

IJK

BALL BEARINGS



[ENGLISH]



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DEEP GROOVE BALL BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
689	9	17	4	0.2	136	68
OPEN	0.3543	0.6693	0.1575	0.008	1330	665
689	9	17	5	0.2	136	68
OPEN/2RS/ZZ	0.3543	0.6693	0.1969	0.008	1330	665
6800	10	19	5	0.3	175	86
OPEN/2RS/ZZ	0.3937	0.748	0.1969	0.012	1720	840
6801	12	21	5	0.3	195	106
OPEN/2RS/ZZ	0.4724	0.8268	0.1969	0.012	1920	1040
6802	15	24	5	0.3	212	128
OPEN/2RS/ZZ	0.5906	0.9449	0.1969	0.012	2070	1260
6803	17	26	5	0.3	212	128
OPEN/2RS/ZZ	0.6693	1.0236	0.1969	0.012	2070	1260
6804	20	32	7	0.3	410	252
OPEN/2RS/ZZ	0.7874	1.2598	0.2756	0.0118	4000	2470

DEEP GROOVE BALL BEARINGS

BASIC BEARING NUMBER	BORE d (mm/inch)	O.D. D (mm/inch)	WIDTH B (mm/inch)	CHAMFER r min (mm/inch)	Basic Load Ratings	
					DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
699	9	20	6	0.3	175	86
OPEN/2RS/ZZ	0.3543	0.7874	0.2362	0.012	1720	840
6900	10	22	6	0.3	275	129
OPEN/2RS/ZZ	0.3937	0.8661	0.2362	0.012	2700	1270
6901	12	24	6	0.3	295	149
OPEN/2RS/ZZ	0.4724	0.9449	0.2362	0.012	2900	1460
6902	15	28	7	0.3	440	230
OPEN/2RS/ZZ	0.5906	1.1024	0.2756	0.197	4310	2260
6903	17	30	7	0.3	470	260
OPEN/2RS/ZZ	0.6693	1.1811	0.2756	0.012	4610	2550
6904	20	37	9	0.3	650	375
OPEN/2RS/ZZ	0.7874	1.4567	0.3543	0.012	6370	2680

DEEP GROOVE BALL BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
					DYNAMIC	STATIC
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	C (Kgf/N)	Co (Kgf/N)
608	8	22	7	0.3	335	140
OPEN/2RS/ZZ	0.3150	0.8661	0.2756	0.012	3280	1370
609	9	24	8	0.3	335	140
OPEN/2RS/ZZ	0.3543	0.9449	0.3150	0.012	3280	1370
6000	10	26	8	0.3	465	201
OPEN/2RS/ZZ	0.3937	1.0236	0.3150	0.012	4550	1970
6001	12	28	8	0.3	520	241
OPEN/2RS/ZZ	0.4724	1.1024	0.3150	0.012	5100	2370
BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
					DYNAMIC	STATIC
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	C (Kgf/N)	Co (Kgf/N)
628	8	24	8	0.3	340	146
OPEN/2RS/ZZ	0.3150	0.9449	0.3150	0.012	3330	1430
629	9	26	8	0.6	465	201
OPEN/2RS/ZZ	0.3543	1.0236	0.3150	0.024	4560	1970
6200	10	30	9	0.6	520	244
OPEN/2RS/ZZ	0.3937	1.1811	0.3543	0.024	5100	2390

DEEP GROOVE BALL BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
636	6	22	7	0.3	335	140
OPEN/2RS/ZZ	0.2362	0.8661	0.2756	0.012	3280	1370
637	7	26	9	0.3	460	200
OPEN/2RS/ZZ	0.2756	1.0236	0.3543	0.012	4510	1960
638	8	28	9	0.3	460	200
OPEN/2RS/ZZ	0.3150	1.1024	0.3543	0.012	4510	1960
639	9	30	10	0.6	520	230
OPEN/2RS/ZZ	0.3543	1.1811	0.3937	0.024	5100	2250
6300	10	35	11	0.6	825	350
OPEN/2RS/ZZ	0.3937	1.3780	0.4331	0.024	8100	3450
6301	12	37	12	1	990	425
OPEN/2RS/ZZ	0.4724	1.4567	0.4724	0.039	9700	4200
6302	15	42	13	1	1162	555
OPEN/2RS/ZZ	0.5906	1.6535	0.5118	0.039	11400	5450

Inch

BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
R5A	7.938	22.225	7.142	0.4	340	138
OPEN	0.3125	0.8750	0.2812	0.016	3330	1350
R6	9.525	22.225	5.558	0.4	340	138
OPEN	0.3750	0.8750	0.2188	0.016	3330	1350
R8	12.7	28.575	6.35	0.4	520	229
OPEN	0.5000	1.1250	0.2500	0.016	6000	2250
R10	15.875	34.925	7.142	0.8	611	331
OPEN	0.6250	1.3750	0.2812	0.031	6000	3250
R12	19.05	41.275	7.938	0.8	955	510
OPEN	0.7500	1.6250	0.3125	0.031	9360	5000
R5A-2RS	7.938	22.225	7.142	0.4	340	138
	0.3125	0.8750	0.2812	0.016	3330	1350
R6-2RS	9.525	22.225	7.142	0.4	340	138
	0.3750	0.8750	0.2812	0.016	3330	1350
R8-2RS	12.7	28.575	7.938	0.4	520	229
	0.5000	1.1250	0.3125	0.016	5100	2250
R10-2RS	15.875	34.925	8.733	0.8	611	331
	0.6250	1.3750	0.3438	0.031	5100	3250
R12-2RS	19.05	41.275	11.112	0.8	955	510
	0.7500	1.6250	0.4375	0.031	9400	5000

Inch

BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
1601ZZ	17.462	4.762	6.35	0.4	201	76
	0.6875	0.1875	0.2500	0.016	1970	745
1602ZZ	17.462	6.35	6.35	0.4	201	76
	0.6875	0.2500	0.2500	0.016	1970	745
1603ZZ	22.225	7.938	7.142	0.5	340	138
	0.8750	0.3125	0.2812	0.020	3330	1350
1604ZZ	22.225	9.525	7.142	0.5	340	138
	0.8750	0.3750	0.2812	0.020	3330	1350
1605ZZ	23.017	7.938	7.938	0.5	340	138
	0.9062	0.3125	0.3125	0.020	3330	1350
1606ZZ	23.017	9.525	7.938	0.5	340	138
	0.9062	0.3750	0.3125	0.020	3330	1350
1607ZZ	23.017	11.112	7.938	0.5	328	138
	0.9062	0.4375	0.3125	0.020	3220	1350
1614ZZ	28.575	9.525	9.525	0.6	520	241
	1.1250	0.3750	0.3750	0.024	5100	2360
1615ZZ	28.575	11.112	9.525	0.6	520	241
	1.1250	0.4375	0.3750	0.024	5100	2360
1616ZZ	28.575	12.7	9.525	0.6	520	241
	1.1250	0.5000	0.3750	0.024	5100	2360

Inch

BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
1601-2RS	17.462	4.762	7.938	0.4	201	76
	0.6875	0.1875	0.3125	0.016	1970	745
1602-2RS	17.462	6.35	7.938	0.4	201	76
	0.6875	0.2500	0.3125	0.016	1970	745
1603-2RS	22.225	7.938	8.731	0.5	340	138
	0.8750	0.3125	0.3437	0.020	3330	1350
1604-2RS	22.225	9.525	8.731	0.5	340	138
	0.8750	0.3750	0.3437	0.020	3330	1350
1605-2RS	23.017	7.938	7.938	0.5	340	138
	0.9062	0.3125	0.3125	0.020	3330	1350
1606-2RS	23.017	9.525	7.938	0.5	340	138
	0.9062	0.3750	0.3125	0.020	3330	1350
1607-2RS	23.017	11.112	7.938	0.5	328	138
	0.9062	0.4375	0.3125	0.020	3210	1350
1614-2RS	28.575	9.525	9.525	0.6	520	241
	1.1250	0.3750	0.3750	0.024	5100	2360
1615-2RS	28.575	11.112	9.525	0.6	520	241
	1.1250	0.4375	0.3750	0.024	5100	2360
1616-2RS	28.575	12.7	9.525	0.6	520	241
	1.1250	0.5000	0.3750	0.024	5100	2360

MAGNETO BEARINGS

Deviations for E series and EN series.

values in 0.001mm

O.D.(mm)		ALLOWABLE DEVIATIONS			
		E SERIES		EN SERIES	
over	incl	HIGH	LOW	HIGH	LOW
	10	8	0	0	-8
10	18	8	0	0	-8
18	30	9	0	0	-9
30	50	11	0	0	-11

MAGNETO BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
E3	3	16	5	0.15	168	29
EN3	0.1181	0.6299	0.1969	0.006	1650	280
E4	4	16	5	0.15	168	29
EN4	0.1575	0.6299	0.1969	0.006	1650	280
E5	5	16	5	0.15	168	29
EN5	0.1969	0.6299	0.1969	0.006	1650	280
E6	6	21	7	0.3	254	46
EN6	0.2362	0.8268	0.2756	0.012	2500	450
E7	7	22	7	0.3	254	46
EN7	0.2756	0.8661	0.2756	0.012	2500	450
E8	8	24	7	0.3	350	66
EN8	0.3150	0.9449	0.2756	0.012	3450	650
E9	9	28	8	0.3	465	90
EN9	0.3543	1.1024	0.3150	0.012	3600	900
E10	10	28	8	0.3	465	90
EN10	0.3937	1.1024	0.3150	0.012	4600	900
E11	11	32	7	0.3	450	86
EN11	0.4331	1.2598	0.2756	0.012	4400	850
E12	12	32	7	0.3	450	86
EN12	0.4724	1.2598	0.2756	0.012	4500	850

MAGNETO BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
E13	13	30	7	0.3	450	86
EN13	0.5118	1.1811	0.2756	0.012	4400	850
E14	14	35	8	0.3	590	117
EN14	0.5512	1.3780	0.3150	0.012	5800	1150
E15	15	35	8	0.3	590	117
EN15	0.5906	1.3780	0.3150	0.012	5800	1150
E16	16	38	10	0.6	705	141
EN16	0.6299	1.4961	0.3937	0.024	6900	1400
E17	17	44	11	0.6	750	153
EN17	0.6693	1.7323	0.4331	0.024	7350	1500
E18	18	40	9	0.6	515	105
EN18	0.7087	1.5748	0.3543	0.024	5050	1050
E19	19	40	9	0.6	515	105
EN19	0.7480	1.5748	0.3543	0.024	5050	1050
E20	20	47	12	0.6	1120	245
EN20	0.7874	1.8504	0.4724	0.024	11000	2400

SELF-ALIGNING BALL BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
1200	10	30	9	0.6	570	121
OPEN	0.3937	1.1811	0.3543	0.024	5600	1200
1201	12	32	10	0.6	580	130
OPEN	0.4724	1.2598	0.3937	0.024	5700	1300
1202	15	35	11	0.6	775	179
OPEN	0.5906	1.3780	0.4331	0.024	7600	1800
1203	17	40	12	0.6	815	205
OPEN	0.6693	1.5748	0.4724	0.024	8000	2000
1204	20	47	14	1	1020	266
OPEN	0.7874	1.8504	0.5512	0.039	10000	2600
1205	25	52	15	1	1250	335
OPEN	0.9843	2.0472	0.5906	0.039	12300	3300
1206	30	62	16	1	1240	575
OPEN	1.1811	2.4409	0.6299	0.039	12200	5650

SELF-ALIGNING BALL BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
135	5	19	6	0.3	200	55
OPEN	0.1969	0.7480	0.2362	0.012	1950	550
1300	10	35	11	0.6	750	165
OPEN	0.3937	1.3780	0.4331	0.024	7350	1600
1301	12	37	12	1	985	221
OPEN	0.4724	1.4567	0.4724	0.039	9650	2200
1302	15	42	13	1	990	234
OPEN	0.5906	1.6535	0.5118	0.039	9700	2300
1303	17	47	14	1	1300	325
OPEN	0.6693	1.8504	0.5512	0.039	12740	3200
1304	20	52	15	1.1	1280	340
OPEN	0.7874	2.0472	0.5906	0.043	12500	3300

SELF-ALIGNING BALL BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
2200	10	30	14	0.6	760	162
OPEN/2RS	0.3937	1.1811	0.5512	0.024	7500	1600
2201	12	32	14	0.6	790	177
OPEN/2RS	0.4724	1.2598	0.5512	0.024	7500	1750
2202	15	35	14	0.6	795	188
OPEN/2RS	0.5906	1.3780	0.5512	0.024	7800	1850
2203	17	40	16	0.6	1010	247
OPEN/2RS	0.6693	1.5748	0.6299	0.024	10000	2400
2204	20	47	18	1.1	1310	340
OPEN/2RS	0.7874	1.8504	0.7087	0.043	13000	3350
2205	25	52	18	1	1270	350
OPEN/2RS	0.9843	2.0472	0.7087	0.039	12500	3400
2206	30	62	20	1	1560	460
OPEN/2RS	1.1811	2.4409	0.7874	0.039	15500	4500

SELF-ALIGNING BALL BEARINGS

BASIC BEARING NUMBER	BORE d (mm/inch)	O.D. D (mm/inch)	WIDTH B (mm/inch)	CHAMFER r min (mm/inch)	Basic Load Ratings	
					DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
2300	10	35	17	0.6	953	205
OPEN/2RS	0.3937	1.3780	0.6693	0.024	9300	2000
2301	12	37	17	1.1	1240	278
OPEN/2RS	0.4724	1.4567	0.6693	0.043	12200	2700
2302	15	42	17	1.1	1250	296
OPEN/2RS	0.5906	1.6535	0.6693	0.043	12300	2900
2303	17	47	19	1.1	1500	365
OPEN/2RS	0.6693	1.8504	0.7480	0.043	14700	3600
2304	20	52	21	1.1	1880	480
OPEN/2RS	0.7874	2.0472	0.8268	0.043	18400	4700
2305	25	62	24	1.5	2520	675
OPEN/2RS	0.9843	2.4409	0.9449	0.059	24700	6600

SELF-ALIGNING BALL BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
3200	10	30	14.3	0.6	845	665
OPEN	0.3937	1.1811	0.5630	0.024	8300	6500
3201	12	32	15.9	0.6	845	665
OPEN	0.4724	1.2598	0.6260	0.024	8300	6500
3202	15	35	15.9	0.6	1150	930
OPEN	0.5906	1.3780	0.6260	0.024	11300	9100
3203	17	40	17.5	0.6	1440	1200
OPEN	0.6693	1.5748	0.6890	0.024	14100	11800
3204	20	47	20.6	1	2120	1820
OPEN	0.7874	1.8504	0.8110	0.039	20800	17800
3205	25	52	20.6	1	2130	1960
OPEN	0.9843	2.0472	0.8110	0.039	21000	19200

DOUBLE ROW ANGULAR CONTACT BALL BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
					DYNAMIC	STATIC
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	C (Kgf/N)	Co (Kgf/N)
5200	10	30	14.300	0.6	730	400
	0.3937	1.1811	0.5630	0.024	7200	3900
5201	12	32	15.900	0.6	1070	590
	0.4724	1.2598	0.6260	0.024	10500	5800
5202	15	35	15.900	0.6	1190	715
	0.5906	1.3780	0.6260	0.024	11700	7000
5203	17	40	17.462	0.6	1170	765
	0.6693	1.5748	0.6875	0.024	11500	7500
5204	20	47	20.600	1	2000	1270
	0.7874	1.8504	0.8110	0.039	19600	12500
5205	25	52	20.600	1	2170	1500
	0.9843	2.0472	0.8110	0.039	21300	14700
5206	30	62	23.800	1	3000	2150
	1.1811	2.4409	0.9370	0.039	29400	21100

DOUBLE ROW ANGULAR CONTACT BALL BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
					DYNAMIC	STATIC
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	C (Kgf/N)	Co (Kgf/N)
5200-2RS	10	30	17.462	0.6	730	400
ZZ	0.3937	1.1811	0.6875	0.024	7200	3900
5201-2RS	12	32	15.900	0.6	865	480
ZZ	0.4724	1.2598	0.6260	0.024	7500	4700
5202-2RS	15	35	15.900	0.6	1190	715
ZZ	0.5906	1.3780	0.6260	0.024	11700	7000
5203-2RS	17	40	20.638	0.6	1170	765
ZZ	0.6693	1.5748	0.8125	0.024	11500	7500
5204-2RS	20	47	20.600	1	1620	1090
ZZ	0.7874	1.8504	0.8110	0.039	15900	10700
5205-2RS	25	52	20.600	1	1730	1260
ZZ	0.9843	2.0472	0.8110	0.039	17000	12400
5206-2RS	30	62	23.800	1	2570	1850
ZZ	1.1811	2.4409	0.9370	0.039	25200	18100

DOUBLE ROW ANGULAR CONTACT BALL BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	WIDTH	CHAMFER	Basic Load Ratings	
					DYNAMIC	STATIC
	d (mm/inch)	D (mm/inch)	B (mm/inch)	r min (mm/inch)	C (Kgf/N)	Co (Kgf/N)
5300	10	35	19.050	0.6	1060	560
	0.3937	1.3780	0.7500	0.024	10400	5500
5301	12	37	19.050	1	1210	640
	0.4724	1.4567	0.7500	0.039	11900	6300
5302	15	42	19.050	1	1370	755
	0.5906	1.6535	0.7500	0.039	13400	7400
5303	17	47	22.225	1	1600	955
	0.6693	1.8504	0.8750	0.039	15700	9400
5304	20	52	22.200	1.5	2510	1530
	0.7874	2.0472	0.8740	0.059	24600	15000
5305	25	62	25.400	1.5	3350	2110
	0.9843	2.4409	1.0000	0.059	32800	20700

CONTROL BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	INNER RING WIDTH	OUTER RING WIDTH	CHAMFER	Basic Load Ratings	
	d (mm/inch)	D (mm/inch)	Bi (mm/inch)	Bo (mm/inch)	r min (mm/inch)	DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
KP3AX	4.826	12.7	6.02	4.98	0.13	440	195
	0.1900	0.5000	0.2370	0.1961	0.005	4300	1900
KP4AX	6.35	19.05	7.14	5.56	0.13	853	408
	0.2500	0.7500	0.2811	0.2189	0.005	8400	4000
KP5AX	7.938	20.638	7.54	5.94	0.38	993	454
	0.3125	0.8125	0.2969	0.2339	0.015	9700	4500
KP6AX	9.525	22.225	7.95	6.35	0.38	1134	499
	0.3750	0.8750	0.3130	0.2500	0.015	11100	4900
KP8AX	12.7	28.575	9.52	7.95	0.38	1774	771
	0.5000	1.1250	0.3748	0.3130	0.015	17400	7600
KP10AX	15.875	34.925	10.31	8.74	0.38	3039	1361
	0.6250	1.3750	0.4059	0.3441	0.015	29800	13300

※The products on this page are non plating.

CONTROL BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	INNER RING WIDTH	OUTER RING WIDTH	CHAMFER	Basic Load Ratings	
	d (mm/inch)	D (mm/inch)	Bi (mm/inch)	Bo (mm/inch)	r min (mm/inch)	DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
KP3X	4.826	19.746	7.54	6.86	0.13	853	408
	0.1900	0.7774	0.2969	0.2701	0.005	8400	4000
KP4X	6.35	22.896	12.29	8.51	0.13	1216	544
	0.2500	0.9014	0.4839	0.3350	0.005	11900	5300
KP5X	7.938	31.75	14.17	9.52	0.38	2549	1134
	0.3125	1.2500	0.5579	0.3748	0.015	25000	11100
KP6X	9.525	36.516	15.75	11.91	0.38	3588	1588
	0.3750	1.4376	0.6201	0.4689	0.015	35200	15600
KP8X	12.7	42.862	15.75	12.7	0.38	5352	2359
	0.5000	1.6875	0.6201	0.5000	0.015	52500	23200
KP10X	15.875	49.212	15.75	12.7	0.38	6396	2812
	0.6250	1.9375	0.6201	0.5000	0.015	62700	27600

※The products on this page are non plating.

CONTROL BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	INNER RING WIDTH	OUTER RING WIDTH	CHAMFER	Basic Load Ratings	
	d (mm/inch)	D (mm/inch)	Bi (mm/inch)	Bo (mm/inch)	r min (mm/inch)	DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
DW4K2X	6.35	15.875	14.27	12.7	0.13	635	227
	0.2500	0.6250	0.5618	0.5000	0.005	6200	2200
DW4KX	6.35	19.05	22.22	19.05	0.13	1256	408
	0.2500	0.7500	0.8748	0.7500	0.005	12300	4000
DW4X	6.35	19.05	22.22	19.05	0.13	1701	562
	0.2500	0.7500	0.8748	0.7500	0.005	16700	5500
DW5X	7.938	22.225	23.83	20.65	0.13	2332	726
	0.3125	0.8750	0.9382	0.8130	0.005	22900	7100
DW6X	9.525	26.988	30.18	27	0.13	3828	1179
	0.3750	1.0625	1.1882	1.0630	0.005	27500	11600

CONTROL BEARINGS

BASIC BEARING NUMBER	BORE	O.D.	INNER RING WIDTH	OUTER RING WIDTH	CHAMFER	Basic Load Ratings	
	d (mm/inch)	D (mm/inch)	Bi (mm/inch)	Bo (mm/inch)	r min (mm/inch)	DYNAMIC C (Kgf/N)	STATIC Co (Kgf/N)
B538	15.875	26.988	7.14	6.35	0.38	1487	680
B538DDX	0.6250	1.0625	0.2811	0.2500	0.015	14600	6700
B539	19.05	30.162	7.14	6.35	0.38	1701	771
B539DDX	0.7500	1.1875	0.2811	0.2500	0.015	16700	7600
B540	22.225	33.338	7.14	6.35	0.38	1914	862
B540DDX	0.8750	1.3125	0.2811	0.2500	0.015	18800	8500
B541	26.988	38.1	7.14	6.35	0.38	2268	998
B541DDX	1.0625	1.5000	0.2811	0.2500	0.015	22200	9800
B542	33.338	44.45	7.14	6.35	0.38	2699	1225
B542DDX	1.3125	1.7500	0.2811	0.2500	0.015	26500	12000
B543	39.688	50.8	7.14	6.35	0.38	3121	1452
B543DDX	1.5625	2.0000	0.2811	0.2500	0.015	30600	14200

※The products on this page are non plating.

※DD teflon seal.

MATERIAL

Symbol	Similar steel	Chemical composition						
		C	Si	Mn	P	S	Cr	Mo
SUJ2	AISI52100	0.95	0.15	Max	Max	Max	1.3	-
		~1.10	~0.35	~0.5	~0.025	~0.025	~1.6	
SUS440C	AISI440C	0.95	Max	Max	Max	Max	16	Max
		1.2	1	1	~0.04	~0.03	~18	~0.75

TOLERANCE

JIS	JIS0	JIS6	JIS5	JIS4
ANSI/ABMA Std.20	ABEC1	ABEC3	ABEC5	ABEC7
DIN620	P0	P6	P5	P4
ISO492	Normal	Class6	Class5	Class4

Radial Internal Clearance in Single Row Deep Groove Ball Bearings under No Load
values in 0.001mm

Nominal Bore Diameter d (mm)		Radial Internal Clearance							
		C2		Normal		C3		C4	
over	incl	Low	High	Low	High	Low	High	Low	High
	10	-	7	2	13	8	23	14	29
10	18	-	9	3	18	11	25	18	33
18	24	-	10	5	20	13	28	20	36
24	30	-	11	5	20	13	28	23	41
30	40	-	11	6	20	15	33	28	46
40	50	-	11	6	23	18	36	30	51
50	65	-	15	8	28	23	43	38	61

values in 0.001 inch

Nominal Bore Diameter d (inch)		Radial Internal Clearance							
		C2		Normal		C3		C4	
over	incl	Low	High	Low	High	Low	High	Low	High
	0.393701	-	0.28	0.08	0.51	0.31	0.91	0.55	1.14
0.393701	0.708661	-	0.35	0.12	0.71	0.43	0.98	0.71	1.30
0.708661	0.944882	-	0.39	0.20	0.79	0.51	1.10	0.79	1.42
0.944882	1.181102	-	0.43	0.20	0.79	0.51	1.10	0.91	1.61
1.181102	1.574803	-	0.43	0.24	0.79	0.59	1.30	1.10	1.81
1.574803	1.968504	-	0.43	0.24	0.91	0.71	1.42	1.18	2.01
1.968504	2.559055	-	0.59	0.31	1.10	0.91	1.69	1.50	2.40

Radial Internal Clearances in Self-Aligning Ball Bearings with Cylindrical Bore under No Load

values in 0.001mm

Nominal Bore Diameter d (mm)		Radial Internal Clearance							
		C2		Normal		C3		C4	
over	incl	Low	High	Low	High	Low	High	Low	High
2.5	6	1	5	5	10	10	15	15	21
6	10	2	6	6	12	12	19	19	27
10	14	2	6	6	13	13	21	21	30
14	18	3	8	8	15	15	23	23	32
18	24	4	10	10	17	17	25	25	34
24	30	5	11	11	19	19	29	29	40
30	40	6	13	13	23	23	34	34	46
40	50	6	14	14	25	25	37	37	50
50	65	7	16	16	30	30	45	45	65

values in 0.001inch

Nominal Bore Diameter d (inch)		Radial Internal Clearance							
		C2		Normal		C3		C4	
over	incl	Low	High	Low	High	Low	High	Low	High
0.0984	0.2362	0.04	0.20	0.20	0.39	0.39	0.59	0.59	0.83
0.2362	0.3937	0.08	0.24	0.24	0.47	0.47	0.75	0.75	1.06
0.3937	0.5512	0.08	0.24	0.24	0.51	0.51	0.83	0.83	1.18
0.5512	0.7087	0.12	0.31	0.31	0.59	0.59	0.91	0.91	1.26
0.7087	0.9449	0.16	0.39	0.39	0.67	0.67	0.98	0.98	1.34
0.9449	1.1811	0.20	0.43	0.43	0.75	0.75	1.14	1.14	1.57
1.1811	1.5748	0.24	0.51	0.51	0.91	0.91	1.34	1.34	1.81
1.5748	1.9685	0.24	0.55	0.55	0.98	0.98	1.46	1.46	1.97
1.9685	2.5591	0.28	0.63	0.63	1.18	1.18	1.77	1.77	2.56

Radial Internal Clearance in Magneto Bearings under No Load

values in 0.001mm values in 0.001inch

Nominal Bore Diameter				Radial Internal Clearance			
mm		inch		values in 0.001mm		values in 0.001 inch	
over	incl	over	incl	Low	High	Low	High
2.5	30	0.10	1.18	30	60	11.8	23.6

Radial Internal Clearances in Double Row Angular Contact Ball Bearings under No Load

values in 0.001mm

Nominal Bore Diameter d (mm)		Radial Internal Clearance					
		C2		Normal		C3	
over	incl	Low	High	Low	High	Low	High
-	10	0	7	2	10	8	18
10	18	0	7	2	11	9	19
18	24	0	8	2	11	10	21
24	30	0	8	2	13	10	23
30	40	0	9	3	14	11	24
40	50	0	10	4	16	13	27
50	65	0	11	6	20	15	30
65	80	0	12	7	22	18	33
80	100	0	12	8	24	22	38
100	120	0	13	9	25	24	42
120	140	0	15	10	26	25	44
140	160	0	16	11	28	26	46
160	180	0	17	12	30	27	47
180	200	0	18	14	32	28	48

values in 0.001inch

Nominal Bore Diameter d (inch)		Radial Internal Clearance					
		C2		Normal		C3	
over	incl	Low	High	Low	High	Low	High
-	0.393701	0	0.28	0.08	0.39	0.31	0.71
0.393701	0.708661	0	0.28	0.08	0.43	0.35	0.75
0.708661	0.944882	0	0.31	0.08	0.43	0.39	0.83
0.944882	1.181102	0	0.31	0.08	0.51	0.39	0.91
1.181102	1.574803	0	0.35	0.12	0.55	0.43	0.94
1.574803	1.968504	0	0.39	0.16	0.63	0.51	1.06
1.968504	2.559055	0	0.43	0.24	0.79	0.59	1.18
2.559055	3.149606	0	0.47	0.28	0.87	0.71	1.30