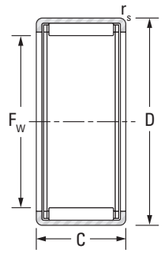
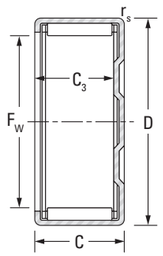
DRAWN CUP NEEDLE ROLLER BEARINGS CAGED, OPEN ENDS, CLOSED ONE END

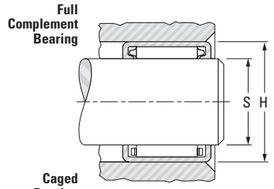
METRIC SERIES
HK, BK SERIES



HK



BK



Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$C_{3\ min.}$	$r_{s\ min.}$	Bearing Designation		Load Ratings Dynamic C	Load Ratings Static C_0	Fatigue Load Limit C_u	Speed Ratings Grease	Speed Ratings Oil	Approx. Wt.	Mounting Dimensions Shaft(h5) Max.	Mounting Dimensions Shaft(h5) Min.	Mounting Dimensions Housing(N6) Max.	Mounting Dimensions Housing(N6) Min.	Inspection gage	Mounting inner ring (pages B-2-28 to B-2-37)
						Open Ends	Closed One End												
mm in	mm in	mm in	mm in	mm in	mm in			kN lbf		kN	min^{-1}		kg lbs	mm in	mm in	mm in	mm in		
3 0.1181	**3** 0.1181	**6.5** 0.2559	**6** 0.236	**5.20** 0.205	**0.30** 0.012	—	BK0306	**1.20** 270	**0.78** 180	0.130	30000	46000	**0.001** 0.002	**3.000** 0.1181	**2.996** 0.118	**6.493** 0.2556	**6.484** 0.2553	Table B2-2	
	3 0.1181	**6.5** 0.2559	**6** 0.236	—	**0.30** 0.012	HK0306	—	**1.20** 270	**0.78** 180	0.130	30000	46000	**0.001** 0.002	**3.000** 0.1181	**2.996** 0.118	**6.493** 0.2556	**6.484** 0.2553	Table B2-2	
4 0.1575	**4** 0.1575	**8** 0.3150	**8** 0.315	**6.40** 0.252	**0.40** 0.016	—	BK0408	**1.88** 423	**1.38** 310	0.200	25000	39000	**0.002** 0.004	**4.000** 0.1575	**3.995** 0.1573	**7.993** 0.3147	**7.984** 0.3143	Table B2-2	
	4 0.1575	**8** 0.3150	**8** 0.315	—	**0.40** 0.016	HK0408	—	**1.88** 420	**1.38** 310	0.200	25000	39000	**0.002** 0.004	**4.000** 0.1575	**3.995** 0.1573	**7.993** 0.3147	**7.984** 0.3143	Table B2-2	
5 0.1969	**5** 0.1969	**9** 0.3543	**9** 0.354	**7.40** 0.291	**0.40** 0.016	—	BK0509	**2.52** 570	**2.07** 470	0.320	23000	36000	**0.002** 0.004	**5.000** 0.1969	**4.995** 0.1967	**8.993** 0.3541	**8.984** 0.3537	Table B2-2	
	5 0.1969	**9** 0.3543	**9** 0.354	—	**0.40** 0.016	HK0509	—	**2.52** 570	**2.07** 470	0.320	23000	36000	**0.002** 0.004	**5.000** 0.1969	**4.995** 0.1967	**8.993** 0.3541	**8.984** 0.3537	Table B2-2	
6 0.2362	**6** 0.2362	**10** 0.3937	**8** 0.315	**6.40** 0.252	**0.40** 0.016	—	BK0608	**2.34** 530	**1.95** 440	0.290	22000	33000	**0.002** 0.004	**6.000** 0.2362	**5.995** 0.236	**9.993** 0.3934	**9.984** 0.3931	Table B2-2	
	6 0.2362	**10** 0.3937	**8** 0.315	—	**0.40** 0.016	HK0608	—	**2.34** 530	**1.95** 440	0.290	22000	33000	**0.002** 0.004	**6.000** 0.2362	**5.995** 0.236	**9.993** 0.3934	**9.984** 0.3931	Table B2-2	
	6 0.2362	**10** 0.3937	**9** 0.354	**7.40** 0.291	**0.40** 0.016	—	BK0609	**3.14** 710	**2.85** 640	0.290	22000	33000	**0.003** 0.007	**6.000** 0.2362	**5.995** 0.236	**9.993** 0.3934	**9.984** 0.3931	Table B2-2	
	6 0.2362	**10** 0.3937	**9** 0.354	—	**0.40** 0.016	HK0609	—	**3.14** 710	**2.85** 640	0.290	22000	33000	**0.002** 0.004	**6.000** 0.2362	**5.995** 0.236	**9.993** 0.3934	**9.984** 0.3931	Table B2-2	
7 0.2756	**7** 0.2756	**11** 0.4331	**9** 0.354	**7.40** 0.291	**0.40** 0.016	—	BK0709	**3.23** 730	**3.05** 690	0.470	21000	32000	**0.003** 0.007	**7.000** 0.2756	**6.994** 0.2754	**10.991** 0.4327	**10.980** 0.4323	Table B2-2	
	7 0.2756	**11** 0.4331	**9** 0.354	—	**0.40** 0.016	HK0709	—	**3.23** 730	**3.05** 690	0.470	21000	32000	**0.003** 0.007	**7.000** 0.2756	**6.994** 0.2754	**10.991** 0.4327	**10.980** 0.4323	Table B2-2	
8 0.3150	**8** 0.3150	**12** 0.4724	**8** 0.315	**6.40** 0.252	**0.40** 0.016	—	BK0808	**2.90** 650	**2.73** 610	0.400	20000	31000	**0.003** 0.007	**8.000** 0.315	**7.994** 0.3147	**11.991** 0.4721	**11.980** 0.4717	Table B2-2	
	8 0.3150	**12** 0.4724	**8** 0.315	—	**0.40** 0.016	HK0808	—	**2.90** 650	**2.73** 610	0.400	20000	31000	**0.003** 0.007	**8.000** 0.315	**7.994** 0.3147	**11.991** 0.4721	**11.980** 0.4717	Table B2-2	
	8 0.3150	**12** 0.4724	**10** 0.394	**8.40** 0.331	**0.40** 0.016	—	BK0810	**3.95** 890	**4.07** 920	0.600	20000	31000	**0.004** 0.009	**8.000** 0.315	**7.994** 0.3147	**11.991** 0.4721	**11.980** 0.4717	Table B2-2	JR5x8x12
	8 0.3150	**12** 0.4724	**10** 0.394	—	**0.40** 0.016	HK0810	—	**3.95** 890	**4.07** 920	0.600	20000	31000	**0.004** 0.009	**8.000** 0.315	**7.994** 0.3147	**11.991** 0.4721	**11.980** 0.4717	Table B2-2	JR5x8x12
9 0.3543	**9** 0.3543	**13** 0.5118	**10** 0.394	**8.40** 0.331	**0.40** 0.016	—	BK0910	**4.57** 1030	**5.07** 1140	0.770	19000	30000	**0.004** 0.009	**9.000** 0.3543	**8.994** 0.3541	**12.991** 0.5115	**12.980** 0.5110	Table B2-2	JR6x9x12

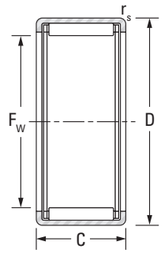
(1) Drawn cup needle roller bearings with two needle roller and cage assemblies and one lubricating hole.

Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$C_{3\ min.}$	$r_{s\ min.}$	Bearing Designation		Load Ratings Dynamic C	Load Ratings Static C_0	Fatigue Load Limit C_u	Speed Ratings Grease	Speed Ratings Oil	Approx. Wt.	Mounting Dimensions Shaft(h5) Max.	Mounting Dimensions Shaft(h5) Min.	Mounting Dimensions Housing(N6) Max.	Mounting Dimensions Housing(N6) Min.	Inspection gage	Mounting inner ring (pages B-2-28 to B-2-37)
						Open Ends	Closed One End												
mm in	mm in	mm in	mm in	mm in	mm in			kN lbf		kN	min^{-1}		kg lbs	mm in	mm in	mm in	mm in		
9 0.3543	**9** 0.3543	**13** 0.5118	**10** 0.394	—	**0.40** 0.016	HK0910	—	**4.57** 1030	**5.07** 1140	0.770	19000	30000	**0.004** 0.009	**9.000** 0.3543	**8.994** 0.3541	**12.991** 0.5115	**12.980** 0.5110	Table B2-2	JR6x9x12
	9 0.3543	**13** 0.5118	**12** 0.472	**10.40** 0.409	**0.40** 0.016	—	BK0912	**5.65** 1270	**6.65** 1490	1.00	19000	30000	**0.005** 0.011	**9.000** 0.3543	**8.994** 0.3541	**12.991** 0.5115	**12.980** 0.5110	Table B2-2	JR6x9x12
	9 0.3543	**13** 0.5118	**12** 0.472	—	**0.40** 0.016	HK0912	—	**5.65** 1270	**6.65** 1490	1.00	19000	30000	**0.005** 0.011	**9.000** 0.3543	**8.994** 0.3541	**12.991** 0.5115	**12.980** 0.5110	Table B2-2	JR6x9x12
10 0.3937	**10** 0.3937	**14** 0.5512	**10** 0.394	**8.40** 0.331	**0.40** 0.016	—	BK1010	**4.78** 1070	**5.51** 1240	0.840	19000	29000	**0.004** 0.009	**10.000** 0.3937	**9.994** 0.3935	**13.991** 0.5508	**13.980** 0.5504	Table B2-2	JR7x10x10,5
	10 0.3937	**14** 0.5512	**10** 0.394	—	**0.40** 0.016	HK1010	—	**4.78** 1070	**5.51** 1240	0.840	19000	29000	**0.004** 0.009	**10.000** 0.3937	**9.994** 0.3935	**13.991** 0.5508	**13.980** 0.5504	Table B2-2	JR7x10x10,5
	10 0.3937	**14** 0.5512	**12** 0.472	**10.40** 0.409	**0.40** 0.016	—	BK1012	**5.90** 1330	**7.23** 1630	1.10	19000	29000	**0.006** 0.013	**10.000** 0.3937	**9.994** 0.3935	**13.991** 0.5508	**13.980** 0.5504	Table B2-2	JR7x10x12
	10 0.3937	**14** 0.5512	**12** 0.472	—	**0.40** 0.016	HK1012	—	**5.90** 1330	**7.23** 1630	1.10	19000	29000	**0.005** 0.011	**10.000** 0.3937	**9.994** 0.3935	**13.991** 0.5508	**13.980** 0.5504	Table B2-2	JR7x10x12
	10 0.3937	**14** 0.5512	**15** 0.591	**13.40** 0.528	**0.40** 0.016	—	BK1015	**7.49** 1680	**9.81** 2210	1.50	19000	29000	**0.006** 0.013	**10.000** 0.3937	**9.994** 0.3935	**13.991** 0.5508	**13.980** 0.5504	Table B2-2	JR7x10x16
	10 0.3937	**14** 0.5512	**15** 0.591	—	**0.40** 0.016	HK1015	—	**7.49** 1680	**9.81** 2210	1.50	19000	29000	**0.006** 0.013	**10.000** 0.3937	**9.994** 0.3935	**13.991** 0.5508	**13.980** 0.5504	Table B2-2	JR7x10x16
12 0.4724	**12** 0.4724	**16** 0.6299	**10** 0.394	**8.40** 0.331	**0.40** 0.016	—	BK1210	**5.24** 1180	**6.55** 1470	0.890	18000	28000	**0.006** 0.013	**12.000** 0.4724	**11.992** 0.4721	**15.991** 0.6296	**15.980** 0.6291	Table B2-2	JR8x12x10,5
	12 0.4724	**16** 0.6299	**10** 0.394	—	**0.40** 0.016	HK1210	—	**5.24** 1180	**6.55** 1470	0.890	18000	28000	**0.006** 0.013	**12.000** 0.4724	**11.992** 0.4721	**15.991** 0.6296	**15.980** 0.6291	Table B2-2	JR8x12x10,5
	12 0.4724	**18** 0.7087	**12** 0.472	**9.30** 0.366	**1** 0.039	—	BK1212	**6.61** 1490	**7.29** 1640	1.10	14000	22000	**0.012** 0.026	**12.000** 0.4724	**11.992** 0.4721	**17.991** 0.7083	**17.980** 0.7079	Table B2-2	JR8x12x12,5
	12 0.4724	**18** 0.7087	**12** 0.472	—	**1** 0.039	HK1212	—	**6.61** 1490	**7.29** 1640	1.10	14000	22000	**0.01** 0.022	**12.000** 0.4724	**11.992** 0.4721	**17.991** 0.7083	**17.980** 0.7079	Table B2-2	JR8x12x12,5
13 0.5118	**13** 0.5118	**19** 0.7480	**12** 0.472	**9.30** 0.366	**1** 0.039	—	BK1312	**6.92** 1560	**7.89** 1770	1.20	14000	22000	**0.012** 0.026	**13.000** 0.5118	**12.992** 0.5115	**18.989** 0.7476	**18.976** 0.7471	Table B2-2	JR10x13x12,5
	13 0.5118	**19** 0.7480	**12** 0.472	—	**1** 0.039	HK1312	—	**6.92** 1560	**7.89** 1770	1.20	14000	22000	**0.01** 0.022	**13.000** 0.5118	**12.992** 0.5115	**18.989** 0.7476	**18.976** 0.7471	Table B2-2	JR10x13x12,5
14 0.5512	**14** 0.5512	**20** 0.7874	**12** 0.472	**9.30** 0.366	**1** 0.039	—	BK1412	**7.21** 1620	**8.50** 1910	1.30	14000	21000	**0.014** 0.031	**14.000** 0.5512	**13.992** 0.5509	**19.989** 0.7870	**19.976** 0.7865	Table B2-2	JR10x14x12
	14 0.5512	**20** 0.7874	**12** 0.472	—	**1** 0.039	HK1412	—	**7.21** 1620	**8.50** 1910	1.30	14000	21000	**0.011** 0.024	**14.000** 0.5512	**13.992** 0.5509	**19.989** 0.7870	**19.976** 0.7865	Table B2-2	JR10x14x12
15 0.5906	**15** 0.5906	**21** 0.8268	**12** 0.472	**9.30** 0.366	**1** 0.039	—	BK1512	**7.49** 1680	**9.11** 2050	1.40	14000	21000	**0.015** 0.033	**15.000** 0.5906	**14.992** 0.5902	**20.989** 0.8263	**20.976** 0.8258	Table B2-2	JR12x15x12,5
	15 0.5906	**21** 0.8268	**12** 0.472	—	**1** 0.039	HK1512	—	**7.49** 1680	**9.11** 2050	1.40	14000	21000	**0.012** 0.026	**15.000** 0.5906	**14.992** 0.5902	**20.989** 0.8263	**20.976** 0.8258	Table B2-2	JR12x15x12,5
	15 0.5906	**21** 0.8268	**16** 0.630	**13.30** 0.524	**1** 0.039	—	BK1516	**10.7** 2410	**14.4** 3240	2.20	14000	21000	**0.019** 0.042	**15.000** 0.5906	**14.992** 0.5902	**20.989** 0.8263	**20.976** 0.8258	Table B2-2	JR12x15x16,5
	15 0.5906	**21** 0.8268	**16** 0.630	—	**1** 0.039	HK1516	—	**10.7** 2410	**14.4** 3240	2.20	14000	21000	**0.018** 0.040	**15.000** 0.5906	**14.992** 0.5902	**20.989** 0.8263	**20.976** 0.8258	Table B2-2	JR12x15x16,5
	15 0.5906	**21** 0.8268	**22** 0.866	**19.30** 0.760	**1** 0.039	—	BK1522(1)	**13.5** 3030	**19.4** 4360	2.95	14000	21000	**0.022** 0.049	**15.000** 0.5906	**14.992** 0.5902	**20.989** 0.8263	**20.976** 0.8258	Table B2-2	JR12x15x22,5
	15 0.5906	**21** 0.8268	**22** 0.866	—	**1** 0.039	HK1522(1)	—	**13.5** 3030	**19.4** 4360	2.95	14000	21000	**0.024** 0.053	**15.000** 0.5906	**14.992** 0.5902	**20.989** 0.8263	**20.976** 0.8258	Table B2-2	JR12x15x22,5
16 0.6299	**16** 0.6299	**22** 0.8661	**12** 0.472	**9.30** 0.366	**1** 0.039	—	BK1612	**7.76** 1740	**9.72** 2190	1.50	14000	21000	**0.016** 0.035	**16.000** 0.6299	**15.992** 0.6296	**21.989** 0.8657	**21.976** 0.8652	Table B2-2	JR12x16x12

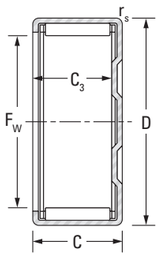
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DRAWN CUP NEEDLE ROLLER BEARINGS CAGED, OPEN ENDS, CLOSED ONE END

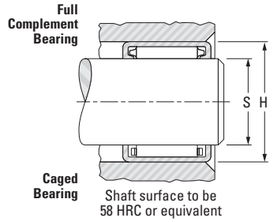
METRIC SERIES
HK, BK SERIES



HK



BK



Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$C_{3\ min.}$	$r_{s\ min.}$	Bearing Designation		Load Ratings Dynamic C	Load Ratings Static C_0	Fatigue Load Limit C_u	Speed Ratings Grease	Speed Ratings Oil	Approx. Wt.	Mounting Dimensions Shaft(h5) Max.	Mounting Dimensions Shaft(h5) Min.	Mounting Dimensions Housing(N6) Max.	Mounting Dimensions Housing(N6) Min.	Inspection gage	Mounting inner ring (pages B-2-28 to B-2-37)
						Open Ends	Closed One End												
mm in	mm in	mm in	mm in	mm in	mm in			kN lbf		kN	min^{-1}		kg lbs	mm in	mm in	mm in	mm in		
16 0.6299	**16** 0.6299	**22** 0.8661	**12** 0.472	— 	**1** 0.039	HK1612	—	**7.76** 1740	**9.72** 2190	1.50	14000	21000	**0.012** 0.026	**16.000** 0.6299	**15.992** 0.6296	**21.989** 0.8657	**21.976** 0.8652	Table B2-2	JR12x16x12
	16 0.6299	**22** 0.8661	**16** 0.630	**13.30** 0.524	**1** 0.039	—	BK1616	**11.1** 2500	**15.3** 3440	2.35	14000	21000	**0.02** 0.044	**16.000** 0.6299	**15.992** 0.6296	**21.989** 0.8657	**21.976** 0.8652	Table B2-2	JR12x16x16
	16 0.6299	**22** 0.8661	**16** 0.630	— 	**1** 0.039	HK1616	—	**11.1** 2500	**15.3** 3440	2.35	14000	21000	**0.016** 0.035	**16.000** 0.6299	**15.992** 0.6296	**21.989** 0.8657	**21.976** 0.8652	Table B2-2	JR12x16x16
	16 0.6299	**22** 0.8661	**22** 0.866	**19.30** 0.760	**1** 0.039	—	BK1622(1)	**13.4** 3010	**19.5** 4380	2.95	14000	21000	**0.028** 0.062	**16.000** 0.6299	**15.992** 0.6296	**21.989** 0.8657	**21.976** 0.8652	Table B2-2	JR12x16x22
	16 0.6299	**22** 0.8661	**22** 0.866	— 	**1** 0.039	HK1622(1)	—	**13.4** 3010	**19.5** 4380	2.95	14000	21000	**0.022** 0.049	**16.000** 0.6299	**15.992** 0.6296	**21.989** 0.8657	**21.976** 0.8652	Table B2-2	JR12x16x22
17 0.6693	**17** 0.6693	**23** 0.9055	**12** 0.472	**9.30** 0.366	**1** 0.039	—	BK1712	**8.12** 1830	**10.4** 2340	1.60	13000	20000	**0.018** 0.040	**17.000** 0.6693	**16.992** 0.6690	**22.989** 0.9051	**22.976** 0.9046	Table B2-2	
	17 0.6693	**23** 0.9055	**12** 0.472	— 	**1** 0.039	HK1712	—	**8.12** 1830	**10.4** 2340	1.60	13000	20000	**0.013** 0.029	**17.000** 0.6693	**16.992** 0.6690	**22.989** 0.9051	**22.976** 0.9046	Table B2-2	
18 0.7087	**18** 0.7087	**24** 0.9449	**12** 0.472	**9.30** 0.366	**1** 0.039	—	BK1812	**8.41** 1890	**11.1** 2500	1.70	12000	18000	**0.017** 0.037	**18.000** 0.7087	**17.992** 0.7083	**23.989** 0.9444	**23.976** 0.9439	Table B2-2	
	18 0.7087	**24** 0.9449	**12** 0.472	— 	**1** 0.039	HK1812	—	**8.41** 1890	**11.1** 2500	1.70	12000	18000	**0.015** 0.033	**18.000** 0.7087	**17.992** 0.7083	**23.989** 0.9444	**23.976** 0.9439	Table B2-2	
	18 0.7087	**24** 0.9449	**16** 0.630	**13.30** 0.524	**1** 0.039	—	BK1816	**11.6** 2610	**16.8** 3780	2.55	12000	18000	**0.022** 0.049	**18.000** 0.7087	**17.992** 0.7083	**23.989** 0.9444	**23.976** 0.9439	Table B2-2	JR15x18x16,5
	18 0.7087	**24** 0.9449	**16** 0.630	— 	**1** 0.039	HK1816	—	**11.6** 2610	**16.8** 3780	2.55	12000	18000	**0.018** 0.040	**18.000** 0.7087	**17.992** 0.7083	**23.989** 0.9444	**23.976** 0.9439	Table B2-2	JR15x18x16,5
20 0.7874	**20** 0.7874	**26** 1.0236	**12** 0.472	**9.3** 0.366	**1** 0.039	—	BK2012	**8.97** 2020	**12.5** 2810	1.90	11000	16000	**0.017** 0.037	**20.000** 0.7874	**19.991** 0.7870	**25.989** 1.0232	**25.976** 1.0227	Table B2-2	JR15x20x12
	20 0.7874	**26** 1.0236	**12** 0.472	— 	**1** 0.039	HK2012	—	**8.97** 2020	**12.5** 2810	1.90	11000	16000	**0.015** 0.033	**20.000** 0.7874	**19.991** 0.7870	**25.989** 1.0232	**25.976** 1.0227	Table B2-2	JR15x20x12
	20 0.7874	**26** 1.0236	**16** 0.630	**13.3** 0.524	**1** 0.039	—	BK2016	**12.4** 2790	**18.9** 4250	2.85	11000	16000	**0.024** 0.053	**20.000** 0.7874	**19.991** 0.7870	**25.989** 1.0232	**25.976** 1.0227	Table B2-2	JR17x20x16,5
	20 0.7874	**26** 1.0236	**16** 0.630	— 	**1** 0.039	HK2016	—	**12.4** 2790	**18.9** 4250	2.85	11000	16000	**0.022** 0.049	**20.000** 0.7874	**19.991** 0.7870	**25.989** 1.0232	**25.976** 1.0227	Table B2-2	JR17x20x16,5
	20 0.7874	**26** 1.0236	**20** 0.787	**17.3** 0.681	**1** 0.039	—	BK2020	**15.5** 3480	**25.3** 5690	3.95	11000	16000	**0.027** 0.060	**20.000** 0.7874	**19.991** 0.7870	**25.989** 1.0232	**25.976** 1.0227	Table B2-2	JR17x20x20,5
	20 0.7874	**26** 1.0236	**20** 0.787	— 	**1** 0.039	HK2020	—	**15.5** 3480	**25.3** 5690	3.95	11000	16000	**0.025** 0.055	**20.000** 0.7874	**19.991** 0.7870	**25.989** 1.0232	**25.976** 1.0227	Table B2-2	JR17x20x20,5

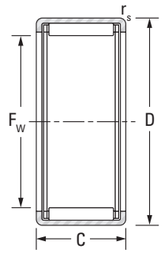
(1) Drawn cup needle roller bearings with two needle roller and cage assemblies and one lubricating hole.

Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$C_{3\ min.}$	$r_{s\ min.}$	Bearing Designation		Load Ratings Dynamic C	Load Ratings Static C_0	Fatigue Load Limit C_u	Speed Ratings Grease	Speed Ratings Oil	Approx. Wt.	Mounting Dimensions Shaft(h5) Max.	Mounting Dimensions Shaft(h5) Min.	Mounting Dimensions Housing(N6) Max.	Mounting Dimensions Housing(N6) Min.	Inspection gage	Mounting inner ring (pages B-2-28 to B-2-37)
						Open Ends	Closed One End												
mm in	mm in	mm in	mm in	mm in	mm in			kN lbf		kN	min^{-1}		kg lbs	mm in	mm in	mm in	mm in		
20 0.7874	**20** 0.7874	**26** 1.0236	**30** 1.181	**27.3** 1.075	**1** 0.039	—	BK2030(1)	**21.2** 4770	**37.8** 8500	5.75	11000	16000	**0.043** 0.095	**20.000** 0.7874	**19.991** 0.7870	**25.989** 1.0232	**25.976** 1.0227	Table B2-2	JR17x20x30,5
	20 0.7874	**26** 1.0236	**30** 1.181	— 	**1** 0.039	HK2030(1)	—	**21.2** 4770	**37.8** 8500	5.75	11000	16000	**0.041** 0.090	**20.000** 0.7874	**19.991** 0.7870	**25.989** 1.0232	**25.976** 1.0227	Table B2-2	JR17x20x30,5
22 0.8661	**22** 0.8661	**28** 1.1024	**10** 0.394	— 	**1** 0.039	HK2210	—	**7.06** 1590	**9.49** 2130	1.45	9600	15000	**0.013** 0.029	**22.000** 0.8661	**21.991** 0.8658	**27.989** 1.1019	**27.976** 1.1014	Table B2-2	
	22 0.8661	**28** 1.1024	**12** 0.472	**9.3** 0.366	**1** 0.039	—	BK2212	**9.81** 2210	**14.5** 3260	2.20	9600	15000	**0.02** 0.044	**22.000** 0.8661	**21.991** 0.8658	**27.989** 1.1019	**27.976** 1.1014	Table B2-2	JR17x22x13
	22 0.8661	**28** 1.1024	**12** 0.472	— 	**1** 0.039	HK2212	—	**9.81** 2210	**14.5** 3260	2.20	9600	15000	**0.015** 0.033	**22.000** 0.8661	**21.991** 0.8658	**27.989** 1.1019	**27.976** 1.1014	Table B2-2	JR17x22x13
	22 0.8661	**28** 1.1024	**16** 0.630	**13.3** 0.524	**1** 0.039	—	BK2216	**13.1** 2940	**20.9** 4700	3.20	9600	15000	**0.027** 0.060	**22.000** 0.8661	**21.991** 0.8658	**27.989** 1.1019	**27.976** 1.1014	Table B2-2	JR17x22x16
	22 0.8661	**28** 1.1024	**16** 0.630	— 	**1** 0.039	HK2216	—	**13.1** 2940	**20.9** 4700	3.20	9600	15000	**0.022** 0.049	**22.000** 0.8661	**21.991** 0.8658	**27.989** 1.1019	**27.976** 1.1014	Table B2-2	JR17x22x16
	22 0.8661	**28** 1.1024	**20** 0.787	**17.3** 0.681	**1** 0.039	—	BK2220	**15.3** 3440	**25.5** 5730	4.00	9600	15000	**0.028** 0.062	**22.000** 0.8661	**21.991** 0.8658	**27.989** 1.1019	**27.976** 1.1014	Table B2-2	JR17x22x23
	22 0.8661	**28** 1.1024	**20** 0.787	— 	**1** 0.039	HK2220	—	**15.3** 3440	**25.5** 5730	4.00	9600	15000	**0.026** 0.057	**22.000** 0.8661	**21.991** 0.8658	**27.989** 1.1019	**27.976** 1.1014	Table B2-2	JR17x22x23
25 0.9843	**25** 0.9843	**32** 1.2598	**12** 0.472	**9.30** 0.366	**1** 0.039	—	BK2512	**10.9** 2450	**14.7** 3300	2.25	8500	13000	**0.025** 0.055	**25.000** 0.9843	**24.991** 0.9839	**31.988** 1.2594	**31.972** 1.2587	Table B2-2	
	25 0.9843	**32** 1.2598	**12** 0.472	— 	**1** 0.039	HK2512	—	**10.9** 2450	**14.7** 3300	2.25	8500	13000	**0.021** 0.046	**25.000** 0.9843	**24.991** 0.9839	**31.988** 1.2594	**31.972** 1.2587	Table B2-2	
	25 0.9843	**32** 1.2598	**16** 0.630	**13.3** 0.524	**1** 0.039	—	BK2516	**15.6** 3510	**23.5** 5280	3.55	8500	13000	**0.031** 0.068	**25.000** 0.9843	**24.991** 0.9839	**31.988** 1.2594	**31.972** 1.2587	Table B2-2	JR20x25x17
	25 0.9843	**32** 1.2598	**16** 0.630	— 	**1** 0.039	HK2516	—	**15.6** 3510	**23.5** 5280	3.55	8500	13000	**0.028** 0.062	**25.000** 0.9843	**24.991** 0.9839	**31.988** 1.2594	**31.972** 1.2587	Table B2-2	JR20x25x17
	25 0.9843	**32** 1.2598	**20** 0.787	**17.3** 0.681	**1** 0.039	—	BK2520	**20.6** 4630	**33.4** 7510	5.30	8500	13000	**0.043** 0.095	**25.000** 0.9843	**24.991** 0.9839	**31.988** 1.2594	**31.972** 1.2587	Table B2-2	JR20x25x20,5
	25 0.9843	**32** 1.2598	**20** 0.787	— 	**1** 0.039	HK2520	—	**20.6** 4630	**33.4** 7510	5.30	8500	13000	**0.040** 0.088	**25.000** 0.9843	**24.991** 0.9839	**31.988** 1.2594	**31.972** 1.2587	Table B2-2	JR20x25x20,5
	25 0.9843	**32** 1.2598	**26** 1.024	**23.3** 0.917	**1** 0.039	—	BK2526	**25.7** 5780	**44.4** 9980	6.95	8500	13000	**0.051** 0.112	**25.000** 0.9843	**24.991** 0.9839	**31.988** 1.2594	**31.972** 1.2587	Table B2-2	JR20x25x26,5
	25 0.9843	**32** 1.2598	**26** 1.024	— 	**1** 0.039	HK2526	—	**25.7** 5780	**44.4** 9980	6.95	8500	13000	**0.046** 0.101	**25.000** 0.9843	**24.991** 0.9839	**31.988** 1.2594	**31.972** 1.2587	Table B2-2	JR20x25x26,5
	25 0.9843	**32** 1.2598	**38** 1.496	**35.3** 1.390	**1** 0.039	—	BK2538(1)	**35.3** 7940	**66.9** 15000	10.6	8500	13000	**0.077** 0.170	**25.000** 0.9843	**24.991** 0.9839	**31.988** 1.2594	**31.972** 1.2587	Table B2-2	JR20x25x38,5
	25 0.9843	**32** 1.2598	**38** 1.496	— 	**1** 0.039	HK2538(1)	—	**35.3** 7940	**66.9** 15000	10.6	8500	13000	**0.068** 0.150	**25.000** 0.9843	**24.991** 0.9839	**31.988** 1.2594	**31.972** 1.2587	Table B2-2	JR20x25x38,5
28 1.1024	**28** 1.1024	**35** 1.3780	**16** 0.630	— 	**1** 0.039	HK2816	—	**17.4** 3910	**28.1** 6320	3.85	7500	12000	**0.032** 0.071	**28.000** 1.1024	**27.991** 1.1020	**34.988** 1.3775	**34.972** 1.3769	Table B2-2	JR22x28x17
	28 1.1024	**35** 1.3780	**20** 0.787	**17.3** 0.681	**1** 0.039	—	BK2820	**20.9** 4700	**35.3** 7940	5.60	7500	12000	**0.047** 0.104	**28.000** 1.1024	**27.991** 1.1020	**34.988** 1.3775	**34.972** 1.3769	Table B2-2	JR22x28x20,5
	28 1.1024	**35** 1.3780	**20** 0.787	— 	**1** 0.039	HK2820	—	**20.9** 4700	**35.3** 7940	5.60	7500	12000	**0.040** 0.088	**28.000** 1.1024	**27.991** 1.1020	**34.988** 1.3775	**34.972** 1.3769	Table B2-2	JR22x28x20,5
30 1.1811	**30** 1.1811	**37** 1.4567	**12** 0.472	**9.3** 0.366	**1** 0.039	—	BK3012	**12.0** 2700	**17.7** 3980	2.90	7000	11000	**0.031** 0.068	**30.000** 1.1811	**29.991** 1.1807	**36.988** 1.4562	**36.972** 1.4556	Table B2-2	
	30 1.1811	**37** 1.4567	**12** 0.472	— 	**1** 0.039	HK3012	—	**12.0** 2700	**17.7** 3980	2.70	7000	11000	**0.024** 0.053	**30.000** 1.1811	**29.991** 1.1807	**36.988** 1.4562	**36.972** 1.4556	Table B2-2	

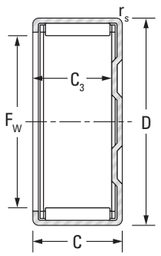
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DRAWN CUP NEEDLE ROLLER BEARINGS CAGED, OPEN ENDS, CLOSED ONE END

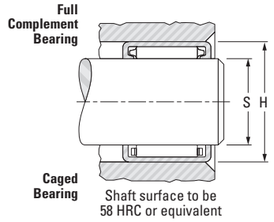
METRIC SERIES
HK, BK SERIES



HK



BK



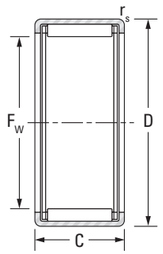
Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$C_{3\ min.}$	$r_{s\ min.}$	Bearing Designation		Load Ratings Dynamic C	Load Ratings Static C_0	Fatigue Load Limit C_u	Speed Ratings Grease	Speed Ratings Oil	Approx. Wt.	Mounting Dimensions Shaft(h5) Max.	Shaft(h5) Min.	Housing(N6) Max.	Housing(N6) Min.	Inspection gage	Mounting inner ring (pages B-2-28 to B-2-37)
						Open Ends	Closed One End												
mm in	mm in	mm in	mm in	mm in	mm in			kN lbf		kN	min^{-1}		kg lbs	mm in	mm in	mm in	mm in		
30 1.1811	**30** 1.1811	**37** 1.4567	**16** 0.630	**13.30** 0.524	**1** 0.039	—	BK3016	**16.8** 3780	**27.3** 6140	4.20	7000	11000	**0.041** 0.090	**30.000** 1.1811	**29.991** 1.1807	**36.988** 1.4562	**36.972** 1.4556	Table B2-2	JR25x30x17
	30 1.1811	**37** 1.4567	**16** 0.630	—	**1** 0.039	HK3016	—	**16.8** 3780	**27.3** 6140	4.20	7000	11000	**0.032** 0.071	**30.000** 1.1811	**29.991** 1.1807	**36.988** 1.4562	**36.972** 1.4556	Table B2-2	JR25x30x17
	30 1.1811	**37** 1.4567	**20** 0.787	**17.3** 0.681	**1** 0.039	—	BK3020	**22.4** 5040	**39.6** 8900	6.25	7000	11000	**0.053** 0.117	**30.000** 1.1811	**29.991** 1.1807	**36.988** 1.4562	**36.972** 1.4556	Table B2-2	JR25x30x20,5
	30 1.1811	**37** 1.4567	**20** 0.787	—	**1** 0.039	HK3020	—	**22.4** 5040	**39.6** 8900	6.25	7000	11000	**0.042** 0.093	**30.000** 1.1811	**29.991** 1.1807	**36.988** 1.4562	**36.972** 1.4556	Table B2-2	JR25x30x20,5
	30 1.1811	**37** 1.4567	**26** 1.024	**23.3** 0.917	**1** 0.039	—	BK3026	**27.4** 6160	**51.2** 11500	7.95	7000	11000	**0.067** 0.148	**30.000** 1.1811	**29.991** 1.1807	**36.988** 1.4562	**36.972** 1.4556	Table B2-2	JR25x30x26,5
	30 1.1811	**37** 1.4567	**26** 1.024	—	**1** 0.039	HK3026	—	**27.4** 6160	**51.2** 11500	7.95	7000	11000	**0.054** 0.119	**30.000** 1.1811	**29.991** 1.1807	**36.988** 1.4562	**36.972** 1.4556	Table B2-2	JR25x30x26,5
	30 1.1811	**37** 1.4567	**38** 1.496	**35.3** 1.390	**1** 0.039	—	BK3038(1)	**38.4** 8630	**79.2** 17800	12.5	7000	11000	**0.093** 0.205	**30.000** 1.1811	**29.991** 1.1807	**36.988** 1.4562	**36.972** 1.4556	Table B2-2	JR25x30x38,5
	30 1.1811	**37** 1.4567	**38** 1.496	—	**1** 0.039	HK3038(1)	—	**38.4** 8630	**79.2** 17800	12.5	7000	11000	**0.075** 0.165	**30.000** 1.1811	**29.991** 1.1807	**36.988** 1.4562	**36.972** 1.4556	Table B2-2	JR25x30x38,5
35 1.3780	**35** 1.3780	**42** 1.6535	**12** 0.472	—	**1** 0.039	HK3512	—	**12.3** 2770	**19.2** 4320	2.90	5900	9100	**0.028** 0.062	**35.000** 1.3780	**34.989** 1.3775	**41.988** 1.6531	**41.972** 1.6524	Table B2-2	
	35 1.3780	**42** 1.6535	**16** 0.630	—	**1** 0.039	HK3516	—	**18.7** 4200	**33.0** 7420	4.60	5900	9100	**0.037** 0.082	**35.000** 1.3780	**34.989** 1.3775	**41.988** 1.6531	**41.972** 1.6524	Table B2-2	JR30x35x17
	35 1.3780	**42** 1.6535	**20** 0.787	**17.3** 0.681	**1** 0.039	—	BK3520	**24.5** 5510	**46.8** 10520	7.40	5900	9100	**0.065** 0.143	**35.000** 1.3780	**34.989** 1.3775	**41.988** 1.6531	**41.972** 1.6524	Table B2-2	JR30x35x20,5
	35 1.3780	**42** 1.6535	**20** 0.787	—	**1** 0.039	HK3520	—	**24.5** 5510	**46.8** 10500	7.40	5900	9100	**0.049** 0.108	**35.000** 1.3780	**34.989** 1.3775	**41.988** 1.6531	**41.972** 1.6524	Table B2-2	JR30x35x20,5
40 1.5748	**40** 1.5748	**47** 1.8504	**12** 0.472	—	**1** 0.039	HK4012	—	**13.4** 3010	**22.4** 5040	3.40	5200	7900	**0.033** 0.073	**40.000** 1.5748	**39.989** 1.5744	**46.988** 1.8499	**46.972** 1.8493	Table B2-2	
	40 1.5748	**47** 1.8504	**16** 0.630	—	**1** 0.039	HK4016	—	**18.9** 4250	**34.8** 7820	5.35	5200	7900	**0.042** 0.093	**40.000** 1.5748	**39.989** 1.5744	**46.988** 1.8499	**46.972** 1.8493	Table B2-2	JR35x40x17
	40 1.5748	**47** 1.8504	**20** 0.787	**17.3** 0.681	**1** 0.039	—	BK4020	**25.1** 5640	**50.4** 11330	8.00	5200	7900	**0.070** 0.154	**40.000** 1.5748	**39.989** 1.5744	**46.988** 1.8499	**46.972** 1.8493	Table B2-2	JR35x40x20,5
	40 1.5748	**47** 1.8504	**20** 0.787	—	**1** 0.039	HK4020	—	**25.1** 5640	**50.4** 11330	8.00	5200	7900	**0.060** 0.132	**40.000** 1.5748	**39.989** 1.5744	**46.988** 1.8499	**46.972** 1.8493	Table B2-2	JR35x40x20,5
45 1.7717	**45** 1.7717	**52** 2.0472	**12** 0.472	—	**1** 0.039	HK4512	—	**14.1** 3170	**24.8** 5580	3.75	4600	7000	**0.036** 0.079	**45.000** 1.7717	**44.989** 1.7712	**51.986** 2.0467	**51.967** 2.0459	Table B2-2	

(1) Drawn cup needle roller bearings with two needle roller and cage assemblies and one lubricating hole.

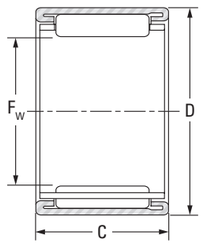
Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$C_{3\ min.}$	$r_{s\ min.}$	Bearing Designation		Load Ratings Dynamic C	Load Ratings Static C_0	Fatigue Load Limit C_u	Speed Ratings Grease	Speed Ratings Oil	Approx. Wt.	Mounting Dimensions Shaft(h5) Max.	Shaft(h5) Min.	Housing(N6) Max.	Housing(N6) Min.	Inspection gage	Mounting inner ring (pages B-2-28 to B-2-37)
						Open Ends	Closed One End												
mm in	mm in	mm in	mm in	mm in	mm in			kN lbf		kN	min^{-1}		kg lbs	mm in	mm in	mm in	mm in		
45 1.7717	**45** 1.7717	**52** 2.0472	**16** 0.630	—	**1** 0.039	HK4516	—	**19.8** 4450	**38.5** 8660	5.95	4600	7000	**0.048** 0.106	**45.000** 1.7717	**44.989** 1.7712	**51.986** 2.0467	**51.967** 2.0459	Table B2-2	JR40x45x17
	45 1.7717	**52** 2.0472	**20** 0.787	**17.3** 0.681	**1** 0.039	—	BK4520	**27.2** 6110	**58.2** 13100	8.80	4600	7000	**0.079** 0.174	**45.000** 1.7717	**44.989** 1.7712	**51.986** 2.0467	**51.967** 2.0459	Table B2-2	JR40x45x20,5
	45 1.7717	**52** 2.0472	**20** 0.787	—	**1** 0.039	HK4520	—	**27.2** 6110	**58.2** 13100	8.80	4600	7000	**0.059** 0.130	**45.000** 1.7717	**44.989** 1.7712	**51.986** 2.0467	**51.967** 2.0459	Table B2-2	JR40x45x20,5
50 1.9685	**50** 1.9685	**58** 2.2835	**12** 0.472	—	**1** 0.039	HK5012	—	**17.0** 3820	**28.7** 6450	4.40	4100	6300	**0.045** 0.099	**50.000** 1.9685	**49.989** 1.9681	**57.986** 2.2829	**57.967** 2.2822	Table B2-2	
	50 1.9685	**58** 2.2835	**20** 0.787	—	**1** 0.039	HK5020	—	**30.9** 6950	**62.2** 14000	8.80	4100	6300	**0.072** 0.159	**50.000** 1.9685	**49.989** 1.9681	**57.986** 2.2829	**57.967** 2.2822	Table B2-2	JR45x50x20
	50 1.9685	**58** 2.2835	**25** 0.984	—	**1** 0.039	HK5025	—	**35.5** 7980	**74.1** 16700	11.7	4100	6300	**0.092** 0.203	**50.000** 1.9685	**49.989** 1.9681	**57.986** 2.2829	**57.967** 2.2822	Table B2-2	JR45x50x25,5
55 2.1654	**55** 2.1654	**63** 2.4803	**20** 0.787	—	**1** 0.039	HK5520	—	**31.0** 6970	**64.4** 14480	10.0	3700	5700	**0.079** 0.174	**55.000** 2.1654	**54.987** 2.1648	**62.986** 2.4798	**62.967** 2.4790	Table B2-2	
60 2.3622	**60** 2.3622	**68** 2.6772	**12** 0.472	—	**1** 0.039	HK6012	—	**18.6** 6110	**34.4** 13100	5.25	3400	5200	**0.060** 0.132	**60.000** 2.3622	**59.987** 2.3617	**67.986** 2.6766	**67.967** 2.6759	Table B2-2	
	60 2.3622	**68** 2.6772	**20** 0.787	—	**1** 0.039	HK6020	—	**35.6** 8000	**79.5** 17870	10.9	3400	5200	**0.090** 0.198	**60.000** 2.3622	**59.987** 2.3617	**67.986** 2.6766	**67.967** 2.6759	Table B2-2	

DRAWN CUP NEEDLE ROLLER BEARINGS CAGED, OPEN ENDS

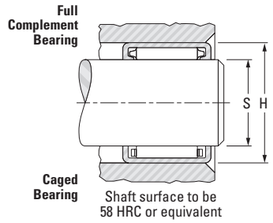
METRIC SERIES
BSM, BKM, BTM, BHTM SERIES



BSM, BKM



BTM, BHTM



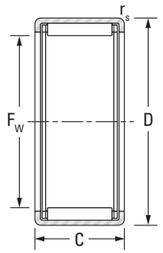
Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$C_{3\ min.}$	$r_{s\ min.}$	Bearing Designation	Load Ratings		Fatigue Load Limit C_u	Speed Ratings		Approx. Wt.	Mounting Dimensions				Inspection gage	Mounting inner ring (pages B-2-28 to B-2-37)
							Dynamic	Static					Shaft(h5)		Housing(N6)			
						Open Ends	C	C_0		Grease	Oil		Max.	Min.	Max.	Min.		
mm in	mm in	mm in	mm in	mm in	mm in		kN lbf		kN	min^{-1}		kg lbs	mm in	mm in	mm in	mm in		
6 0.2362	6	10	9	—	—	6BTM109	2.65 600	2.40 540	0.350	23000	36000	0.003	6.000	5.995	9.993	9.984	Table B2-3	—
8 0.3150	8	12	10	—	—	8BTM1210	3.55 800	3.85 870	0.580	21000	33000	0.004	8.000	7.994	11.991	11.98	Table B2-3	—
	8	15	15	—	—	BHTM815	7.55 1700	6.55 1470	1.00	13000	20000	0.009	8.000	7.994	14.991	14.98	Table B2-3	—
9 0.3543	9	13	10	—	—	9BTM1310A	3.80 850	4.25 960	0.630	21000	32000	0.004	9.000	8.994	12.991	12.98	Table B2-3	—
9.8 0.3858	9.8	13.8	10	—	—	BTM101410A	3.75 840	4.25 960	0.640	21000	32000	0.004	9.800	9.794	13.791	13.78	Table B2-3	—
10 0.3937	10	14	10	—	—	10BTM1410	3.95 890	4.60 1030	0.690	20000	31000	0.004	10.000	9.994	13.991	13.98	Table B2-3	—
	10	17	20	—	—	BHTM1020	11.9 2680	12.6 2830	1.95	12000	19000	0.015	10.000	9.994	16.991	16.98	Table B2-3	—
12 0.4724	12	16	10	—	—	12BTM1610	4.45 1000	5.60 1260	0.860	20000	30000	0.005	12.000	11.992	15.991	15.98	Table B2-3	—
	12	18	12	—	—	12BTM1812	6.55 1470	6.70 1510	1.00	14000	21000	0.009	12.000	11.992	17.991	17.98	Table B2-3	—
13 0.5118	13	17	15	—	—	BKM131715J	5.65 1270	7.85 1760	1.20	20000	30000	0.007	13.000	12.992	16.991	16.98	Table B2-3	—
	13	19	14	—	—	BKM131914J	8.60 1930	9.95 2240	1.50	14000	21000	0.011	13.000	12.992	18.989	18.976	Table B2-3	—
	13	20	12	—	—	13BTM2012J	8.25 1860	8.40 1890	1.30	12000	18000	0.012	13.000	12.992	19.989	19.976	Table B2-3	—
	13	21	14	—	—	BKM132114BJ	10.8 2430	10.5 2360	1.60	10000	16000	0.015	13.000	12.992	20.989	20.976	Table B2-3	—
13.5 0.5315	13.5	19	12	—	—	BTM141912A	6.70 1510	7.60 1710	1.15	14000	22000	0.010	13.500	13.492	18.989	18.976	Table B2-3	—
14 0.5512	14	19	16	—	—	14BTM1916B-1	8.80 1980	11.9 2680	1.80	16000	24000	0.011	14.000	13.992	18.989	18.976	Table B2-3	—
	14	20	12	—	—	14BTM2012	6.95 1560	7.50 1690	1.15	13000	20000	0.010	14.000	13.992	19.989	19.976	Table B2-3	—
14.5 0.5709	14.5	19.5	13.5	—	—	BTM152014A	8.35 1880	10.9 2450	1.65	15000	23000	0.009	14.500	14.492	19.489	19.476	Table B2-3	—

Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$C_{3\ min.}$	$r_{s\ min.}$	Bearing Designation	Load Ratings		Fatigue Load Limit C_u	Speed Ratings		Approx. Wt.	Mounting Dimensions				Inspection gage	Mounting inner ring (pages B-2-28 to B-2-37)
							Dynamic	Static					Shaft(h5)		Housing(N6)			
						Open Ends	C	C_0		Grease	Oil		Max.	Min.	Max.	Min.		
mm in	mm in	mm in	mm in	mm in	mm in		kN lbf		kN	min^{-1}		kg lbs	mm in	mm in	mm in	mm in		
14.975 0.5896	14.975	21	10	—	—	BTM152110JA	5.80 1300	6.25 1410	0.950	13000	20000	0.009	14.975	14.967	20.989	20.976	Table B2-3	—
15 0.5906	15	20	16	—	—	15BTM2016C-2	9.05 2030	12.6 2830	1.90	15000	23000	0.012	15.000	14.992	19.989	19.976	Table B2-3	—
	15	21	16	—	—	15BTM2116	10.8 2430	13.6 3060	2.05	12000	19000	0.014	15.000	14.992	20.989	20.976	Table B2-3	—
	15	21	22	—	—	15BTM2122	14.3 3220	19.5 4380	3.05	12000	19000	0.020	15.000	14.992	20.989	20.976	Table B2-3	—
	15	22	15	—	—	BHTM1515-1	11.9 2680	13.3 2990	2.05	10000	16000	0.015	15.000	14.992	21.989	21.976	Table B2-3	—
17 0.6693	17	21.5	15	—	—	17BTM2215	6.80 1530	9.60 2160	1.45	12000	19000	0.010	17.000	16.992	21.489	21.476	Table B2-3	—
	17	23	12	—	—	BTM172312	8.45 1900	10.2 2290	1.55	13000	20000	0.012	17.000	16.992	22.989	22.976	Table B2-3	—
	17	24	15	—	—	BHTM1715-1	12.4 2790	14.8 3330	2.25	13000	20000	0.017	17.000	16.992	23.989	23.976	Table B2-3	—
	17	24	20	—	—	BHTM1720-1	16.8 3780	21.9 4920	3.40	13000	20000	0.023	17.000	16.992	23.989	23.976	Table B2-3	—
	17	25	15	—	—	BTM172515	13.2 2970	14.9 3350	2.25	13000	20000	0.020	17.000	16.992	24.989	24.976	Table B2-3	—
18 0.7087	18	24	11.6	—	—	18BTM2412	8.75 1970	10.9 2450	1.65	12000	18000	0.012	18.000	17.992	23.989	23.976	Table B2-3	—
	18	24	16	—	—	BTM182416	12.3 2770	16.8 3780	2.55	12000	18000	0.017	18.000	17.992	23.989	23.976	Table B2-3	—
	18	25	20	—	—	BTM1820	16.7 3750	22.0 4950	3.50	12000	19000	0.024	18.000	17.992	24.989	24.976	Table B2-3	—
	18	25	20	—	—	BTM182520	16.8 3780	22.1 4970	3.45	12000	19000	0.024	18.000	17.992	24.989	24.976	Table B2-3	—
20 0.7874	20	26	16	—	—	BTM202616	13.3 2990	19.6 4410	3.00	10000	16000	0.019	20.000	19.991	25.989	25.976	Table B2-3	—
	20	27	20	—	—	BTM202720-2	19.6 4410	27.6 6200	4.35	11000	17000	0.027	20.000	19.991	26.989	26.976	Table B2-3	—
	20	27	25	—	—	BTM2025	24.3 5460	36.4 8180	5.70	11000	17000	0.033	20.000	19.991	26.989	26.976	Table B2-3	—
	20	27	30	—	—	BTM202730	28.1 6320	43.8 9850	6.80	11000	17000	0.040	20.000	19.991	26.989	26.976	Table B2-3	—
21.6 0.8504	21.6	26.645	12.4	—	—	BTM222712A	9.15 2060	13.9 3130	2.10	9800	15000	0.012	21.600	21.591	26.634	26.621	Table B2-3	—
22 0.8661	22	28	12	—	—	22BTM2812	10.0 2250	13.5 3040	2.05	9800	15000	0.014	22.000	21.991	27.989	27.976	Table B2-3	—
24 0.9449	24	30	13	—	—	BTM243013J	10.5 2360	15.7 3530	2.35	9100	14000	0.018	24.000	23.991	29.989	29.976	Table B2-3	—
25 0.9843	25	31	19	—	—	25BTM3119A	17.9 4020	30.1 6770	4.65	8500	13000	0.026	25.000	24.991	30.988	30.972	Table B2-3	—
	25	32	12	—	—	BTM2512	10.2 2290	12.8 2880	1.95	8500	13000	0.019	25.000	24.991	31.988	31.972	Table B2-3	—
	25	33	20	—	—	BHTM2520-1	21.3 4790	29.7 6680	4.60	8500	13000	0.037	25.000	24.991	32.988	32.972	Table B2-3	—

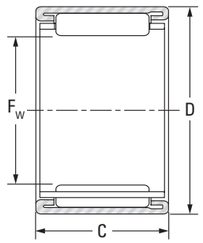
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DRAWN CUP NEEDLE ROLLER BEARINGS CAGED, OPEN ENDS

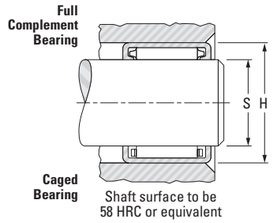
METRIC SERIES
BSM, BKM, BTM, BHTM SERIES



BSM, BKM



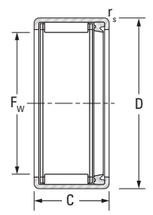
BTM, BHTM



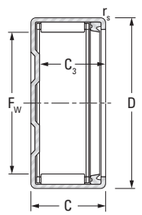
Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$C_{3\ min.}$	$r_{s\ min.}$	Bearing Designation	Load Ratings		Fatigue Load Limit C_u	Speed Ratings		Approx. Wt.	Mounting Dimensions				Inspection gage	Mounting inner ring (pages B-2-28 to B-2-37)
							Dynamic	Static					Shaft(h5)		Housing(N6)			
						Open Ends	C	C_0		Grease	Oil		Max.	Min.	Max.	Min.		
mm in	mm in	mm in	mm in	mm in	mm in		kN lbf		kN	min^{-1}		kg lbs	mm in	mm in	mm in	mm in		
25 0.9843	25	33	30	—	—	BHTM2530-1	31.0 6970	48.0 10790	7.55	8500	13000	0.054	25.000	24.991	32.988	32.972	Table B2-3	—
25.8 1.0157	25.8	33	16	—	—	BTM263316A	15.7 3530	22.4 5040	3.40	8500	13000	0.028	25.800	25.791	32.988	32.972	Table B2-3	—
26 1.0236	26	31.4	12	—	—	BKM263112A	9.45 2120	14.5 3260	2.20	7800	12000	0.014	26.000	25.991	31.388	31.372	Table B2-3	—
28 1.1024	28	33	12	—	—	BTM283312J	9.50 2140	15.8 3550	2.40	7200	11000	0.015	28.000	27.991	32.988	32.972	Table B2-3	—
	28	35	20	—	—	28BTM3520	21.1 4740	33.4 7510	5.20	7800	12000	0.035	28.000	27.991	34.988	34.972	Table B2-3	—
	28	36	20.75	—	—	BTM283621JA	25.3 5690	39.3 8840	6.15	7800	12000	0.044	28.000	27.991	35.988	35.972	Table B2-3	—
	28	37	20	—	—	BTM283720	24.2 5440	33.5 7530	5.30	7800	12000	0.046	28.000	27.991	36.988	36.972	Table B2-3	—
	28	37	30	—	—	BHTM2830	36.3 8160	56.5 12700	8.75	7800	12000	0.069	28.000	27.991	36.988	36.972	Table B2-3	—
30 1.1811	30	37	12	—	—	BTM303712	13.3 2990	18.8 4230	2.90	7200	11000	0.022	30.000	29.991	36.988	36.972	Table B2-3	—
	30	37	16	—	—	30BTM3716BM	18.8 4230	29.3 6590	4.45	7200	11000	0.030	30.000	29.991	36.988	36.972	Table B2-3	—
	30	37	20	—	—	30BTM3720	22.7 5100	40.1 9010	6.35	7200	11000	0.040	30.000	29.991	36.988	36.972	Table B2-3	—
	30	40	25	—	—	BHTM3025-1	32.7 7350	46.8 10520	7.35	7200	11000	0.069	30.000	29.991	39.988	39.972	Table B2-3	—
	30	40	30	—	—	BHTM3030-1A	39.2 8810	59.0 13260	9.15	7200	11000	0.083	30.000	29.991	39.988	39.972	Table B2-3	—
31 1.2205	31	39	17.8	—	—	31BTM3918A	22.9 5150	34.8 7820	5.50	7200	11000	0.039	31.000	30.989	38.988	38.972	Table B2-3	—
32 1.2598	32	38	11	—	—	32BTM3811A	5.40 1210	6.75 1520	1.05	6500	10000	0.017	32.000	31.989	37.988	37.972	Table B2-3	—
	32	42	20	—	—	BHTM3220A	26.1 5870	35.1 7890	5.60	6500	10000	0.058	32.000	31.989	41.988	41.972	Table B2-3	—
	32	42	30	—	—	BHTM3230	40.5 9100	61.9 13920	9.65	6500	10000	0.086	32.000	31.989	41.988	41.972	Table B2-3	—
33.5 1.3189	33.5	40	17	—	—	BTM344017A	18.5 4160	33.5 7530	5.25	6200	9500	0.034	33.500	33.489	39.988	39.972	Table B2-3	—
35 1.3780	35	42	16	—	—	BTM3516	20.3 4560	34.7 7800	5.35	6000	9200	0.035	35.000	34.989	41.988	41.972	Table B2-3	—
	35	45	20	—	—	BHTM3520	28.8 6470	41.7 9370	6.60	6100	9400	0.065	35.000	34.989	44.988	44.972	Table B2-3	—
	35	45	30	—	—	BHTM3530	43.8 9850	71.5 16070	11.2	6100	9400	0.096	35.000	34.989	44.988	44.972	Table B2-3	—
37 1.4567	37	43	12	—	—	37BTM4312A	8.80 1980	13.6 3060	2.05	5600	8600	0.022	37.000	36.989	42.988	42.972	Table B2-3	—
38 1.4961	38	45	12	—	—	BTM384512A	14.2 3190	23.3 5240	3.55	5500	8400	0.029	38.000	37.989	44.988	44.972	Table B2-3	—
	38	48	30	—	—	BTM3830PL	45.6 10250	76.5 17200	11.9	5600	8600	0.102	38.000	37.989	47.988	47.972	Table B2-3	—
40 1.5748	40	51	30	—	—	40BTM5130J	48.6 10930	77.5 17420	12.1	5400	8300	0.112	40.000	39.989	50.986	50.967	Table B2-3	—
41.5 1.6339	41.5	46.5	8.5	—	—	BTM424709AJ	7.75 1740	13.9 3120	2.10	4900	7500	0.015	41.500	41.489	46.488	46.472	Table B2-3	—
42 1.6535	42	53	30	—	—	BTM425330J	51.0 11470	85.0 19110	13.3	5100	7800	0.121	42.000	41.989	52.986	52.967	Table B2-3	—
43.52 1.7134	43.52	48.52	14	—	—	44BTM4914A	13.3 2990	29.0 6520	4.35	4700	7200	0.027	43.520	43.509	48.508	48.492	Table B2-3	—
45 1.7717	45	52	12	—	—	45BTM5212A	15.2 3420	27.3 6140	4.15	4600	7000	0.034	45.000	44.989	51.986	51.967	Table B2-3	—
48 1.8898	48	56	30	—	—	BTM485630J	45.4 10210	100 22480	15.6	4300	6600	0.103	48.000	47.989	55.986	55.967	Table B2-3	—
50 1.9685	50	58	20	—	—	50BTM5820J	31.7 7130	61.9 13920	9.65	4200	6400	0.068	50.000	49.989	57.986	57.967	Table B2-3	—
	50	62	25	—	—	BTM5025	49.3 11080	79.5 17870	12.7	4200	6500	0.125	50.000	49.989	61.986	61.967	Table B2-3	—
55 2.1654	55	63	20	—	—	55BTM6320	32.5 7310	66.0 14840	10.3	3700	5700	0.073	55.000	54.987	62.986	62.967	Table B2-3	—
55.254 2.1754	55.254	60.3	14	—	—	BSM5514BJ-2	16.7 3750	41.0 9220	6.30	3600	5600	0.035	55.254	55.241	60.286	60.267	Table B2-3	—
64 2.5197	64	73.178	21.1	—	—	64BTM7321A	40.3 9060	84.9 19090	13.5	3200	4900	0.110	64.000	63.987	73.164	73.145	Table B2-3	—

DRAWN CUP NEEDLE ROLLER BEARINGS SEALED

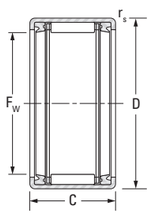
METRIC SERIES
HK RS, BK RS,
HK.2RS SERIES



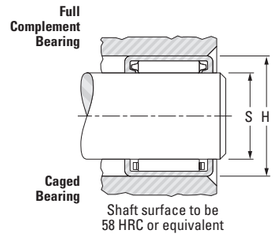
HK RS



BK RS



HK.2RS



Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$C_{3\ min.}$	$r_{s\ min.}$	Bearing Designation		Load Ratings Dynamic C	Load Ratings Static C_0	Fatigue Load Limit C_u	Speed Rating Grease	Approx. Wt.	Mounting Dimensions Shaft(h5) Max.	Mounting Dimensions Shaft(h5) Min.	Mounting Dimensions Housing(N6) Max.	Mounting Dimensions Housing(N6) Min.	Inspection gage	Mounting inner ring (pages B-2-28 to B-2-37)
						Open Ends	Closed One End											
mm in	**mm** in	**mm** in	**mm** in	**mm** in	**mm** in			**kN** lbf		kN	min^{-1}	**kg** lbs	**mm** in	**mm** in	**mm** in	**mm** in		
8 0.3150	**8** 0.3150	**12** 0.4724	**10** 0.394	—	**0.4** 0.016	HK0810RS	—	**2.90** 650	**2.73** 610	0.400	20000	**0.004** 0.009	**8.000** 0.3150	**7.994** 0.3147	**11.991** 0.4721	**11.980** 0.4717	Table B2-2	
10 0.3937	**10** 0.3937	**14** 0.5512	**12** 0.472	—	**0.4** 0.016	HK1012RS	—	**4.78** 1070	**5.51** 1240	0.840	19000	**0.006** 0.013	**10.000** 0.3937	**9.994** 0.3935	**13.991** 0.5508	**13.980** 0.5504	Table B2-2	
12 0.4724	**12** 0.4724	**18** 0.7087	**14** 0.551	—	**1** 0.039	HK1214RS	—	**6.61** 1490	**7.29** 1640	1.10	14000	**0.013** 0.029	**12.000** 0.4724	**11.992** 0.4721	**17.991** 0.7083	**17.980** 0.7079	Table B2-2	
	12 0.4724	**18** 0.7087	**16** 0.630	—	**1** 0.039	HK1216.2RS	—	**6.87** 1540	**7.65** 1720	1.15	14000	**0.016** 0.035	**12.000** 0.4724	**11.992** 0.4721	**17.991** 0.7083	**17.980** 0.7079	Table B2-2	
14 0.5512	**14** 0.5512	**20** 0.7874	**14** 0.551	**11.6** 0.457	**1** 0.039	—	BK1414RS	**7.17** 1610	**8.41** 1890	1.30	14000	**0.014** 0.031	**14.000** 0.5512	**13.992** 0.5509	**19.989** 0.7870	**19.976** 0.7865	Table B2-2	
	14 0.5512	**20** 0.7874	**14** 0.551	—	**1** 0.039	HK1414RS	—	**7.17** 1610	**8.41** 1890	1.30	14000	**0.015** 0.033	**14.000** 0.5512	**13.992** 0.5509	**19.989** 0.7870	**19.976** 0.7865	Table B2-2	JR10x14x16
	14 0.5512	**20** 0.7874	**16** 0.630	—	**1** 0.039	HK1416.2RS	—	**7.17** 1610	**8.41** 1890	1.30	14000	**0.014** 0.031	**14.000** 0.5512	**13.992** 0.5509	**19.989** 0.7870	**19.976** 0.7865	Table B2-2	JR10x14x20
15 0.5906	**15** 0.5906	**21** 0.8268	**14** 0.551	**11.3** 0.445	**1** 0.039	—	BK1514RS	**7.87** 1770	**9.69** 2180	1.45	13000	**0.017** 0.037	**15.000** 0.5906	**14.992** 0.5902	**20.989** 0.8263	**20.976** 0.8258	Table B2-2	JR12x15x16,5
	15 0.5906	**21** 0.8268	**14** 0.551	—	**1** 0.039	HK1514RS	—	**7.87** 1770	**9.69** 2180	1.45	13000	**0.016** 0.035	**15.000** 0.5906	**14.992** 0.5902	**20.989** 0.8263	**20.976** 0.8258	Table B2-2	JR12x15x16,5
	15 0.5906	**21** 0.8268	**16** 0.630	—	**1** 0.039	HK1516.2RS	—	**7.87** 1770	**9.69** 2180	1.45	13000	**0.019** 0.042	**15.000** 0.5906	**14.992** 0.5902	**20.989** 0.8263	**20.976** 0.8258	Table B2-2	JR12x15x16,5
16 0.6299	**16** 0.6299	**22** 0.8661	**14** 0.551	—	**1** 0.039	HK1614RS	—	**7.76** 1740	**9.76** 2190	1.50	12000	**0.014** 0.031	**16.000** 0.6299	**15.992** 0.6296	**21.989** 0.8657	**21.976** 0.8652	Table B2-2	JR12x16x16
	16 0.6299	**22** 0.8661	**16** 0.630	—	**1** 0.039	HK1616.2RS	—	**7.82** 1760	**9.76** 2190	1.50	12000	**0.015** 0.033	**16.000** 0.6299	**15.992** 0.6296	**21.989** 0.8657	**21.976** 0.8652	Table B2-2	JR12x16x20
18 0.7087	**18** 0.7087	**24** 0.9449	**14** 0.551	—	**1** 0.039	HK1814RS	—	**8.41** 1890	**11.10** 2500	1.70	11000	**0.018** 0.040	**18.000** 0.7087	**17.992** 0.7083	**23.989** 0.9444	**23.976** 0.9439	Table B2-2	JR15x18x16,5
	18 0.7087	**24** 0.9449	**16** 0.630	—	**1** 0.039	HK1816.2RS	—	**8.41** 1890	**11.10** 2500	1.70	11000	**0.017** 0.037	**18.000** 0.7087	**17.992** 0.7083	**23.989** 0.9444	**23.976** 0.9439	Table B2-2	JR15x18x16,5
20 0.7874	**20** 0.7874	**26** 1.0236	**16** 0.630	—	**1** 0.039	HK2016.2RS	—	**8.97** 2020	**12.50** 2810	1.90	9700	**0.023** 0.051	**20.000** 0.7874	**19.991** 0.7870	**25.989** 1.0232	**25.976** 1.0227	Table B2-2	JR17x20x16,5
	20 0.7874	**26** 1.0236	**18** 0.709	—	**1** 0.039	HK2018RS	—	**12.40** 2790	**18.90** 4250	2.85	9700	**0.025** 0.055	**20.000** 0.7874	**19.991** 0.7870	**25.989** 1.0232	**25.976** 1.0227	Table B2-2	JR17x20x20,5
	20 0.7874	**26** 1.0236	**20** 0.787	—	**1** 0.039	HK2020.2RS	—	**12.40** 2790	**18.90** 4250	2.85	9700	**0.028** 0.062	**20.000** 0.7874	**19.991** 0.7870	**25.989** 1.0232	**25.976** 1.0227	Table B2-2	JR17x20x20,5
22 0.8661	**22** 0.8661	**28** 1.1024	**16** 0.630	—	**1** 0.039	HK2216.2RS	—	**9.81** 2210	**14.50** 3260	2.20	8800	**0.025** 0.055	**22.000** 0.8661	**21.991** 0.8658	**27.989** 1.1019	**27.976** 1.1014	Table B2-2	
	22 0.8661	**28** 1.1024	**18** 0.709	—	**1** 0.039	HK2218RS	—	**13.10** 2950	**20.90** 4700	3.20	8800	**0.027** 0.060	**22.000** 0.8661	**21.991** 0.8658	**27.989** 1.1019	**27.976** 1.1014	Table B2-2	JR17x22x23
	22 0.8661	**28** 1.1024	**20** 0.787	—	**1** 0.039	HK2220.2RS	—	**13.10** 2950	**20.90** 4700	3.20	8800	**0.026** 0.057	**22.000** 0.8661	**21.991** 0.8658	**27.989** 1.1019	**27.976** 1.1014	Table B2-2	JR17x22x23
25 0.9843	**25** 0.9843	**32** 1.2598	**16** 0.630	—	**1** 0.039	HK2516.2RS	—	**11.10** 2500	**15.10** 3390	2.30	7800	**0.030** 0.066	**25.000** 0.9843	**24.991** 0.9839	**31.988** 1.2594	**31.972** 1.2587	Table B2-2	JR20x25x17
	25 0.9843	**32** 1.2598	**18** 0.709	—	**1** 0.039	HK2518RS	—	**15.6** 3510	**24.60** 5530	3.80	7800	**0.034** 0.075	**25.000** 0.9843	**24.991** 0.9839	**31.988** 1.2594	**31.972** 1.2587	Table B2-2	JR20x25x20,5
	25 0.9843	**32** 1.2598	**20** 0.787	—	**1** 0.039	HK2520.2RS	—	**16.20** 3640	**24.60** 5530	3.80	7800	**0.033** 0.073	**25.000** 0.9843	**24.991** 0.9839	**31.988** 1.2594	**31.972** 1.2587	Table B2-2	JR20x25x20,5
	25 0.9843	**32** 1.2598	**22** 0.866	—	**1** 0.039	HK2522RS	—	**20.60** 4630	**33.40** 7510	5.30	7800	**0.042** 0.093	**25.000** 0.9843	**24.991** 0.9839	**31.988** 1.2594	**31.972** 1.2587	Table B2-2	JR20x25x26
	25 0.9843	**32** 1.2598	**24** 0.945	—	**1** 0.039	HK2524.2RS	—	**20.6** 4630	**33.4** 7510	5.30	7800	**0.047** 0.104	**25.000** 0.9843	**24.991** 0.9839	**31.988** 1.2594	**31.972** 1.2587	Table B2-2	JR20x25x26
28 1.1024	**28** 1.1024	**35** 1.3780	**20** 0.787	—	**1** 0.039	HK2820.2RS	—	**15.9** 3570	**24.9** 5600	3.85	6900	**0.042** 0.093	**28.000** 1.1024	**27.991** 1.1020	**34.988** 1.3775	**34.972** 1.3769	Table B2-2	JR22x28x20,5
30 1.1811	**30** 1.1811	**37** 1.4567	**16** 0.63	—	**1** 0.039	HK3016.2RS	—	**11.6** 2610	**16.8** 3780	2.55	6500	**0.030** 0.066	**30.000** 1.1811	**29.991** 1.1807	**36.988** 1.4562	**36.972** 1.4556	Table B2-2	JR25x30x17
	30 1.1811	**37** 1.4567	**18** 0.709	—	**1** 0.039	HK3018RS	—	**16.8** 3780	**27.3** 6140	4.20	6500	**0.042** 0.093	**30.000** 1.1811	**29.991** 1.1807	**36.988** 1.4562	**36.972** 1.4556	Table B2-2	JR25x30x20,5
	30 1.1811	**37** 1.4567	**20** 0.787	—	**1** 0.039	HK3020.2RS	—	**16.8** 3780	**27.3** 6140	4.20	6500	**0.040** 0.088	**30.000** 1.1811	**29.991** 1.1807	**36.988** 1.4562	**36.972** 1.4556	Table B2-2	JR25x30x20,5
	30 1.1811	**37** 1.4567	**22** 0.866	—	**1** 0.039	HK3022RS	—	**22.4** 5040	**39.6** 8900	6.25	6500	**0.051** 0.112	**30.000** 1.1811	**29.991** 1.1807	**36.988** 1.4562	**36.972** 1.4556	Table B2-2	JR25x30x26
	30 1.1811	**37** 1.4567	**24** 0.945	—	**1** 0.039	HK3024.2RS	—	**22.4** 5040	**39.6** 8900	6.25	6500	**0.057** 0.126	**30.000** 1.1811	**29.991** 1.1807	**36.988** 1.4562	**36.972** 1.4556	Table B2-2	JR25x30x26
35 1.3780	**35** 1.3780	**42** 1.6535	**16** 0.630	—	**1** 0.039	HK3516.2RS	—	**13.4** 3010	**21.4** 4810	3.25	5500	**0.047** 0.104	**35.000** 1.3780	**34.989** 1.3775	**41.988** 1.6531	**41.972** 1.6524	Table B2-2	JR30x35x17
	35 1.3780	**42** 1.6535	**18** 0.709	—	**1** 0.039	HK3518RS	—	**17.4** 3910	**29.9** 6720	4.60	5500	**0.054** 0.119	**35.000** 1.3780	**34.989** 1.3775	**41.988** 1.6531	**41.972** 1.6524	Table B2-2	JR30x35x20,5
	35 1.3780	**42** 1.6535	**20** 0.787	—	**1** 0.039	HK3520.2RS	—	**17.4** 3910	**29.9** 6720	4.60	5500	**0.044** 0.097	**35.000** 1.3780	**34.989** 1.3775	**41.988** 1.6531	**41.972** 1.6524	Table B2-2	JR30x35x20,5
40 1.5748	**40** 1.5748	**47** 1.8504	**16** 0.630	—	**1** 0.039	HK4016.2RS	—	**13.4** 3010	**22.4** 5040	3.40	4900	**0.037** 0.082	**40.000** 1.5748	**39.989** 1.5744	**46.988** 1.8499	**46.972** 1.8493	Table B2-2	JR35x40x20
	40 1.5748	**47** 1.8504	**18** 0.709	—	**1** 0.039	HK4018RS	—	**18.9** 4250	**34.8** 7820	5.35	4900	**0.057** 0.126	**40.000** 1.5748	**39.989** 1.5744	**46.988** 1.8499	**46.972** 1.8493	Table B2-2	JR35x40x20,5
	40 1.5748	**47** 1.8504	**20** 0.787	—	**1** 0.039	HK4020.2RS	—	**18.9** 4250	**34.8** 7820	5.35	4900	**0.053** 0.117	**40.000** 1.5748	**39.989** 1.5744	**46.988** 1.8499	**46.972** 1.8493	Table B2-2	JR35x40x20,5
45 1.7717	**45** 1.7717	**52** 2.0472	**18** 0.709	—	**1** 0.039	HK4518RS	—	**19.8** 4450	**38.5** 8660	5.95	4300	**0.064** 0.141	**45.000** 1.7717	**44.989** 1.7712	**51.986** 2.0467	**51.967** 2.0459	Table B2-2	JR40x45x20,5
	45 1.7717	**52** 2.0472	**20** 0.787	—	**1** 0.039	HK4520.2RS	—	**19.8** 4450	**38.5** 8660	5.95	4300	**0.055** 0.121	**45.000** 1.7717	**44.989** 1.7712	**51.986** 2.0467	**51.967** 2.0459	Table B2-2	JR40x45x20,5
50 1.9685	**50** 1.9685	**58** 2.2835	**22** 0.866	—	**1** 0.039	HK5022RS	—	**28.8** 6470	**56.6** 12700	8.80	3900	**0.097** 0.214	**50.000** 1.9685	**49.989** 1.9681	**57.986** 2.2829	**57.967** 2.2822	Table B2-2	JR45x50x25,5
	50 1.9685	**58** 2.2835	**24** 0.945	—	**1** 0.039	HK5024.2RS	—	**28.8** 6470	**56.6** 12700	8.80	3900	**0.083** 0.183	**50.000** 1.9685	**49.989** 1.9681	**57.986** 2.2829	**57.967** 2.2822	Table B2-2	JR45x50x25,5