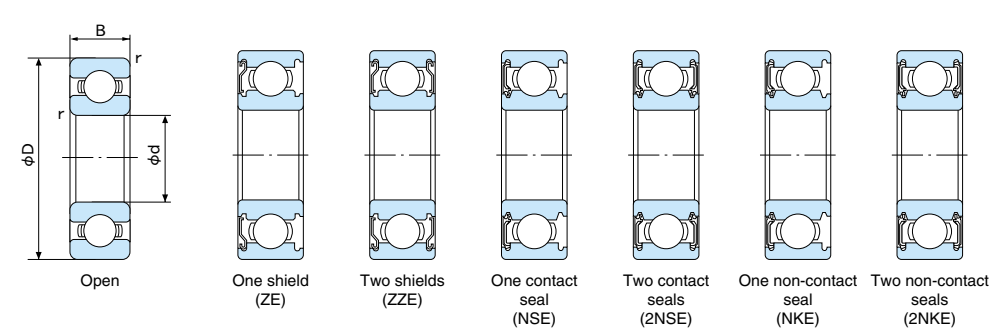
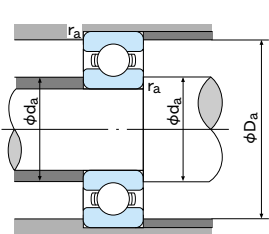
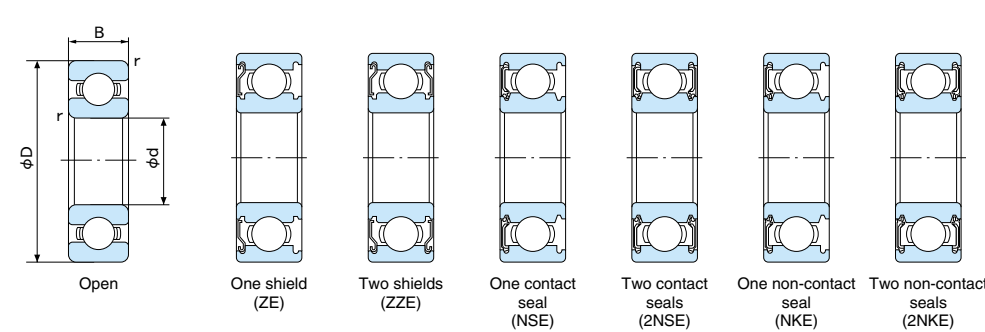


1N=0.102kgf

- Dynamic equivalent radial load
 $P_r = X F_r + Y F_a$
- Static equivalent radial load
Larger value of following to be used:
 $P_o = 0.6 F_r + 0.5 F_a$
 $P_o = F_r$

$\frac{F_a}{F_r}$ Cor	e	$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
		X	Y	X	Y
0.014 0.028 0.056	0.19 0.22 0.26	1	0	0.56	2.30 1.99 1.71
0.084 0.11 0.17	0.28 0.30 0.34	1	0	0.56	1.55 1.45 1.31
0.28 0.42 0.56	0.38 0.42 0.44	1	0	0.56	1.15 1.04 1.00

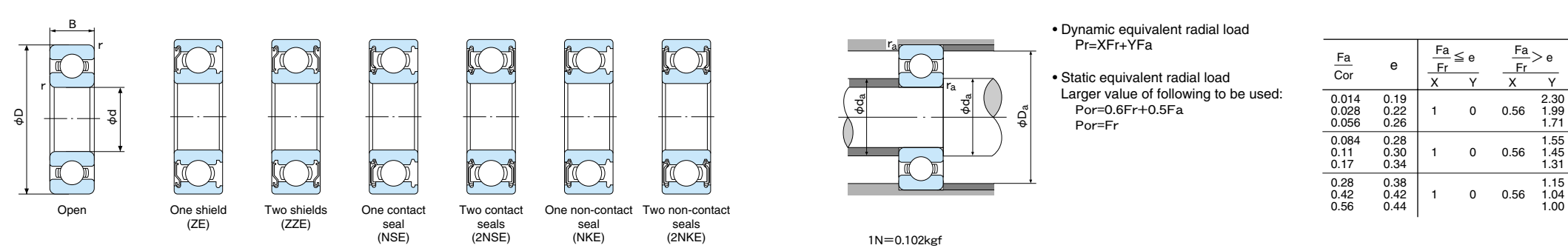
Boundary dimensions (mm)				Bearing No.							Basic dynamic load rating Cr(N)	Basic static load rating Cor(N)	Limiting speed (rpm)			Abutment and fillet dimensions (mm)			Mass (kg)	Bearing No.
													Grease lubrication		Oil lubrication	d _a (min)	D _a (max)	r _a (max)		
d	D	B	r (min)	Open type	Shield type	Contact seal type		Non-contact seal type		Open type,ZE, ZZE,NKE,2NKE			NSE,2NSE	Open type,ZE						
10	19	5	0.3	6800	6800Z	6800ZZ	—	—	—	—	2120	985	37000	24000	44000	12	17	0.3	0.005	6800
	22	6	0.3	6900	6900ZE	6900ZZE	6900NSE	6900-2NSE	6900NKE	6900-2NKE	2490	1130	33000	22000	38000	12	20	0.3	0.009	6900
	26	8	0.3	6000	6000ZE	6000ZZE	6000NSE	6000-2NSE	6000NKE	6000-2NKE	4550	1970	30000	20000	36000	12	24	0.3	0.019	6000
	30	9	0.6	6200	6200ZE	6200ZZE	6200NSE	6200-2NSE	6200NKE	6200-2NKE	5100	2390	24000	17000	30000	15	25	0.6	0.032	6200
	35	11	0.6	6300	6300ZE	6300ZZE	6300NSE	6300-2NSE	6300NKE	6300-2NKE	8100	3450	21000	17000	26000	15	30	0.6	0.053	6300
12	21	5	0.3	6801	6801ZE	6801ZZE	6801NSE	6801-2NSE	6801NKE	6801-2NKE	1920	1040	32000	20000	39000	14	19	0.3	0.006	6801
	24	6	0.3	6901	6901ZE	6901ZZE	6901NSE	6901-2NSE	6901NKE	6901-2NKE	2700	1320	30000	19000	35000	14	22	0.3	0.011	6901
	28	8	0.3	6001	6001ZE	6001ZZE	6001NSE	6001-2NSE	6001NKE	6001-2NKE	5100	2390	27000	17000	32000	14	26	0.3	0.023	6001
	32	10	0.6	6201	6201ZE	6201ZZE	6201NSE	6201-2NSE	6201NKE	6201-2NKE	6800	3050	22000	16000	27000	17	27	0.6	0.037	6201
	37	12	1	6301	6301ZE	6301ZZE	6301NSE	6301-2NSE	6301NKE	6301-2NKE	9750	4250	19000	15000	24000	18	31	1.0	0.060	6301
15	24	5	0.3	6802	6802ZE	6802ZZE	6802NSE	6802-2NSE	6802NKE	6802-2NKE	2080	1260	27000	16000	32000	17	22	0.3	0.007	6802
	28	7	0.3	6902	6902ZE	6902ZZE	6902NSE	6902-2NSE	6902NKE	6902-2NKE	4300	2250	26000	15000	31000	17	26	0.3	0.016	6902
	32	8	0.3	16002	—	—	—	—	—	—	5600	2840	23000	—	28000	20	27	0.3	0.025	16002
	32	9	0.3	6002	6002ZE	6002ZZE	6002NSE	6002-2NSE	6002NKE	6002-2NKE	5600	2840	23000	14000	28000	17	30	0.3	0.032	6002
	35	11	0.6	6202	6202ZE	6202ZZE	6202NSE	6202-2NSE	6202NKE	6202-2NKE	7650	3700	19000	13000	24000	20	30	0.6	0.045	6202
17	42	13	1	6302	6302ZE	6302ZZE	6302NSE	6302-2NSE	6302NKE	6302-2NKE	11400	5400	17000	12000	20000	21	36	1.0	0.082	6302
	26	5	0.3	6803	6803ZE	6803ZZE	6803NSE	6803-2NSE	6803NKE	6803-2NKE	2630	1570	25000	15000	30000	19	24	0.3	0.008	6803
	30	7	0.3	6903	6903ZE	6903ZZE	6903NSE	6903-2NSE	6903NKE	6903-2NKE	4600	2550	24000	14000	29000	19	28	0.3	0.018	6903
	35	8	0.3	16003	—	—	—	—	—	—	6000	3250	20000	—	24000	22	30	0.3	0.032	16003
	35	10	0.3	6003	6003ZE	6003ZZE	6003NSE	6003-2NSE	6003NKE	6003-2NKE	6000	3250	20000	13000	25000	19	33	0.3	0.039	6003
20	40	12	0.6	6203	6203ZE	6203ZZE	6203NSE	6203-2NSE	6203NKE	6203-2NKE	9550	4800	17000	12000	21000	22	35	0.6	0.065	6203
	47	14	1	6303	6303ZE	6303ZZE	6303NSE	6303-2NSE	6303NKE	6303-2NKE	13600	6550	15000	11000	18000	23	41	1.0	0.115	6303
	32	7	0.3	6804	6804ZE	6804ZZE	6804NSE	6804-2NSE	6804NKE	6804-2NKE	4000	2640	20000	12000	24000	22	30	0.3	0.019	6804
	37	9	0.3	6904	6904ZE	6904ZZE	6904NSE	6904-2NSE	6904NKE	6904-2NKE	6350	3700	19000	11000	23000	22	35	0.3	0.036	6904
	42	8	0.3	16004	—	—	—	—	—	—	7900	4500	17000	—	21000	25	37	0.3	0.050	16004
22	42	12	0.6	6004	6004ZE	6004ZZE	6004NSE	6004-2NSE	6004NKE	6004-2NKE	9400	5000	17000	11000	21000	24	38	0.6	0.070	6004
	47	14	1	6204	6204ZE	6204ZZE	6204NSE	6204-2NSE	6204NKE	6204-2NKE	12800	6600	14000	10000	18000	26	41	1.0	0.106	6204
	52	15	1.1	6304	6304ZE	6304ZZE	6304NSE	6304-2NSE	6304NKE	6304-2NKE	15900	7900	13000	9500	16000	27	45	1.1	0.144	6304
	50	14	1	62/22	62/22ZE	62/22ZZE	62/22NSE	62/22-2NSE	62/22NKE	62/22-2NKE	13900	6950	13000	9000	17000	28	44	1.0	0.120	62/22
	56	16	1.1	63/22	63/22ZE	63/22ZZE	63/22NSE	63/22-2NSE	63/22NKE	63/22-2NKE	18400	9250	12000	8000	15000	29	49	1.0	0.176	63/22
25	37	7	0.3	6805	6805ZE	6805ZZE	6805NSE	6805-2NSE	6805NKE	6805-2NKE	4300	2940	18000	10000	20000	27	35	0.3	0.022	6805
	42	9	0.3	6905	6905ZE	6905ZZE	6905NSE	6905-2NSE	6905NKE	6905-2NKE	7000	4500	16000	9500	20000	27	40	0.3	0.042	6905
	47	8	0.3	16005	—	—	—	—	—	—	6950	4600	15000	—	18000	30	42	0.3	0.060	16005
	47	12	0.6	6005	6005ZE	6005ZZE	6005NSE	6005-2NSE	6005NKE	6005-2NKE	10100	5850	15000	9000	18000	29	43	0.6	0.079	6005
	52	15	1	6205	6205ZE	6205ZZE	6205NSE	6205-2NSE	6205NKE	6205-2NKE	14000	7900	12000	8500	16000	31	46	1.0	0.128	6205
25	62	17	1.1	6305	6305ZE	6305ZZE	6305NSE	6305-2NSE	6305NKE	6305-2NKE	23600	12100	11000	8000	14000	32	55	1.0	0.232	6305



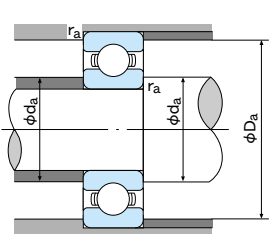
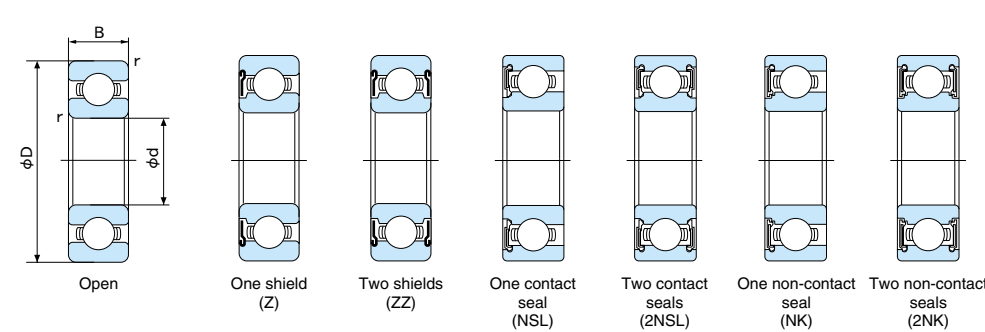
- Dynamic equivalent radial load
 $P_r = X F_r + Y F_a$
- Static equivalent radial load
Larger value of following to be used:
 $P_{0r} = 0.6 F_r + 0.5 F_a$
 $P_{0r} = F_r$

$\frac{F_a}{F_r}$ Cor	e	$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
		X	Y	X	Y
0.014	0.19	1	0	0.56	2.30
0.028	0.22				1.99
0.056	0.26				1.71
0.084	0.28	1	0	0.56	1.55
0.11	0.30				1.45
0.17	0.34				1.31
0.28	0.38	1	0	0.56	1.15
0.42	0.42				1.04
0.56	0.44				1.00

Boundary dimensions (mm)				Bearing No.								Basic dynamic load rating Cr(N)	Basic static load rating Cor(N)	Limiting speed (rpm)			Abutment and fillet dimensions (mm)			Mass (kg)	Bearing No.
d	D	B	r (min)	Open type	Shield type	Contact seal type	Non-contact seal type		Grease lubrication		Oil lubrication			d _a (min)	D _a (max)	r _a (max)					
									Open type,ZE, ZZE,NKE,2NKE	NSE,2NSE	Open type,ZE										
28	58	16	1	62/28	62/28ZE	62/28ZZE	62/28NSE	62/28-2NSE	62/28NKE	62/28-2NKE	17900	9750	11000	8200	14000	34	52	1.0	0.175	62/28	
	68	18	1.1	63/28	63/28ZE	63/28ZZE	63/28NSE	63/28-2NSE	63/28NKE	63/28-2NKE	26800	14000	10000	7000	12000	35	61	1.0	0.287	63/28	
30	42	7	0.3	6806	6806ZE	6806ZZE	6806NSE	6806-2NSE	6806NKE	6806-2NKE	5350	3800	15000	8700	17000	32	40	0.3	0.026	6806	
	47	9	0.3	6906	6906ZE	6906ZZE	6906NSE	6906-2NSE	6906NKE	6906-2NKE	7250	5000	14000	8200	16000	32	45	0.3	0.045	6906	
	55	9	0.3	16006	—	—	—	—	—	—	9950	6550	12000	—	15000	35	50	0.3	0.085	16006	
	55	13	1	6006	6006ZE	6006ZZE	6006NSE	6006-2NSE	6006NKE	6006-2NKE	13200	8300	12000	7700	15000	35	50	1.0	0.117	6006	
32	62	16	1	6206	6206ZE	6206ZZE	6206NSE	6206-2NSE	6206NKE	6206-2NKE	19500	11300	10000	7300	13000	36	56	1.0	0.199	6206	
	72	19	1.1	6306	6306ZE	6306ZZE	6306NSE	6306-2NSE	6306NKE	6306-2NKE	26700	15000	9200	6600	11000	37	65	1.0	0.346	6306	
	65	17	1	62/32	62/32ZE	62/32ZZE	62/32NSE	62/32-2NSE	62/32NKE	62/32-2NKE	22400	13100	9500	7000	12000	38	59	1.0	0.230	62/32	
	75	20	1.1	63/32	63/32ZE	63/32ZZE	63/32NSE	63/32-2NSE	63/32NKE	63/32-2NKE	30000	16200	9000	6000	11000	39	68	1.0	0.382	63/32	
35	47	7	0.3	6807	6807ZE	6807ZZE	6807NSE	6807-2NSE	6807NKE	6807-2NKE	4750	3800	13000	7600	15000	37	45	0.3	0.029	6807	
	55	10	0.6	6907	6907ZE	6907ZZE	6907NSE	6907-2NSE	6907NKE	6907-2NKE	10400	7150	12000	7000	14000	39	51	0.6	0.073	6907	
	62	9	0.3	16007	—	—	—	—	—	—	11700	8150	11000	—	13000	40	57	0.3	0.110	16007	
	62	14	1	6007	6007ZE	6007ZZE	6007NSE	6007-2NSE	6007NKE	6007-2NKE	16000	10300	11000	6800	13000	40	57	1.0	0.156	6007	
40	72	17	1.1	6207	6207ZE	6207ZZE	6207NSE	6207-2NSE	6207NKE	6207-2NKE	25700	15300	9000	6300	11000	42	65	1.0	0.288	6207	
	80	21	1.5	6307	6307ZE	6307ZZE	6307NSE	6307-2NSE	6307NKE	6307-2NKE	33500	19200	8400	5900	10000	44	71	1.5	0.457	6307	
	52	7	0.3	6808	6808ZE	6808ZZE	6808NSE	6808-2NSE	6808NKE	6808-2NKE	5950	4900	12000	6700	14000	42	50	0.3	0.033	6808	
	62	12	0.6	6908	6908ZE	6908ZZE	6908NSE	6908-2NSE	6908NKE	6908-2NKE	13700	9950	11000	6100	13000	44	58	0.6	0.108	6908	
45	68	9	0.3	16008	—	—	—	—	—	—	11100	8550	9700	—	12000	45	63	0.3	0.125	16008	
	68	15	1	6008	6008ZE	6008ZZE	6008NSE	6008-2NSE	6008NKE	6008-2NKE	16800	11500	9500	6000	12000	45	63	1.0	0.194	6008	
	80	18	1.1	6208	6208ZE	6208ZZE	6208NSE	6208-2NSE	6208NKE	6208-2NKE	29100	17900	8200	5600	10000	47	73	1.0	0.366	6208	
	90	23	1.5	6308	6308ZE	6308ZZE	6308NSE	6308-2NSE	6308NKE	6308-2NKE	40500	24100	7500	5200	9000	49	81	1.5	0.633	6308	
45	58	7	0.3	6809	6809ZE	6809ZZE	6809NSE	6809-2NSE	6809NKE	6809-2NKE	5350	4900	11000	5900	13000	47	56	0.3	0.040	6809	
	68	12	0.6	6909	6909ZE	6909ZZE	6909NSE	6909-2NSE	6909NKE	6909-2NKE	14100	10900	10000	5600	12000	49	64	0.6	0.122	6909	
	75	10	0.6	16009	—	—	—	—	—	—	12900	10500	9000	—	11000	52	68	0.6	0.170	16009	
	75	16	1	6009	6009ZE	6009ZZE	6009NSE	6009-2NSE	6009NKE	6009-2NKE	20900	15200	8800	5300	11000	50	70	1.0	0.246	6009	
50	85	19	1.1	6209	6209ZE	6209ZZE	6209NSE	6209-2NSE	6209NKE	6209-2NKE	32500	20500	7600	5100	9300	52	78	1.0	0.407	6209	
	100	25	1.5	6309	6309ZE	6309ZZE	6309NSE	6309-2NSE	6309NKE	6309-2NKE	53000	32000	6700	4600	8000	54	91	1.5	0.833	6309	
	65	7	0.3	6810	6810ZE	6810ZZE	6810NSE	6810-2NSE	6810NKE	6810-2NKE	6400	5800	10000	5300	12000	52	63	0.3	0.052	6810	
	72	12	0.6	6910	6910ZE	6910ZZE	6910NSE	6910-2NSE	6910NKE	6910-2NKE	14500	11700	9500	5100	11000	54	68	0.6	0.125	6910	
50	80	10	0.6	16010	—	—	—	—	—	—	16100	13100	8300	—	10000	57	73	0.6	0.180	16010	
	80	16	1	6010	6010ZE	6010ZZE	6010NSE	6010-2NSE	6010NKE	6010-2NKE	21800	16600	8300	4800	10000	55	75	1.0	0.264	6010	
	90	20	1.1	6210	6210ZE	6210ZZE	6210NSE	6210-2NSE	6210NKE	6210-2NKE	35000	23200	7000	4700	8600	57	83	1.0	0.463	6210	
	110	27	2	6310	6310ZE	6310ZZE	6310NSE	6310-2NSE	6310NKE	6310-2NKE	62000	38000	6200	4100	7300	60	100	2.0	1.07	6310	



Boundary dimensions (mm)				Bearing No.							Basic dynamic load rating Cr(N)	Basic static load rating Cor(N)	Limiting speed (rpm)			Abutment and fillet dimensions (mm)			Mass (kg)	Bearing No.
d	D	B	r (min)	Open type	Shield type	Contact seal type	Non-contact seal type	Grease lubrication		Oil lubrication			d _a (min)	D _a (max)	r _a (max)					
								Open type,ZE, ZSE,NKE,2NKE	NSE,2NSE NSL,2NSL	Open type,ZE										
55	72	9	0.3	6811	6811Z	6811ZZ	—	—	—	—	8800	8100	8500	—	10000	57	70	0.3	0.083	6811
	80	13	1	6911	6911Z	6911ZZ	—	—	—	—	16000	13200	8000	—	9000	60	75	1.0	0.177	6911
	90	11	0.6	16011	—	—	—	—	—	—	15200	13500	7500	—	9000	62	83	0.6	0.260	16011
	90	18	1.1	6011	6011ZE	6011ZZE	6011NSE	6011-2NSE	6011NKE	6011-2NKE	28300	21300	7500	4400	9000	61	84	1.0	0.384	6011
	100	21	1.5	6211	6211ZE	6211ZZE	6211NSE	6211-2NSE	6211NKE	6211-2NKE	43500	29300	6300	4200	7700	64	91	1.5	0.607	6211
	120	29	2	6311	6311ZE	6311ZZE	6311NSE	6311-2NSE	6311NKE	6311-2NKE	71500	44500	5600	3800	6600	65	110	2.0	1.37	6311
60	78	10	0.3	6812	6812Z	6812ZZ	—	—	—	—	11500	10600	8000	—	9500	62	76	0.3	0.106	6812
	85	13	1	6912	6912Z	6912ZZ	—	—	—	—	15200	13500	7500	—	9000	65	80	1.0	0.191	6912
	95	11	0.6	16012	—	—	—	—	—	—	16200	14300	7000	—	8200	67	88	0.6	0.280	16012
	95	18	1.1	6012	6012ZE	6012ZZE	6012NSE	6012-2NSE	6012NKE	6012-2NKE	29400	23200	7000	4100	8300	66	89	1.0	0.418	6012
	110	22	1.5	6212	6212ZE	6212ZZE	6212NSE	6212-2NSE	6212NKE	6212-2NKE	52500	36000	5800	3800	7100	69	101	1.5	0.783	6212
	130	31	2.1	6312	6312ZE	6312ZZE	6312NSE	6312-2NSE	6312NKE	6312-2NKE	82000	52000	5100	3500	6100	72	118	2.0	1.70	6312
65	85	10	0.6	6813	6813Z	6813ZZ	—	—	—	—	11900	11500	7500	—	8500	69	81	0.6	0.125	6813
	90	13	1	6913	6913Z	6913ZZ	—	—	—	—	17400	16000	7000	—	8500	70	85	1.0	0.200	6913
	100	11	0.6	16013	—	—	—	—	—	—	20500	18600	6500	—	7500	72	93	0.6	0.300	16013
	100	18	1.1	6013	6013ZE	6013ZZE	6013NSE	6013-2NSE	6013NKE	6013-2NKE	30500	25200	6500	3800	7800	71	94	1.0	0.438	6013
	120	23	1.5	6213	6213ZE	6213ZZE	6213NSE	6213-2NSE	6213NKE	6213-2NKE	57000	40000	5300	3500	6500	74	111	1.5	0.990	6213
	140	33	2.1	6313	6313ZE	6313ZZE	6313NSE	6313-2NSE	6313NKE	6313-2NKE	92500	59500	4700	3300	5700	77	128	2.0	2.08	6313
70	90	10	0.6	6814	6814Z	6814ZZ	—	—	—	—	12100	11900	7000	—	8000	74	86	0.6	0.135	6814
	100	16	1	6914	6914Z	6914ZZ	—	—	—	—	23700	21100	6500	—	7500	75	95	1.0	0.327	6914
	110	13	0.6	16014	—	—	—	—	—	—	26800	23600	6000	—	7000	77	103	0.6	0.433	16014
	110	20	1.1	6014	6014ZE	6014ZZE	6014NSE	6014-2NSE	6014NKE	6014-2NKE	38000	31000	6000	3500	7100	76	104	1.0	0.607	6014
	125	24	1.5	6214	6214ZE	6214ZZE	6214NSE	6214-2NSE	6214NKE	6214-2NKE	62000	44000	5000	3300	5900	79	116	1.5	1.07	6214
	150	35	2.1	6314	6314ZE	6314ZZE	6314NSE	6314-2NSE	6314NKE	6314-2NKE	104000	68000	4400	3100	5300	82	138	2.0	2.52	6314
75	95	10	0.6	6815	6815Z	6815ZZ	—	—	—	—	12500	12800	6500	—	7500	79	91	0.6	0.145	6815
	105	16	1	6915	6915Z	6915ZZ	—	—	—	—	20800	19700	6200	—	7200	80	100	1.0	0.345	6915
	115	13	0.6	16015	—	—	—	—	—	—	27600	25300	5500	—	6500	82	108	0.6	0.457	16015
	115	20	1.1	6015	6015ZE	6015ZZE	6015NSE	6015-2NSE	6015NKE	6015-2NKE	39500	33500	5700	3300	6700	81	109	1.0	0.645	6015
	130	25	1.5	6215	6215ZE	6215ZZE	6215NSE	6215-2NSE	6215NKE	6215-2NKE	66000	49500	4800	3100	5600	84	121	1.5	1.18	6215
	160	37	2.1	6315	6315ZE	6315ZZE	6315NSE	6315-2NSE	6315NKE	6315-2NKE	113000	77000	4100	2900	5000	87	148	2.0	3.02	6315
80	100	10	0.6	6816	6816Z	6816ZZ	—	—	—	—	12700	13300	6000	—	7000	84	96	0.6	0.155	6816
	110	16	1	6916	6916Z	6916ZZ	—	—	—	—	27600	25300	5500	—	6500	85	105	1.0	0.363	6916
	125	14	0.6	16016	—	—	—	—	—	—	32000	29600	5300	—	6200	87	118	0.6	0.597	16016
	125	22	1.1	6016	6016Z	6016ZZ	—	—	—	—	47500	39500	5300	—	6200	86	119	1.0	0.855	6016
	140	26	2	6216	6216Z	6216ZZ	6216NSL	6216-2NSL	6216NK	6216-2NK	72500	53000	4500	3000	5200	90	130	2.0	1.40	6216
	170	39	2.1	6316	6316Z	6316ZZ	6316NSL	6316-2NSL	6316NK	6316-2NK	123000	86500	3800	2700	4500	92	158	2.0	3.59	6316



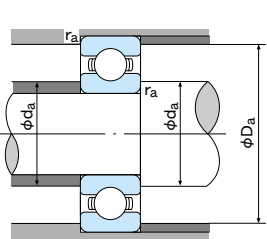
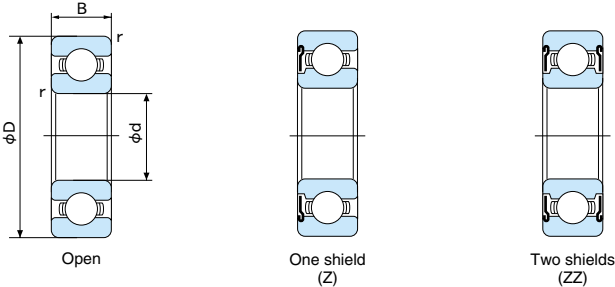
- Dynamic equivalent radial load
 $P_r = X F_r + Y F_a$
- Static equivalent radial load
Larger value of following to be used:
 $P_{or} = 0.6 F_r + 0.5 F_a$
 $P_{or} = F_r$

$\frac{F_a}{F_r}$ Cor	e	$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
		X	Y	X	Y
0.014	0.19	1	0	0.56	2.30
0.028	0.22				1.99
0.056	0.26				1.71
0.084	0.28	1	0	0.56	1.55
0.11	0.30				1.45
0.17	0.34				1.31
0.28	0.38	1	0	0.56	1.15
0.42	0.42				1.04
0.56	0.44				1.00

Boundary dimensions (mm)				Bearing No.							Basic dynamic load rating Cr(N)	Basic static load rating Cor(N)	Limiting speed (rpm)			Abutment and fillet dimensions (mm)			Mass (kg)	Bearing No.
d	D	B	r (min)	Open type	Shield type	Contact seal type	Non-contact seal type	Grease lubrication		Oil lubrication			d _a (min)	D _a (max)	r _a (max)					
								Open type,Z, ZZ,NK,2NK	NSL,2NSL	Open type,Z										
85	110	13	1	6817	6817Z	6817ZZ	—	—	—	—	18700	19000	5500	—	6500	90	105	1.0	0.265	6817
	120	18	1.1	6917	6917Z	6917ZZ	—	—	—	—	32000	29600	5200	—	6300	91	113	1.0	0.517	6917
	130	14	0.6	16017	—	—	—	—	—	—	31500	29800	5000	—	6000	92	123	0.6	0.626	16017
	130	22	1.1	6017	6017Z	6017ZZ	—	—	—	—	49500	43000	5000	—	6000	91	124	1.1	0.895	6017
	150	28	2	6217	6217Z	6217ZZ	6217NSL	6217-2NSL	6217NK	6217-2NK	84000	62000	4200	2800	4900	95	140	2.0	1.79	6217
	180	41	3	6317	6317Z	6317ZZ	6317NSL	6317-2NSL	6317NK	6317-2NK	133000	96500	3600	2600	4300	99	166	2.5	4.23	6317
90	115	13	1	6818	6818Z	6818ZZ	—	—	—	—	19000	19700	5300	—	6200	95	110	1.0	0.280	6818
	125	18	1.1	6918	6918Z	6918ZZ	—	—	—	—	33000	31500	5000	—	6000	96	119	1.0	0.540	6918
	140	16	1	16018	—	—	—	—	—	—	41500	39500	4800	—	5600	99	131	1.0	0.848	16018
	140	24	1.5	6018	6018Z	6018ZZ	—	—	—	—	58000	49500	4700	—	5600	97	133	1.5	1.17	6018
	160	30	2	6218	6218Z	6218ZZ	6218NSL	6218-2NSL	6218NK	6218-2NK	96000	71500	3900	2600	4600	100	150	2.0	2.15	6218
	190	43	3	6318	6318Z	6318ZZ	6318NSL	6318-2NSL	6318NK	6318-2NK	143000	107000	3400	2400	4000	104	176	2.5	4.91	6318
95	120	13	1	6819	6819Z	6819ZZ	—	—	—	—	19300	20500	5000	—	6000	100	115	1.0	0.298	6819
	130	18	1.1	6919	6919Z	6919ZZ	—	—	—	—	33500	33500	4700	—	5500	101	124	1.0	0.567	6919
	145	16	1	16019	—	—	—	—	—	—	41000	39500	4600	—	5300	104	136	1.0	0.885	16019
	145	24	1.5	6019	6019Z	6019ZZ	—	—	—	—	60500	54000	4500	—	5300	102	138	1.5	1.22	6019
	170	32	2.1	6219	6219Z	6219ZZ	6219NSL	6219-2NSL	6219NK	6219-2NK	109000	81500	3700	2400	4300	107	158	2.0	2.62	6219
	200	45	3	6319	6319Z	6319ZZ	6319NSL	6319-2NSL	6319NK	6319-2NK	153000	118000	3200	2200	3800	109	186	2.5	5.67	6319
100	125	13	1	6820	6820Z	6820ZZ	—	—	—	—	19600	21200	4600	—	5500	105	120	1.0	0.311	6820
	140	20	1.1	6920	6920Z	6920ZZ	—	—	—	—	37000	36500	4400	—	5300	106	134	1.0	0.771	6920
	150	16	1	16020	—	—	—	—	—	—	37500	39500	4300	—	5000	109	141	1.0	0.910	16020
	150	24	1.5	6020	6020Z	6020ZZ	—	—	—	—	60000	54000	4200	—	5000	107	143	1.5	1.26	6020
	180	34	2.1	6220	6220Z	6220ZZ	6220NSL	6220-2NSL	6220NK	6220-2NK	122000	93000	3500	2300	4100	112	168	2.0	3.14	6220
	215	47	3	6320	6320Z	6320ZZ	6320NSL	6320-2NSL	6320NK	6320-2NK	173000	141000	3000	2100	3600	114	201	2.5	7.00	6320
105	130	13	1	6821	—	—	—	—	—	—	19900	21900	4500	—	5500	110	125	1.0	0.325	6821
	145	20	1.1	6921	—	—	—	—	—	—	42500	42000	4200	—	5100	111	139	1.0	0.793	6921
	160	18	1	16021	—	—	—	—	—	—	37500	50500	4000	—	4800	114	151	1.0	1.20	16021
	160	26	2	6021	6021Z	6021ZZ	—	—	—	—	72500	65500	4000	—	4800	113	152	2.0	1.60	6021
	190	36	2.1	6221	6221Z	6221ZZ	—	—	—	—	133000	104000	3200	—	3900	117	178	2.0	3.76	6221
	225	49	3	6321	6321Z	6321ZZ	—	—	—	—	184000	153000	2800	—	3400	119	211	2.5	8.05	6321
110	140	16	1	6822	—	—	—	—	—	—	27300	29400	4200	—	5100	115	135	1.0	0.510	6822
	150	20	1.1	6922	—	—	—	—	—	—	38000	38500	4000	—	5000	116	144	1.0	0.830	6922
	170	19	1	16022	—	—	—	—	—	—	44000	45000	3800	—	4500	119	161	1.0	1.46	16022
	170	28	2	6022	6022Z	6022ZZ	—	—	—	—	84500	73000	3800	—	4500	118	162	2.0	1.97	6022
	200	38	2.1	6222	6222Z	6222ZZ	—	—	—	—	144000	117000	3000	—	3700	122	188	2.0	4.36	6222
	240	50	3	6322	6322Z	6322ZZ	—	—	—	—	205000	179000	2600	—	3200	124	226	2.5	9.54	6322

Deep-groove Ball Bearings

Bore Diameter : 120~170mm



- Dynamic equivalent radial load
 $P_r = X F_r + Y F_a$
- Static equivalent radial load
Larger value of following to be used:
 $P_{or} = 0.6 F_r + 0.5 F_a$
 $P_{or} = F_r$

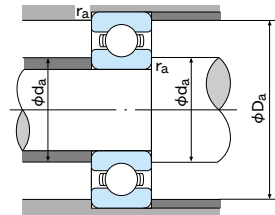
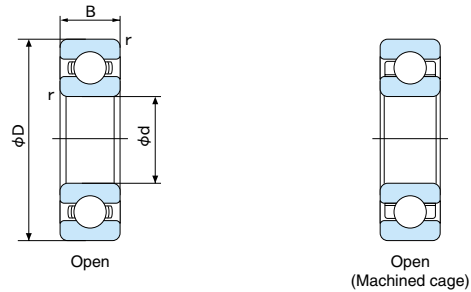
$\frac{F_a}{F_r}$ Cor	e	$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
		X	Y	X	Y
0.014	0.19	1	0	0.56	2.30
0.028	0.22				1.99
0.056	0.26				1.71
0.084	0.28	1	0	0.56	1.55
0.11	0.30				1.45
0.17	0.34				1.31
0.28	0.38	1	0	0.56	1.15
0.42	0.42				1.04
0.56	0.44				1.00

1N=0.102kgf

Boundary dimensions (mm)				Bearing No.						Basic dynamic load rating Cr (N)	Basic static load rating Cor(N)	Limiting speed (rpm)			Abutment and fillet dimensions (mm)			Mass (kg)	Bearing No.
d	D	B	r (min)	Open type	Shield type	Contact seal type	Non-contact seal type	Grease lubrication				Oil lubrication	d _a (min)	D _a (max)	r _a (max)				
								Open type,Z, ZZ,NK,2NK	NSL,2NSL			Open type,Z							
120	150	16	1	6824	—	—	—	—	—	28300	31500	4000	—	4800	125	145	1.0	0.549	6824
	165	22	1.1	6924	—	—	—	—	—	53000	54000	3700	—	4600	126	159	1.0	1.13	6924
	180	19	1	16024	—	—	—	—	—	48000	50000	3500	—	4200	129	171	1.0	1.80	16024
	180	28	2	6024	6024Z	6024ZZ	—	—	—	88000	79500	3500	—	4200	128	172	2.0	2.67	6024
	215	40	2.1	6224	6224Z	6224ZZ	—	—	—	145000	118000	2800	—	3400	132	203	2.0	5.15	6224
	260	55	3	6324	6324Z	6324ZZ	—	—	—	207000	185000	2400	—	3000	134	246	2.5	14.6	6324
130	165	18	1.1	6826	—	—	—	—	—	37000	41000	3600	—	4400	136	158	1.0	0.790	6826
	180	24	1.5	6926	—	—	—	—	—	65000	67000	3400	—	4200	137	173	1.5	1.78	6926
	200	22	1.1	16026	—	—	—	—	—	55000	59500	3200	—	3600	144	186	1.0	2.69	16026
	200	33	2	6026	6026Z	6026ZZ	—	—	—	106000	101000	3200	—	3800	138	192	2.0	3.92	6026
	230	40	3	6226	6226Z	6226ZZ	—	—	—	167000	146000	2600	—	3200	144	216	2.5	5.82	6226
	280	58	4	6326	6326Z	6326ZZ	—	—	—	229000	214000	2200	—	2800	148	262	3.0	18.2	6326
140	175	18	1.1	6828	—	—	—	—	—	38000	44500	3400	—	4000	146	169	1.0	0.840	6828
	190	24	1.5	6928	—	—	—	—	—	66500	71000	3200	—	3800	147	183	1.5	1.90	6928
	210	22	1.1	16028	—	—	—	—	—	56000	62000	3000	—	3500	154	196	1.0	2.86	16028
	210	33	2	6028	6028Z	6028ZZ	—	—	—	110000	109000	3000	—	3600	148	202	2.0	4.15	6028
	250	42	3	6228	6228Z	6228ZZ	—	—	—	166000	150000	2400	—	2900	154	236	2.5	7.47	6228
	300	62	4	6328	6328Z	6328ZZ	—	—	—	253000	246000	2100	—	2600	158	282	3.0	21.8	6328
150	190	20	1.1	6830	—	—	—	—	—	47500	54500	3100	—	3500	156	184	1.0	1.20	6830
	210	28	2	6930	—	—	—	—	—	85500	87000	2800	—	3100	158	202	2.0	2.64	6930
	225	24	1.1	16030	—	—	—	—	—	76500	82500	2600	—	3200	164	211	1.0	3.58	16030
	225	35	2.1	6030	6030Z	6030ZZ	—	—	—	126000	126000	2600	—	3200	159	216	2.0	4.48	6030
	270	45	3	6230	6230Z	6230ZZ	—	—	—	176000	168000	2200	—	2600	164	256	2.5	9.41	6230
	320	65	4	6330	—	—	—	—	—	274000	284000	2000	—	2400	168	302	3.0	26.2	6330
160	200	20	1.1	6832	—	—	—	—	—	48500	56500	2800	—	3100	166	194	1.0	1.30	6832
	220	28	2	6932	—	—	—	—	—	87500	95500	2600	—	2900	168	212	2.0	3.01	6932
	240	38	2.1	6032	—	—	—	—	—	137000	135000	2400	—	3000	169	231	2.0	5.89	6032
	290	48	3	6232	6232Z	6232ZZ	—	—	—	185000	186000	2000	—	2400	174	276	2.5	14.3	6232
	340	68	4	6332	—	—	—	—	—	278000	287000	1800	—	2000	178	322	3.0	28.6	6332
	170	215	22	1.1	6834	—	—	—	—	—	60000	70500	2600	—	3000	177	208	1.0	1.85
230		28	2	6934	—	—	—	—	—	86000	95000	2400	—	2800	178	222	2.0	3.17	6934
260		42	2.1	6034	—	—	—	—	—	161000	160000	2200	—	2800	179	251	2.0	7.92	6034
310		52	4	6234	—	—	—	—	—	212000	224000	1900	—	2300	188	292	3.0	17.5	6234
360		72	4	6334	—	—	—	—	—	325000	355000	1600	—	1900	188	342	3.0	34.0	6334

Deep-groove Ball Bearings

Bore Diameter : 180~320mm



- Dynamic equivalent radial load
 $P_r = X F_r + Y F_a$
- Static equivalent radial load
Larger value of following to be used:
 $P_{or} = 0.6 F_r + 0.5 F_a$
 $P_{or} = F_r$

$\frac{F_a}{F_r}$ Cor	e	$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
		X	Y	X	Y
0.014	0.19	1	0	0.56	2.30
0.028	0.22				1.99
0.056	0.26				1.71
0.084	0.28	1	0	0.56	1.55
0.11	0.30				1.45
0.17	0.34				1.31
0.28	0.38	1	0	0.56	1.15
0.42	0.42				1.04
0.56	0.44				1.00

1N=0.102kgf

Boundary dimensions (mm)				Bearing No.								Basic dynamic load rating Cr(N)	Basic static load rating Cor(N)	Limiting speed (rpm)			Abutment and fillet dimensions (mm)			Mass (kg)	Bearing No.
d	D	B	r (min)											Open type	Shield type	Contact seal type	Non-contact seal type	Grease lubrication			
												Open type,Z, ZZ,NK,2NK	NSL,2NSL	Open type,Z							
180	225	22	1.1	6836	—	—	—	—	—	60500	73000	2400	—	2900	187	218	1.0	2.02	6836		
	250	33	2	6936	—	—	—	—	—	106000	117000	2200	—	2600	188	242	2.0	4.68	6936		
	280	46	2.1	6036	—	—	—	—	—	174000	180000	2100	—	2600	189	271	2.0	10.3	6036		
	320	52	4	6236	—	—	—	—	—	227000	242000	1800	—	2200	198	302	3.0	18.3	6236		
	380	75	4	6336	—	—	—	—	—	325000	360000	1500	—	1900	198	362	3.0	41.9	6336		
190	240	24	1.5	6838	—	—	—	—	—	73000	88000	2200	—	2600	198	232	1.5	2.60	6838		
	260	33	2	6938	—	—	—	—	—	108000	123000	2100	—	2500	198	252	2.0	4.90	6938		
	290	46	2.1	6038	—	—	—	—	—	188000	200000	2000	—	2500	199	281	2.0	10.8	6038		
	340	55	4	6238	—	—	—	—	—	255000	282000	1700	—	2000	208	322	3.0	23.0	6238		
	400	78	5	6338	—	—	—	—	—	355000	415000	1500	—	1800	212	378	4.0	48.2	6338		
200	250	24	1.5	6840	—	—	—	—	—	74000	91000	2100	—	2500	208	242	1.5	2.70	6840		
	280	38	2.1	6940	—	—	—	—	—	130000	146000	2000	—	2500	209	271	2.0	6.88	6940		
	310	51	2.1	6040	—	—	—	—	—	202000	222000	1900	—	2400	209	301	2.0	13.9	6040		
	360	58	4	6240	—	—	—	—	—	268000	310000	1600	—	1900	218	342	3.0	28.2	6240		
	420	80	5	6340	—	—	—	—	—	380000	445000	1300	—	1700	222	398	4.0	54.6	6340		
220	270	24	1.5	6844	—	—	—	—	—	76500	98000	1900	—	2400	228	262	1.5	2.98	6844		
	300	38	2.1	6944	—	—	—	—	—	132000	154000	1800	—	2300	229	291	2.0	7.45	6944		
	340	56	3	6044	—	—	—	—	—	214000	248000	1700	—	2200	230	330	2.5	18.4	6044		
	400	65	4	6244	—	—	—	—	—	310000	375000	1400	—	1700	238	382	3.0	37.0	6244		
240	300	28	2	6848	—	—	—	—	—	98500	127000	1800	—	2100	250	291	2.0	4.60	6848		
	320	38	2.1	6948	—	—	—	—	—	154000	186000	1700	—	2000	249	311	2.0	8.02	6948		
	360	56	3	6048	—	—	—	—	—	222000	268000	1600	—	1900	250	350	2.5	19.6	6048		
	440	72	4	6248	—	—	—	—	—	340000	430000	1200	—	1500	258	322	3.0	49.9	6248		
260	320	28	2	6852	—	—	—	—	—	101000	136000	1600	—	2000	269	311	2.0	4.95	6852		
	360	46	2.1	6952	—	—	—	—	—	204000	254000	1500	—	1800	269	351	2.0	13.4	6952		
	400	65	4	6052	—	—	—	—	—	252000	320000	1400	—	1700	272	388	3.0	29.3	6052		
	480	80	5	6252	—	—	—	—	—	400000	540000	1100	—	1400	282	458	4.0	67.5	6252		
280	350	33	2	6856	—	—	—	—	—	133000	177000	1500	—	1800	290	341	2.0	7.35	6856		
	380	46	2.1	6956	—	—	—	—	—	209000	270000	1400	—	1700	289	371	2.0	14.3	6956		
	420	65	4	6056	—	—	—	—	—	266000	350000	1300	—	1600	293	405	3.0	31.0	6056		
	500	80	5	6256	—	—	—	—	—	400000	550000	950	—	1200	302	478	4.0	71.0	6256		
300	380	38	2.1	6860	—	—	—	—	—	166000	219000	1400	—	1600	311	369	2.0	10.4	6860		
	420	56	3	6960	—	—	—	—	—	269000	370000	1300	—	1500	311	409	2.5	22.8	6960		
	460	74	4	6060	—	—	—	—	—	355000	490000	1200	—	1500	313	447	3.0	43.8	6060		
	540	85	5	6260	—	—	—	—	—	465000	670000	850	—	1100	322	518	4.0	88.6	6260		
320	400	38	2.1	6864	—	—	—	—	—	164000	218000	1300	—	1500	330	389	2.0	10.9	6864		
	440	56	3	6964	—	—	—	—	—	266000	370000	1200	—	1300	331	429	2.5	24.1	6964		
	480	74	4	6064	—	—	—	—	—	340000	470000	1100	—	1300	333	467	3.0	46.1	6064		