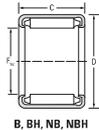


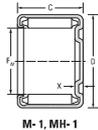
NEEDLE ROLLER BEARINGS

FULL COMPLEMENT BEARINGS OPEN ENDS, CLOSED ONE END

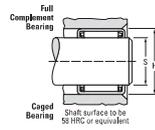
INCH SERIES B, BH, NB, NBH, M-1, MH-1 SERIES



B, BH, NB, NBH



M-1, MH-1



Caged Bearing
Shaft surface to be S8 HRc or equivalent

Shaft Dia.	F _w	D	C		X _{max}	Bearing Designation	Load Ratings		Fatigue Load Limit C ₁₀	Approx. Wt.	Mounting Dimensions				Inspection gage	Mounting Inner ring gage B-2-48 to B-2-70
			Dynamic	Static			Max.	Min.			Housing	Max.	Min.	Max.		
in	mm	mm	mm	mm	mm		kN	kg	mm	mm	mm	mm	mm	mm	mm	
1/8	3.175	6.350	6.35	—	—	B-24	1.73	1.65	0.24	0.001	2.175	2.142	6.350	6.350	Table B2-6	
	0.1250	0.2500	0.2500	—	—	—	390	370	0.002	—	0.1750	0.1747	0.2500	0.2500	Table B2-6	
1/16	3.970	7.142	6.35	—	—	B-2 1/2	2.00	2.00	0.31	0.001	3.970	3.962	7.142	7.142	Table B2-6	
	0.1563	0.2812	0.2500	—	—	—	490	490	0.002	—	0.1563	0.1560	0.2812	0.2812	Table B2-6	
3/16	3.970	7.142	7.52	—	—	B-2 1/2	2.58	2.80	0.42	0.001	3.970	3.962	7.142	7.142	Table B2-6	
	0.1563	0.2812	0.3125	—	—	—	580	630	0.003	—	0.1563	0.1560	0.2812	0.2812	Table B2-6	
1/4	4.763	8.732	6.35	—	—	B-24	2.20	2.12	0.36	0.001	4.763	4.755	8.730	8.717	Table B2-6	
	0.1875	0.3438	0.2500	—	—	M-341	470	460	0.003	0.004	0.1875	0.1872	0.3437	0.3432	Table B2-6	
5/16	4.763	8.732	5.53	—	—	B-36	3.78	4.23	0.54	0.002	4.763	4.755	8.730	8.717	Table B2-6	
	0.1875	0.3438	0.3750	—	—	M-361	850	950	0.005	0.006	0.1875	0.1872	0.3437	0.3432	Table B2-6	
3/8	6.590	11.113	6.35	—	—	B-44	2.24	2.67	0.65	0.002	6.590	6.577	11.125	11.100	Table B2-6	
	0.2600	0.4375	0.2500	—	—	M-441	600	690	0.005	0.006	0.2600	0.2595	0.4370	0.4370	Table B2-6	
1/2	6.590	11.113	7.52	—	—	B-45	3.95	3.68	0.56	0.003	6.590	6.577	11.125	11.100	Table B2-6	
	0.2600	0.4375	0.3125	—	—	M-451	890	830	0.007	0.008	0.2600	0.2595	0.4370	0.4370	Table B2-6	
5/8	6.590	11.113	5.53	—	—	B-48	4.55	5.06	0.77	0.004	6.590	6.577	11.125	11.100	Table B2-6	
	0.2600	0.4375	0.3750	—	—	—	1000	1140	0.008	—	0.2600	0.2595	0.4370	0.4370	Table B2-6	
3/4	6.590	11.113	11.13	—	—	B-47	5.51	6.46	0.98	0.004	6.590	6.577	11.125	11.100	Table B2-6	
	0.2600	0.4375	0.4380	—	—	M-471	1240	1450	0.009	0.011	0.2600	0.2595	0.4380	0.4370	Table B2-6	
7/8	7.938	12.700	7.52	—	—	B-50	4.68	4.69	0.70	0.004	7.938	7.925	12.713	12.687	Table B2-6	
	0.3125	0.5000	0.3125	—	—	M-511	920	1030	0.008	0.009	0.3125	0.3120	0.5000	0.4995	Table B2-6	
1	7.938	12.700	5.53	—	—	B-56	5.23	6.33	0.97	0.005	7.938	7.925	12.713	12.687	Table B2-6	
	0.3125	0.5000	0.3750	—	—	—	1180	1420	0.010	—	0.3125	0.3120	0.5000	0.4995	Table B2-6	
1 1/8	7.938	12.700	11.13	—	—	B-57	6.23	6.69	1.20	0.005	7.938	7.925	12.713	12.687	Table B2-6	
	0.3125	0.5000	0.4380	—	—	M-571	1420	1620	0.011	0.013	0.3125	0.3120	0.5000	0.4995	Table B2-6	
1 1/4	7.938	12.700	14.27	—	—	B-59	8.07	11.4	1.75	0.006	7.938	7.925	12.713	12.687	Table B2-6	
	0.3125	0.5000	0.5625	—	—	—	1820	2020	0.014	—	0.3125	0.3120	0.5000	0.4995	Table B2-6	
1 3/8	7.938	14.288	11.13	—	—	BH-57	7.61	7.23	1.10	0.007	7.938	7.925	14.290	14.275	Table B2-6	
	0.3125	0.5625	0.4380	—	—	MH-571	1680	1950	0.016	0.018	0.3125	0.3120	0.5620	0.5620	Table B2-6	
1 1/2	7.938	14.288	14.27	—	—	BH-59	9.66	10.8	1.95	0.009	7.938	7.925	14.290	14.275	Table B2-6	
	0.3125	0.5625	0.5625	—	—	MH-591	2130	2420	0.020	—	0.3125	0.3120	0.5620	0.5620	Table B2-6	
1 5/8	8.315	14.288	12.70	—	—	BH-3	8.10	9.56	1.45	0.008	8.315	8.310	14.290	14.275	Table B2-6	
	0.3280	0.5625	0.5000	—	—	MH-3	1820	2150	0.018	—	0.3280	0.3275	0.5620	0.5620	Table B2-6	
3/4	9.525	14.288	7.52	—	—	B-55	4.85	5.53	0.84	0.004	9.525	9.512	14.290	14.275	Table IRA-3	
	0.3750	0.5625	0.3125	—	—	M-551	1020	1240	0.009	0.010	0.3750	0.3745	0.5620	0.5620	Table IRA-3	
1	9.525	14.288	5.53	—	—	B-56	5.83	7.61	1.35	0.005	9.525	9.512	14.290	14.275	Table IRA-3	
	0.3750	0.5625	0.3750	—	—	M-561	1310	1710	0.011	0.012	0.3750	0.3745	0.5620	0.5620	Table IRA-3	
1 1/4	9.525	14.288	11.13	—	—	B-57	7.06	9.72	1.45	0.006	9.525	9.512	14.290	14.275	Table IRA-3	
	0.3750	0.5625	0.4380	—	—	—	1580	2190	0.013	—	0.3750	0.3745	0.5620	0.5620	Table IRA-3	

Note: For information on the speed ratings, contact JTEKT.

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

B-2-48 NEEDLE ROLLER BEARINGS

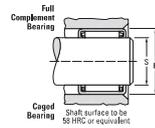
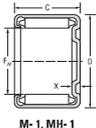
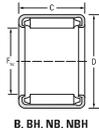
Drawn Cup Needle Roller Bearings

Shaft Dia.	F _w	D	C		X _{max}	Bearing Designation	Load Ratings		Fatigue Load Limit C ₁₀	Approx. Wt.	Mounting Dimensions				Inspection gage	Mounting Inner ring gage B-2-48 to B-2-70
			Dynamic	Static			Max.	Min.			Housing	Max.	Min.	Max.		
in	mm	mm	mm	mm	mm		kN	kg	mm	mm	mm	mm	mm	mm	mm	
1/8	3.525	14.288	12.70	—	—	B-68	8.21	11.8	1.80	0.007	0.008	3.525	3.512	14.290	14.275	Table B2-6
	0.3750	0.5625	0.5000	—	—	M-681	1850	2660	0.015	—	0.3750	0.3745	0.5620	0.5620	Table B2-6	
1/16	3.525	14.288	14.27	—	—	B-69	9.22	12.8	2.10	0.007	0.016	—	—	—	—	—
	0.3750	0.5625	0.5625	—	—	M-6101	194	230	2.40	0.008	0.010	3.525	3.512	14.290	14.275	Table B2-6
3/16	3.525	14.288	15.88	—	—	B-610	10.4	15.0	2.40	0.008	0.010	3.525	3.512	14.290	14.275	Table B2-6
	0.3750	0.5625	0.6250	—	—	M-610	2340	3280	0.016	—	0.3750	0.3745	0.5620	0.5620	Table B2-6	
1/4	3.525	14.288	12.70	—	—	BH-68	9.35	12.8	1.65	0.010	0.021	—	—	—	—	—
	0.3750	0.5625	0.5000	—	—	—	2100	2460	0.012	—	0.3750	0.3745	0.5620	0.5620	Table B2-6	
5/16	11.113	15.875	9.53	—	—	B-76	6.37	8.88	1.35	0.005	0.012	—	—	—	—	—
	0.4375	0.6250	0.3750	—	—	—	1430	2000	0.012	—	11.113	11.100	15.888	15.862	Table B2-6	
3/8	11.113	15.875	11.13	—	—	B-77	7.71	10.8	1.70	0.007	0.015	—	—	—	—	—
	0.4375	0.6250	0.4380	—	—	—	1750	2550	0.015	—	11.113	11.100	15.888	15.862	Table B2-6	
1/2	11.113	15.875	12.70	—	—	B-78	8.97	13.0	2.10	0.008	0.009	11.113	11.100	15.888	15.862	Table B2-6
	0.4375	0.6250	0.5000	—	—	M-781	2020	3180	0.017	0.019	0.4375	0.4370	0.6250	0.6245	Table B2-6	
5/8	11.113	15.875	15.88	—	—	B-710	11.4	16.7	2.80	0.010	0.021	—	—	—	—	—
	0.4375	0.6875	0.6250	—	—	—	2560	4200	0.021	—	11.113	11.100	15.888	15.862	Table B2-6	
3/4	11.113	15.875	12.70	—	—	BH-76	10.3	12.8	1.95	0.010	0.023	—	—	—	—	—
	0.4375	0.6875	0.5000	—	—	—	2320	3280	0.014	—	11.113	11.100	15.875	15.850	Table B2-6	
1	11.511	15.800	12.70	—	—	NB-38	9.00	13.0	2.10	0.032	—	—	—	—	—	—
	0.459	0.6250	0.5000	—	—	—	2020	3100	0.014	—	11.511	11.493	15.800	15.8	Table B2-6	
1 1/8	12.700	17.663	7.52	—	—	B-85	5.36	7.38	1.15	0.015	0.006	12.700	12.687	17.675	17.650	Table B2-6
	0.5000	0.6875	0.3125	—	—	M-851	1200	1660	0.012	0.014	0.5000	0.4995	0.6880	0.6870	Table B2-6	
1 1/4	12.700	17.663	5.53	—	—	B-86	6.87	10.2	1.55	0.006	0.007	12.700	12.687	17.675	17.650	Table B2-6
	0.5000	0.6875	0.3750	—	—	M-861	1540	2290	0.014	0.016	0.5000	0.4995	0.6880	0.6870	Table B2-6	
1 1/2	12.700	17.663	11.13	—	—	B-87	8.31	13.0	1.95	0.007	0.008	12.700	12.687	17.675	17.650	Table B2-6
	0.5000	0.6875	0.4380	—	—	M-871	1870	2920	0.016	0.018	0.5000	0.4995	0.6880	0.6870	Table B2-6	
1 3/8	12.700	17.663	12.70	—	—	B										

NEEDLE ROLLER BEARINGS

FULL COMPLEMENT BEARINGS OPEN ENDS, CLOSED ONE END

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



Shaft Dia.	F _o	D	C		X _{max}	Bearing Designation	Load Ratings		Fatigue Load Limit C ₁₀	Approx. Wt.		Mounting Dimensions				Inspection gage	Mounting inner ring gages B-2-50 to B-2-70							
			Open Ends	Closed End			Dynamic	Static		Max.	Min.	Max.	Min.	Max.	Min.									
in	mm	mm	mm	mm	mm		kN	lb	kg	lb	mm	mm	mm	mm	mm	mm								
1/16	14.288	19.050	12.700	2.03	0.089	B-912	M-9121	15.6	3510	30.2	6820	4.70	0.114	0.031	0.015	0.034	14.288	14.275	19.063	19.037	Table B2-6	IR-88		
	14.288	19.050	12.700	2.03	0.089	BH-30	—	12.0	2690	16.4	3660	2.50	0.013	0.023	—	—	14.288	14.275	19.050	20.425	Table B2-6			
	14.288	19.050	12.700	2.03	0.089	BH-910	—	15.4	3460	22.7	5110	3.45	0.016	0.036	—	—	14.288	14.275	19.050	20.425	Table B2-6			
	14.288	19.050	12.700	2.03	0.089	BH-912	—	18.0	4100	20.0	4500	4.45	0.020	0.043	—	—	14.288	14.275	19.050	20.425	Table B2-6			
	14.288	19.050	12.700	2.03	0.089	B-105	M-1051	8.25	1830	9.24	2060	1.40	0.006	0.007	0.015	0.016	14.288	14.275	19.063	20.425	Table B2-6			
	14.288	19.050	12.700	2.03	0.089	B-107	M-1071	9.39	2110	16.2	3600	2.45	0.009	0.010	0.015	0.016	14.288	14.275	19.063	20.425	Table B2-6			
	14.288	19.050	12.700	2.03	0.089	B-108	M-1081	11.0	2450	13.7	3030	3.00	0.010	0.012	0.015	0.016	14.288	14.275	19.063	20.425	Table B2-6			
	14.288	19.050	12.700	2.03	0.089	B-1010	M-10101	13.30	2970	16.7	3700	4.00	0.013	0.015	0.015	0.016	14.288	14.275	19.063	20.425	Table B2-6			
	14.288	19.050	12.700	2.03	0.089	B-1012	M-10121	16.6	3720	20.7	4600	5.25	0.015	0.017	0.015	0.016	14.288	14.275	19.063	20.425	Table B2-6			
	14.288	19.050	12.700	2.03	0.089	BH-108	MH-1081	12.7	2860	18.3	4110	2.75	0.014	0.016	0.015	0.016	14.288	14.275	19.063	20.425	Table B2-6			
	14.288	19.050	12.700	2.03	0.089	BH-1010	—	16.4	3680	25.3	5680	3.35	0.018	0.039	—	—	14.288	14.275	19.063	20.425	Table B2-6			
	14.288	19.050	12.700	2.03	0.089	BH-1012	—	19.8	4450	32.3	7250	4.95	0.021	0.047	—	—	14.288	14.275	19.063	20.425	Table B2-6			
1/8	17.463	22.212	15.875	2.69	0.106	B-116	M-1161	23.2	5190	24.0	5390	4.10	0.028	0.030	0.034	0.035	17.463	17.450	22.228	22.212	Table B2-6	IR-1012 ⁽¹⁾		
	17.463	22.212	15.875	2.69	0.106	B-118	M-1181	11.5	2590	21.7	4880	3.30	0.011	0.012	0.012	0.013	17.463	17.450	22.228	22.212	Table B2-6			
	17.463	22.212	15.875	2.69	0.106	B-1110	M-11101	16.6	3740	26.4	5840	4.40	0.014	0.015	0.014	0.015	17.463	17.450	22.228	22.212	Table B2-6			
	17.463	22.212	15.875	2.69	0.106	B-1112	M-11121	37.4	8400	37.1	8300	5.75	0.016	0.019	0.017	0.019	17.463	17.450	22.228	22.212	Table B2-6			
	17.463	22.212	15.875	2.69	0.106	BH-117	—	11.4	2560	16.2	3500	2.45	0.014	0.030	—	—	17.463	17.450	22.228	22.212	Table B2-6			
	17.463	22.212	15.875	2.69	0.106	BH-1110	MH-11101	17.3	3900	27.8	6250	4.25	0.019	0.021	0.017	0.019	17.463	17.450	22.228	22.212	Table B2-6			
	1/4	29.638	36.838	25.400	4.53	0.178	B-130	—	19.1	4290	20.0	4490	2.25	0.013	0.023	—	—	29.638	29.625	36.854	36.838		Table B2-6	IR-88
		29.638	36.838	25.400	4.53	0.178	B-138	M-1381	14.7	3230	23.0	5090	3.60	0.016	0.020	0.020	0.021	29.638	29.625	36.854	36.838		Table B2-6	
		29.638	36.838	25.400	4.53	0.178	B-1314	M-13141	26.7	6010	31.1	6980	7.90	0.021	0.025	0.025	0.026	29.638	29.625	36.854	36.838		Table B2-6	
		29.638	36.838	25.400	4.53	0.178	B-1316	M-13161	38.3	8620	46.2	10300	9.25	0.025	0.028	0.028	0.029	29.638	29.625	36.854	36.838		Table B2-6	
		29.638	36.838	25.400	4.53	0.178	B-1320	—	37.3	8380	78.4	17600	12.9	0.044	0.098	—	—	29.638	29.625	36.854	36.838		Table B2-6	
		29.638	36.838	25.400	4.53	0.178	BH-138	MH-1381	14.8	3290	20.8	4680	3.10	0.023	0.026	0.026	0.027	29.638	29.625	36.854	36.838		Table B2-6	
29.638		36.838	25.400	4.53	0.178	BH-1310	MH-13101	19.7	4430	29.0	6720	4.50	0.029	0.032	0.032	0.033	29.638	29.625	36.854	36.838	Table B2-6			
29.638		36.838	25.400	4.53	0.178	BH-1312	MH-13121	24.2	5440	39.0	8760	6.10	0.034	0.039	0.039	0.040	29.638	29.625	36.854	36.838	Table B2-6			
29.638		36.838	25.400	4.53	0.178	B-146	M-1461	10.6	2380	13.8	3060	2.45	0.014	0.021	0.021	0.022	29.638	29.625	36.854	36.838	Table B2-6			
29.638		36.838	25.400	4.53	0.178	B-148	M-1481	15.4	3450	25.8	5760	3.85	0.019	0.022	0.022	0.023	29.638	29.625	36.854	36.838	Table B2-6			
29.638		36.838	25.400	4.53	0.178	B-1412	M-14121	23.9	5370	31.6	7010	6.2	0.023	0.026	0.026	0.027	29.638	29.625	36.854	36.838	Table B2-6			
29.638		36.838	25.400	4.53	0.178	B-1418	M-14181	31.6	7100	44.8	10000	10.0	0.038	0.043	0.043	0.044	29.638	29.625	36.854	36.838	Table B2-6			
3/8	41.275	50.800	36.175	6.35	0.250	B-148	M-1481	36.2	8080	47.6	10600	11.4	0.043	0.094	—	—	41.275	41.262	50.816	50.800	Table B2-6	IR-1016		
	41.275	50.800	36.175	6.35	0.250	BH-1410	MH-14101	29.3	6570	32.2	7240	4.85	0.030	0.035	0.035	0.036	41.275	41.262	50.816	50.800	Table B2-6			
	41.275	50.800	36.175	6.35	0.250	BH-1412	MH-14121	26.0	5820	42.0	9440	5.55	0.036	0.041	0.041	0.042	41.275	41.262	50.816	50.800	Table B2-6			
	41.275	50.800	36.175	6.35	0.250	BH-1418	—	33.7	7510	51.6	11500	8.60	0.049	0.107	—	—	41.275	41.262	50.816	50.800	Table B2-6			
	41.275	50.800	36.175	6.35	0.250	B-158	—	15.0	3380	27.5	6180	4.15	0.024	0.044	—	—	41.275	41.262	50.816	50.800	Table B2-6			
	41.275	50.800	36.175	6.35	0.250	B-1516	M-15161	32.8	7370	46.5	10400	10.7	0.040	0.045	0.045	0.046	41.275	41.262	50.816	50.800	Table B2-6			
	41.275	50.800	36.175	6.35	0.250	B-166	—	11.3	2500	18.1	4070	2.80	0.035	0.067	—	—	41.275	41.262	50.816	50.800	Table B2-6			
	41.275	50.800	36.175	6.35	0.250	B-167	M-1671	14.0	3140	23.7	5220	3.60	0.019	0.021	0.021	0.022	41.275	41.262	50.816	50.800	Table B2-6			
	41.275	50.800	36.175	6.35	0.250	B-168	M-1681	16.5	3710	29.3	6390	4.45	0.021	0.024	0.024	0.025	41.275	41.262	50.816	50.800	Table B2-6			

Note: For information on the speed ratings, contact JTEKT.

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

B-2-50 NEEDLE ROLLER BEARINGS

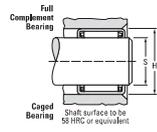
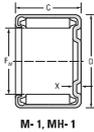
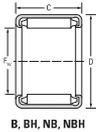
Drawn Cup Needle Roller Bearings

Shaft Dia.	F _o	D	C		X _{max}	Bearing Designation	Load Ratings		Fatigue Load Limit C ₁₀	Approx. Wt.		Mounting Dimensions				Inspection gage	Mounting inner ring gages B-2-50 to B-2-70					
			Open Ends	Closed End			Dynamic	Static		Max.	Min.	Max.	Min.	Max.	Min.							
in	mm	mm	mm	mm	mm		kN	lb	kg	lb	mm	mm	mm	mm	mm	mm						
1/16	17.463	22.212	15.875	2.69	0.106	BH-117	—	20.0	4500	35.5	7860	5.45	0.023	0.051	—	—	17.463	17.450	22.228	22.212	Table B2-6	IR-88
	19.050	25.400	19.050	6.35	0.250	B-126	M-1261	9.70	2180	12.6	2850	2.10	0.012	0.014	0.014	0.015	19.050	19.037	25.413	25.387	Table B2-6	
	19.050	25.400	19.050	6.35	0.250	B-128	M-1281	14.1	3170	22.0	4940	3.30	0.036	0.041	0.041	0.042	19.050	19.037	25.413	25.387	Table B2-6	
	19.050	25.400	19.050	6.35	0.250	B-1210	M-12101	15.1	4070	30.4	6830	4.60	0.020	0.024	0.024	0.025	19.050	19.037	25.413	25.387	Table B2-6	
	19.050	25.400	19.050	6.35	0.250	B-1212	M-12121	21.9	4930	37.0	8210	5.95	0.024	0.028	0.028	0.029	19.050	19.037	25.413	25.387	Table B2-6	
	19.050	25.400	19.050	6.35	0.250	B-130	—	19.1	4290	20.0	4490	2.25	0.013	0.023	—	—	19.050	19.037	25.413	25.387	Table B2-6	
	19.050	25.400	19.050	6.35	0.250	B-138	M-1381	14.7	3230	23.0	5090	3.60	0.016	0.020	0.020	0.021	19.050	19.037	25.413	25.387	Table	

NEEDLE ROLLER BEARINGS

FULL COMPLEMENT BEARINGS OPEN ENDS, CLOSED ONE END

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



Shaft Dia.	F _o	D	C		X _{max}	Bearing Designation	Load Ratings		Fatigue Load Limit C ₁₀	Approx. Wt.	Mounting Dimensions			Inspection gage	Mounting inner ring gages B-2-58 to B-2-70			
			Open Ends	Closed End			Dynamic C	Static C ₀			Max.	Min.	Housing					
1	25.000 1.0000	31.750 1.2500	15.88 0.625	2.29 0.090	—	B-1610	M-16101	21.2 0.835	40.5 1.600	6.15	0.028 0.058	0.030 0.096	25.000 1.0000	25.287 0.9951	31.763 1.2465	31.737 1.2495	Table B2-6	IR-1212
25.000 1.0000	31.750 1.2500	19.45 0.750	2.29 0.090	—	B-1612	M-16121	25.7 1.012	51.7 2.034	7.95	0.032 0.070	0.036 0.080	25.000 1.0000	25.287 0.9951	31.763 1.2465	31.737 1.2495	Table B2-6	IR-1212	
25.000 1.0000	31.750 1.2500	25.40 1.000	2.29 0.090	—	B-1616	M-16161	34.0 1.339	74.1 2.917	11.4	0.043 0.094	0.048 0.106	25.000 1.0000	25.287 0.9951	31.763 1.2465	31.737 1.2495	Table B2-6	IR-1216 ⁽¹⁾	
25.000 1.0000	33.338 1.3125	12.70 0.500	2.29 0.110	—	BH-168	MH-1681	16.8 0.661	25.8 1.016	3.30	0.027 0.060	0.031 0.058	25.000 1.0000	25.287 0.9951	31.763 1.2465	31.737 1.2495	Table B2-6	IR-128	
25.000 1.0000	33.338 1.3125	15.88 0.625	—	—	BH-1610	—	22.6 0.890	36.8 1.449	5.50	0.034 0.075	—	25.000 1.0000	25.287 0.9951	31.763 1.2465	31.737 1.2495	Table B2-6	IR-1212	
25.000 1.0000	33.338 1.3125	19.45 0.750	2.29 0.110	—	BH-1612	MH-16121	27.1 1.067	46.0 1.811	7.45	0.041 0.100	0.046 0.100	25.000 1.0000	25.287 0.9951	31.763 1.2465	31.737 1.2495	Table B2-6	IR-1212	
25.000 1.0000	33.338 1.3125	22.23 0.875	—	—	BH-1614	—	31.9 1.252	56.2 2.213	9.15	0.048 0.106	—	25.000 1.0000	25.287 0.9951	31.763 1.2465	31.737 1.2495	Table B2-6	IR-1216 ⁽¹⁾	
25.000 1.0000	33.338 1.3125	25.40 1.000	2.29 0.110	—	BH-1616	MH-16161	36.5 1.437	70.4 2.770	10.9	0.054 0.136	0.062 0.136	25.000 1.0000	25.287 0.9951	31.763 1.2465	31.737 1.2495	Table B2-6	IR-1216 ⁽¹⁾	
25.000 1.0000	33.338 1.3125	31.25 1.250	—	—	BH-1620	—	45.2 1.780	82.8 3.256	14.2	0.068 0.150	—	25.000 1.0000	25.287 0.9951	31.763 1.2465	31.737 1.2495	Table B2-6	IR-1220	
25.000 1.0000	33.338 1.3125	38.10 1.500	2.29 0.110	—	BH-1624	MH-16241	53.5 2.106	115 4.528	17.7	0.082 0.180	0.093 0.204	25.000 1.0000	25.287 0.9951	31.763 1.2465	31.737 1.2495	Table B2-6	IR-1224	
1 1/8	26.988 1.0625	33.338 1.3125	15.88 0.625	2.29 0.090	—	B-1710	M-17101	21.9 0.863	43.1 1.695	6.55	0.028 0.062	0.032 0.070	26.988 1.0625	26.988 1.0625	33.338 1.3125	33.325 1.3120	Table B2-6	IR-1416 ⁽¹⁾
1 1/8	26.988 1.0625	34.265 1.3750	19.45 0.750	—	BH-1712	—	23.5 0.925	52.1 2.050	8.05	0.035 0.078	—	26.988 1.0625	26.988 1.0625	34.265 1.3750	34.262 1.3745	Table B2-6	IR-1416 ⁽¹⁾	
1 1/8	28.275 1.1250	34.265 1.3750	9.23 0.375	2.29 0.090	—	B-186	M-1861	12.1 0.476	20.4 0.800	3.10	0.018 0.059	0.020 0.044	28.275 1.1250	28.275 1.1250	34.265 1.3750	34.262 1.3745	Table B2-6	IR-1416 ⁽¹⁾
28.275 1.1250	34.265 1.3750	12.29 0.500	2.29 0.090	—	B-188	M-1881	17.6 0.693	32.0 1.260	4.95	0.024 0.062	0.027 0.069	28.275 1.1250	28.275 1.1250	34.265 1.3750	34.262 1.3745	Table B2-6	IR-1416 ⁽¹⁾	
28.275 1.1250	34.265 1.3750	15.88 0.625	—	—	BH-1810	—	22.6 0.890	36.8 1.445	6.90	0.029 0.065	—	28.275 1.1250	28.275 1.1250	34.265 1.3750	34.262 1.3745	Table B2-6	IR-1416 ⁽¹⁾	
28.275 1.1250	34.265 1.3750	19.45 0.750	2.29 0.090	—	BH-1812	M-18121	27.3 1.074	46.2 1.818	8.90	0.035 0.078	0.040 0.088	28.275 1.1250	28.275 1.1250	34.265 1.3750	34.262 1.3745	Table B2-6	IR-1416 ⁽¹⁾	
28.275 1.1250	34.265 1.3750	25.40 1.000	2.29 0.090	—	B-1816	M-18161	31.2 1.229	58.4 2.300	12.8	0.047 0.104	0.054 0.118	28.275 1.1250	28.275 1.1250	34.265 1.3750	34.262 1.3745	Table B2-6	IR-1416 ⁽¹⁾	
28.275 1.1250	36.100 1.5000	19.45 0.750	2.29 0.120	—	BH-1812	MH-18121	31.5 1.238	52.9 2.086	8.30	0.036 0.123	0.063 0.138	28.275 1.1250	28.275 1.1250	36.100 1.5000	36.113 1.4165	36.087 1.4195	Table B2-6	IR-1416 ⁽¹⁾
28.275 1.1250	36.100 1.5000	25.40 1.000	2.29 0.120	—	BH-1816	MH-18161	42.5 1.674	71.8 2.826	12.0	0.074 0.164	0.084 0.188	28.275 1.1250	28.275 1.1250	36.100 1.5000	36.113 1.4165	36.087 1.4195	Table B2-6	IR-1416 ⁽¹⁾

Note: For information on the speed ratings, contact JTEKT.

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

B-2-52 NEEDLE ROLLER BEARINGS

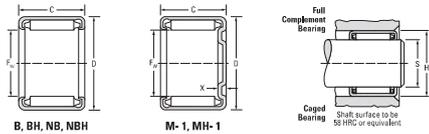
Drawn Cup Needle Roller Bearings

Shaft Dia.	F _o	D	C		X _{max}	Bearing Designation	Load Ratings		Fatigue Load Limit C ₁₀	Approx. Wt.	Mounting Dimensions			Inspection gage	Mounting inner ring gages B-2-58 to B-2-70			
			Open Ends	Closed End			Dynamic C	Static C ₀			Max.	Min.	Housing					
1 1/8	28.275 1.1250	36.100 1.5000	21.75 0.850	2.29 0.090	—	BH-1828	MH-18281	53.0 2.087	103 4.053	15.8	0.053 0.105	0.058 0.129	28.275 1.1250	28.275 1.1250	36.113 1.4165	36.087 1.4195	Table B2-6	IR-1612
1 1/8	30.163 1.1875	38.100 1.5000	15.88 0.625	2.29 0.110	—	B-1910	M-19101	24.1 0.949	42.8 1.684	6.55	0.040 0.088	0.045 0.099	30.163 1.1875	30.163 1.1875	38.113 1.5005	38.087 1.4995	Table B2-6	IR-1612
1 1/8	30.163 1.1875	38.100 1.5000	25.40 1.000	—	—	B-1916	—	35.9 1.413	63.7 2.506	10.0	0.064 0.140	—	30.163 1.1875	30.163 1.1875	38.113 1.5005	38.087 1.4995	Table B2-6	IR-1612
1 1/8	31.750 1.2500	38.100 1.5000	12.70 0.500	2.29 0.090	—	B-206	M-2061	18.6 0.731	36.7 1.440	5.90	0.026 0.057	0.029 0.065	31.750 1.2500	31.750 1.2500	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-210	M-2101	23.0 0.909	40.7 1.603	7.70	0.032 0.071	0.044 0.097	31.750 1.2500	31.750 1.2500	38.113 1.5005	38.087 1.4995	Table B2-6	IR-1612	
31.750 1.2500	38.100 1.5000	19.45 0.750	2.29 0.090	—	B-212	M-2121	28.9 1.134	44.7 1.740	9.90	0.039 0.086	0.045 0.099	31.750 1.2500	31.750 1.2500	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-216	M-2161	38.2 1.504	62.7 2.470	14.2	0.052 0.114	0.059 0.129	31.750 1.2500	31.750 1.2500	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-220	M-2201	46.8 1.843	82.1 3.231	18.4	0.065 0.143	0.073 0.162	31.750 1.2500	31.750 1.2500	38.113 1.5005	38.087 1.4995	Table B2-6	IR-1612	
31.750 1.2500	41.275 1.6250	12.70 0.500	2.29 0.120	—	BH-208	MH-2081	19.7 0.774	30.0 1.181	4.50	0.041 0.090	0.046 0.102	31.750 1.2500	31.750 1.2500	41.289 1.6525	41.282 1.6245	Table B2-6	IR-1612	
31.750 1.2500	41.275 1.6250	15.88 0.625	2.29 0.120	—	BH-212	MH-2121	23.1 0.910	36.6 1.437	6.10	0.046 0.102	0.051 0.113	31.750 1.2500	31.750 1.2500	41.289 1.6525	41.282 1.6245	Table B2-6	IR-1612	
31.750 1.2500	41.275 1.6250	25.40 1.000	2.29 0.120	—	BH-216	MH-2161	29.9 1.173	44.8 1.766	8.10	0.051 0.113	0.056 0.124	31.750 1.2500	31.750 1.2500	41.289 1.6525	41.282 1.6245	Table B2-6	IR-1616(1)	
31.750 1.2500	41.275 1.6250	31.75 1.250	2.29 0.120	—	BH-220	MH-2201	55.0 2.165	93.0 3.661	17.6	0.082 0.224	0.093 0.254	31.750 1.2500	31.750 1.2500	41.289 1.6525	41.282 1.6245	Table B2-6	IR-1616(1)	
1 1/8	33.338 1.3125	41.275 1.6250	12.70 0.500	2.29 0.110	—	B-218	M-2181	19.3 0.759	32.7 1.283	5.00	0.031 0.076	0.039 0.086	33.338 1.3125	33.338 1.3125	41.289 1.6525	41.282 1.6245	Table B2-6	IR-1612
33.338 1.3125	41.275 1.6250	15.88 0.625	2.29 0.110	—	B-210	M-2101	25.0 0.984	46.4 1.827	7.25	0.040 0.089	0.049 0.108	33.338 1.3125	33.338 1.3125	41.289 1.6525	41.282 1.6245	Table B2-6	IR-1612	
33.338 1.3125	41.275 1.6250	19.45 0.750	—	—	B-212	—	32.6 1.282	56.2 2.213	9.15	0.048 0.106	—	33.338 1.3125	33.338 1.3125	41.289 1.6525	41.282 1.6245	Table B2-6	IR-1616 ⁽¹⁾	
33.338 1.3125	41.275 1.6250	25.40 1.000	2.29 0.110	—	B-216	M-2161	36.5 1.437	70.4 2.770	10.9	0.054 0.136	0.062 0.136	33.338 1.3125	33.338 1.3125	41.289 1.6525	41.282 1.6245	Table B2-6	IR-1612	
33.338 1.3125	41.275 1.6250	31.25 1.250	—	—	B-220	M-2201	45.2 1.780	82.8 3.256	14.2	0.068 0.150	—	33.338 1.3125	33.338 1.3125	41.289 1.6525	41.282 1.6245	Table B2-6	IR-1612	
33.338 1.3125	41.275 1.6250	38.10 1.500	2.29 0.110	—	BH-224	MH-2241	53.5 2.106	115 4.528	17.7	0.082 0.180	0.093 0.204	33.338 1.3125	33.338 1.3125	41.289 1.6525	41.282 1.6245	Table B2-6	IR-1624	
1 1/8	34.265 1.3750	33.338 1.3125	15.88 0.625	2.29 0.090	—	B-218	M-2181	21.9 0.863	43.1 1.695	6.55	0.028 0.062	0.032 0.070	34.265 1.3750	34.265 1.3750	41.289 1.6525	41.282 1.6245	Table B2-6	IR-1616 ⁽¹⁾
34.265 1.3750	34																	

NEEDLE ROLLER BEARINGS

FULL COMPLIMENT 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 _o	D	C		X _{max}	Bearing Designation	Load Ratings		Fatigue Load Limit C ₁₀	Approx. Wt.			Mounting Dimensions			Inspection gage	Mounting Inner ring gages B-2-54 to B-2-70	
			Open Ends	Closed One End			Dynamic C	Static C ₀		kg	mm	mm	mm	mm	mm			mm
1 1/2	36100 1.5000	47.625 1.8750	19.05 0.750	3.05 0.120	—	B-2412	M-24121	36.9 6290	70.7 19600	11.1	0.072 0.138	0.081 0.179	38.100 1.5000	38.087 1.4951	47.628 1.8745	47.612 Bt-6	IR-1916	
1 1/2	36100 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	0.309 0.309	38.100 1.5000	38.087 1.4951	47.628 1.8745	47.612 Bt-6	IR-1916	
1 1/2	36100 1.5000	47.625 1.8750	25.40 1.000	3.05 0.120	—	B-2416	M-24161	48.7 11170	104 23380	16.1	0.096 0.211	0.108 0.238	38.100 1.5000	38.087 1.4951	47.628 1.8745	47.612 Bt-6	IR-1916	
1 1/2	36100 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 1.4951	47.628 1.8745	47.612 Bt-6	IR-1920	
1 3/4	41.275 1.6250	50.800 2.0000	12.70 0.500	—	—	B-268	—	22.7 5138	82 6020	5.85	0.051 0.113	—	41.275 1.6250	41.262 1.6246	50.813 2.0009	50.787 1.9959	Table Bt-6	IR-2020(1)
1 3/4	41.275 1.6250	50.800 2.0000	15.88 0.625	0.120	—	B-2610	M-26101	36.6 8090	57.1 12600	8.60	0.064 0.141	0.073 0.168	41.275 1.6250	41.262 1.6246	50.813 2.0009	50.787 1.9959	Table Bt-6	IR-2020(1)
1 3/4	41.275 1.6250	50.800 2.0000	25.40 1.000	—	—	B-2616	—	51.4 11550	112 25200	17.4	0.163 0.229	—	41.275 1.6250	41.262 1.6246	50.813 2.0009	50.787 1.9959	Table Bt-6	IR-2020(1)
1 3/4	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	0.129 0.282	0.145 0.320	41.275 1.6250	41.262 1.6246	50.813 2.0009	50.787 1.9959	Table Bt-6	IR-2020(1)
1 3/4	44.500 1.7500	53.975 2.1250	19.05 0.750	0.120	—	B-2612	M-26121	35.3 8830	81.5 18200	12.8	0.082 0.181	0.093 0.205	44.500 1.7500	44.437 1.7435	53.988 2.1245	53.962 Bt-6	IR-2316	
1 3/4	44.500 1.7500	53.975 2.1250	25.40 1.000	0.120	—	B-2616	M-26161	53.3 11890	121 27100	18.8	0.110 0.242	0.124 0.274	44.500 1.7500	44.437 1.7435	53.988 2.1245	53.962 Bt-6	IR-2316	
1 3/4	44.500 1.7500	53.975 2.1250	31.75 1.250	—	—	B-2620	—	66.4 14930	160 36000	24.7	0.137 0.302	—	44.500 1.7500	44.437 1.7435	53.988 2.1245	53.962 Bt-6	IR-2324	
1 3/4	44.500 1.7500	53.975 2.1250	38.10 1.500	3.05 0.120	—	B-2624	M-26241	78.7 17700	199 44600	30.5	0.165 0.363	0.186 0.411	44.500 1.7500	44.437 1.7435	53.988 2.1245	53.962 Bt-6	IR-2324	
1 3/4	47.625 1.8750	57.150 2.2500	12.70 0.500	0.120	—	B-308	M-3081	25.1 5600	66.4 14600	7.00	0.059 0.131	0.066 0.146	47.625 1.8750	47.612 1.8745	57.163 2.2505	57.137 Bt-6	IR-2416	
1 3/4	47.625 1.8750	57.150 2.2500	15.88 0.625	—	—	B-3010	—	33.6 7500	67.4 15150	10.2	0.073 0.161	—	47.625 1.8750	47.612 1.8745	57.163 2.2505	57.137 Bt-6	IR-2416	
1 3/4	47.625 1.8750	57.150 2.2500	19.05 0.750	—	—	B-3012	—	41.5 9330	84.4 18970	13.9	0.088 0.193	—	47.625 1.8750	47.612 1.8745	57.163 2.2505	57.137 Bt-6	IR-2416	
1 3/4	47.625 1.8750	57.150 2.2500	25.40 1.000	0.120	—	B-3016	M-30161	56.0 12900	130 29200	20.1	0.117 0.238	0.132 0.292	47.625 1.8750	47.612 1.8745	57.163 2.2505	57.137 Bt-6	IR-2416	
2	50.800 2.0000	60.325 2.3750	12.70 0.500	0.120	—	B-328	M-3281	25.4 5710	66.4 16840	7.20	0.062 0.136	0.070 0.154	50.800 2.0000	50.785 1.9994	60.338 2.3745	60.312 Bt-6	IR-2416	
2	50.800 2.0000	60.325 2.3750	15.88 0.625	—	—	B-3210	—	34.2 7690	70.7 15900	10.6	0.078 0.171	—	50.800 2.0000	50.785 1.9994	60.338 2.3745	60.312 Bt-6	IR-2416	
2	50.800 2.0000	60.325 2.3750	22.23 0.875	—	—	B-3214	—	50.1 11260	116 26000	18.0	0.108 0.239	—	50.800 2.0000	50.785 1.9994	60.338 2.3745	60.312 Bt-6	IR-2416	

Note: For information on the speed ratings, contact JTEKT.

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

Drawn Cup Needle Roller Bearings

Shaft Dia.	F _o	D	C		X _{max}	Bearing Designation	Load Ratings		Fatigue Load Limit C ₁₀	Approx. Wt.			Mounting Dimensions			Inspection gage	Mounting Inner ring gages B-2-54 to B-2-70
			Open Ends	Closed One End			Dynamic C	Static C ₀		kg	mm	mm	mm	mm	mm		
2	50.800 2.0000	60.325 2.3750	25.40 1.000	3.05 0.120	—	B-2216	M-22161	57.5 12930	128 31000	21.5	0.124 0.273	0.140 0.309	50.800 2.0000	50.785 1.9994	60.338 2.3745	60.312 Bt-6	IR-2916
2	50.800 2.0000	60.325 2.3750	31.75 1.250	3.05 0.120	—	B-2220	M-22201	71.5 16070	188 41100	28.3	0.155 0.341	0.175 0.386	50.800 2.0000	50.785 1.9994	60.338 2.3745	60.312 Bt-6	IR-2916
2	50.800 2.0000	60.325 2.3750	38.10 1.500	3.05 0.120	—	B-2224	M-22241	84.8 19060	228 51200	34.8	0.186 0.410	0.211 0.465	50.800 2.0000	50.785 1.9994	60.338 2.3745	60.312 Bt-6	IR-2916
2	50.800 2.0000	60.325 2.3750	44.45 1.750	3.05 0.120	—	B-2228	M-22281	97.6 21940	272 61160	41.8	0.217 0.478	0.245 0.541	50.800 2.0000	50.785 1.9994	60.338 2.3745	60.312 Bt-6	IR-2916
2 1/4	52.388 2.0625	64.292 2.5312	19.05 0.750	—	—	BH-3312	—	45.1 10380	85.0 19540	13.4	0.122 0.265	—	52.388 2.0625	52.373 2.0619	64.295 2.5307	64.280 Bt-6	IR-2916
2 1/4	52.388 2.0625	64.292 2.5312	25.40 1.000	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	52.373 2.0619	64.295 2.5307	64.280 Bt-6	IR-2916
2 1/4	52.388 2.0625	64.292 2.5312	38.10 1.500	0.140	—	BH-3324	MH-33241	96.8 21760	226 50700	34.8	0.241 0.537	0.276 0.609	52.388 2.0625	52.373 2.0619	64.295 2.5307	64.280 Bt-6	IR-2924
2 1/4	53.675 2.1125	63.500 2.5000	12.70 0.500	—	—	B-348	—	26.1 5790	51.2 11380	7.85	0.095 0.210	—	53.675 2.1125	53.660 2.1094	63.513 2.5005	63.487 Bt-6	IR-3024
2 1/4	53.675 2.1125	63.500 2.5000	19.05 0.750	—	—	B-3412	—	43.6 9790	86.0 22260	15.5	0.098 0.216	—	53.675 2.1125	53.660 2.1094	63.513 2.5005	63.487 Bt-6	IR-3024
2 1/4	53.675 2.1125	63.500 2.5000	25.40 1.000	0.120	—	B-3416	M-34161	59.1 13290	147 33000	22.8	0.131 0.289	0.148 0.327	53.675 2.1125	53.660 2.1094	63.513 2.5005	63.487 Bt-6	IR-3024
2 1/4	53.675 2.1125	63.500 2.5000	31.75 1.250	—	—	B-3420	—	73.6 16590	194 43700	30.1	0.164 0.361	—	53.675 2.1125	53.660 2.1094	63.513 2.5005	63.487 Bt-6	IR-3024
2 1/4	53.675 2.1125	63.500 2.5000	38.10 1.500	3.05 0.120	—	B-3424	M-34241	87.3 19530	242 54400	37.1	0.196 0.433	0.223 0.491	53.675 2.1125	53.660 2.1094	63.513 2.5005	63.487 Bt-6	IR-3024
2 1/2	57.150 2.2500	66.675 2.6250	19.05 0.750	3.20 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 2.4984	66.688 2.6245	66.663 Bt-6	IR-3024
2 1/2	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 2.4984	66.688 2.6245	66.663 Bt-6	IR-3024
2 1/2	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 2.4984	66.688 2.6245	66.663 Bt-6	IR-3024
2 1/2	57.150 2.2500	66.675 2.6250	38.10 1.500	3.20 0.130	—	B-3624	M-36241	91.9 20980	257 57700	38.6	0.207 0.459	0.235 0.517	57.150 2.2500	57.135 2.4984	66.688 2.6245	66.663 Bt-6	IR-3024
2 1/2	63.500 2.5000	73.020 2.8750	19.05 0.750	—	—	NB-4012	—	48.1 10800	97.0 21800	18.4	0.116 0.254	—	63.500 2.5000	63.485 2.4985	73.015 2.8735	73.010 Bt-6	IR-3024
2 1/2	63.500 2.5000	73.020 2.8750	25.40 1.000	—	—	NB-4016	—	73.3 16590	201 45200	31.2	0.174 0.381	—	63.500 2.5000	63.485 2.4985	73.015 2.8735	73.010 Bt-6	IR-3024
2 1/2	63.500 2.5000	73.020 2.8750	38.10 1.500	—	—	NB-4024	—	96.2 21690	280 63400	44.5	0.231 0.508	—	63.500 2.5000	63.485 2.4985	73.015 2.8735	73.010 Bt-6	IR-3024
2 3/4	66.675 2.6250	76.200 3.0000	25.40 1.000	3.20 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 2.9965	76.187 Bt-6	IR-4016
2 3/4	66.675 																