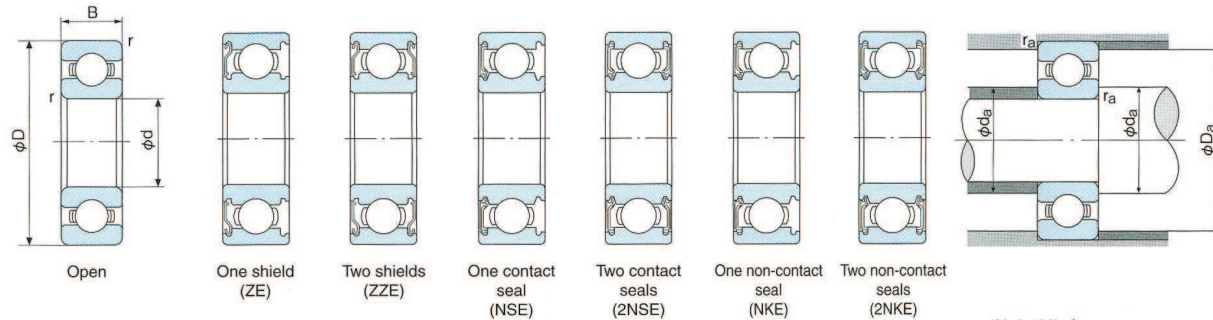


Deep-groove Ball Bearings

Bore Diameter: 28~50mm



Dynamic equivalent radial load
 $P_r = XFr + YFa$

Static equivalent radial load
 Larger value of following to be used:
 $P_{0r} = 0.6Fr + 0.5Fa$
 $P_{0r} = Fr$

JoFa Cor	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, 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	13.1	12000	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	12.4	11000	7500	13000	35	61	1.0	0.287	63/28	
30	42	7	0.3	6806	6806ZE	6806ZZE	6806NSE	6806-2NSE	6806NKE	6806-2NKE	5350	3800	16.4	15000	9000	18000	32	40	0.3	0.026	6806	
	47	9	0.3	6906	6906ZE	6906ZZE	6906NSE	6906-2NSE	6906NKE	6906-2NKE	7250	5000	15.8	14000	8500	17000	32	45	0.3	0.045	6906	
	55	9	0.3	16006	—	—	—	—	—	—	9950	6550	15.4	13000	—	15000	35	50	0.3	0.085	16006	
	55	13	1	6006	6006ZE	6006ZZE	6006NSE	6006-2NSE	6006NKE	6006-2NKE	13200	8300	14.8	13000	8000	15000	35	50	1.0	0.117	6006	
	62	16	1	6206	6206ZE	6206ZZE	6206NSE	6206-2NSE	6206NKE	6206-2NKE	19500	11300	13.9	11000	7500	13000	36	56	1.0	0.199	6206	
	72	19	1.1	6306	6306ZE	6306ZZE	6306NSE	6306-2NSE	6306NKE	6306-2NKE	26700	15000	13.2	10000	6700	12000	37	65	1.0	0.346	6306	
32	65	17	1	62/32	62/32ZE	62/32ZZE	62/32NSE	62/32-2NSE	62/32NKE	62/32-2NKE	22400	13100	13.6	11000	7100	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	12.7	9500	6500	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	16.4	14000	7600	16000	37	45	0.3	0.029	6807	
	55	10	0.6	6907	6907ZE	6907ZZE	6907NSE	6907-2NSE	6907NKE	6907-2NKE	10400	7150	15.6	12000	7500	15000	39	51	0.6	0.073	6907	
	62	9	0.3	16007	—	—	—	—	—	—	11700	8150	15.6	12000	—	14000	40	57	0.6	0.110	16007	
	62	14	1	6007	6007ZE	6007ZZE	6007NSE	6007-2NSE	6007NKE	6007-2NKE	16000	10300	14.8	12000	6800	14000	40	57	1.0	0.156	6007	
	72	17	1.1	6207	6207ZE	6207ZZE	6207NSE	6207-2NSE	6207NKE	6207-2NKE	25700	15300	13.8	9800	6300	11000	42	65	1.0	0.288	6207	
80	21	1.5	6307	6307ZE	6307ZZE	6307NSE	6307-2NSE	6307NKE	6307-2NKE	33500	19200	13.2	8800	6000	10000	44	71	1.5	0.457	6307		
40	52	7	0.3	6808	6808ZE	6808ZZE	6808NSE	6808-2NSE	6808NKE	6808-2NKE	5950	4900	16.2	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	15.8	11000	6300	13000	44	58	0.6	0.108	6908	
	68	9	0.3	16008	—	—	—	—	—	—	11100	8550	16.1	10000	—	12000	45	63	0.3	0.125	16008	
	68	15	1	6008	6008ZE	6008ZZE	6008NSE	6008-2NSE	6008NKE	6008-2NKE	16800	11500	15.3	10000	6100	12000	45	63	1.0	0.194	6008	
	80	18	1.1	6208	6208ZE	6208ZZE	6208NSE	6208-2NSE	6208NKE	6208-2NKE	29100	17900	14.0	8700	5600	10000	47	73	1.0	0.366	6208	
90	23	1.5	6308	6308ZE	6308ZZE	6308NSE	6308-2NSE	6308NKE	6308-2NKE	40500	24100	13.2	7800	5300	9200	49	81	1.5	0.633	6308		
45	58	7	0.3	6809	6809ZE	6809ZZE	6809NSE	6809-2NSE	6809NKE	6809-2NKE	5350	4900	16.1	11000	6000	13000	47	56	0.3	0.040	6809	
	68	12	0.6	6909	6909ZE	6909ZZE	6909NSE	6909-2NSE	6909NKE	6909-2NKE	14100	10900	16.1	10000	5600	12000	49	64	0.6	0.122	6909	
	75	10	0.6	16009	—	—	—	—	—	—	12900	10500	16.2	9200	—	11000	52	68	0.6	0.170	16009	
	75	16	1	6009	6009ZE	6009ZZE	6009NSE	6009-2NSE	6009NKE	6009-2NKE	20900	15200	15.3	9200	5400	11000	50	70	1.0	0.246	6009	
	85	19	1.1	6209	6209ZE	6209ZZE	6209NSE	6209-2NSE	6209NKE	6209-2NKE	32500	20500	14.1	7800	5300	9300	52	78	1.0	0.407	6209	
100	25	1.5	6309	6309ZE	6309ZZE	6309NSE	6309-2NSE	6309NKE	6309-2NKE	53000	32000	13.1	7000	4800	8200	54	91	1.5	0.833	6309		
50	65	7	0.3	6810	6810ZE	6810ZZE	6810NSE	6810-2NSE	6810NKE	6810-2NKE	6400	5800	16.1	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	16.1	9500	5300	11000	54	68	0.6	0.125	6910	
	80	10	0.6	16010	—	—	—	—	—	—	16100	13100	16.1	8500	—	10000	57	73	0.6	0.180	16010	
	80	16	1	6010	6010ZE	6010ZZE	6010NSE	6010-2NSE	6010NKE	6010-2NKE	21800	16600	15.6	8500	5000	10000	55	75	1.0	0.264	6010	
	90	20	1.1	6210	6210ZE	6210ZZE	6210NSE	6210-2NSE	6210NKE	6210-2NKE	35000	23200	14.4	7100	4800	8600	57	83	1.0	0.463	6210	
110	27	2	6310	6310ZE	6310ZZE	6310NSE	6310-2NSE	6310NKE	6310-2NKE	62000	38000	13.1	6400	4300	7500	60	100	2.0	1.07	6310		