

Deep groove ball bearings, Inch size ball bearings, Angular contact ball bearings, Double row angular contact ball bearings, Self-aligning ball bearings, Single direction ball bearings, Insert bearing

Zirconia Ceramic Bearings

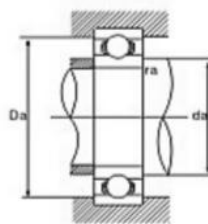
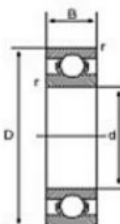


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Deep groove ball bearings Size details(1)

Deep groove ball bearings



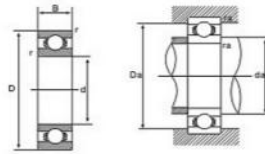
Bearing No.	Boundary dimensions				Mass				Bearing No.	Boundary dimensions				Mass			
	d	D	B	r(min)	(Kg) (refer)					d	D	B	r(min)	(Kg) (refer)			
					ZrO2	Si3N4	PLASTIC	440C						ZrO2	Si3N4	PLASTIC	440C
683	3	7	2	0.1	0.00024	0.00013	0.00005	0.00032	6801	12	21	5	0.3	0.005	0.0025	0.0012	0.006
693		8	3	0.15	0.0005	0.00025	0.0001	0.00061	6901		24	6	0.3	0.008	0.0042	0.0019	0.01
603		9	3	0.15	0.0007	0.0004	0.0002	0.00087	16001		28	7	0.3	0.015	0.0079	0.004	0.019
623		10	4	0.15	0.0013	0.0007	0.0003	0.00165	6001		28	8	0.3	0.017	0.0092	0.004	0.019
633		13	5	0.15	0.0025	0.0014	0.0006	0.0034	6201		32	10	0.6	0.028	0.015	0.007	0.037
684	4	9	2.5	0.1	0.0005	0.0003	0.0001	0.0006	6301	15	37	12	1	0.046	0.025	0.004	0.022
694		11	4	0.15	0.0013	0.0007	0.0003	0.0017	6802		24	5	0.3	0.005	0.0029	0.0013	0.007
604		12	4	0.2	0.0017	0.0009	0.0004	0.0023	6902		28	7	0.3	0.012	0.0063	0.003	0.005
624		13	5	0.2	0.0023	0.0013	0.0006	0.0030	16002		32	8	0.3	0.021	0.011	0.005	0.027
634		16	5	0.3	0.0040	0.0022	0.0010	0.0052	6002		32	9	0.3	0.024	0.013	0.006	0.031
685	5	11	3	0.15	0.0009	0.0005	0.0002	0.0012	6202	17	35	11	0.6	0.035	0.019	0.009	0.045
695		13	4	0.2	0.0019	0.0010	0.0005	0.0025	6302		42	13	1	0.064	0.035	0.016	0.083
605		14	5	0.2	0.0027	0.0015	0.0007	0.0035	6803		26	5	0.3	0.005	0.0029	0.0013	0.007
625		16	5	0.3	0.0038	0.0021	0.0010	0.0050	6903		30	7	0.3	0.013	0.0071	0.0013	0.017
635		19	6	0.3	0.0066	0.0036	0.0016	0.0086	16003		35	8	0.3	0.025	0.014	0.006	0.033
686	6	13	3.5	0.15	0.0015	0.0008	0.0004	0.0019	6003	20	35	10	0.3	0.032	0.017	0.008	0.041
696		15	5	0.2	0.0030	0.0016	0.0007	0.0039	6203		40	12	0.6	0.052	0.028	0.013	0.067
606		17	6	0.3	0.0046	0.0025	0.0011	0.0060	6303		47	14	1	0.087	0.047	0.022	0.11
626		19	6	0.3	0.0063	0.0034	0.0016	0.0086	6403		62	17	1.1	0.21	0.11	0.052	0.27
636		22	7	0.3	0.0108	0.0058	0.0027	0.0140	6804		32	7	0.3	0.013	0.007	0.003	0.017
687	7	14	3.5	0.15	0.0017	0.0009	0.0004	0.0022	6904	25	37	9	0.3	0.028	0.015	0.007	0.037
697		17	5	0.3	0.0040	0.0022	0.0010	0.0053	16004		42	8	0.3	0.037	0.02	0.009	0.048
607		19	6	0.3	0.0059	0.0032	0.0015	0.0077	6004		42	12	0.3	0.052	0.028	0.013	0.068
623		22	7	0.3	0.0098	0.0053	0.0024	0.0127	6204		47	14	1	0.082	0.045	0.021	0.11
637		26	9	0.3	0.0185	0.0100	0.0046	0.0240	6304		52	15	1.1	0.11	0.06	0.028	0.15
688	8	16	4	0.2	0.0025	0.0014	0.0006	0.0072	6404	30	72	19	1.1	0.31	0.17	0.08	0.4
698		19	6	0.3	0.0056	0.0030	0.0014	0.0072	6805		37	7	0.3	0.016	0.009	0.001	0.021
608		22	7	0.3	0.0093	0.0050	0.0023	0.012	6905		42	9	0.3	0.032	0.018	0.01	0.042
628		24	8	0.3	0.013	0.0072	0.0033	0.017	16005		47	8	0.3	0.045	0.025	0.011	0.059
638		28	9	0.3	0.022	0.012	0.0054	0.028	6005		47	12	0.6	0.061	0.033	0.015	0.079
689	9	17	4	0.2	0.0027	0.0015	0.0007	0.0035	6205	35	52	15	1	0.099	0.054	0.025	0.13
699		20	6	0.3	0.0062	0.0035	0.0016	0.0085	6305		62	17	1.1	0.18	0.098	0.045	0.24
609		24	7	0.3	0.011	0.0060	0.0028	0.015	6405		80	21	1.5	0.41	0.22	0.102	0.53
629		26	8	0.3	0.015	0.0081	0.0038	0.02	6806		42	7	0.3	0.018	0.01	0.005	0.024
639		30	10	0.6	0.028	0.015	0.007	0.037	6906		47	9	0.3	0.04	0.022	0.01	0.052
6800	10	19	5	0.3	0.004	0.0021	0.0010	0.005	16006	30	55	9	0.3	0.067	0.036	0.017	0.087
6900		22	6	0.3	0.007	0.0038	0.0017	0.009	6006		55	13	1	0.089	0.048	0.022	0.116
6000		26	8	0.3	0.014	0.0075	0.0035	0.018	6206		62	16	1	0.15	0.093	0.038	0.2
6200		30	9	0.6	0.025	0.013	0.006	0.032	6306		72	19	1.1	0.27	0.14	0.066	0.35
6300		35	11	0.6	0.040	0.022	0.010	0.052	6406		90	23	1.6	0.67	0.31	0.14	0.74

Deep groove ball bearings Size details(3)

Bearing No.	Boundary dimensions				Mass				Bearing No.	Boundary dimensions				Mass			
	d	D	B	r(min)	(Kg) (refer)					d	D	B	r(min)	(Kg) (refer)			
					ZrO2	Si3N4	PLASTIC	440C						ZrO2	Si3N4	PLASTIC	440C
6819	120	13	1	0.23	0.12	0.057	0.3	6824	165	18	1.1	0.72	0.39	0.17	0.94		
6919	130	18	1.1	0.46	0.25	0.12	0.6	6924	180	24	1.5	1.43	0.76	0.33	1.86		
16019	145	16	1	0.7	0.38	0.17	0.9	16026	200	22	1.1	2.07	1.10	0.48	2.69		
6019	145	24	1.5	0.95	0.51	0.24	1.23	6026	200	33	2	2.43	1.30	0.57	3.16		
6219	170	32	2.1	2.02	1.07	0.47	2.62	6226	230	40	3	4.48	2.39	1.04	5.82		
6319	200	45	3	4.36	2.33	1.02	5.67	6326	280	58	4	11.6	6.2	2.71	15.1		
6820	125	13	1	0.24	0.13	0.06	0.31	6828	175	18	1.1	0.77	0.41	0.18	1.00		
6920	140	20	1.1	0.64	0.35	0.16	0.83	6228	190	24	1.5	1.52	0.81	0.36	1.98		
16020	150	16	1	0.73	0.39	0.18	0.95	16028	210	22	1.1	2.20	1.17	0.51	2.86		
6020	150	24	1.5	0.99	0.54	0.25	1.29	6028	210	33	2	2.73	1.46	0.64	3.55		
6220	180	34	2.1	2.42	1.29	0.56	3.14	6228	250	42	3	5.73	3.06	1.34	7.45		
6320	215	47	3	5.38	2.87	1.26	7.0	6328	300	62	4	14.9	7.96	3.48	19.4		
6821	130	13	1	0.25	0.14	0.06	0.32	6830	190	20	1.1	1.05	0.57	0.25	1.40		
6921	145	20	1.1	0.66	0.36	0.16	0.86	6930	210	28	2	2.35	1.25	0.55	3.05		
16021	160	18	1	0.92	0.49	0.22	1.2	16030	225	24	1.1	2.75	1.47	0.64	3.58		
6021	160	26	2	1.22	0.65	0.29	1.59	6030	225	35	2.1	3.25	1.73	0.76	4.22		
6221	190	36	2.1	2.85	1.52	0.66	3.7	6230	270	45	3	7.24	3.86	1.69	9.41		
6321	225	49	3	6.19	3.30	1.44	8.05	6330	320	65	4	20.15	10.74	4.70	26.2		
6822	140	16	1	0.38	0.21	0.1	0.5	60/22	44	12	0.6	0.057	0.030	0.013	0.074		
6922	150	20	1.1	0.69	0.37	0.17	0.89	62/22	50	14	1	0.092	0.49	0.021	0.119		
16022	170	19	1	1.12	0.6	0.26	1.46	60/22	56	16	1.1	0.138	0.073	0.032	0.179		
6022	170	28	2	1.51	0.88	0.35	1.96	60/28	52	12	0.6	0.074	0.039	0.017	0.096		
6222	200	38	2.1	3.35	1.8	0.78	4.36	62/28	58	16	1	0.135	0.072	0.031	0.175		
6322	240	50	3	7.34	3.91	1.71	9.54	63/28	68	18	1.1	0.221	0.118	0.052	0.287		
6824	150	16	1	0.41	0.22	0.1	0.54	60/32	58	13	1	0.094	0.050	0.022	0.122		
6924	165	22	1.1	1.08	0.58	0.25	1.41	62/32	65	17	1	0.173	0.092	0.040	0.225		
16024	180	19	1	1.38	0.74	0.32	1.8	63/32	75	20	1.1	0.299	0.160	0.070	0.389		
6024	180	28	2	1.6	0.85	0.37	2.07										
6224	215	40	2.1	3.96	2.11	0.92	5.15										
6324	260	55	3	9.62	5.13	2.24	12.5										

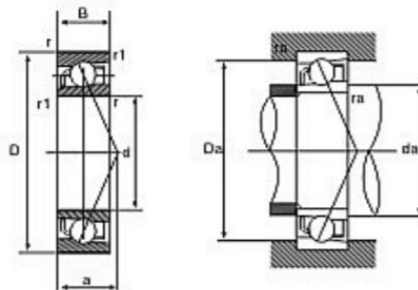
Inch size ball bearings size details

Inch size ball bearings



Bearing No.	Bore		O.D		Width		Mass			
	d		D		B		(Kg) (refer)			
	mm	in.	mm	in.	mm	in.	ZrO2	Si3N4	PLASTIC	440C
1601	4.763	3/16	17.463	11/16	6.350	1/4	0.0038	0.0021	0.0009	0.005
1602	6.350	1/4	17.463	11/16	6.350	1/4	0.0046	0.0025	0.0011	0.006
1603	7.938	1/32	22.225	7/8	7.144	9/32	0.0065	0.0045	0.0020	0.011
1604	9.525	3/8	22.225	7/8	7.144	9/32	0.0100	0.0063	0.0023	0.013
1605	7.938	7/16	23.019	29/32	7.938	5/16	0.0031	0.0016	0.0007	0.004
1606	9.525	3/8	23.019	29/32	7.938	5/16	0.0115	0.0062	0.0027	0.015
1607	11.113	7/16	23.019	29/32	7.938	5/16	0.0123	0.0066	0.0029	0.016
1614	9.525	3/8	28.575	9/8	9.525	3/8	0.0220	0.0117	0.0051	0.0286
1615	11.113	7/16	28.575	9/8	9.525	3/8	0.0205	0.0110	0.0048	0.0267
1616	12.700	1/2	28.575	9/8	9.525	3/8	0.1900	0.1013	0.0443	0.247
1620	11.113	7/16	34.925	11/8	11.113	7/16	0.0400	0.0213	0.0093	0.0520
1621	12.700	1/2	34.925	11/8	11.113	7/16	0.0377	0.0201	0.0088	0.0490
1622	14.288	9/16	34.925	11/8	11.113	7/16	0.0357	0.0190	0.0083	0.0464
1623	15.875	5/8	34.925	11/8	11.113	7/16	0.0382	0.0177	0.0078	0.0432
1628	15.875	5/8	41.275	13/8	12.700	1/2	0.0606	0.0323	0.0141	0.0788
1630	19.050	3/4	41.275	13/8	12.700	1/2	0.0599	0.0320	0.0140	0.0779
1633	15.875	5/8	44.450	7/4	12.700	1/2	0.0769	0.0410	0.0179	0.100
1635	19.050	3/4	44.450	7/4	12.700	1/2	0.0703	0.0375	0.0164	0.0914
R2	3.175	1/8	9.525	3/8	3.967	5/32	0.0011	0.0006	0.0003	0.0014
R2A	3.175	1/8	12.700	1/2	4.366	11/64	0.0022	0.0012	0.0005	0.0029
R2	4.762	3/16	12.700	1/2	3.967	5/32	0.0018	0.0010	0.0004	0.0024
R4	6.350	1/4	15.875	5/8	4.978	0.1960	0.0035	0.0019	0.0008	0.0046
R4A	6.350	1/4	19.050	3/4	5.556	7/32	0.0054	0.0029	0.0013	0.007
R6	9.525	3/8	22.225	7/8	5.556	7/32	0.0085	0.0045	0.0020	0.011
R8	12.700	1/2	28.575	11/8	6.350	1/4	0.0108	0.0057	0.0025	0.014
R10	15.875	5/8	34.525	13/8	7.144	9/32	0.0215	0.0115	0.0050	0.028
R12	19.050	3/4	41.275	15/8	7.938	5/16	0.0323	0.0172	0.0075	0.042
R14	22.225	7/8	47.525	17/8	9.525	3/8	0.0554	0.0295	0.0129	0.072
R16	25.400	1	50.800	2	9.525	3/8	0.0654	0.0349	0.0153	0.085
R18	28.575	11/8	53.975	21/8	9.525	3/8	0.0654	0.0349	0.0153	0.085
R20	31.750	11/4	57.150	21/4	9.525	3/8	0.0638	0.0341	0.0149	0.083
R22	34.925	13/8	63.500	21/2	11.113	7/16	0.1038	0.0554	0.0242	0.135
R24	38.100	11/2	66.675	25/8	11.113	7/16	0.1108	0.0591	0.0258	0.144

Angular contact ball bearings size details

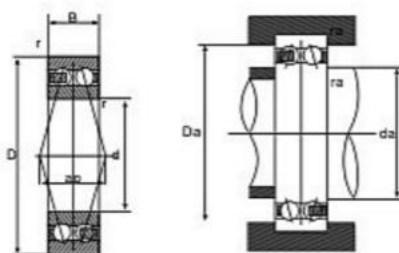


Bearing No.	Boundary dimensions				r1 (min)	Mounting dimensions (mm)			Mass				Bearing No.	Boundary dimensions				r1 (min)	Mounting dimensions (mm)			Mass			
	d	D	B	r (min)		da	Da	ra	(Kg) (refer)					d	D	B	r (min)		da	Da	ra	(Kg) (refer)			
									ZrO2	Si3N4	PLASTIC	440C										(min)	(max)	(max)	ZrO2
7900	22	6	0.3	0.15	12.5	19.6	0.3	0.007	0.0038	0.0016	0.009	7909	68	12	0.6	0.3	50	63	0.6	0.097	0.053	0.0226	0.126		
7000	26	8	0.3	0.15	12.5	23.6	0.3	0.014	0.0075	0.0032	0.018	7009	75	16	1	0.6	51	69	1	0.19	0.100	0.0433	0.241		
7200	30	9	0.6	0.3	15	26	0.6	0.025	0.013	0.0067	0.032	7209	85	19	1.1	0.6	52	78	1	0.32	0.175	0.0754	0.42		
7300	35	11	0.6	0.3	15	30	0.6	0.040	0.022	0.0093	0.052	7309	100	25	1.6	1	54	91	1.5	0.64	0.345	0.1488	0.829		
7901	24	6	0.3	0.15	14.5	21.6	0.3	0.009	0.0042	0.0018	0.01	7910	72	12	0.6	0.3	55	67	0.6	0.10	0.06	0.0242	0.135		
7001	28	8	0.3	0.15	14.5	25.6	0.3	0.017	0.0092	0.0039	0.022	7010	80	16	1	0.3	56	74	1	0.20	0.11	0.0468	0.261		
7201	32	10	0.6	0.3	17	27	0.6	0.028	0.015	0.0066	0.037	7210	90	20	1.1	0.6	57	83	1	0.35	0.19	0.0824	0.459		
7301	37	12	1	0.6	18	31	1	0.046	0.025	0.0108	0.06	7310	110	27	2	1	60	100	2	0.82	0.44	0.1903	1.06		
7902	28	7	0.3	0.15	17.5	25.6	0.3	0.012	0.0063	0.0027	0.016	7911	80	13	1	0.6	61	74	1	0.15	0.083	0.0338	0.189		
7002	32	9	0.3	0.15	17.5	29.6	0.3	0.024	0.013	0.0066	0.031	7011	90	18	1.1	0.6	62	83	1	0.29	0.16	0.0684	0.391		
7202	35	11	0.6	0.3	20	30	0.3	0.035	0.019	0.0081	0.045	7211	100	21	1.6	1	64	91	1.5	0.48	0.26	0.1111	0.619		
7302	42	13	1	0.6	21	36	1	0.064	0.035	0.0149	0.083	7311	120	29	2	1	65	110	2	1.05	0.57	0.2459	1.37		
7903	30	7	0.3	0.15	19.5	27.6	0.3	0.013	0.0071	0.0031	0.017	7912CE	85	13	1	0.6	66	79	1	0.15	0.08	0.0345	0.192		
7003	35	10	0.3	0.15	19.5	32.6	0.3	0.032	0.017	0.0074	0.041	7012CE	95	18	1.1	0.6	67	88	1	0.32	0.17	0.0739	0.412		
7203	40	12	0.6	0.3	22	35	0.6	0.052	0.028	0.0120	0.067	7212CE	110	22	1.6	1	69	101	1.5	0.60	0.33	0.1405	0.783		
7303	47	14	1	0.6	23	41	1	0.087	0.047	0.0203	0.113	7312CE	130	31	2.1	1.1	72	118	2	1.32	0.72	0.3087	1.72		
7904	37	9	0.3	0.15	22.5	34.5	0.3	0.028	0.015	0.0066	0.037	7913CE	90	13	1	0.6	71	84	1	0.17	0.098	0.0391	0.218		
7004	41	12	0.6	0.3	25	37	0.6	0.052	0.028	0.0122	0.068	7013CE	100	18	1.1	0.6	72	93	1	0.34	0.18	0.0788	0.439		
7204	47	14	1	0.6	26	41	1	0.082	0.046	0.0192	0.107	7213CE	120	23	1.6	1	74	111	1.5	0.77	0.42	0.1795	1		
7304	52	15	1.1	0.6	27	45	1	0.11	0.060	0.0260	0.145	7313CE	140	33	2.1	1.1	77	128	2	1.62	0.88	0.3787	2.11		
7905	42	9	0.3	0.15	37.5	39.6	0.3	0.032	0.018	0.0075	0.042	7914CE	100	16	1	0.6	76	94	1	0.27	0.15	0.0626	0.349		
7005	47	12	0.6	0.3	30	42	0.6	0.061	0.033	0.0142	0.079	7014CE	110	20	1.1	0.6	77	103	1	0.47	0.25	0.1091	0.608		
7205	52	15	1	0.3	31	46	1	0.098	0.054	0.0232	0.129	7214CE	125	24	1.6	1	79	116	1.5	0.84	0.45	0.1956	1.09		
7305	62	17	1.1	0.3	32	55	1	0.18	0.098	0.0422	0.235	7314CE	150	35	1	1.1	82	138	2	1.98	1.07	0.4613	2.57		
7906	47	9	0.3	0.15	32.5	44.6	1	0.040	0.022	0.0093	0.052	7915CE	105	16	1.1	0.6	81	99	1	0.28	0.15	0.0653	0.364		
7006	55	13	1	0.6	36	49	1	0.089	0.048	0.0208	0.116	7015CE	115	20	2	0.6	82	108	1	0.50	0.27	0.1165	0.649		
7206	62	16	1	0.6	36	56	1	0.15	0.083	0.0357	0.189	7215CE	130	25	1.1	1	84	121	1.5	0.92	0.50	0.2136	1.19		
7306	72	19	1.1	0.6	37	65	1	0.27	0.14	0.0619	0.345	7916CE	110	16	2	1.1	86	104	1	0.30	0.16	0.0702	0.391		
7907	55	10	0.6	0.3	40	50	0.6	0.059	0.031	0.0135	0.075	7016CE	125	22	1.1	0.6	87	118	1	0.67	0.36	0.1565	0.872		
7007	62	14	1	0.6	41	56	1	0.12	0.063	0.0271	0.151	7216CE	140	26	1.6	0.6	90	130	2	1.09	0.59	0.2549	1.42		
7207	72	17	1.1	0.6	42	65	1	0.22	0.12	0.0510	0.284	7017CE	130	22	1.1	1	92	123	1	0.71	0.38	0.1648	0.918		
7307	80	21	1.6	1	44	71	1.5	0.36	0.19	0.0833	0.464	7217CE	150	28	1.6	0.6	95	140	2	1.35	0.73	0.3159	1.76		
7908	62	12	0.6	0.3	45	57	0.6	0.09	0.06	0.0201	0.112	7918CE	125	18	1.1	0.6	97	118	1	0.45	0.24	0.1050	0.585		
7008	68	15	1	0.6	46	62	1	0.15	0.083	0.0341	0.19	7018CE	140	24	1.6	1	99	131	1.5	0.92	0.50	0.2136	1.19		
7208	80	18	1.1	0.6	47	73	1	0.28	0.15	0.0657	0.366	7919CE	130	18	1.1	0.6	103	123	1	0.46	0.25	0.1079	0.601		
7308	90	23	1.6	1	49	81	1.5	0.49	0.27	0.1142	0.636	7019CE	145	24	1.6	1	104	136	1.5	0.96	0.51	0.2208	1.23		
												7920CE	140	20	1.1	0.6	107	133	1	0.64	0.35	0.1486	0.828		
												7020CE	150	24	1.6	1	109	141	1.5	0.99	0.54	0.2315	1.29		
												7921CE	105	145	20	1.1	0.6	112	138	1	0.66	0.36	0.1536	0.856	
												7922CE	110	150	20	1.1	0.6	117	143	1	0.69	0.37	0.1603	0.893	

Double row angular contact ball bearings

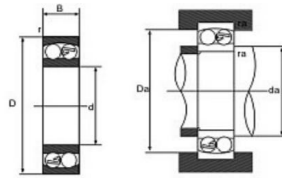
--Size Details

Double row angular contact ball bearings



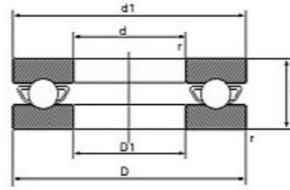
Bearing No.	Boundary dimensions				Mounting dimensions (mm)			Mass			
	d	D	B	r (min)	da	Da	ra	(Kg) (refer)			
					(min)	(max)	(max)	ZrO2	Si3N4	PLASTIC	440C
5200	10	30	14.3	0.6	15	25	0.6	0.04	0.02	0.01	0.060
5201	12	32	15.9	0.6	17	27	0.6	0.05	0.02	0.01	0.060
5202	15	35	15.9	0.6	20	30	0.6	0.05	0.03	0.01	0.070
5302	15	41	19	1	21	36	1	0.08	0.06	0.02	0.11
5203	17	40	17.5	0.6	22	35	0.6	0.07	0.04	0.02	0.090
5303	17	47	22.2	1	23	41	1	0.11	0.06	0.03	0.14
5204	20	47	20.6	1	26	41	1	0.09	0.06	0.02	0.12
5304	20	52	22.2	1.1	27	45	1	0.18	0.09	0.04	0.23
5205	25	52	20.6	1	31	46	1	0.15	0.08	0.03	0.19
5305	25	62	25.4	1.1	32	55	1	0.26	0.14	0.06	0.34
5206	30	62	23.8	1	36	56	1	0.22	0.12	0.05	0.29
5306	30	72	30.2	1.1	37	65	1	0.39	0.21	0.09	0.51
5207	35	72	27	1.1	42	65	1	0.33	0.18	0.08	0.43
5307	35	80	34.9	1.5	44	71	1.5	0.61	0.32	0.14	0.79
5208	40	80	30.2	1.1	47	73	1	0.44	0.23	0.10	0.57
5308	40	90	36.5	1.5	49	81	1.5	0.81	0.43	0.19	1.06
5209	45	85	30.2	1.1	52	78	1	0.48	0.25	0.11	0.62
5309	45	100	39.7	1.5	54	91	1.5	1.08	0.57	0.25	1.4
5210	50	90	30.2	1.1	57	83	1	0.52	0.27	0.12	0.67
5310	50	110	44.4	2	60	100	2	1.50	0.80	0.35	1.95
5211	55	100	33.3	1.5	64	91	1.5	0.74	0.39	0.17	0.96
5311	55	120	49.2	2	65	110	2	1.77	0.94	0.41	2.3
5212	60	110	36.5	1.5	69	101	1.5	1.04	0.55	0.24	1.35
5312	60	130	54	2.1	72	118	2	2.42	1.29	0.57	3.15
5213	65	120	38.1	1.5	74	111	1.5	1.27	0.68	0.30	1.65
5313	65	140	58.7	2.1	77	128	2	2.96	1.58	0.69	3.85
5214	70	125	39.7	1.5	79	116	1.5	1.38	0.74	0.32	1.8
5314	70	150	63.5	2.1	82	138	2	3.77	2.01	0.88	4.9
5215	75	130	41.3	1.5	84	121	1.5	1.46	0.78	0.34	1.9
5216	80	140	44.4	2	90	130	2	1.92	1.03	0.45	2.5
5217	85	150	49.2	2	95	140	2	2.62	1.39	0.61	3.4

Self-aligning ball bearings size details



Boundary dimensions				Mass			Bearing No.	Boundary dimensions				Mass		
d	D	B	r (min)	(Kg) (refer)				d	D	B	r (min)	(Kg) (refer)		
				ZrO2	Si3N4	SiSi440C						ZrO2	Si3N4	SiSi440C
5	19	6	0.3	0.007	0.004	0.009	1210	90	20	1.1	0.40	0.22	0.53	
6	19	6	0.3	0.007	0.004	0.009	2210	90	23	1.1	0.45	0.24	0.59	
7	22	7	0.3	0.011	0.006	0.014	1310	110	27	2	0.93	0.50	1.21	
8	22	7	0.3	0.011	0.006	0.014	2310	110	40	2	1.26	0.67	1.64	
9	26	8	0.3	0.017	0.009	0.022	1211	100	21	1.5	0.54	0.29	0.71	
10	30	9	0.6	0.026	0.014	0.034	2211	100	25	1.5	0.62	0.33	0.81	
	30	14	0.6	0.036	0.019	0.047	1311	120	29	2	1.22	0.65	1.59	
	26	11	0.6	0.045	0.024	0.068	2311	120	43	2	1.62	0.86	2.1	
	26	17	0.6	0.065	0.035	0.085	1212	110	22	1.5	0.69	0.37	0.9	
12	32	10	0.6	0.031	0.016	0.047	2212	110	28	1.5	0.84	0.45	1.09	
	32	14	0.6	0.041	0.022	0.063	1312	130	31	2.1	1.51	0.80	1.96	
	37	12	1	0.052	0.027	0.067	2312	130	46	2.1	2.00	1.07	2.6	
	37	17	1	0.073	0.039	0.095	1213	120	23	1.5	0.88	0.47	1.15	
15	35	11	0.6	0.038	0.020	0.049	2213	120	31	1.5	1.12	0.60	1.46	
	35	14	0.6	0.046	0.025	0.06	1313	140	33	2.1	1.88	1.01	2.45	
	42	13	1	0.072	0.039	0.094	2313	140	48	2.1	2.48	1.33	3.23	
	42	17	1	0.088	0.047	0.11	1214	125	24	1.5	0.97	0.52	1.26	
17	40	12	0.6	0.056	0.030	0.073	2214	125	31	1.5	1.17	0.62	1.52	
	40	16	0.6	0.068	0.035	0.088	1314	150	35	2.1	2.30	1.23	2.93	
	47	14	1	0.10	0.063	0.13	2314	150	51	2.1	3.25	1.74	4.23	
	47	19	1	0.12	0.065	0.16	1215	130	25	1.5	1.05	0.56	1.36	
20	47	14	1	0.09	0.049	0.12	2215	130	31	1.5	1.25	0.66	1.62	
	47	18	1	0.11	0.067	0.14	1315	160	37	2.1	2.70	4.44	3.51	
	52	15	1.1	0.13	0.067	0.16	2315	160	55	2.1	3.85	2.06	5.01	
	52	21	1.1	0.16	0.086	0.21	1216	140	26	2	1.28	0.69	1.67	
25	52	15	1	0.11	0.068	0.14	2216	140	33	2	1.55	0.82	2.01	
	52	18	1	0.13	0.067	0.16	1316	170	39	2.1	3.17	1.69	4.12	
	62	17	1.1	0.20	0.11	0.26	2316	170	58	2.1	4.85	2.45	5.96	
	62	24	1.1	0.26	0.14	0.34	1217	150	28	2	1.59	0.85	2.07	
30	62	16	1	0.17	0.090	0.22	2217	150	36	2	1.94	1.03	2.52	
	62	20	1	0.20	0.11	0.26	1317	180	41	3	3.78	2.01	4.91	
	72	19	1.1	0.30	0.16	0.39	2317	180	60	3	5.3	2.83	6.89	
	72	27	1.1	0.38	0.21	0.60	1218	160	30	2	1.91	1.02	2.48	
35	72	17	1.1	0.25	0.13	0.32	2218	160	40	2	2.56	1.37	3.33	
	72	23	1.1	0.31	0.17	0.40	1318	190	43	3	4.4	2.34	5.71	
	80	21	1.5	0.39	0.21	0.51	2318	190	64	3	6.35	3.38	8.25	
	80	31	1.5	0.52	0.28	0.68	1219	170	32	3.1	2.35	1.25	3.05	
40	80	18	1.1	0.32	0.17	0.42	2219	170	43	2.1	3.08	1.64	4	
	80	23	1.1	0.39	0.21	0.51	1319	200	45	3	5.07	2.7	6.59	
	90	23	1.5	0.55	0.29	0.72	2319	200	67	3	7.36	3.93	9.57	
	90	33	1.5	0.71	0.38	0.93	1220	180	34	2.1	2.8	1.5	3.64	
45	85	19	1.1	0.36	0.19	0.47	2220	180	46	2.1	3.75	2	4.87	
	85	23	1.1	0.42	0.22	0.55	1221	190	36	2.1	3.36	1.8	4.37	
	100	25	1.5	0.74	0.39	0.96	2221	190	50	2.1	4.67	2.49	6.07	
	100	36	1.5	0.85	0.60	1.23	1222	200	38	2.1	3.96	2.11	5.15	
						2222	200	53	2.1	5.46	2.91	7.1		

Single direction ball bearings size details



Bearing No.	Boundary dimensions(mm)						Mass				Bearing No.	Boundary dimensions(mm)						Mass					
	d	D	B	r (min)	d1	D1	(Kg) (refer)					d	D	B	r (min)	d1	D1	(Kg) (refer)					
							ZrO2	Si3N4	PLASTIC	440C								ZrO2	Si3N4	PLASTIC	440C		
51100	10	24	9	0.3	24	11	0.015	0.0078	0.0034	0.019	51113	65	90	18	1	90	67	0.25	0.13	0.0582	0.32		
51200		26	11	0.6	26	12	0.022	0.011	0.0050	0.028	51213		100	27	1	100	67	0.58	0.31	0.1367	0.76		
51101	12	26	9	0.3	26	13	0.016	0.009	0.0038	0.021	51114	70	95	18	1	95	72	0.27	0.14	0.0621	0.35		
51201		28	11	0.6	28	14	0.024	0.013	0.0056	0.031	51214		105	27	1	105	72	0.61	0.33	0.1423	0.79		
51102	15	28	9	0.3	28	16	0.018	0.0094	0.0041	0.023	51115	75	100	19	1	100	77	0.30	0.16	0.0698	0.39		
51202		32	12	0.6	32	17	0.033	0.018	0.0077	0.043	51215		110	27	1	110	77	0.65	0.35	0.1517	0.85		
51103	17	30	9	0.3	30	18	0.019	0.010	0.0045	0.025	51116	80	105	19	1	105	82	0.32	0.17	0.0748	0.42		
51203		35	12	0.6	35	19	0.038	0.021	0.0090	0.05	51216		115	28	1	115	82	0.72	0.38	0.1671	0.93		
51104	20	35	10	0.3	35	21	0.028	0.015	0.0066	0.037	51117	85	110	19	1	110	87	0.34	0.18	0.0790	0.44		
51204		40	14	0.6	40	22	0.069	0.032	0.0138	0.077	51217		125	31	1	125	88	0.94	0.50	0.2190	1.2		
51105	25	42	11	0.6	42	26	0.043	0.023	0.0101	0.056	51118	90	120	22	1	120	92	0.50	0.27	0.1159	0.6		
51205		47	15	0.6	47	27	0.085	0.046	0.0199	0.11	51218		135	35	1.1	135	93	1.30	0.69	0.3033	1.69		
51106	30	47	11	0.6	47	32	0.049	0.026	0.0115	0.064	51120	100	135	25	1	135	102	0.74	0.39	0.1723	0.96		
51206		52	16	0.6	52	32	0.11	0.056	0.0246	0.14	51220		150	38	1.1	150	103	1.73	0.92	0.4038	2.25		
51107	35	52	12	0.6	52	37	0.062	0.033	0.0145	0.081	51122	110	145	25	1	145	112	0.80	0.43	0.1867	1.04		
51207		62	18	1	62	37	0.16	0.086	0.0377	0.21	51124	120	155	25	1	155	122	0.86	0.46	0.2010	1.12		
51108	40	60	13	0.6	60	42	0.092	0.049	0.0215	0.12													
51208		68	19	1	68	42	0.21	0.11	0.0485	0.27													
51109	45	65	14	0.6	65	47	0.11	0.059	0.0267	0.14													
51209		73	20	1	73	47	0.24	0.13	0.0566	0.31													
51110	50	70	14	0.6	70	52	0.12	0.063	0.0275	0.15													
51210		78	22	1	78	52	0.29	0.16	0.0678	0.38													
51111	55	78	16	0.6	78	57	0.17	0.093	0.0407	0.23													
51211		90	25	1	90	57	0.46	0.25	0.1075	0.60													
51112	60	85	17	1	85	62	0.22	0.12	0.0504	0.28													
51212		95	26	1	95	62	0.52	0.28	0.1208	0.67													

Tolerance:

P0 grade tolerance of **Outer ring** (For ceramic and stainless bearings)

D (mm)		ΔDmp		Vdp				VDmp	Kea	ΔCs ΔC	VCs VC
				Open type bearing		Closed type bearing					
				D							
Over	Reach	upper deviation	lower deviation	Max				Max	Max	upper deviation	lower deviation
0,5 ¹⁾	6	0	-8	10	8	6	10	6	15	Same as delta Bs and VBs of same bearing inner ring	
6	18	0	-8	10	8	6	10	6	15		
18	30	0	-9	12	9	7	12	7	15		
30	50	0	-11	14	11	8	16	8	20		
50	80	0	-13	16	13	10	20	10	25		
80	120	0	-15	19	19	11	26	11	35		
120	150	0	-18	23	23	14	30	14	40		
250	180	0	-25	31	31	19	38	19	45		
180	250	0	-30	38	38	23		23	50		
250	315	0	-35	44	44	26		26	60		

Note: 1) Including 2.5

2) Diameter series 7 and 8 no regular cost.

3) Diameter series 9,0,1 no regular cost.

4) Suitable for inside and outside brake ring before installation or after discharge.

P0 grade Tolerance of ceramic and stainless bearings of **Inner ring**

d (mm)		Δdmp		Vdp ²⁾			Vdmp	K	ΔBs			VBS
				D					ALL	Regular	correctio n	
				9	0,1	2,3,4						
Over	Reach	upper deviatio n	lower deviatio n	Max			Max	Max	upper deviatio n	lower deviation		
0.6 ¹⁾	2.5	0	-8	10	8	6	9	10	0	-40	-250	12
2.5	10	0	-8	10	8	6	9	10	0	-120	-250	15
10	18	0	-8	10	8	6	9	10	0	-120		20
18	30	0	-10	13	10	8	8	13	0	-120	-250	20
30	50	0	-12	15	12	9	9	15	0	-120	-250	20
50	80	0	-15	19	19	11	11	20	0	-150	-380	25
80	120	0	-20	21	21	15	15	25	0	-200	-380	25
120	180	0	-25	35	35	19	19	30	0	-250	-500	30
180	250	0	-30	38	38	23	23	40	0	-300	-500	30

Note: 1) Including 0.6

Note: 2) Diameter series 7 and 8, no regular cost.

Internal clearance (Radial clearance)

- Internal clearance (also called sitting clearance) in rolling bearing operation has a great influence on bearing performance such as fatigue life, vibration and noise. Therefore, selection of internal clearance of bearing that with determined structure and size is an important research project. The so-called clearance refers to the clearance size between the inner ring, outer ring and rolling element of the bearing. That is, the distance of movement by which one of the inner ring or the outer ring is fixed and the other ferrule is moved up and down or left and right. The distance of movement in radial direction and axial direction are called radial clearance and axial clearance respectively. National standards are stipulated based on relevant international standards.
- Ceramic bearings and stainless steel bearings produced by our company (plastic bearings are required separately) are produced according to the following series of radial clearance standards (equivalent to national and international standards). Group 0 is the basic group (also known as standard clearance) and will be supplied according to this series without special instructions. Plastic bearings are produced according to the axial clearance standard in Table 3. Dimensional stability of plastic bearings is limited by their own precision. During processing and installation, plastic bearings are easy to deform due to extrusion of the shaft and the shell, resulting in reduced working clearance. Therefore, a relatively larger clearance should be fitted during manufacturing to ensure normal use of bearing.

Radial clearance of ceramic and stainless bearings

(um)

Table1. Deep groove ball bearings(For ceramic and stainless bearings)

d (mm) Bore diameter		(C2)		(C0)		(C3)		(C4)		(C5)		d (mm) Bore diameter		(C2)		(C0)		(C3)		(C4)		(C5)	
		min	max	min	max	min	max	min	max	min	max			min	max	min	max	min	max	min	max	min	max
2.5	6	1	8	5	16	10	20	15	25	21	33	2.5	6	0	7	2	13	8	23	14	29	20	37
6	10	2	9	6	17	12	25	19	33	27	42	6	10	0	7	2	13	8	23	18	33	25	45
10	14	2	10	6	19	13	26	21	35	30	48	10	18	0	9	3	18	11	25				
14	18	3	12	8	21	16	28	23	37	32	50	18	24	0	10	5	20	13	28	20	31	28	48
18	24	4	14	10	23	17	30	25	39	34	52	24	30	1	11	5	20	13	28	23	41	30	53
24	30	5	16	11	24	19	35	29	45	40	58	30	40	1	11	5	20	15	33	28	45	40	64
30	40	6	18	13	29	23	40	34	53	46	66	40	50	1	11	5	23	18	36	30	51	45	73
40	50	6	19	14	31	25	44	37	57	50	71	50	65	1	15	8	28	23	43	38	61	55	90
50	65	7	21	16	36	30	50	45	69	62	88	65	80	1	15	10	30	25	51	46	71	65	105
65	80	8	24	18	40	35	60	54	83	76	108	80	100	1	18	12	35	30	58	53	84	75	120
80	100	9	27	22	48	42	70	64	96	89	124	100	120	2	20	15	41	35	66	61	97	90	140
100	120	10	31	25	56	50	83	76	114	105	145	120	140	2	23	18	48	41	81	71	114	105	160
120	140	10	38	30	68	60	100	90	135	125	175												
140	160	15	44	35	80	70	120	110	161	150	210												

Properties comparison of all kinds of bearing

Properties comparison of all kinds of bearing					
Inner and outer rings/Ball/cage	Load capacity	Limiting speed	Anti-corrosion	Long-time working temp	Used costs
ZrO2/ZrO2/PA	★★★★★	★★★★★	★★	90℃	★★★★★
ZrO2/ZrO2/PTFE	★★★★★	★★★★★	★★★★★★	180℃	★★★★★
ZrO2/ZrO2/PEEK	★★★★★	★★★★★	★★★★★	260℃	★★★★★
ZrO2/ZrO2/PI	★★★★★	★★★★★	★★★★★	300℃	★★★★★
ZrO2/ZrO2/ (no cage)	★★★★★	★★★★★	★★★★★★	400℃	★★★★★
Si3N4/Si3N4/PTFE	★★★★★	★★★★★	★★★★★★	180℃	★★★★★★
Si3N4/Si3N4/PEEK	★★★★★	★★★★★	★★★★★	260℃	★★★★★★
Si3N4/Si3N4/PA	★★★★★	★★★★★	★★	90℃	★★★★★★
Si3N4/Si3N4/ (no cage)	★★★★★	★★★★★	★★★★★★	1100℃	★★★★★★
Si3N4/Si3N4/PI	★★★★★	★★★★★	★★★★★	300℃	★★★★★★
POM/PA/ (glass)	★★★	★★★	★★	90℃	★
POM/PA/316	★★★	★★★	★★	90℃	★
HDPE/HDPE/ (glass)	★★	★★	★★★★	80℃	★
HDPE/HDPE/316	★★	★★	★★★	80℃	★
PP/ (glass) /PP	★★	★★	★★★★	85℃	★
PEEK/ZrO2/PEEK	★★★	★★★★★	★★★★★	260℃	★★★★★
PEEK/ZrO2/PTFE	★★★	★★★★★	★★★★★	180℃	★★★★★
UPE/ZrO2/UPE	★★	★★	★★★★	80℃	★★★★
PTFE/ZrO2/PTFE	★	★	★★★★★★	180℃	★★★★
PVDF/ZrO2/PVDF	★★★	★★★	★★★★★★	150℃	★★★★
440C/440C/304	★★★★★★	★★★★★★	★	180℃	★
316/316/316	★★★★	★★★★	★★★	180℃	★★
304/304/304	★★★★	★★★★	★★	180℃	★★
316L/316L/316L	★★★★	★★★★	★★★	180℃	★★
440C/ZrO2/304	★★★★★	★★★★★	★	180℃	★★★
440C/Si3N4/304	★★★★★★	★★★★★★	★	180℃	★★★
316/ZrO2/PTFE	★★★★	★★★★	★★★	180℃	★★★★
316/Si3N4/316	★★★★	★★★★	★★★	180℃	★★★★★
GCr15/GCr15/08F	★★★★★★	★★★★★★	★	120℃	★
GCr15/ZrO2/08F	★★★★★★	★★★★★★	★	120℃	★
GCr15/Si3N4/08F	★★★★★★	★★★★★★	★	120℃	★★