn Cup Needle Roller Bearings:

Drawn Cup Needle Roller Bearing type includes an outer ring and needle rollers, which are both drawn from special thin steel plate by precision deep drawing, and a cage which guides the needle rollers precisely. A hardened and ground shaft or inner ring (IR Series) is used as the raceway. This bearing needs no axial clamping due to easy installation and a press-fit in the housing. Both closed end type to close around the end of the shaft and an open end type are available. Furthermore, a type with a seal installed on a single side or on both sides is also available.

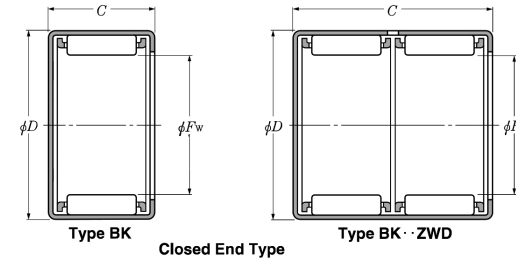
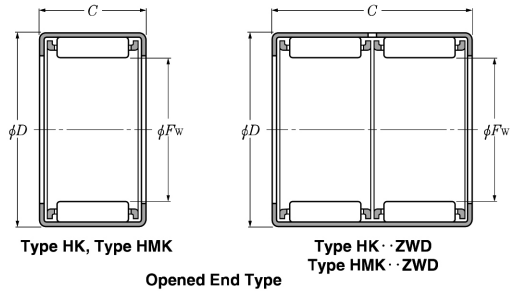


Suffix and Corresponding Description Drawn Cup Needle Roller Bearing	
Suffix	Description of Suffix
TV	Polyamide Resin Cage
ZW	Double Row Cage
D	Outer Ring with Oil Hole
RS	Single Side Synthetic Rubber Seal
2RS	Double Single Side Synthetic Rubber Seal



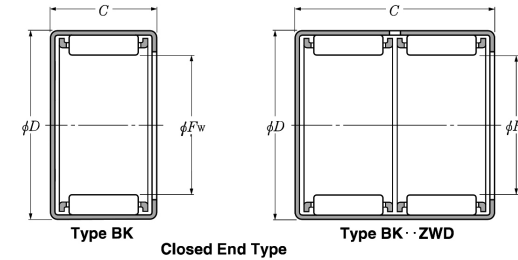
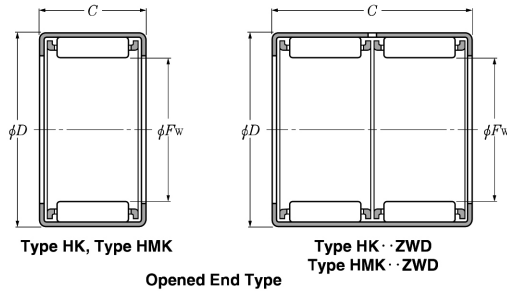
Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Designation		Appropriate Inner Ring	Mass Approx (kg)
(mm)			(KN)		(rpm)		Open End Design	Closed End Design		
F _w	D	C	Cr	Cor	Grease	Oil				
3	6.5	6	0.93	0.57	33000	50000	HK0306	-	-	0.0006
3	6.5	6	0.93	0.57	33000	50000	-	BK0306	-	0.0007
4	8	8	1.77	1.27	30000	45000	HK0408	-	-	0.0016
4	8	8	1.77	1.27	30000	45000	-	BK0408	-	0.0018
5	9	9	2.45	1.99	27000	40000	HK0509	-	-	0.0019
5	9	9	2.64	2.19	27000	40000	-	BK0509	-	0.0021
6	10	9	2.92	2.59	25000	37000	HK0609	-	-	0.0022
6	10	9	2.66	2.28	25000	37000	-	BK0609	-	0.0024
7	11	9	3.15	2.93	23000	34000	HK0709	-	-	0.0025
7	11	9	3.15	2.93	23000	34000	-	BK0709	-	0.0027
8	12	10	3.85	3.95	20000	30000	HK0810	-	IR5X8X12	0.0032
8	12	10	3.85	3.95	20000	30000	-	BK0810	IR5X8X12	0.0034
8	15	10	4.20	3.30	20000	30000	HMK0810	-	IR5X8X12	0.0067
8	15	15	6.60	5.80	20000	30000	HMK0815	-	IR5X8X16	0.0100
8	15	20	9.05	8.75	20000	30000	HMK0820	-	-	0.0130
9	13	10	4.30	4.65	18000	27000	HK0910	-	IR6X9X12	0.0035
9	13	10	4.75	5.30	18000	27000	-	BK0910	IR6X9X12	0.0039
9	13	12	5.40	6.25	18000	27000	HK0912	-	IR6X9X12	0.0042
9	13	12	5.65	6.65	18000	27000	-	BK0912	IR6X9X12	0.0045
9	16	12	5.30	4.45	18000	27000	HMK0912	-	IR6X9X16	0.0087
9	16	16	7.40	6.85	18000	27000	HMK0916	-	-	0.0120
10	14	10	4.50	5.10	16000	24000	HK1010	-	IR7X10X10.5	0.0038
10	14	10	4.50	5.10	16000	24000	-	BK1010	IR7X10X10.5	0.0042
10	14	12	5.65	6.80	16000	24000	HK1012	-	IR7X10X16	0.0045
10	14	12	5.90	7.25	16000	24000	-	BK1012	IR7X10X16	0.0050
10	14	15	7.25	9.40	16000	24000	HK1015	-	IR7X10X16	0.0056
10	14	15	7.10	9.15	16000	24000	-	BK1015	IR7X10X16	0.0062
10	17	10	4.25	3.45	16000	24000	HMK1010	-	IR7X10X10.5	0.0079
10	17	12	5.60	4.85	16000	24000	HMK1012	-	IR7X10X16	0.0094
10	17	15	7.40	6.95	16000	24000	HMK1015	-	IR7X10X16	0.0120

Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Designation		Appropriate Inner Ring	Mass Approx (kg)
(mm)			(KN)		(rpm)		Open End Design	Closed End Design		
F _w	D	C	Cr	Cor	Grease	Oil				
10	17	20	10.20	10.50	16000	24000	HMK1020	-	-	0.0160
12	16	10	5.05	6.25	13000	20000	HK1210	-	IR8X12X10.5	0.0046
12	16	10	5.05	6.25	13000	20000	-	BK1210	IR8X12X10.5	0.0052
12	18	12	6.60	7.30	13000	20000	HK1212	-	IR8X12X12.5	0.0091
12	18	12	6.60	7.30	13000	20000	-	BK1212	IR8X12X12.5	0.0100
12	19	12	7.10	6.90	13000	20000	HMK1212	-	IR8X12X12.5	0.0110
12	19	15	9.40	9.90	13000	20000	HMK1215	-	IR9X12X16	0.0140
12	19	20	12.30	14.00	13000	20000	HMK1220	-	-	0.0180
12	19	25	15.30	18.60	13000	20000	HMK1225	-	-	0.0230
13	19	12	6.95	7.90	12000	18000	HK1312	-	IR10X13X12.5	0.0100
13	19	12	6.95	7.90	12000	18000	-	BK1312	IR10X13X12.5	0.0110
14	20	12	7.20	8.50	11000	17000	HK1412	-	IR10X14X13	0.0110
14	20	12	7.20	8.50	11000	17000	-	BK1412	IR10X14X13	0.0120
14	20	16	10.30	13.40	11000	17000	HK1416	-	-	0.0150
14	20	16	10.70	14.00	11000	17000	-	BK1416	-	0.0160
14	22	16	11.50	12.00	11000	17000	HMK1416	-	IR10X14X20	0.0190
14	22	20	14.60	16.20	11000	17000	HMK1420	-	-	0.0240
15	21	12	7.50	9.10	11000	16000	HK1512	-	IR12X15X12.5	0.0110
15	21	12	7.50	9.10	11000	16000	-	BK1512	IR12X15X12.5	0.0130
15	21	16	10.70	14.40	11000	16000	HK1516	-	IR12X15X16.5	0.0150
15	21	16	10.70	14.40	11000	16000	-	BK1516	IR12X15X16.5	0.0170
15	21	22	12.90	18.20	11000	16000	HK1522ZWD	-	IR12X15X22.5	0.0200
15	21	22	12.90	18.20	11000	16000	-	BK1522ZWD	IR12X15X22.5	0.0220
15	22	10	6.10	6.00	11000	16000	HMK1510	-	IR10X15X12.5	0.0110
15	22	12	7.95	8.45	11000	16000	HMK1512	-	IR12X15X12.5	0.0130
15	22	15	10.50	12.10	11000	16000	HMK1515	-	IR12X15X16	0.0160
15	22	20	14.90	18.90	11000	16000	HMK1520	-	IR12X15X22.5	0.0220
15	22	25	18.50	25.00	11000	16000	HMK1525	-	-	0.0270
16	22	12	7.75	9.70	10000	15000	HK1612	-	IR12X16X13	0.0120
16	22	12	7.75	9.70	10000	15000	-	BK1612	IR12X16X13	0.0140



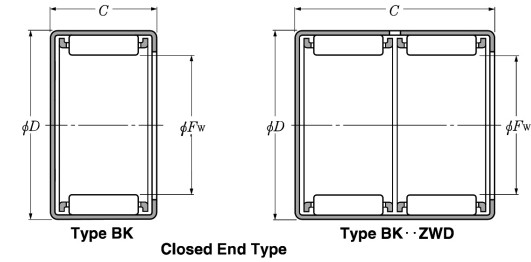
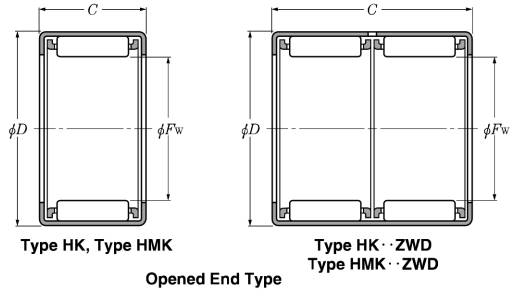
Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Designation		Appropriate Inner Ring	Mass Approx (kg)
(mm)			(KN)		(rpm)		Open End Design	Closed End Design		
F _w	D	C	Cr	Cor	Grease	Oil				
16	22	16	11.10	15.30	10000	15000	HK1616	-	IR12X16X20	0.0160
16	22	16	11.10	15.30	10000	15000	-	BK1616	IR12X16X20	0.0180
16	22	22	13.30	19.40	10000	15000	HK1622ZWD	-	-	0.0220
16	22	22	13.30	19.40	10000	15000	-	BK1622	-	0.0230
16	24	16	12.40	13.50	10000	15000	HMK1616	-	IR12X16X20	0.0210
16	24	20	15.60	18.20	10000	15000	HMK1620	-	IR12X16X22	0.0270
17	23	12	8.05	10.30	9500	14000	HK1712	-	-	0.0120
17	23	12	8.50	11.10	9500	14000	-	BK1712	-	0.0150
17	24	15	12.10	15.00	9500	14000	HMK1715	-	IR14X17X17	0.0180
17	24	20	15.20	20.00	9500	14000	HMK1720	-	IR12X17X20.5	0.0240
17	24	25	193.00	26.70	9500	14000	HMK1725	-	IR12X17X25.5	0.0300
18	24	12	8.30	10.90	8500	13000	HK1812	-	IR15X18X12.5	0.0130
18	24	12	8.30	10.90	8500	13000	-	BK1812	IR15X18X12.5	0.0150
18	24	16	11.80	17.30	8500	13000	HK1816	-	IR15X18X16.5	0.0180
18	24	16	11.80	17.30	8500	13000	-	BK1816	IR15X18X16.5	0.0200
18	25	13	10.20	12.20	8500	13000	HMK1813	-	IR15X18X16	0.0160
18	25	15	12.00	15.10	8500	13000	HMK1815	-	IR15X18X16	0.0190
18	25	17	13.30	17.20	8500	13000	HMK1817	-	IR15X18X17.5	0.0210
18	25	19	15.50	20.90	8500	13000	HMK1819	-	IR15X18X20.5	0.0240
18	25	20	16.30	22.30	8500	13000	HMK1820	-	IR15X18X20.5	0.0250
18	25	25	20.30	29.60	8500	13000	HMK1825	-	IR15X18X25.5	0.0310
19	27	16	13.90	16.30	8500	13000	HMK1916	-	IR15X19X20	0.0250
19	27	20	17.50	22.10	8500	13000	HMK1920	-	-	0.0310
20	26	12	8.75	12.10	8000	12000	HK2012	-	IR15X20X13	0.0140
20	26	12	9.25	13.00	8000	12000	-	BK2012	IR15X20X13	0.0170
20	26	16	12.50	19.20	8000	12000	HK2016	-	IR17X20X16.5	0.0190
20	26	16	13.00	20.10	8000	12000	-	BK2016	IR17X20X16.5	0.0220
20	26	20	16.00	26.20	8000	12000	HK2020	-	IR17X20X20.5	0.0240
20	26	20	16.40	27.10	8000	12000	-	BK2020	IR17X20X20.5	0.0270
20	26	30	21.50	38.50	8000	12000	HK2030ZWD	-	IR17X20X30.5	0.0350

Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Designation		Appropriate Inner Ring	Mass Approx (kg)
(mm)			(KN)		(rpm)		Open End Design	Closed End Design		
F _w	D	C	Cr	Cor	Grease	Oil				
20	26	30	22.20	40.00	8000	12000	-	BK2030ZWD	IR17X20X30.5	0.0370
20	27	15	13.00	17.30	8000	12000	HMK2015	-	IR17X20X16.5	0.0210
20	27	20	17.70	25.60	8000	12000	HMK2020	-	IR17X20X20.5	0.0270
20	27	25	22.00	34.00	8000	12000	HMK2025	-	IR15X20X26	0.0340
20	27	30	26.10	42.00	8000	12000	HMK2030	-	IR17X20X30.5	0.0410
21	29	16	15.30	19.10	7500	11000	HMK2116	-	IR17X21X20	0.0270
21	29	20	19.40	25.80	7500	11000	HMK2120	-	-	0.0330
22	28	12	9.20	13.40	7500	11000	HK2212	-	IR17X22X13	0.0130
22	28	12	9.75	14.30	7500	11000	-	BK2212	IR17X22X13	0.0150
22	28	16	13.20	21.10	7500	11000	HK2216	-	IR17X22X18	0.0210
22	28	16	13.60	22.10	7500	11000	-	BK2216	IR17X22X18	0.0240
22	28	20	16.80	28.80	7500	11000	HK2220	-	IR17X22X20.5	0.0260
22	28	20	17.20	29.80	7500	11000	-	BK2220	IR17X22X20.5	0.0300
22	29	10	8.40	10.10	7500	11000	HMK2210	-	IR17X22X13	0.0150
22	29	15	13.40	18.50	7500	11000	HMK2215	-	IR17X22X16D	0.0220
22	29	20	18.20	27.40	7500	11000	HMK2220	-	IR17X22X20.5	0.0300
22	29	25	23.60	38.50	7500	11000	HMK2225	-	IR17X22X26	0.0370
22	29	30	26.90	45.00	7500	11000	HMK2230	-	IR17X22X32	0.0450
24	31	20	18.30	28.20	6500	10000	HMK2420	-	-	0.0320
24	31	28	26.00	44.50	6500	10000	HMK2428	-	IR20X24X28.5	0.0450
25	32	12	11.10	15.20	6500	9500	HK2512	-	IR20X25X12.5	0.0210
25	32	12	11.80	16.30	6500	9500	-	BK2512	IR20X25X12.5	0.0230
25	32	16	15.90	24.00	6500	9500	HK2516	-	IR20X25X17	0.0270
25	32	16	15.90	24.00	6500	9500	-	BK2516	IR20X25X17	0.0310
25	32	20	20.30	33.00	6500	9500	HK2520	-	IR20X25X20.5	0.0340
25	32	20	20.30	33.00	6500	9500	-	BK2520	IR20X25X20.5	0.0390
25	32	26	26.40	46.00	6500	9500	HK2526	-	IR20X25X26.5	0.0450
25	32	26	26.40	46.00	6500	9500	-	BK2526	IR20X25X26.5	0.0490
25	32	38	35.00	65.50	6500	9500	HK2538ZWD	-	IR20X25X38.5	0.0650
25	32	38	35.00	65.50	6500	9500	-	BK2538ZWD	IR20X25X38.5	0.0690



Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Designation		Appropriate Inner Ring	Mass Approx (kg)
(mm)			(KN)		(rpm)		Open End Design	Closed End Design		
F _w	D	C	Cr	Cor	Grease	Oil				
25	33	10	9.15	10.40	6500	9500	HMK2510	-	IR20X25X12.5	0.0190
25	33	15	15.20	19.90	6500	9500	HMK2515	-	IR20X25X16	0.0290
25	33	20	21.80	31.50	6500	9500	HMK2520	-	IR20X25X20.5	0.0390
25	33	25	26.70	41.00	6500	9500	HMK2525	-	IR20X25X26.5	0.0480
25	33	30	32.50	53.00	6500	9500	HMK2530	-	IR20X25X32	0.0580
26	34	16	17.10	23.40	6000	9000	HMK2616	-	IR22X26X20	0.0320
26	34	20	21.10	30.50	6000	9000	HMK2620	-	-	0.0400
28	35	16	16.70	26.40	5500	8500	HK2816	-	IR22X28X17	0.0300
28	35	16	17.30	27.60	5500	8500	-	BK2816	IR22X28X17	0.0340
28	35	20	21.30	36.00	5500	8500	HK2820	-	IR22X28X20.5	0.0380
28	35	20	21.30	36.00	5500	8500	-	BK2820	IR22X28X20.5	0.0430
28	37	20	23.60	32.50	5500	8500	HMK2820	-	IR22X28X20.5	0.0490
28	37	30	35.00	54.50	5500	8500	HMK2830	-	-	0.0730
29	38	20	24.60	35.00	5500	8500	HMK2920	-	-	0.0500
29	38	30	34.50	54.00	5500	8500	HMK2930	-	-	0.0750
30	37	12	13.00	19.50	5500	8000	HK3012	-	IR25X30X12.5	0.0240
30	37	12	13.00	19.50	5500	8000	-	BK3012	IR25X30X12.5	0.0280
30	37	16	18.10	30.00	5500	8000	HK3016	-	IR25X30X17	0.0320
30	37	16	18.10	30.00	5500	8000	-	BK3016	IR25X30X17	0.0370
30	37	20	22.30	39.50	5500	8000	HK3020	-	IR25X30X20.5	0.0400
30	37	20	22.30	39.50	5500	8000	-	BK3020	IR25X30X20.5	0.0470
30	37	26	28.50	54.00	5500	8000	HK3026	-	IR25X30X26.5	0.0530
30	37	26	28.50	54.00	5500	8000	-	BK3026	IR25X30X26.5	0.0590
30	37	38	38.50	78.50	5500	8000	HK3038ZWD	-	IR25X30X38.5	0.0760
30	37	38	38.50	78.50	5500	8000	-	BK3038ZWD	IR25X30X38.5	0.0830
30	40	13	14.10	17.10	5500	8000	HMK3013	-	IR25X30X16	0.0400
30	40	15	17.10	22.10	5500	8000	HMK3015	-	IR25X30X16	0.0440
30	40	20	24.20	34.50	5500	8000	HMK3020	-	IR25X30X20.5	0.0580
30	40	25	31.00	47.00	5500	8000	HMK3025	-	IR25X30X26.5	0.0730
30	40	30	36.00	57.50	5500	8000	HMK3030	-	IR25X30X32	0.0870

Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Designation		Appropriate Inner Ring	Mass Approx (kg)
(mm)			(KN)		(rpm)		Open End Design	Closed End Design		
F _w	D	C	Cr	Cor	Grease	Oil				
32	42	20	27.50	38.00	5000	7500	HMK3220	-	-	0.0620
32	42	30	41.50	64.50	5000	7500	HMK3230	-	-	0.0920
35	42	12	14.00	22.80	4700	7000	HK3512	-	-	0.0280
35	42	12	14.00	22.80	4700	7000	-	BK3512	-	0.0330
35	42	16	19.00	33.50	4700	7000	HK3516	-	-	0.0370
35	42	16	19.70	35.00	4700	7000	-	BK3516	-	0.0440
35	42	20	24.80	47.50	4700	7000	HK3520	-	-	0.0460
35	42	20	24.80	47.50	4700	7000	-	BK3520	-	0.0550
35	45	12	14.90	17.60	4700	7000	HMK3512	-	-	0.0400
35	45	15	20.20	26.20	4700	7000	HMK3515	-	-	0.0500
35	45	20	28.40	40.50	4700	7000	HMK3520	-	-	0.0670
35	45	25	36.00	54.50	4700	7000	HMK3525	-	-	0.0830
35	45	30	43.00	69.00	4700	7000	HMK3530	-	-	0.1000
37	47	20	29.30	43.00	4300	6500	HMK3720	-	-	0.0700
37	47	30	44.50	73.00	4300	6500	HMK3730	-	-	0.1050
38	48	15	21.70	29.30	4300	6500	HMK3815	-	-	0.0540
38	48	20	30.50	45.00	4300	6500	HMK3820	-	-	0.0720
38	48	25	38.50	61.00	4300	6500	HMK3825	-	-	0.0900
38	48	30	46.00	77.00	4300	6500	HMK3830	-	IR32X38X32	0.1070
38	48	45	62.00	113.00	4300	6500	HMK3845ZWD	-	-	0.1610
40	47	12	15.10	26.00	4000	6000	HK4012	-	IR35X40X12.5	0.0310
40	47	12	15.10	26.00	4000	6000	-	BK4012	IR35X40X12.5	0.0380
40	47	16	20.30	38.50	4000	6000	HK4016	-	IR35X40X17	0.0410
40	47	16	21.10	40.00	4000	6000	-	BK4016	IR35X40X17	0.0510
40	47	20	25.90	52.50	4000	6000	HK4020	-	IR35X40X20.5	0.0520
40	47	20	25.90	52.50	4000	6000	-	BK4020	IR35X40X20.5	0.0640
40	50	15	23.10	32.50	4000	6000	HMK4015	-	IR35X40X17	0.0560
40	50	20	32.50	50.00	4000	6000	HMK4020	-	IR35X40X20.5	0.0750
40	50	25	41.00	67.50	4000	6000	HMK4025	-	-	0.0940
40	50	30	49.00	85.00	4000	6000	HMK4030	-	IR35X40X34	0.1120



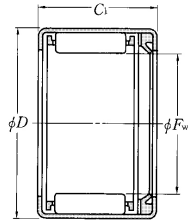
Boundary Dimensions			Basic Load Rating		Limiting Speed		Bearing Designation		Appropriate Inner Ring	Mass Approx (kg)
(mm)			(KN)		(rpm)		Open End Design	Closed End Design		
F _w	D	C	Cr	Cor	Grease	Oil				
40	50	40	58.50	107.00	4000	6000	HMK4040ZWD	-	-	0.1500
45	52	16	21.60	43.00	3700	5500	HK4516	-	IR40X45X17	0.0460
45	52	16	21.60	43.00	3700	5500	-	BK4516	IR40X45X17	0.0580
45	52	20	27.60	59.00	3700	5500	HK4520	-	IR40X45X20.5	0.0580
45	52	20	27.60	59.00	3700	5500	-	BK4520	IR40X45X20.5	0.0720
45	55	20	32.00	51.00	3700	5500	HMK4520	-	IR40X45X20.5	0.0830
45	55	25	41.50	71.50	3700	5500	HMK4525	-	IR40X45X26.5	0.1040
45	55	30	49.50	90.00	3700	5500	HMK4530	-	IR40X45X34	0.1250
45	55	40	59.50	113.00	3700	5500	HMK4540ZWD	-	-	0.1670
50	58	20	31.50	63.00	3200	4800	HK5020	-	IR40X50X22	0.0720
50	58	20	31.50	63.00	3200	4800	-	BK5020	IR40X50X22	0.0870
50	58	25	38.50	82.00	3200	4800	HK5025	-	IR45X50X25.5	0.0900
50	58	25	38.50	82.00	3200	4800	-	BK5025	IR45X50X25.5	0.1090
50	62	12	18.20	23.60	3200	4800	HMK5012	-	-	0.0670
50	62	15	25.90	37.00	3200	4800	HMK5015	-	-	0.0840
50	62	20	37.50	60.00	3200	4800	HMK5020	-	IR40X50X22	0.1120
50	62	25	48.00	82.50	3200	4800	HMK5025	-	IR45X50X25.5	0.1400
50	62	30	58.50	105.00	3200	4800	HMK5030	-	IR45X50X32	0.1680
50	62	40	70.00	134.00	3200	4800	HMK5040ZWD	-	-	0.2240
50	62	45	79.00	156.00	3200	4800	HMK5045ZWD	-	-	0.2520



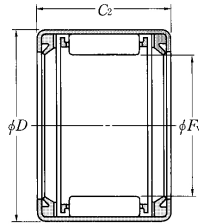
Drawn Cup Needle Roller Bearings Sealed Type



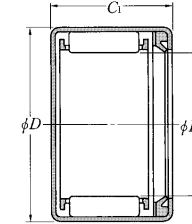
Drawn Cup Needle Roller Bearings Sealed Type



Type HK·RS, Type HMK·RS
(Opened end and single-side seal type)



Type HK·2RS, Type HMK·2RS
(Opened end and double-side seal type)



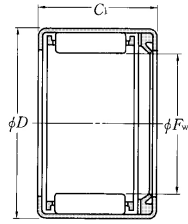
Type BK·RS
(Closed end and single-side seal type)

Boundary Dimensions				Basic Load Rating		Limiting Speed	Bearing Designation			Appropriate Inner Ring		Mass Approx (kg)			
(mm)				(KN)		(rpm)	Open End Single Seal	Open End Double Seal	Closed End Single Seal	Single Seal	Double Seal	Open End Single Seal	Open End Double Seal	Closed End Single Seal	
F _w	D	C ₁	C ₂	Cr	Cor	Grease									
8	15	12	14	3.80	2.87	10000	HMK0812RS	HMK0814.2RS	-	IR5X8X16	IR5X8X16	0.0071	0.0075	-	
10	17	12	14	4.25	3.45	10000	HMK1012RS	HMK1014.2RS	-	IR7X10X16	IR7X10X16	0.0084	0.0089	-	
12	18	14	16	6.60	7.30	10000	HK1214RS	HK1216.2RS	BK1214RS	IR9X12X16	-	0.011	0.0120	0.012	
12	19	14	16	7.10	6.90	10000	HMK1214RS	HMK1216.2RS	-	IR9X12X16	-	0.011	0.0120	-	
14	20	14	16	7.20	8.50	10000	HK1414RS	HK1416.2RS	BK1414RS	IR10X14X16	IR10X14X20	0.012	0.0140	0.014	
14	22	19	22	11.50	12.00	10000	HMK1419RS	HMK1422.2RS	-	IR10X14X20	-	0.020	0.0210	-	
15	21	14	16	7.50	9.10	10000	HK1514RS	HK1516.2RS	BK1514RS	IR12X15X16.5	IR12X15X16.5	0.013	0.0140	0.014	
15	22	13	16	6.10	6.00	10000	HMK1513RS	HMK1516.2RS	-	IR12 X15 X16	IR12X15X16.5	0.014	0.0150	-	
15	22	18	21	10.90	12.70	10000	HMK1518RS	HMK1521.2RS	-	IR12X15X22.5	IR12X15X22.5	0.017	0.0180	-	
16	22	14	16	7.75	9.70	10000	HK1614RS	HK1616.2RS	BK1614RS	IR12X16X16	IR12X16X20	0.013	0.0150	0.015	
16	24	23	26	15.60	18.20	10000	HMK1623RS	HMK1626.2RS	-	-	-	0.028	0.0290	-	
17	24	18	21	12.10	15.00	9500	HMK1718RS	HMK1721.2RS	-	IR12X17X20.5	IR12X17X25.5	0.019	0.0200	-	
18	24	14	16	8.30	10.90	9000	HK1814RS	HK1816.2RS	BK1814RS	IR15X18X16	IR15X18X17.5	0.015	0.0170	0.017	
18	25	18	21	12.00	15.10	9000	HMK1818RS	HMK1821.2RS	-	IR15X18X20.5	IR15X18X25.5	0.020	0.0210	-	
18	25	20	23	13.80	18.00	9000	HMK1820RS	HMK1823.2RS	-	IR15X18X20.5	IR15X18X25.5	0.023	0.0240	-	
19	27	19	22	13.90	16.30	8500	HMK1919RS	HMK1922.2RS	-	IR15X19X20	-	0.027	0.0290	-	
20	26	-	16	9.25	13.00	8000	-	HK2016.2RS	-	-	IR15X20X18	-	0.0190	-	-
20	26	18	20	13.00	20.10	8000	HK2018RS	HK2020.2RS	BK2018RS	IR17X20X20	IR17X20X20.5	0.021	0.0240	0.024	
20	27	18	21	13.00	17.30	8000	HMK2018RS	HMK2021.2RS	-	IR17X20X20	IR15X20X23	0.022	0.0240	-	
20	27	23	26	17.70	25.60	8000	HMK2023RS	HMK2026.2RS	-	IR15X20X26	IR17X20X30.5	0.029	0.0310	-	
22	28	-	16	9.75	14.30	7500	-	HK2216.2RS	-	-	IR17X22X18	-	0.0200	-	-
22	28	18	20	13.60	22.10	7500	HK2218RS	HK2220.2RS	BK2218RS	IR17X22X20.5	IR17X22X23	0.024	0.0260	0.027	
22	29	18	21	13.40	18.50	7500	HMK2218RS	HMK2221.2RS	-	IR17X22X20.5	IR17X22X23	0.024	0.0260	-	
22	29	23	26	18.20	27.40	7500	HMK2223RS	HMK2226.2RS	-	IR17X22X26	-	0.032	0.0330	-	
24	31	23	26	18.30	28.20	6500	HMK2423RS	HMK2426.2RS	-	-	IR20X24X28.5	0.035	0.0370	-	-
25	32	-	16	11.80	16.30	6500	-	HK2516.2RS	-	-	IR20X25X18	-	0.0270	-	-
25	32	18	20	15.90	24.00	6500	HK2518RS	HK2520.2RS	BK2518RS	IR20X25X20	IR20X25X23	0.031	0.0330	0.035	
25	33	18	21	15.20	19.90	6500	HMK2518RS	HMK2521.2RS	-	IR20X25X20	IR20X25X23	0.031	0.034	-	
25	33	23	26	21.80	31.50	6500	HMK2523RS	HMK2526.2RS	-	IR20X25X26.5	IR20X25X26.5	0.041	0.043	-	
28	35	-	20	17.30	27.60	5500	-	HK2820.2RS	-	-	IR22X28X23	-	0.037	-	-

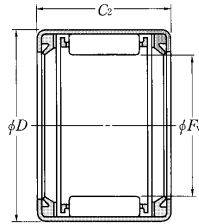
Drawn Cup Needle Roller Bearings Sealed Type



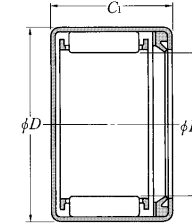
Drawn Cup Needle Roller Bearings Sealed Type



Type HK · · RS , Type HMK · · RS
(Opened end and single-side seal type)



Type HK · · 2RS , Type HMK · · 2RS
(Opened end and double-side seal type)



Type BK · · RS
(Closed end and single-side seal type)

Boundary Dimensions				Basic Load Rating		Limiting Speed	Bearing Designation			Appropriate Inner Ring		Mass Approx (kg)		
(mm)				(KN)		(rpm)	Open End Single Seal	Open End Double Seal	Closed End Single Seal	Single Seal	Double Seal	Open End Single Seal	Open End Double Seal	Closed End Single Seal
F _w	D	C ₁	C ₂	Cr	Cor	Grease								
28	37	23	26	23.60	32.50	5500	HMK2823RS	HMK2826.2RS	-	-	IR22X28X30	0.051	0.054	-
30	37	-	16	13.00	19.50	5500	-	HK3016.2RS	-	-	-	-	0.027	-
30	37	18	20	18.10	30.00	5500	HK3018RS	HK3020.2RS	BK3018RS	IR25X30X20	IR25X30X23	0.037	0.039	0.045
30	40	23	26	24.20	34.50	5500	HMK3023RS	HMK3026.2RS	-	IR25X30X26	IR25X30X26.5	0.061	0.064	-
30	40	28	31	31.00	47.00	5500	HMK3028RS	HMK3031.2RS	-	IR25X30X30	IR25X30X32	0.076	0.078	-
32	42	23	26	27.50	38.00	5000	HMK3223RS	HMK3226.2RS	-	-	IR28X32X30	0.065	0.069	-
35	42	-	16	14.00	22.80	4600	-	HK3516.2RS	-	-	-	-	0.036	-
35	42	18	20	19.70	35.00	4600	HK3518RS	HK3520.2RS	BK3518RS	-	-	0.037	0.040	0.047
35	45	18	21	20.20	26.20	4600	HMK3518RS	HMK3521.2RS	-	-	-	0.053	0.056	-
35	45	28	31	36.00	54.50	4600	HMK3528RS	HMK3531.2RS	-	-	-	0.086	0.089	-
38	48	28	31	38.50	61.00	4200	HMK3828RS	HMK3831.2RS	-	IR32X38X32	IR32X38X32	0.094	0.098	-
40	47	-	16	15.10	26.00	4000	-	HK4016.2RS	-	-	-	-	0.041	-
40	47	18	20	21.10	40.00	4000	HK4018RS	HK4020.2RS	BK4018RS	IR35X40X20	-	0.047	0.050	0.062
40	50	18	21	23.10	32.50	4000	HMK4018RS	HMK4021.2RS	-	IR35X40X20	-	0.060	0.063	-
40	50	28	31	41.00	67.50	4000	HMK4028RS	HMK4031.2RS	-	IR35X40X30	IR32X40X36	0.097	0.100	-
45	52	18	20	21.60	43.00	3600	HK4518RS	HK4520.2RS	BK4518RS	IR40X45X20	-	0.054	0.057	0.072
45	55	23	26	32.00	51.00	3600	HMK4523RS	HMK4526.2RS	-	IR40X45X26.5	IR40X45X26.5	0.087	0.091	-
50	58	22	24	31.50	63.00	3200	HK5022RS	HK5024.2RS	BK5022RS	IR45X50X25	IR45X50X25.5	0.086	0.089	0.104
50	62	28	31	48.00	82.50	3200	HMK5028RS	HMK5031.2RS	-	IR45X50X32	IR45X50X32	0.144	0.149	-