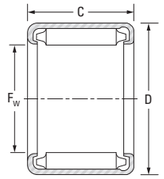
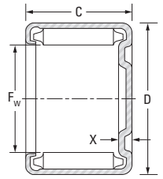
FULL COMPLEMENT BEARINGS
OPEN ENDS, CLOSED ONE END

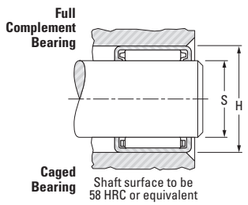
INCH SERIES
B, BH, NB, NBH, M- 1, MH- 1 SERIES



B, BH, NB, NBH



M- 1, MH- 1



Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$X_{max.}$	Bearing Designation		Load Ratings Dynamic	Load Ratings Static	Fatigue Load Limit C_u	Approx. Wt.		Mounting Dimensions Shaft		Mounting Dimensions Housing		Inspection gage	Mounting inner ring (pages B-2-68 to B-2-70)
					Open Ends	Closed One End	C	C_0		Open Ends	Closed One End	Max.	Min.	Max.	Min.		
in	mm in	mm in	mm in	mm in			kN lbf		kN	kg lbs		mm in	mm in	mm in	mm in		
1/8	**3.175** 0.1250	**6.350** 0.2500	**6.35** 0.250	—	B-24	—	**1.73** 390	**1.65** 370	0.24	**0.001** 0.002	—	**3.175** 0.1250	**3.167** 0.1247	**6.363** 0.2505	**6.350** 0.2500	Table B2-6	
5/32	**3.970** 0.1563	**7.142** 0.2812	**6.35** 0.250	—	B-2 1/2 4	—	**2.00** 450	**2.00** 450	0.31	**0.001** 0.002	—	**3.970** 0.1563	**3.962** 0.1560	**7.155** 0.2817	**7.142** 0.2812	Table B2-6	
	3.970 0.1563	**7.142** 0.2812	**7.92** 0.312	—	B-2 1/2 5	—	**2.58** 580	**2.80** 630	0.42	**0.001** 0.003	—	**3.970** 0.1563	**3.962** 0.1560	**7.155** 0.2817	**7.142** 0.2812	Table B2-6	
3/16	**4.763** 0.1875	**8.733** 0.3438	**6.35** 0.250	**1.78** 0.070	B-34	M-341	**2.20** 490	**2.12** 480	0.36	**0.001** 0.003	**0.002** 0.004	**4.763** 0.1875	**4.755** 0.1872	**8.730** 0.3437	**8.717** 0.3432	Table B2-6	
	4.763 0.1875	**8.733** 0.3438	**9.53** 0.375	**1.78** 0.070	B-36	M-361	**3.78** 850	**4.23** 950	0.64	**0.002** 0.005	**0.003** 0.006	**4.763** 0.1875	**4.755** 0.1872	**8.730** 0.3437	**8.717** 0.3432	Table B2-6	
1/4	**6.350** 0.2500	**11.113** 0.4375	**6.35** 0.250	**2.03** 0.080	B-44	M-441	**2.74** 620	**2.63** 590	0.45	**0.002** 0.005	**0.003** 0.006	**6.350** 0.2500	**6.337** 0.2495	**11.125** 0.4380	**11.100** 0.4370	Table B2-6	
	6.350 0.2500	**11.113** 0.4375	**7.92** 0.312	**2.03** 0.080	B-45	M-451	**3.55** 800	**3.68** 830	0.56	**0.003** 0.007	**0.004** 0.008	**6.350** 0.2500	**6.337** 0.2495	**11.125** 0.4380	**11.100** 0.4370	Table B2-6	
	6.350 0.2500	**11.113** 0.4375	**9.53** 0.375	—	B-46	—	**4.55** 1020	**5.06** 1140	0.77	**0.004** 0.008	—	**6.350** 0.2500	**6.337** 0.2495	**11.125** 0.4380	**11.100** 0.4370	Table B2-6	
	6.350 0.2500	**11.113** 0.4375	**11.13** 0.438	**2.03** 0.080	B-47	M-471	**5.51** 1240	**6.46** 1450	0.98	**0.004** 0.009	**0.005** 0.011	**6.350** 0.2500	**6.337** 0.2495	**11.125** 0.4380	**11.100** 0.4370	Table B2-6	
5/16	**7.938** 0.3125	**12.700** 0.5000	**7.92** 0.312	**2.03** 0.080	B-55	M-551	**4.08** 920	**4.60** 1030	0.70	**0.004** 0.008	**0.004** 0.009	**7.938** 0.3125	**7.925** 0.3120	**12.713** 0.5005	**12.687** 0.4995	Table B2-6	
	7.938 0.3125	**12.700** 0.5000	**9.53** 0.375	—	B-56	—	**5.23** 1180	**6.33** 1420	0.97	**0.005** 0.010	—	**7.938** 0.3125	**7.925** 0.3120	**12.713** 0.5005	**12.687** 0.4995	Table B2-6	
	7.938 0.3125	**12.700** 0.5000	**11.13** 0.438	**2.03** 0.080	B-57	M-571	**6.33** 1420	**8.09** 1820	1.20	**0.005** 0.011	**0.006** 0.013	**7.938** 0.3125	**7.925** 0.3120	**12.713** 0.5005	**12.687** 0.4995	Table B2-6	
	7.938 0.3125	**12.700** 0.5000	**14.27** 0.562	—	B-59	—	**8.37** 1880	**11.6** 2600	1.75	**0.006** 0.014	—	**7.938** 0.3125	**7.925** 0.3120	**12.713** 0.5005	**12.687** 0.4995	Table B2-6	
	7.938 0.3125	**14.288** 0.5625	**11.13** 0.438	**2.29** 0.090	BH-57	MH-571	**7.01** 1580	**7.33** 1650	1.10	**0.007** 0.016	**0.008** 0.018	**7.938** 0.3125	**7.925** 0.3120	**14.300** 0.5630	**14.275** 0.5620	Table B2-6	
	7.938 0.3125	**14.288** 0.5625	**14.27** 0.562	—	BH-59	—	**9.46** 2130	**10.8** 2420	1.65	**0.009** 0.020	—	**7.938** 0.3125	**7.925** 0.3120	**14.300** 0.5630	**14.275** 0.5620	Table B2-6	
21/64	**8.331** 0.3280	**14.288** 0.5625	**12.70** 0.500	—	NB-3	—	**8.10** 1820	**9.56** 2150	1.45	**0.008** 0.018	—	**8.331** 0.3280	**8.319** 0.3275	**14.300** 0.5630	**14.275** 0.5620	Table B2-6	
3/8	**9.525** 0.3750	**14.288** 0.5625	**7.92** 0.312	**2.03** 0.080	B-65	M-651	**4.55** 1020	**5.53** 1240	0.84	**0.004** 0.009	**0.005** 0.010	**9.525** 0.3750	**9.512** 0.3745	**14.300** 0.5630	**14.275** 0.5620	Table B2-6	IRA-3
	9.525 0.3750	**14.288** 0.5625	**9.53** 0.375	**2.03** 0.080	B-66	M-661	**5.83** 1310	**7.61** 1710	1.15	**0.005** 0.011	**0.005** 0.012	**9.525** 0.3750	**9.512** 0.3745	**14.300** 0.5630	**14.275** 0.5620	Table B2-6	IRA-3
	9.525 0.3750	**14.288** 0.5625	**11.13** 0.438	—	B-67	—	**7.06** 1590	**9.72** 2190	1.45	**0.006** 0.013	—	**9.525** 0.3750	**9.512** 0.3745	**14.300** 0.5630	**14.275** 0.5620	Table B2-6	IRA-3
	9.525 0.3750	**14.288** 0.5625	**12.70** 0.500	**2.03** 0.080	B-68	M-681	**8.21** 1850	**11.8** 2650	1.80	**0.007** 0.015	**0.008** 0.017	**9.525** 0.3750	**9.512** 0.3745	**14.300** 0.5630	**14.275** 0.5620	Table B2-6	IRA-3
	9.525 0.3750	**14.288** 0.5625	**14.27** 0.562	—	B-69	—	**9.33** 2100	**13.9** 3130	2.10	**0.007** 0.016	—	**9.525** 0.3750	**9.512** 0.3745	**14.300** 0.5630	**14.275** 0.5620	Table B2-6	
	9.525 0.3750	**14.288** 0.5625	**15.88** 0.625	**2.03** 0.080	B-610	M-6101	**10.4** 2340	**16.0** 3590	2.40	**0.008** 0.018	**0.010** 0.021	**9.525** 0.3750	**9.512** 0.3745	**14.300** 0.5630	**14.275** 0.5620	Table B2-6	
	9.525 0.3750	**15.875** 0.6250	**12.70** 0.500	—	BH-68	—	**9.35** 2100	**10.9** 2460	1.65	**0.010** 0.021	—	**9.525** 0.3750	**9.512** 0.3745	**15.888** 0.6255	**15.862** 0.6245	Table B2-6	IRA-3
7/16	**11.113** 0.4375	**15.875** 0.6250	**9.53** 0.375	—	B-76	—	**6.37** 1430	**8.88** 2000	1.35	**0.005** 0.012	—	**11.113** 0.4375	**11.100** 0.4370	**15.888** 0.6255	**15.862** 0.6245	Table B2-6	IRA-4
	11.113 0.4375	**15.875** 0.6250	**11.13** 0.438	—	B-77	—	**7.71** 1730	**11.3** 2550	1.70	**0.007** 0.015	—	**11.113** 0.4375	**11.100** 0.4370	**15.888** 0.6255	**15.862** 0.6245	Table B2-6	IRA-4
	11.113 0.4375	**15.875** 0.6250	**12.70** 0.500	**2.03** 0.080	B-78	M-781	**8.97** 2020	**13.8** 3100	2.10	**0.008** 0.017	**0.009** 0.019	**11.113** 0.4375	**11.100** 0.4370	**15.888** 0.6255	**15.862** 0.6245	Table B2-6	IRA-4
	11.113 0.4375	**15.875** 0.6250	**15.88** 0.625	—	B-710	—	**11.4** 2560	**18.7** 4200	2.80	**0.010** 0.021	—	**11.113** 0.4375	**11.100** 0.4370	**15.888** 0.6255	**15.862** 0.6245	Table B2-6	
	11.113 0.4375	**17.463** 0.6875	**12.70** 0.500	—	BH-78	—	**10.3** 2320	**12.8** 2870	1.95	**0.010** 0.023	—	**11.113** 0.4375	**11.100** 0.4370	**17.475** 0.6880	**17.450** 0.6870	Table B2-6	IRA-4
0.439	**11.151** 0.439	**15.908** 0.6263	**12.70** 0.500	—	NB-38		**9.00** 2020	**13.8** 3100	2.10	**0.032** 0.071	—	**11.151** 0.4390	**11.143** 0.4387	**15.908** 0.6263	**15.9** 0.6260	Table B2-6	
1/2	**12.700** 0.5000	**17.463** 0.6875	**7.92** 0.312	**2.03** 0.080	B-85	M-851	**5.36** 1200	**7.38** 1660	1.15	**0.005** 0.012	**0.006** 0.014	**12.700** 0.5000	**12.687** 0.4995	**17.475** 0.6880	**17.450** 0.6870	Table B2-6	IRA-5
	12.700 0.5000	**17.463** 0.6875	**9.53** 0.375	**2.03** 0.080	B-86	M-861	**6.87** 1540	**10.2** 2290	1.55	**0.006** 0.014	**0.007** 0.016	**12.700** 0.5000	**12.687** 0.4995	**17.475** 0.6880	**17.450** 0.6870	Table B2-6	IRA-5
	12.700 0.5000	**17.463** 0.6875	**11.13** 0.438	**2.03** 0.080	B-87	M-871	**8.31** 1870	**13.0** 2920	1.95	**0.007** 0.016	**0.008** 0.018	**12.700** 0.5000	**12.687** 0.4995	**17.475** 0.6880	**17.450** 0.6870	Table B2-6	IRA-5
	12.700 0.5000	**17.463** 0.6875	**12.70** 0.500	**2.03** 0.080	B-88	—	**9.63** 2160	**15.7** 3530	2.40	**0.009** 0.019	**0.010** 0.021	**12.700** 0.5000	**12.687** 0.4995	**17.475** 0.6880	**17.450** 0.6870	Table B2-6	IRA-5
	12.700 0.5000	**17.463** 0.6875	**12.70** 0.500	**2.03** 0.080	—	M-881	**9.66** 2170	**15.8** 3550	2.40	—	**0.010** 0.021	**12.700** 0.5000	**12.687** 0.4995	**17.475** 0.6880	**17.450** 0.6870	Table B2-6	
	12.700 0.5000	**17.463** 0.6875	**15.88** 0.625	**2.03** 0.080	B-810	M-8101	**12.2** 2750	**21.3** 4800	3.20	**0.010** 0.023	**0.012** 0.026	**12.700** 0.5000	**12.687** 0.4995	**17.475** 0.6880	**17.450** 0.6870	Table B2-6	
	12.700 0.5000	**17.463** 0.6875	**19.05** 0.750	**2.03** 0.080	B-812	M-8121	**14.7** 3300	**26.9** 6050	4.20	**0.013** 0.028	**0.014** 0.031	**12.700** 0.5000	**12.687** 0.4995	**17.475** 0.6880	**17.450** 0.6870	Table B2-6	
	12.700 0.5000	**19.050** 0.7500	**11.13** 0.438	—	BH-87	—	**9.46** 2130	**11.8** 2650	1.80	**0.010** 0.023	—	**12.700** 0.5000	**12.687** 0.4995	**19.063** 0.7505	**19.037** 0.7495	Table B2-6	IRA-5
	12.700 0.5000	**19.050** 0.7500	**12.70** 0.500	—	BH-88	—	**11.2** 2510	**14.6** 3280	2.20	**0.012** 0.026	—	**12.700** 0.5000	**12.687** 0.4995	**19.063** 0.7505	**19.037** 0.7495	Table B2-6	IRA-5
	12.700 0.5000	**19.050** 0.7500	**15.88** 0.625	—	BH-810	—	**14.4** 3230	**20.2** 4540	3.05	**0.015** 0.033	—	**12.700** 0.5000	**12.687** 0.4995	**19.063** 0.7505	**19.037** 0.7495	Table B2-6	
	12.700 0.5000	**19.050** 0.7500	**19.05** 0.750	**2.29** 0.090	BH-812	MH-8121	**17.4** 3910	**25.8** 5790	3.95	**0.018** 0.039	**0.020** 0.044	**12.700** 0.5000	**12.687** 0.4995	**19.063** 0.7505	**19.037** 0.7495	Table B2-6	
9/16	**14.288** 0.5625	**19.050** 0.7500	**7.92** 0.312	**2.03** 0.080	B-95	M-951	**5.72** 1290	**8.31** 1870	1.25	**0.006** 0.013	**0.006** 0.014	**14.288** 0.5625	**14.275** 0.5620	**19.063** 0.7505	**19.037** 0.7495	Table B2-6	IR-68
	14.288 0.5625	**19.050** 0.7500	**9.53** 0.375	**2.03** 0.080	B-96	M-961	**7.33** 1650	**11.4** 2570	1.75	**0.007** 0.015	**0.008** 0.018	**14.288** 0.5625	**14.275** 0.5620	**19.063** 0.7505	**19.037** 0.7495	Table B2-6	IR-68
	14.288 0.5625	**19.050** 0.7500	**11.13** 0.438	**2.03** 0.080	B-97	M-971	**8.87** 1990	**14.6** 3280	2.20	**0.008** 0.018	**0.010** 0.021	**14.288** 0.5625	**14.275** 0.5620	**19.063** 0.7505	**19.037** 0.7495	Table B2-6	IR-68
	14.288 0.5625	**19.050** 0.7500	**12.70** 0.500	**2.03** 0.080	B-98	M-981	**10.3** 2320	**17.7** 3990	2.70	**0.009** 0.020	**0.010** 0.023	**14.288** 0.5625	**14.275** 0.5620	**19.063** 0.7505	**19.037** 0.7495	Table B2-6	IR-68
	14.288 0.5625	**19.050** 0.7500	**15.88** 0.625	**2.03** 0.080	B-910	M-9101	**13.1** 2940	**24.0** 5400	3.60	**0.012** 0.026	**0.013** 0.029	**14.288** 0.5625	**14.275** 0.5620	**19.063** 0.7505	**19.037** 0.7495	Table B2-6	IR-612[1]

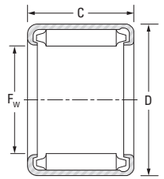
Note) · For information on the speed ratings, contact JTEKT.

(1) IRA inner ring provides additional length if required.

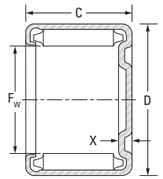
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FULL COMPLEMENT BEARINGS
OPEN ENDS, CLOSED ONE END

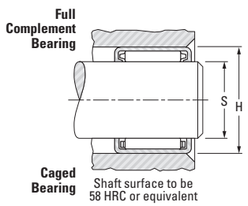
INCH SERIES
B, BH, NB, NBH, M- 1, MH- 1 SERIES



B, BH, NB, NBH



M- 1, MH- 1



Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$X_{max.}$	Bearing Designation		Load Ratings Dynamic	Load Ratings Static	Fatigue Load Limit C_u	Approx. Wt.		Mounting Dimensions Shaft		Mounting Dimensions Housing		Inspection gage	Mounting inner ring (pages B-2-68 to B-2-70)
					Open Ends	Closed One End	C	C_0	C_u	Open Ends	Closed One End	Max.	Min.	Max.	Min.		
in	mm in	mm in	mm in	mm in			kN lbf		kN	kg lbs		mm in	mm in	mm in	mm in		
9/16	14.288 0.5625	19.050 0.7500	19.05 0.750	2.03 0.080	B-912	M-9121	15.6 3510	30.3 6820	4.70	0.014 0.031	0.015 0.034	14.288 0.5625	14.275 0.5620	19.063 0.7505	19.037 0.7495	Table B2-6	IR-612(1)
	14.288 0.5625	20.638 0.8125	12.70 0.500	—	BH-98	—	12.0 2690	16.4 3690	2.50	0.013 0.029	—	14.288 0.5625	14.275 0.5620	20.650 0.8130	20.625 0.8120	Table B2-6	IR-68
	14.288 0.5625	20.638 0.8125	15.88 0.625	—	BH-910	—	15.4 3460	22.7 5110	3.45	0.016 0.036	—	14.288 0.5625	14.275 0.5620	20.650 0.8130	20.625 0.8120	Table B2-6	IR-612(1)
	14.288 0.5625	20.638 0.8125	19.05 0.750	—	BH-912	—	18.6 4190	29.0 6520	4.45	0.020 0.043	—	14.288 0.5625	14.275 0.5620	20.650 0.8130	20.625 0.8120	Table B2-6	IR-612(1)
5/8	15.875 0.6250	20.638 0.8125	7.92 0.312	2.03 0.080	B-105	M-1051	6.05 1360	9.24 2080	1.40	0.006 0.014	0.007 0.016	15.875 0.6250	15.862 0.6245	20.650 0.8130	20.625 0.8120	Table B2-6	IR-68-1
	15.875 0.6250	20.638 0.8125	11.13 0.438	2.03 0.080	B-107	M-1071	9.39 2110	16.2 3650	2.45	0.009 0.020	0.010 0.022	15.875 0.6250	15.862 0.6245	20.650 0.8130	20.625 0.8120	Table B2-6	IR-68-1
	15.875 0.6250	20.638 0.8125	12.70 0.500	2.03 0.080	B-108	M-1081	10.9 2450	19.7 4430	3.00	0.010 0.022	0.012 0.026	15.875 0.6250	15.862 0.6245	20.650 0.8130	20.625 0.8120	Table B2-6	IR-68-1
	15.875 0.6250	20.638 0.8125	15.88 0.625	2.03 0.080	B-1010	M-10101	13.80 3110	26.7 6000	4.00	0.013 0.028	0.015 0.032	15.875 0.6250	15.862 0.6245	20.650 0.8130	20.625 0.8120	Table B2-6	IR-612-1
	15.875 0.6250	20.638 0.8125	19.05 0.750	2.03 0.080	B-1012	M-10121	16.6 3720	33.7 7580	5.25	0.015 0.034	0.017 0.038	15.875 0.6250	15.862 0.6245	20.650 0.8130	20.625 0.8120	Table B2-6	IR-612-1
	15.875 0.6250	22.212 0.8745	12.70 0.500	2.29 0.090	BH-108	MH-1081	12.7 2860	18.3 4110	2.75	0.014 0.031	0.016 0.035	15.875 0.6250	15.862 0.6245	22.238 0.8755	22.212 0.8745	Table B2-6	IR-68-1
	15.875 0.6250	22.212 0.8745	15.88 0.625	—	BH-1010	—	16.4 3680	25.3 5680	3.85	0.018 0.039	—	15.875 0.6250	15.862 0.6245	22.238 0.8755	22.212 0.8745	Table B2-6	IR-612-1
	15.875 0.6250	22.212 0.8745	19.05 0.750	—	BH-1012	—	19.8 4450	32.3 7250	4.95	0.021 0.047	—	15.875 0.6250	15.862 0.6245	22.238 0.8755	22.212 0.8745	Table B2-6	IR-612-1
	15.875 0.6250	22.212 0.8745	25.40 1.000	—	BH-1016	—	26.2 5890	46.2 10390	7.10	0.028 0.062	—	15.875 0.6250	15.862 0.6245	22.238 0.8755	22.212 0.8745	Table B2-6	
11/16	17.463 0.6875	22.212 0.8745	9.53 0.375	2.03 0.080	B-116	M-1161	8.17 1840	14.0 3140	2.15	0.008 0.018	0.009 0.020	17.463 0.6875	17.450 0.6870	22.238 0.8755	22.212 0.8745	Table B2-6	
	17.463 0.6875	22.212 0.8745	12.70 0.500	2.03 0.080	B-118	M-1181	11.5 2580	21.7 4880	3.30	0.011 0.024	0.012 0.027	17.463 0.6875	17.450 0.6870	22.238 0.8755	22.212 0.8745	Table B2-6	
	17.463 0.6875	22.212 0.8745	15.88 0.625	2.03 0.080	B-1110	M-11101	14.6 3270	29.4 6610	4.40	0.014 0.030	0.015 0.034	17.463 0.6875	17.450 0.6870	22.238 0.8755	22.212 0.8745	Table B2-6	
	17.463 0.6875	22.212 0.8745	19.05 0.750	2.03 0.080	B-1112	M-11121	17.4 3920	37.1 8340	5.75	0.016 0.036	0.019 0.041	17.463 0.6875	17.450 0.6870	22.238 0.8755	22.212 0.8745	Table B2-6	
	17.463 0.6875	23.813 0.9375	11.13 0.438	—	BH-117	—	11.4 2560	16.2 3650	2.45	0.014 0.030	—	17.463 0.6875	17.450 0.6870	23.825 0.9380	23.800 0.9370	Table B2-6	
	17.463 0.6875	23.813 0.9375	15.88 0.625	2.29 0.090	BH-1110	MH-11101	17.3 3890	27.8 6250	4.25	0.019 0.042	0.021 0.047	17.463 0.6875	17.450 0.6870	23.825 0.9380	23.800 0.9370	Table B2-6	

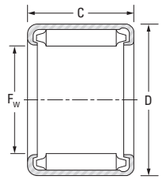
Note) · For information on the speed ratings, contact JTEKT. (1) IRA inner ring provides additional length if required.

Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$X_{max.}$	Bearing Designation		Load Ratings Dynamic	Load Ratings Static	Fatigue Load Limit C_u	Approx. Wt.		Mounting Dimensions Shaft		Mounting Dimensions Housing		Inspection gage	Mounting inner ring (pages B-2-68 to B-2-70)
					Open Ends	Closed One End	C	C_0	C_u	Open Ends	Closed One End	Max.	Min.	Max.	Min.		
in	mm in	mm in	mm in	mm in			kN lbf		kN	kg lbs		mm in	mm in	mm in	mm in		
11/16	17.463 0.6875	23.813 0.9375	19.05 0.750	—	BH-1112	—	20.9 4700	35.5 7980	5.45	0.023 0.051	—	17.463 0.6875	17.450 0.6870	23.825 0.9380	23.800 0.9370	Table B2-6	
3/4	19.050 0.7500	25.400 1.0000	9.53 0.375	2.29 0.090	B-126	M-1261	9.70 2180	13.6 3050	2.10	0.012 0.027	0.014 0.031	19.050 0.7500	19.037 0.7495	25.413 1.0005	25.387 0.9995	Table B2-6	IR-88
	19.050 0.7500	25.400 1.0000	12.70 0.500	2.29 0.090	B-128	M-1281	14.1 3170	22.0 4940	3.30	0.016 0.036	0.019 0.041	19.050 0.7500	19.037 0.7495	25.413 1.0005	25.387 0.9995	Table B2-6	IR-88
	19.050 0.7500	25.400 1.0000	15.88 0.625	2.29 0.090	B-1210	M-12101	18.1 4070	30.4 6830	4.60	0.020 0.045	0.024 0.052	19.050 0.7500	19.037 0.7495	25.413 1.0005	25.387 0.9995	Table B2-6	IR-812(1)
	19.050 0.7500	25.400 1.0000	19.05 0.750	2.29 0.090	B-1212	M-12121	21.9 4930	38.7 8710	5.95	0.024 0.054	0.028 0.062	19.050 0.7500	19.037 0.7495	25.413 1.0005	25.387 0.9995	Table B2-6	IR-812(1)
13/16	20.638 0.8125	26.988 1.0625	9.53 0.375	—	B-136	—	10.1 2280	14.7 3300	2.25	0.013 0.029	—	20.638 0.8125	20.625 0.8120	27.000 1.0630	26.975 1.0620	Table B2-6	
	20.638 0.8125	26.988 1.0625	12.70 0.500	2.29 0.090	B-138	M-1381	14.7 3300	23.8 5350	3.60	0.018 0.039	0.020 0.044	20.638 0.8125	20.625 0.8120	27.000 1.0630	26.975 1.0620	Table B2-6	
	20.638 0.8125	26.988 1.0625	22.23 0.875	2.29 0.090	B-1314	M-13141	26.7 6010	51.1 11490	7.90	0.031 0.068	0.035 0.077	20.638 0.8125	20.625 0.8120	27.000 1.0630	26.975 1.0620	Table B2-6	
	20.638 0.8125	26.988 1.0625	25.40 1.000	2.29 0.090	B-1316	M-13161	30.3 6820	60.2 13530	9.25	0.035 0.078	0.040 0.088	20.638 0.8125	20.625 0.8120	27.000 1.0630	26.975 1.0620	Table B2-6	
	20.638 0.8125	26.988 1.0625	31.75 1.250	—	B-1320	—	37.3 8380	78.4 17620	12.0	0.044 0.098	—	20.638 0.8125	20.625 0.8120	27.000 1.0630	26.975 1.0620	Table B2-6	
	20.638 0.8125	28.575 1.1250	12.70 0.500	2.79 0.110	BH-138	MH-1381	14.8 3330	20.8 4680	3.10	0.023 0.050	0.026 0.057	20.638 0.8125	20.625 0.8120	28.588 1.1255	28.562 1.1245	Table B2-6	
	20.638 0.8125	28.575 1.1250	15.88 0.625	2.79 0.110	BH-1310	MH-13101	19.7 4430	29.9 6720	4.50	0.029 0.063	0.032 0.071	20.638 0.8125	20.625 0.8120	28.588 1.1255	28.562 1.1245	Table B2-6	
	20.638 0.8125	28.575 1.1250	19.05 0.750	2.79 0.110	BH-1312	MH-13121	24.2 5440	39.0 8760	6.10	0.034 0.076	0.039 0.086	20.638 0.8125	20.625 0.8120	28.588 1.1255	28.562 1.1245	Table B2-6	
7/8	22.225 0.8750	28.575 1.1250	9.53 0.375	2.29 0.090	B-146	M-1461	10.6 2380	15.8 3560	2.45	0.014 0.031	0.016 0.035	22.225 0.8750	22.212 0.8745	28.588 1.1255	28.562 1.1245	Table B2-6	
	22.225 0.8750	28.575 1.1250	12.70 0.500	2.29 0.090	B-148	M-1481	15.4 3450	25.6 5760	3.85	0.019 0.042	0.022 0.048	22.225 0.8750	22.212 0.8745	28.588 1.1255	28.562 1.1245	Table B2-6	IR-1012(1)
	22.225 0.8750	28.575 1.1250	19.05 0.750	2.29 0.090	B-1412	M-14121	23.9 5370	45.2 10160	6.95	0.028 0.062	0.032 0.070	22.225 0.8750	22.212 0.8745	28.588 1.1255	28.562 1.1245	Table B2-6	IR-1012(1)
	22.225 0.8750	28.575 1.1250	25.40 1.000	2.29 0.090	B-1416	M-14161	31.6 7100	64.8 14570	10.0	0.038 0.083	0.043 0.094	22.225 0.8750	22.212 0.8745	28.588 1.1255	28.562 1.1245	Table B2-6	IR-1016
	22.225 0.8750	28.575 1.1250	28.58 1.125	—	B-1418	—	35.2 7920	74.6 16770	11.4	0.043 0.094	—	22.225 0.8750	22.212 0.8745	28.588 1.1255	28.562 1.1245	Table B2-6	
	22.225 0.8750	30.163 1.1875	15.88 0.625	2.79 0.110	BH-1410	MH-14101	20.3 4570	32.2 7240	4.85	0.030 0.067	0.035 0.076	22.225 0.8750	22.212 0.8745	30.175 1.1880	30.150 1.1870	Table B2-6	IR-1012(1)
	22.225 0.8750	30.163 1.1875	19.05 0.750	2.79 0.110	BH-1412	MH-14121	25.0 5620	42.0 9440	6.55	0.036 0.080	0.041 0.091	22.225 0.8750	22.212 0.8745	30.175 1.1880	30.150 1.1870	Table B2-6	IR-1012(1)
	22.225 0.8750	30.163 1.1875	25.40 1.000	—	BH-1416	—	33.7 7570	61.6 13850	9.60	0.049 0.107	—	22.225 0.8750	22.212 0.8745	30.175 1.1880	30.150 1.1870	Table B2-6	IR-1016
15/16	23.813 0.9375	30.163 1.1875	12.70 0.500	—	B-158	—	15.9 3580	27.5 6180	4.15	0.020 0.044	—	23.813 0.9375	23.800 0.9370	30.175 1.1880	30.150 1.1870	Table B2-6	
	23.813 0.9375	30.163 1.1875	25.40 1.000	2.29 0.090	B-1516	M-15161	32.8 7370	69.5 15620	10.7	0.040 0.088	0.045 0.100	23.813 0.9375	23.800 0.9370	30.175 1.1880	30.150 1.1870	Table B2-6	
1	25.400 1.0000	31.750 1.2500	9.53 0.375	—	B-166	—	11.3 2550	18.1 4070	2.80	0.016 0.035	—	25.400 1.0000	25.387 0.9995	31.763 1.2505	31.737 1.2495	Table B2-6	IR-128
	25.400 1.0000	31.750 1.2500	11.13 0.438	2.29 0.090	B-167	M-1671	14.0 3140	23.7 5320	3.60	0.019 0.041	0.021 0.046	25.400 1.0000	25.387 0.9995	31.763 1.2505	31.737 1.2495	Table B2-6	IR-128
	25.400 1.0000	31.750 1.2500	12.70 0.5000	2.29 0.090	B-168	M-1681	16.5 3710	29.3 6590	4.45	0.021 0.047	0.024 0.053	25.400 1.0000	25.387 0.9995	31.763 1.2505	31.737 1.2495	Table B2-6	IR-128

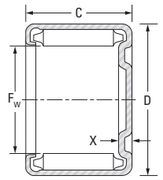
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FULL COMPLEMENT BEARINGS
OPEN ENDS, CLOSED ONE END

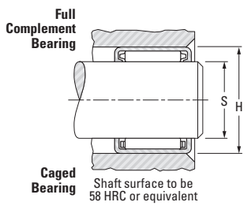
INCH SERIES
B, BH, NB, NBH, M- 1, MH- 1 SERIES



B, BH, NB, NBH



M- 1, MH- 1



Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$X_{max.}$	Bearing Designation		Load Ratings Dynamic	Load Ratings Static	Fatigue Load Limit C_u	Approx. Wt.		Mounting Dimensions Shaft		Mounting Dimensions Housing		Inspection gage	Mounting inner ring (pages B-2-68 to B-2-70)
					Open Ends	Closed One End	C	C_0		Open Ends	Closed One End	Max.	Min.	Max.	Min.		
in	mm in	mm in	mm in	mm in			kN lbf		kN	kg lbs		mm in	mm in	mm in	mm in		
1	**25.400** 1.0000	**31.750** 1.2500	**15.88** 0.625	**2.29** 0.090	B-1610	M-16101	**21.2** 4770	**40.5** 9110	6.15	**0.026** 0.058	**0.030** 0.066	**25.400** 1.0000	**25.387** 0.9995	**31.763** 1.2505	**31.737** 1.2495	Table B2-6	IR-1212
	25.400 1.0000	**31.750** 1.2500	**19.05** 0.750	**2.29** 0.090	B-1612	M-16121	**25.7** 5770	**51.7** 11620	7.95	**0.032** 0.070	**0.036** 0.080	**25.400** 1.0000	**25.387** 0.9995	**31.763** 1.2505	**31.737** 1.2495	Table B2-6	IR-1212
	25.400 1.0000	**31.750** 1.2500	**25.40** 1.000	**2.29** 0.090	B-1616	M-16161	**34.0** 7640	**74.1** 16660	11.4	**0.043** 0.094	**0.048** 0.106	**25.400** 1.0000	**25.387** 0.9995	**31.763** 1.2505	**31.737** 1.2495	Table B2-6	IR-1216(1)
	25.400 1.0000	**33.338** 1.3125	**12.70** 0.500	**2.79** 0.110	BH-168	MH-1681	**16.6** 3740	**25.6** 5760	3.80	**0.027** 0.060	**0.031** 0.068	**25.400** 1.0000	**25.387** 0.9995	**33.350** 1.3130	**33.325** 1.3120	Table B2-6	IR-128
	25.400 1.0000	**33.338** 1.3125	**15.88** 0.625	—	BH-1610	—	**22.0** 4950	**36.8** 8280	5.50	**0.034** 0.075	—	**25.400** 1.0000	**25.387** 0.9995	**33.350** 1.3130	**33.325** 1.3120	Table B2-6	IR-1212
	25.400 1.0000	**33.338** 1.3125	**19.05** 0.750	**2.79** 0.110	BH-1612	MH-16121	**27.1** 6090	**48.0** 10800	7.45	**0.041** 0.090	**0.046** 0.102	**25.400** 1.0000	**25.387** 0.9995	**33.350** 1.3130	**33.325** 1.3120	Table B2-6	IR-1212
	25.400 1.0000	**33.338** 1.3125	**22.23** 0.875	—	BH-1614	—	**31.9** 7170	**59.2** 13300	9.15	**0.048** 0.105	—	**25.400** 1.0000	**25.387** 0.9995	**33.350** 1.3130	**33.325** 1.3120	Table B2-6	IR-1216(1)
	25.400 1.0000	**33.338** 1.3125	**25.40** 1.000	**2.79** 0.110	BH-1616	MH-16161	**36.5** 8200	**70.4** 15830	10.9	**0.054** 0.120	**0.062** 0.136	**25.400** 1.0000	**25.387** 0.9995	**33.350** 1.3130	**33.325** 1.3120	Table B2-6	IR-1216(1)
	25.400 1.0000	**33.338** 1.3125	**31.75** 1.250	—	BH-1620	—	**45.2** 10160	**92.8** 20860	14.2	**0.068** 0.150	—	**25.400** 1.0000	**25.387** 0.9995	**33.350** 1.3130	**33.325** 1.3120	Table B2-6	IR-1220
	25.400 1.0000	**33.338** 1.3125	**38.10** 1.500	**2.79** 0.110	BH-1624	MH-16241	**53.5** 12030	**115** 25900	17.7	**0.082** 0.180	**0.093** 0.204	**25.400** 1.0000	**25.387** 0.9995	**33.350** 1.3130	**33.325** 1.3120	Table B2-6	IR-1224
1 1/16	**26.988** 1.0625	**33.338** 1.3125	**15.88** 0.625	**2.29** 0.090	B-1710	M-17101	**21.9** 4930	**43.1** 9680	6.55	**0.028** 0.062	**0.032** 0.070	**26.988** 1.0625	**26.975** 1.0620	**33.350** 1.3130	**33.325** 1.3120	Table B2-6	
	26.988 1.0625	**34.925** 1.3750	**19.05** 0.750	—	BH-1712	—	**29.5** 6630	**52.4** 11780	8.05	**0.035** 0.078	—	**26.988** 1.0625	**26.975** 1.0620	**34.938** 1.3755	**34.912** 1.3745	Table B2-6	
1 1/8	**28.575** 1.1250	**34.925** 1.3750	**9.53** 0.375	**2.29** 0.090	B-186	M-1861	**12.1** 2720	**20.4** 4580	3.10	**0.018** 0.039	**0.020** 0.044	**28.575** 1.1250	**28.562** 1.1245	**34.938** 1.3755	**34.912** 1.3745	Table B2-6	IR-1416(1)
	28.575 1.1250	**34.925** 1.3750	**12.70** 0.500	**2.29** 0.090	B-188	M-1881	**17.6** 3950	**33.0** 7420	4.95	**0.024** 0.052	**0.027** 0.059	**28.575** 1.1250	**28.562** 1.1245	**34.938** 1.3755	**34.912** 1.3745	Table B2-6	IR-1416(1)
	28.575 1.1250	**34.925** 1.3750	**15.88** 0.625	—	B-1810	—	**22.6** 5080	**45.6** 10250	6.90	**0.029** 0.065	—	**28.575** 1.1250	**28.562** 1.1245	**34.938** 1.3755	**34.912** 1.3745	Table B2-6	IR-1416(1)
	28.575 1.1250	**34.925** 1.3750	**19.05** 0.750	**2.29** 0.090	B-1812	M-18121	**27.3** 6140	**58.2** 13080	8.90	**0.035** 0.078	**0.040** 0.088	**28.575** 1.1250	**28.562** 1.1245	**34.938** 1.3755	**34.912** 1.3745	Table B2-6	IR-1416(1)
	28.575 1.1250	**34.925** 1.3750	**25.40** 1.000	**2.29** 0.090	B-1816	M-18161	**36.1** 8120	**83.4** 18750	12.8	**0.047** 0.104	**0.054** 0.118	**28.575** 1.1250	**28.562** 1.1245	**34.938** 1.3755	**34.912** 1.3745	Table B2-6	IR-1416(1)
	28.575 1.1250	**38.100** 1.5000	**19.05** 0.750	**3.05** 0.120	BH-1812	MH-18121	**31.5** 7090	**52.9** 11900	8.30	**0.056** 0.123	**0.063** 0.138	**28.575** 1.1250	**28.562** 1.1245	**38.113** 1.5005	**38.087** 1.4995	Table B2-6	IR-1416(1)
	28.575 1.1250	**38.100** 1.5000	**25.40** 1.000	**3.05** 0.120	BH-1816	MH-18161	**42.5** 9560	**77.8** 17500	12.0	**0.074** 0.164	**0.084** 0.186	**28.575** 1.1250	**28.562** 1.1245	**38.113** 1.5005	**38.087** 1.4995	Table B2-6	IR-1416(1)
1 1/4	**31.750** 1.2500	**38.100** 1.5000	**12.70** 0.500	**2.29** 0.090	B-208	M-2081	**18.6** 4170	**36.7** 8250	5.50	**0.026** 0.057	**0.029** 0.065	**31.750** 1.2500	**31.737** 1.2495	**38.113** 1.5005	**38.087** 1.4995	Table B2-6	IR-1612
	31.750 1.2500	**38.100** 1.5000	**15.88** 0.625	**2.29** 0.090	B-2010	M-20101	**23.9** 5370	**50.7** 11400	7.70	**0.032** 0.071	**0.044** 0.097	**31.750** 1.2500	**31.737** 1.2495	**38.113** 1.5005	**38.087** 1.4995	Table B2-6	IR-1612
	31.750 1.2500	**38.100** 1.5000	**19.05** 0.750	**2.29** 0.090	B-2012	M-20121	**28.9** 6490	**64.7** 14540	9.90	**0.039** 0.086	**0.045** 0.099	**31.750** 1.2500	**31.737** 1.2495	**38.113** 1.5005	**38.087** 1.4995	Table B2-6	IR-1612
	31.750 1.2500	**38.100** 1.5000	**25.40** 1.000	**2.29** 0.090	B-2016	M-20161	**38.2** 8590	**92.7** 20840	14.2	**0.052** 0.114	**0.059** 0.130	**31.750** 1.2500	**31.737** 1.2495	**38.113** 1.5005	**38.087** 1.4995	Table B2-6	IR-1616(1)
	31.750 1.2500	**38.100** 1.5000	**31.75** 1.250	**2.29** 0.090	B-2020	M-20201	**46.9** 10540	**121** 27200	18.4	**0.065** 0.143	**0.073** 0.162	**31.750** 1.2500	**31.737** 1.2495	**38.113** 1.5005	**38.087** 1.4995	Table B2-6	
	31.750 1.2500	**41.275** 1.6250	**12.70** 0.500	**3.05** 0.120	BH-208	MH-2081	**19.7** 4420	**30.0** 6750	4.50	**0.041** 0.090	**0.046** 0.102	**31.750** 1.2500	**31.737** 1.2495	**41.288** 1.6255	**41.262** 1.6245	Table B2-6	IR-1612
	31.750 1.2500	**41.275** 1.6250	**19.05** 0.750	**3.05** 0.120	BH-2012	MH-20121	**33.1** 7440	**58.6** 13170	9.10	**0.061** 0.135	**0.069** 0.153	**31.750** 1.2500	**31.737** 1.2495	**41.288** 1.6255	**41.262** 1.6245	Table B2-6	IR-1612
	31.750 1.2500	**41.275** 1.6250	**25.40** 1.000	**3.05** 0.120	BH-2016	MH-20161	**44.9** 10100	**86.6** 19470	13.4	**0.081** 0.179	**0.092** 0.203	**31.750** 1.2500	**31.737** 1.2495	**41.288** 1.6255	**41.262** 1.6245	Table B2-6	IR-1616(1)
	31.750 1.2500	**41.275** 1.6250	**31.75** 1.250	**3.05** 0.120	BH-2020	MH-20201	**55.9** 12570	**115** 25800	17.6	**0.102** 0.224	**0.115** 0.254	**31.750** 1.2500	**31.737** 1.2495	**41.288** 1.6255	**41.262** 1.6245	Table B2-6	
1 5/16	**33.338** 1.3125	**41.275** 1.6250	**12.70** 0.500	**2.79** 0.110	B-218	M-2181	**19.3** 4330	**33.7** 7570	5.00	**0.034** 0.076	**0.039** 0.086	**33.338** 1.3125	**33.325** 1.3120	**41.288** 1.6255	**41.262** 1.6245	Table B2-6	
	33.338 1.3125	**41.275** 1.6250	**15.88** 0.625	**2.79** 0.110	B-2110	M-21101	**25.5** 5740	**48.4** 10880	7.25	**0.043** 0.095	**0.049** 0.108	**33.338** 1.3125	**33.325** 1.3120	**41.288** 1.6255	**41.262** 1.6245	Table B2-6	
	33.338 1.3125	**41.275** 1.6250	**31.75** 1.250	—	B-2120	—	**52.6** 11820	**123** 27650	18.8	**0.087** 0.191	—	**33.338** 1.3125	**33.325** 1.3120	**41.288** 1.6255	**41.262** 1.6245	Table B2-6	
1 3/8	**34.925** 1.3750	**41.275** 1.6250	**12.70** 0.500	**2.29** 0.090	B-228	M-2281	**19.5** 4390	**40.3** 9060	6.05	**0.028** 0.062	**0.032** 0.070	**34.925** 1.3750	**34.912** 1.3745	**41.288** 1.6255	**41.262** 1.6245	Table B2-6	IR-1812
	34.925 1.3750	**41.275** 1.6250	**19.05** 0.750	**2.29** 0.090	B-2212	M-22121	**30.4** 6830	**71.2** 16000	10.9	**0.043** 0.094	**0.049** 0.107	**34.925** 1.3750	**34.912** 1.3745	**41.288** 1.6255	**41.262** 1.6245	Table B2-6	IR-1812
	34.925 1.3750	**41.275** 1.6250	**25.40** 1.000	**2.29** 0.090	B-2216	M-22161	**40.2** 9030	**102** 22900	15.7	**0.057** 0.125	**0.064** 0.142	**34.925** 1.3750	**34.912** 1.3745	**41.288** 1.6255	**41.262** 1.6245	Table B2-6	IR-1816
	34.925 1.3750	**41.275** 1.6250	**31.75** 1.250	**2.29** 0.090	B-2220	M-22201	**49.3** 11080	**133** 29900	20.3	**0.071** 0.156	**0.080** 0.177	**34.925** 1.3750	**34.912** 1.3745	**41.288** 1.6255	**41.262** 1.6245	Table B2-6	IR-1820
	34.925 1.3750	**44.450** 1.7500	**12.70** 0.500	—	BH-228	—	**21.2** 4770	**33.5** 7540	5.15	**0.044** 0.098	—	**34.925** 1.3750	**34.912** 1.3745	**44.463** 1.7505	**44.437** 1.7495	Table B2-6	IR-1812
	34.925 1.3750	**44.450** 1.7500	**15.88** 0.625	—	BH-2210	—	**28.5** 6410	**48.9** 11000	7.45	**0.055** 0.122	—	**34.925** 1.3750	**34.912** 1.3745	**44.463** 1.7505	**44.437** 1.7495	Table B2-6	IR-1812
	34.925 1.3750	**44.450** 1.7500	**19.05** 0.750	**3.05** 0.120	BH-2212	MH-22121	**35.3** 7930	**64.3** 14450	10.0	**0.066** 0.146	**0.075** 0.165	**34.925** 1.3750	**34.912** 1.3745	**44.463** 1.7505	**44.437** 1.7495	Table B2-6	IR-1812
	34.925 1.3750	**44.450** 1.7500	**25.40** 1.000	**3.05** 0.120	BH-2216	MH-22161	**47.6** 10700	**94.8** 21300	14.7	**0.088** 0.195	**0.100** 0.221	**34.925** 1.3750	**34.912** 1.3745	**44.463** 1.7505	**44.437** 1.7495	Table B2-6	IR-1816
	34.925 1.3750	**44.450** 1.7500	**31.75** 1.250	—	BH-2220	—	**59.4** 13350	**126** 28300	19.4	**0.111** 0.244	**0.125** 0.276	**34.925** 1.3750	**34.912** 1.3745	**44.463** 1.7505	**44.437** 1.7495	Table B2-6	IR-1820
1 1/2	**38.100** 1.5000	**47.625** 1.8750	**12.70** 0.500	**3.05** 0.120	B-248	M-2481	**22.3** 5020	**37.1** 8340	5.60	**0.048** 0.105	**0.054** 0.119	**38.100** 1.5000	**38.087** 1.4995	**47.638** 1.8755	**47.612** 1.8745	Table B2-6	IR-1916
	38.100 1.5000	**47.625** 1.8750	**15.88** 0.625	**3.05** 0.120	B-2410	M-24101	**29.9** 6720	**53.9** 12120	8.10	**0.060** 0.132	**0.068** 0.150	**38.100** 1.5000	**38.087** 1.4995	**47.638** 1.8755	**47.612** 1.8745	Table B2-6	IR-1916

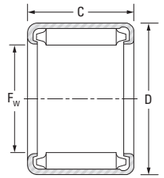
Note) · For information on the speed ratings, contact JTEKT.

(1) IRA inner ring provides additional length if required.

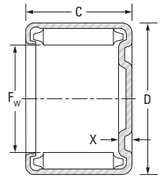
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FULL COMPLEMENT BEARINGS
OPEN ENDS, CLOSED ONE END

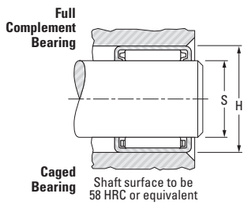
INCH SERIES
B, BH, NB, NBH, M- 1, MH- 1 SERIES



B, BH, NB, NBH



M- 1, MH- 1



Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$X_{max.}$	Bearing Designation		Load Ratings Dynamic	Load Ratings Static	Fatigue Load Limit C_u	Approx. Wt.		Mounting Dimensions Shaft		Mounting Dimensions Housing		Inspection gage	Mounting inner ring (pages B-2-68 to B-2-70)
					Open Ends	Closed One End	C	C_0		Open Ends	Closed One End	Max.	Min.	Max.	Min.		
in	mm in	mm in	mm in	mm in			kN lbf		kN	kg lbs		mm in	mm in	mm in	mm in		
$1\frac{1}{2}$	**38.100** 1.5000	**47.625** 1.8750	**19.05** 0.750	**3.05** 0.120	B-2412	M-24121	**36.9** 8290	**70.7** 15900	11.1	**0.072** 0.158	**0.081** 0.179	**38.100** 1.5000	**38.087** 1.4995	**47.638** 1.8755	**47.612** 1.8745	Table B2-6	IR-1916
	38.100 1.5000	**47.625** 1.8750	**22.23** 0.875	**3.05** 0.120	B-2414	M-24141	**43.5** 9780	**87.5** 19670	13.6	**0.083** 0.184	**0.095** 0.209	**38.100** 1.5000	**38.087** 1.4995	**47.638** 1.8755	**47.612** 1.8745	Table B2-6	IR-1916
	38.100 1.5000	**47.625** 1.8750	**25.40** 1.000	**3.05** 0.120	B-2416	M-24161	**49.7** 11170	**104** 23380	16.1	**0.096** 0.211	**0.108** 0.239	**38.100** 1.5000	**38.087** 1.4995	**47.638** 1.8755	**47.612** 1.8745	Table B2-6	IR-1916
	38.100 1.5000	**47.625** 1.8750	**31.75** 1.250	**3.05** 0.120	B-2420	M-24201	**62.0** 13940	**138** 31000	21.2	**0.119** 0.263	**0.135** 0.298	**38.100** 1.5000	**38.087** 1.4995	**47.638** 1.8755	**47.612** 1.8745	Table B2-6	IR-1920
$1\frac{5}{8}$	**41.275** 1.6250	**50.800** 2.0000	**12.70** 0.500	—	B-268	—	**22.7** 5100	**39.2** 8820	5.85	**0.051** 0.113	—	**41.275** 1.6250	**41.262** 1.6245	**50.813** 2.0005	**50.787** 1.9995	Table B2-6	IR-2020(1)
	41.275 1.6250	**50.800** 2.0000	**15.88** 0.625	**3.05** 0.120	B-2610	M-26101	**30.6** 6890	**57.4** 12900	8.60	**0.064** 0.141	**0.073** 0.160	**41.275** 1.6250	**41.262** 1.6245	**50.813** 2.0005	**50.787** 1.9995	Table B2-6	IR-2020(1)
	41.275 1.6250	**50.800** 2.0000	**25.40** 1.000	—	B-2616	—	**51.4** 11550	**112** 25200	17.4	**0.103** 0.226	—	**41.275** 1.6250	**41.262** 1.6245	**50.813** 2.0005	**50.787** 1.9995	Table B2-6	IR-2020(1)
	41.275 1.6250	**50.800** 2.0000	**31.75** 1.250	**3.05** 0.120	B-2620	M-26201	**64.0** 14400	**148** 33270	22.9	**0.128** 0.282	**0.145** 0.320	**41.275** 1.6250	**41.262** 1.6245	**50.813** 2.0005	**50.787** 1.9995	Table B2-6	IR-2220(1)
$1\frac{3}{4}$	**44.450** 1.7500	**53.975** 2.1250	**19.05** 0.750	**3.05** 0.120	B-2812	M-28121	**39.3** 8830	**81.5** 18320	12.8	**0.082** 0.181	**0.093** 0.205	**44.450** 1.7500	**44.437** 1.7495	**53.988** 2.1255	**53.962** 2.1245	Table B2-6	IR-2316
	44.450 1.7500	**53.975** 2.1250	**25.40** 1.000	**3.05** 0.120	B-2816	M-28161	**53.3** 11980	**121** 27100	18.8	**0.110** 0.242	**0.124** 0.274	**44.450** 1.7500	**44.437** 1.7495	**53.988** 2.1255	**53.962** 2.1245	Table B2-6	IR-2316
	44.450 1.7500	**53.975** 2.1250	**31.75** 1.250	—	B-2820	—	**66.4** 14930	**160** 36000	24.7	**0.137** 0.302	—	**44.450** 1.7500	**44.437** 1.7495	**53.988** 2.1255	**53.962** 2.1245	Table B2-6	IR-2324
	44.450 1.7500	**53.975** 2.1250	**38.10** 1.500	**3.05** 0.120	B-2824	M-26241	**78.7** 17700	**199** 44800	30.5	**0.165** 0.363	**0.186** 0.411	**44.450** 1.7500	**44.437** 1.7495	**53.988** 2.1255	**53.962** 2.1245	Table B2-6	IR-2324
$1\frac{7}{8}$	**47.625** 1.8750	**57.150** 2.2500	**12.70** 0.500	**3.05** 0.120	B-308	M-3081	**25.1** 5650	**46.4** 10430	7.00	**0.059** 0.129	**0.066** 0.146	**47.625** 1.8750	**47.612** 1.8745	**57.163** 2.2505	**57.137** 2.2495	Table B2-6	
	47.625 1.8750	**57.150** 2.2500	**15.888** 0.625	—	B-3010	—	**33.6** 7550	**67.4** 15150	10.2	**0.073** 0.161	—	**47.625** 1.8750	**47.612** 1.8745	**57.163** 2.2505	**57.137** 2.2495	Table B2-6	
	47.625 1.8750	**57.150** 2.2500	**19.05** 0.750	—	B-3012	—	**41.5** 9330	**88.4** 19870	13.9	**0.088** 0.193	—	**47.625** 1.8750	**47.612** 1.8745	**57.163** 2.2505	**57.137** 2.2495	Table B2-6	
	47.625 1.8750	**57.150** 2.2500	**25.40** 1.000	**3.05** 0.120	B-3016	M-30161	**56.0** 12600	**130** 29200	20.1	**0.117** 0.258	**0.132** 0.292	**47.625** 1.8750	**47.612** 1.8745	**57.163** 2.2505	**57.137** 2.2495	Table B2-6	
2	**50.800** 2.0000	**60.325** 2.3750	**12.70** 0.500	**3.05** 0.120	B-328	M-3281	**25.4** 5710	**48.2** 10840	7.20	**0.062** 0.136	**0.070** 0.154	**50.800** 2.0000	**50.785** 1.9994	**60.338** 2.3755	**60.312** 2.3745	Table B2-6	
	50.800 2.0000	**60.325** 2.3750	**15.88** 0.625	—	B-3210	—	**34.2** 7680	**70.7** 15900	10.6	**0.078** 0.171	—	**50.800** 2.0000	**50.785** 1.9994	**60.338** 2.3755	**60.312** 2.3745	Table B2-6	
	50.800 2.0000	**60.325** 2.3750	**22.23** 0.875	—	B-3214	—	**50.1** 11260	**116** 26080	18.0	**0.108** 0.239	—	**50.800** 2.0000	**50.785** 1.9994	**60.338** 2.3755	**60.312** 2.3745	Table B2-6	

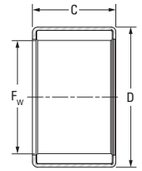
Note) · For information on the speed ratings, contact JTEKT.

(1) IRA inner ring provides additional length if required.

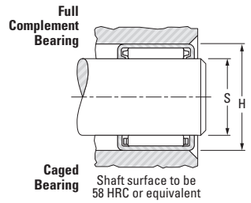
Shaft Dia.	F_w	D	C +0 -0.3 +0.000 -0.012	$X_{max.}$	Bearing Designation		Load Ratings Dynamic	Load Ratings Static	Fatigue Load Limit C_u	Approx. Wt.		Mounting Dimensions Shaft		Mounting Dimensions Housing		Inspection gage	Mounting inner ring (pages B-2-68 to B-2-70)
					Open Ends	Closed One End	C	C_0		Open Ends	Closed One End	Max.	Min.	Max.	Min.		
in	mm in	mm in	mm in	mm in			kN lbf		kN	kg lbs		mm in	mm in	mm in	mm in		
2	**50.800** 2.0000	**60.325** 2.3750	**25.40** 1.000	**3.05** 0.120	B-3216	M-32161	**57.5** 12930	**138** 31000	21.5	**0.124** 0.273	**0.140** 0.309	**50.800** 2.0000	**50.785** 1.9994	**60.338** 2.3755	**60.312** 2.3745	Table B2-6	
	50.800 2.0000	**60.325** 2.3750	**31.75** 1.250	**3.05** 0.120	B-3220	M-32201	**71.5** 16070	**183** 41100	28.3	**0.155** 0.341	**0.175** 0.386	**50.800** 2.0000	**50.785** 1.9994	**60.338** 2.3755	**60.312** 2.3745	Table B2-6	
	50.800 2.0000	**60.325** 2.3750	**38.10** 1.500	**3.05** 0.120	B-3224	M-32241	**84.8** 19060	**228** 51200	34.9	**0.186** 0.410	**0.211** 0.465	**50.800** 2.0000	**50.785** 1.9994	**60.338** 2.3755	**60.312** 2.3745	Table B2-6	
	50.800 2.0000	**60.325** 2.3750	**44.45** 1.750	**3.05** 0.120	B-3228	M-32281	**97.6** 21940	**272** 61150	41.9	**0.217** 0.478	**0.245** 0.541	**50.800** 2.0000	**50.785** 1.9994	**60.338** 2.3755	**60.312** 2.3745	Table B2-6	
$2\frac{1}{16}$	**52.388** 2.0625	**64.292** 2.5312	**19.05** 0.750	—	BH-3312	—	**46.1** 10360	**86.9** 19540	13.4	**0.122** 0.269	—	**52.388** 2.0625	**52.372** 2.0619	**64.305** 2.5317	**64.280** 2.5307	Table B2-6	IR-2916
	52.388 2.0625	**64.292** 2.5312	**25.40** 1.000	**3.56** 0.140	BH-3316	MH-33161	**64.2** 14430	**133** 29900	20.7	**0.162** 0.358	**0.184** 0.406	**52.388** 2.0625	**52.372** 2.0619	**64.305** 2.5317	**64.280** 2.5307	Table B2-6	IR-2916
	52.388 2.0625	**64.292** 2.5312	**38.10** 1.500	**3.56** 0.140	BH-3324	MH-33241	**96.8** 21760	**226** 50700	34.8	**0.244** 0.537	**0.276** 0.609	**52.388** 2.0625	**52.372** 2.0619	**64.305** 2.5317	**64.280** 2.5307	Table B2-6	IR-2924
$2\frac{1}{8}$	**53.975** 2.1250	**63.500** 2.5000	**12.70** 0.500	—	B-348	—	**26.1** 5870	**51.3** 11530	7.65	**0.065** 0.144	—	**53.975** 2.1250	**53.960** 2.1244	**63.513** 2.5005	**63.487** 2.4995	Table B2-6	IR-3024
	53.975 2.1250	**63.500** 2.5000	**19.05** 0.750	—	B-3412	—	**43.6** 9790	**99.0** 22260	15.5	**0.098** 0.216	—	**53.975** 2.1250	**53.960** 2.1244	**63.513** 2.5005	**63.487** 2.4995	Table B2-6	IR-3024
	53.975 2.1250	**63.500** 2.5000	**25.40** 1.000	**3.05** 0.120	B-3416	M-34161	**59.1** 13290	**147** 33000	22.8	**0.131** 0.289	**0.148** 0.327	**53.975** 2.1250	**53.960** 2.1244	**63.513** 2.5005	**63.487** 2.4995	Table B2-6	IR-3024
	53.975 2.1250	**63.500** 2.5000	**31.75** 1.250	—	B-3420	—	**73.6** 16550	**194** 43700	30.1	**0.164** 0.361	—	**53.975** 2.1250	**53.960** 2.1244	**63.513** 2.5005	**63.487** 2.4995	Table B2-6	IR-3024
	53.975 2.1250	**63.500** 2.5000	**38.10** 1.500	**3.05** 0.120	B-3424	M-34241	**87.3** 19630	**242** 54400	37.1	**0.196** 0.433	**0.223** 0.491	**53.975** 2.1250	**53.960** 2.1244	**63.513** 2.5005	**63.487** 2.4995	Table B2-6	IR-3024
$2\frac{1}{4}$	**57.150** 2.2500	**66.675** 2.6250	**19.05** 0.750	**3.30** 0.130	B-3612	M-36121	**46** 10340	**105** 23700	16.5	**0.103** 0.228	**0.117** 0.258	**57.150** 2.2500	**57.135** 2.2494	**66.688** 2.6255	**66.662** 2.6245	Table B2-6	
	57.150 2.2500	**66.675** 2.6250	**25.40** 1.000	—	B-3616	—	**62.3** 14010	**155.6** 35000	24.2	**0.138** 0.304	—	**57.150** 2.2500	**57.135** 2.2494	**66.688** 2.6255	**66.662** 2.6245	Table B2-6	
	57.150 2.2500	**66.675** 2.6250	**31.75** 1.250	—	B-3620	—	**77.5** 17420	**206** 46400	31.8	**0.172** 0.380	—	**57.150** 2.2500	**57.135** 2.2494	**66.688** 2.6255	**66.662** 2.6245	Table B2-6	
	57.150 2.2500	**66.675** 2.6250	**38.10** 1.500	**3.30** 0.130	B-3624	M-36241	**91.9** 20660	**257** 57700	39.6	**0.207** 0.456	**0.235** 0.517	**57.150** 2.2500	**57.135** 2.2494	**66.688** 2.6255	**66.662** 2.6245	Table B2-6	
$2\frac{1}{2}$	**63.500** 2.5000	**73.020** 2.8750	**19.05** 0.750	—	NB-4012	—	**48.1** 10800	**117** 26300	18.4	**0.116** 0.255	—	**63.500** 2.5000	**63.485** 2.4994	**73.165** 2.8805	**73.139** 2.8795	Table B2-6	
	63.500 2.5000	**73.020** 2.8750	**28.58** 1.125	—	NB-4018	—	**73.3** 16500	**201** 45200	31.2	**0.174** 0.383	—	**63.500** 2.5000	**63.485** 2.4994	**73.165** 2.8805	**73.139** 2.8795	Table B2-6	
	63.500 2.5000	**73.020** 2.8750	**38.10** 1.500	—	NB-4024	—	**96.2** 21600	**285** 64100	44.5	**0.231** 0.508	—	**63.500** 2.5000	**63.485** 2.4994	**73.165** 2.8805	**73.139** 2.8795	Table B2-6	
$2\frac{5}{8}$	**66.675** 2.6250	**76.200** 3.0000	**25.40** 1.000	**3.30** 0.130	B-4216	M-42161	**66.7** 15000	**182** 40900	23.9	**0.159** 0.351	**0.181** 0.398	**66.675** 2.6250	**66.660** 2.6244	**76.213** 3.0005	**76.187** 2.9995	Table B2-6	
$2\frac{3}{4}$	**69.850** 2.7500	**79.375** 3.1250	**15.88** 0.625	—	B-4410	—	**41.0** 9210	**98.0** 22000	14.9	**0.104** 0.229	—	**69.850** 2.7500	**69.835** 2.7494	**79.388** 3.1255	**79.362** 3.1245	Table B2-6	IR-4016
	69.850 2.7500	**79.375** 3.1250	**19.050** 0.7500	—	B-4412	—	**50.7** 11400	**129** 29000	20.1	**0.124** 0.274	—	**69.850** 2.7500	**69.835** 2.7494	**79.388** 3.1255	**79.362** 3.1245	Table B2-6	IR-4016
	69.850 2.7500	**79.375** 3.1250	**25.40** 1.000	—	B-4416	—	**68.8** 15470	**191** 42940	29.5	**0.166** 0.366	—	**69.850** 2.7500	**69.835** 2.7494	**79.388** 3.1255	**79.362** 3.1245	Table B2-6	IR-4016
	69.850 2.7500	**79.375** 3.1250	**31.75** 1.250	**3.30** 0.130	B-4420	M-44201	**85.5** 19220	**252** 56700	38.9	**0.208** 0.458	**0.235** 0.519	**69.850** 2.7500	**69.835** 2.7494	**79.388** 3.1255	**79.362** 3.1245	Table B2-6	
3	**76.200** 3.0000	**88.900** 3.5000	**19.05** 0.750	—	NBH-4812	—	**59.3** 13300	**127** 28600	19.7	**0.186** 0.409	—	**76.200** 3.0000	**76.185** 2.9994	**89.040** 3.5055	**89.014** 3.5045	Table B2-6	
	76.200 3.0000	**88.900** 3.5000	**38.10** 1.500	—	NBH-4824	—	**124** 27900	**329** 74000	51.4	**0.372** 0.818	—	**76.200** 3.0000	**76.185** 2.9994	**89.040** 3.5055	**89.014** 3.5045	Table B2-6	
$3\frac{1}{2}$	**88.900** 3.5000	**101.600** 4.0000	**19.05** 0.750	—	B-5612	—	**65.1** 14630	**150** 33700	22.9	**0.212** 0.468	—	**88.900** 3.5000	**88.885** 3.4994	**101.613** 4.0005	**101.587** 3.9995	Table B2-6	
$5\frac{1}{2}$	**139.700** 5.5000	**152.400** 6.0000	**19.05** 0.750	—	B-8812	—	**76.8** 17260	**231** 52000	31.6	**0.325** 0.717	—	**139.700** 5.5000	**139.682** 5.4993	**152.425** 6.0010	**152.375** 5.9990	Table B2-6	

FULL COMPLEMENT BEARINGS
OPEN ENDS

INCH SERIES
Y SERIES



Y



Shaft Dia.	F_w	D	C	$X_{max.}$	Bearing Designation	Load Ratings		Fatigue Load Limit	Approx. Wt.	Mounting Dimensions				Inspection gage
			+0 +0.000 -0.3 -0.012			Dynamic	Static			Shaft		Housing		
					Open Ends	C	C_0	C_u	Open Ends	Max.	Min.	Max.	Min.	
in	mm in	mm in	mm in	mm in		kN lbf		kN	kg lbs	mm in	mm in	mm in	mm in	
5/32	**3.970** 0.1563	**7.142** 0.2812	**3.96** 0.156	—	Y-2 1/2 2 1/2	**1.29** 290	**1.14** 260	—	**0.001** 0.002	**3.970** 0.1563	**3.962** 0.1560	**7.155** 0.2817	**7.142** 0.2812	Table B2-6
3/8	**9.525** 0.3750	**14.288** 0.5625	**9.53** 0.375	—	Y-66	**6.67** 1500	**9.04** 2030	1.45	**0.005** 0.011	**9.525** 0.3750	**9.512** 0.3745	**14.300** 0.5630	**14.275** 0.5620	Table B2-6
	9.525 0.3750	**14.288** 0.5625	**19.05** 0.750	—	Y-612	**13.2** 2970	**21.6** 4860	3.5	**0.010** 0.022	**9.525** 0.3750	**9.512** 0.3745	**14.300** 0.5630	**14.275** 0.5620	Table B2-6
7/16	**11.113** 0.4375	**15.875** 0.625	**9.53** 0.375	—	Y-76	**7.29** 1640	**10.6** 2380	1.7	**0.005** 0.012	**11.113** 0.4375	**11.100** 0.4370	**15.888** 0.6255	**15.862** 0.6245	Table B2-6
9/16	**14.288** 0.5625	**19.050** 0.7500	**9.53** 0.375	—	Y-96	**8.38** 1880	**13.6** 3060	2.2	**0.007** 0.015	**14.288** 0.5625	**14.275** 0.5620	**19.063** 0.7505	**19.037** 0.7495	Table B2-6
	14.288 0.5625	**19.050** 0.7500	**12.70** 0.500	—	Y-98	**11.3** 2540	**19.9** 4470	3.2	**0.009** 0.020	**14.288** 0.5625	**14.275** 0.5620	**19.063** 0.7505	**19.037** 0.7495	Table B2-6
	14.288 0.5625	**19.050** 0.7500	**15.88** 0.625	—	Y-910	**14.0** 3150	**26.2** 5890	4.2	**0.012** 0.026	**14.288** 0.5625	**14.275** 0.5620	**19.063** 0.7505	**19.037** 0.7495	Table B2-6
	14.288 0.5625	**19.050** 0.7500	**19.05** 0.750	—	Y-912	**16.5** 3710	**32.5** 7310	5.25	**0.014** 0.031	**14.288** 0.5625	**14.275** 0.5620	**19.063** 0.7505	**19.037** 0.7495	Table B2-6
5/8	**15.875** 0.6250	**20.638** 0.8125	**15.88** 0.625	—	Y-1010	**14.8** 3330	**29.2** 6560	4.7	**0.013** 0.029	**15.875** 0.6250	**15.862** 0.6245	**20.650** 0.8130	**20.625** 0.8120	Table B2-6
11/16	**17.463** 0.6875	**22.212** 0.8745	**6.35** 0.250	—	Y-114	**5.76** 1290	**8.92** 2010	1.55	**0.005** 0.012	**17.463** 0.6875	**17.450** 0.6870	**22.238** 0.8755	**22.212** 0.8745	Table B2-6

Note) · For information on the speed ratings, contact JTEKT.

EXTRA-PRECISION BEARINGS

INCH SERIES

Open-end full-complement mechanically retained drawn cup needle roller bearings, manufactured to inch standards, are offered with extra-precision specifications. The manufacturing tolerance of these bearings is one-third that of the standard precision bearings. In production operations, using closer tolerances on shaft and housing, they will assemble with consistently lower radial internal clearances than can be expected with the standard precision series bearings.

Extra-precision bearings are suitable for those applications requiring close control of radial play and eccentricity. They are also preferred when two bearings are mounted adjacent to each other because greater accuracy in manufacture will provide better load distribution between the bearings.

Nominal dimensions, load ratings, speed ratings and other general specifications for extra-precision bearings are the same as for the corresponding “B” or “BH” sizes of drawn cup needle roller bearings. Consequently, the data on pages B-2-48 to B-2-55 can be used in bearing size selection.

When ordering an extra-precision bearing, add the prefix letter “G” to the bearing designation. For example, after following the size selection procedure outlined in the engineering section, bearing B-1212 is selected – but extra-precision tolerances are required. These are designated by ordering a GB-1212 bearing.

To realize the advantages of the expected closer radial internal clearance of the extra-precision bearing, the user must have the capability of producing housing bore and shaft raceway diameters to the close tolerances indicated by the bearing tables on page B-2-59.

The resulting total radial internal clearance, within the installed GB-1212 extra-precision drawn cup needle roller bearing, will lie in the range from 0.005 mm to 0.030 mm (0.0002 in to 0.0012 in)

Inspection dimensions for the extra-precision bearings are given in table on page B-2-58. Note that these bearings must be inspected while mounted in the specified ring gage. Bearing bores are checked with “go” and “no go” plug gages. The “go” gage size is the minimum diameter inside the needle rollers. The “no go” gage size is 0.002 mm (0.0001 in) larger than the maximum diameter inside the needle rollers.

Procedures for selecting ring and plug gage dimensions are the same as for those involving standard precision needle roller bearings – except that the ring gage diameters and diameters inside the needle rollers must be drawn from the table on page B-2-58.