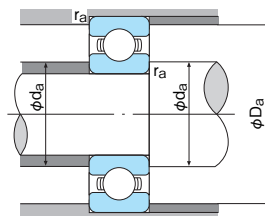
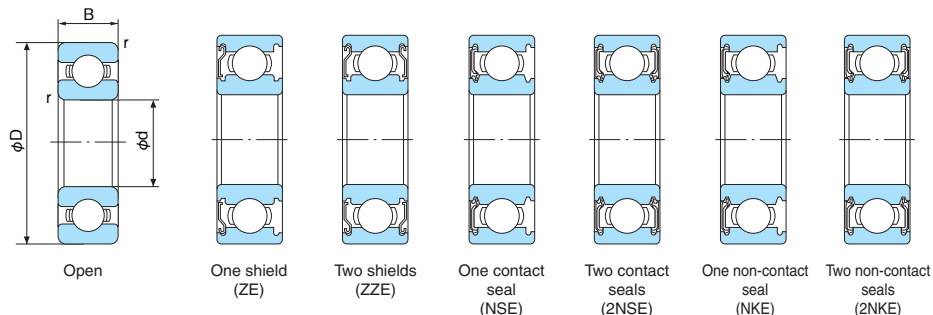


Deep-groove Ball Bearings

Bore Diameter: 10~25mm



Dynamic equivalent radial load

$$Pr = XFr + YFa$$

Static equivalent radial load

Larger value of following to be used:

$$P0r = 0.6Fr + 0.5Fa$$

$$P0r = Fr$$

Fa/Fr	e	Fa/Fr ≤ e		Fa/Fr > e	
		X	Y	X	Y
0.172	0.19				2.30
0.345	0.22	1	0	0.56	1.99
0.689	0.26				1.71
1.03	0.28				1.55
1.38	0.30	1	0	0.56	1.45
2.07	0.34				1.31
3.45	0.38				1.15
5.17	0.42	1	0	0.56	1.04
6.89	0.44				1.00

1N=0.102kgf

Boundary dimensions (mm)				Bearing No.							Basic dynamic load rating Cr (N)	Basic static load rating Cor (N)	Factor fo	Limiting speed (min ⁻¹)			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	da (min)	Da (max)	ra (max)		
					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	6800ZE	6800ZZE	6800NSE	6800-2NSE	6800NKE	6800-2NKE	2120	985	14.2	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	14.0	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	12.4	30000	22000	36000	12	24	0.3	0.019	6000
	30	9	0.6	6200	6200ZE	6200ZZE	6200NSE	6200-2NSE	6200NKE	6200-2NKE	5100	2390	13.2	25000	18000	30000	15	25	0.6	0.032	6200
	35	11	0.6	6300	6300ZE	6300ZZE	6300NSE	6300-2NSE	6300NKE	6300-2NKE	8100	3450	11.3	23000	17000	27000	15	30	0.6	0.053	6300
12	21	5	0.3	6801	6801ZE	6801ZZE	6801NSE	6801-2NSE	6801NKE	6801-2NKE	1920	1040	15.3	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	14.5	30000	20000	36000	14	22	0.3	0.011	6901
	28	8	0.3	6001	6001ZE	6001ZZE	6001NSE	6001-2NSE	6001NKE	6001-2NKE	5100	2390	13.2	28000	18000	32000	14	26	0.3	0.023	6001
	32	10	0.6	6201	6201ZE	6201ZZE	6201NSE	6201-2NSE	6201NKE	6201-2NKE	6800	3050	12.3	22000	17000	28000	17	27	0.6	0.037	6201
	37	12	1	6301	6301ZE	6301ZZE	6301NSE	6301-2NSE	6301NKE	6301-2NKE	9750	4250	11.2	20000	16000	24000	18	31	1.0	0.060	6301
15	24	5	0.3	6802	6802ZE	6802ZZE	6802NSE	6802-2NSE	6802NKE	6802-2NKE	2080	1260	15.8	28000	17000	34000	17	22	0.3	0.007	6802
	28	7	0.3	6902	6902ZE	6902ZZE	6902NSE	6902-2NSE	6902NKE	6902-2NKE	4300	2250	14.3	26000	17000	31000	17	26	0.3	0.016	6902
	32	8	0.3	16002	—	—	—	—	—	—	5600	2840	13.9	24000	—	28000	20	27	0.3	0.025	16002
	32	9	0.3	6002	6002ZE	6002ZZE	6002NSE	6002-2NSE	6002NKE	6002-2NKE	5600	2840	13.9	24000	15000	28000	17	30	0.3	0.032	6002
	35	11	0.6	6202	6202ZE	6202ZZE	6202NSE	6202-2NSE	6202NKE	6202-2NKE	7650	3700	13.1	20000	15000	24000	20	30	0.6	0.045	6202
17	42	13	1	6302	6302ZE	6302ZZE	6302NSE	6302-2NSE	6302NKE	6302-2NKE	11400	5400	12.3	17000	13000	21000	21	36	1.0	0.082	6302
	26	5	0.3	6803	6803ZE	6803ZZE	6803NSE	6803-2NSE	6803NKE	6803-2NKE	2630	1570	16.1	26000	15000	30000	19	24	0.3	0.008	6803
	30	7	0.3	6903	6903ZE	6903ZZE	6903NSE	6903-2NSE	6903NKE	6903-2NKE	4600	2550	14.7	24000	15000	29000	19	28	0.3	0.018	6903
	35	8	0.3	16003	—	—	—	—	—	—	6000	3250	14.3	22000	—	26000	22	30	0.3	0.032	16003
	35	10	0.3	6003	6003ZE	6003ZZE	6003NSE	6003-2NSE	6003NKE	6003-2NKE	6000	3250	14.3	22000	14000	26000	19	33	0.3	0.039	6003
20	40	12	0.6	6203	6203ZE	6203ZZE	6203NSE	6203-2NSE	6203NKE	6203-2NKE	9550	4800	13.1	18000	12000	21000	22	35	0.6	0.065	6203
	47	14	1	6303	6303ZE	6303ZZE	6303NSE	6303-2NSE	6303NKE	6303-2NKE	13600	6550	12.3	16000	11000	19000	23	41	1.0	0.115	6303
	32	7	0.3	6804	6804ZE	6804ZZE	6804NSE	6804-2NSE	6804NKE	6804-2NKE	4000	2640	15.5	22000	13000	26000	22	30	0.3	0.019	6804
	37	9	0.3	6904	6904ZE	6904ZZE	6904NSE	6904-2NSE	6904NKE	6904-2NKE	6350	3700	14.8	19000	12000	23000	22	35	0.3	0.036	6904
	42	8	0.3	16004	—	—	—	—	—	—	7900	4500	14.5	18000	—	21000	25	37	0.3	0.050	16004
22	42	12	0.6	6004	6004ZE	6004ZZE	6004NSE	6004-2NSE	6004NKE	6004-2NKE	9400	5000	13.9	18000	11000	21000	24	38	0.6	0.070	6004
	47	14	1	6204	6204ZE	6204ZZE	6204NSE	6204-2NSE	6204NKE	6204-2NKE	12800	6600	13.1	16000	11000	18000	26	41	1.0	0.106	6204
	52	15	1.1	6304	6304ZE	6304ZZE	6304NSE	6304-2NSE	6304NKE	6304-2NKE	15900	7900	12.4	14000	10000	17000	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	13.1	14000	9700	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	12.4	13000	9500	16000	29	49	1.0	0.176	63/22
25	37	7	0.3	6805	6805ZE	6805ZZE	6805NSE	6805-2NSE	6805NKE	6805-2NKE	4300	2940	16.0	18000	10000	22000	27	35	0.3	0.022	6805
	42	9	0.3	6905	6905ZE	6905ZZE	6905NSE	6905-2NSE	6905NKE	6905-2NKE	7000	4500	15.3	16000	10000	20000	27	40	0.3	0.042	6905
	47	8	0.3	16005	—	—	—	—	—	—	6950	4600	15.6	15000	—	18000	30	42	0.3	0.060	16005
	47	12	0.6	6005	6005ZE	6005ZZE	6005NSE	6005-2NSE	6005NKE	6005-2NKE	10100	5850	14.5	15000	9500	18000	29	43	0.6	0.079	6005
	52	15	1	6205	6205ZE	6205ZZE	6205NSE	6205-2NSE	6205NKE	6205-2NKE	14000	7900	13.9	13000	9000	16000	31	46	1.0	0.128	6205
62	17	1.1	6305	6305ZE	6305ZZE	6305NSE	6305-2NSE	6305NKE	6305-2NKE	23600	12100	12.2	12000	8100	14000	32	55	1.0	0.232	6305	