

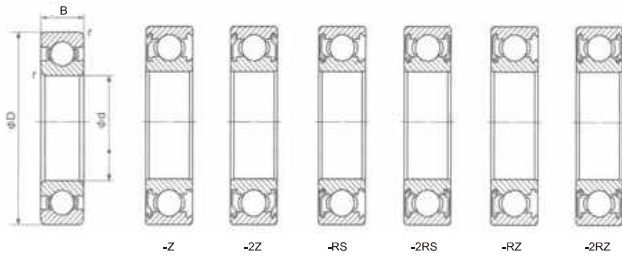
Deep Groove Ball Bearings



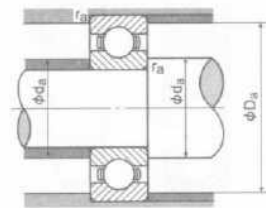
Deep groove ball bearings are the most widely used bearing type with a broad dimension range and extensive varieties. Outer diameter ranges from 3mm to 1700mm. Deep groove bearings can accommodate radial load, axial load and combined load.

UBC Deep Groove Ball Bearings

d: 10 ~ 22 mm



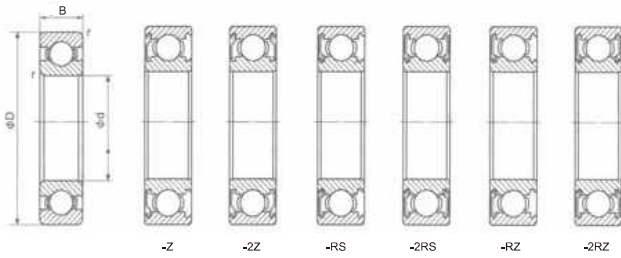
Deep Groove Ball Bearings UBC



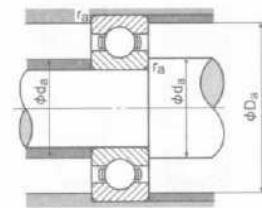
Principal Dimensions (mm)		Bearing Designations								Basic Load Rating (N)		Limiting Speed (rpm)		Abutment And Fillet Dimensions (mm)			Weight (kg)		
d	D	B	r (min)	Open	Shield Type	Contact Seal Type	Non-Contact Seal Type	Dynamic Cr	Static Cor	Open, Z, Z2, RZ, 2RZ	Oil RS, 2RS	Open, Z	da (min)	Da (max)	ra (max)				
10	19	5	0.3	61800	61800-Z	61800-2Z	-	-	-	-	2120	985	37000	-	44000	12	17	0.3	0.005
	22	6	0.3	61900	61900-Z	61900-2Z	61900-RS	61900-2RS	61900-RZ	61900-2RZ	2490	1130	33000	22000	38000	12	20	0.3	0.009
	26	8	0.3	6000	6000-Z	6000-2Z	6000-RS	6000-2RS	6000-RZ	6000-2RZ	4550	1970	30000	20000	36000	12	24	0.3	0.019
	30	9	0.6	6200	6200-Z	6200-2Z	6200-RS	6200-2RS	6200-RZ	6200-2RZ	5100	2390	24000	17000	30000	15	25	0.6	0.032
	35	11	0.6	6300	6300-Z	6300-2Z	6300-RS	6300-2RS	6300-RZ	6300-2RZ	8100	3450	21000	17000	26000	15	30	0.6	0.053
12	21	5	0.3	61801	61801-Z	61801-2Z	61801-RS	61801-2RS	61801-RZ	61801-2RZ	1920	1040	32000	20000	39000	14	19	0.3	0.006
	24	6	0.3	61901	61901-Z	61901-2Z	61901-RS	61901-2RS	61901-RZ	61901-2RZ	2700	1320	30000	19000	35000	14	22	0.3	0.011
	28	8	0.3	6001	6001-Z	6001-2Z	6001-RS	6001-2RS	6001-RZ	6001-2RZ	5100	2390	27000	17000	32000	14	26	0.3	0.023
	32	10	0.6	6201	6201-Z	6201-2Z	6201-RS	6201-2RS	6201-RZ	6201-2RZ	6800	3050	22000	16000	27000	17	27	0.6	0.037
	37	12	1	6301	6301-Z	6301-2Z	6301-RS	6301-2RS	6301-RZ	6301-2RZ	9750	4250	19000	15000	24000	18	31	1.0	0.060
15	24	5	0.3	61802	61802-Z	61802-2Z	61802-RS	61802-2RS	61802-RZ	61802-2RZ	2080	1260	27000	16000	32000	17	22	0.3	0.007
	28	7	0.3	61902	61902-Z	61902-2Z	61902-RS	61902-2RS	61902-RZ	61902-2RZ	4300	2250	26000	15000	31000	17	26	0.3	0.016
	32	8	0.3	16002	16002-Z	16002-2Z	16002-RS	16002-2RS	16002-RZ	16002-2RZ	5600	2840	23000	-	28000	20	27	0.3	0.025
	32	9	0.3	6002	6002-Z	6002-2Z	6002-RS	6002-2RS	6002-RZ	6002-2RZ	5600	2840	23000	14000	28000	17	30	0.3	0.032
	35	11	0.6	6202	6202-Z	6202-2Z	6202-RS	6202-2RS	6202-RZ	6202-2RZ	7650	3700	19000	13000	24000	20	30	0.6	0.045
42	13	1	6302	6302-Z	6302-2Z	6302-RS	6302-2RS	6302-RZ	6302-2RZ	11400	5400	17000	12000	20000	21	36	1.0	0.082	
17	26	5	0.3	61803	61803-Z	61803-2Z	61803-RS	61803-2RS	61803-RZ	61803-2RZ	2630	1570	25000	15000	30000	19	24	0.3	0.008
	30	7	0.3	61903	61903-Z	61903-2Z	61903-RS	61903-2RS	61903-RZ	61903-2RZ	4600	2550	24000	14000	29000	19	28	0.3	0.018
	35	8	0.3	16003	-	-	-	-	-	-	6000	3250	20000	-	24000	22	30	0.3	0.032
	35	10	0.3	6003	6003-Z	6003-2Z	6003-RS	6003-2RS	6003-RZ	6003-2RZ	6000	3250	20000	13000	25000	19	33	0.3	0.039
	40	12	0.6	6203	6203-Z	6203-2Z	6203-RS	6203-2RS	6203-RZ	6203-2RZ	9550	4800	17000	12000	21000	22	35	0.6	0.065
47	14	1	6303	6303-Z	6303-2Z	6303-RS	6303-2RS	6303-RZ	6303-2RZ	13800	6550	15000	11000	18000	23	41	1.0	0.115	
20	32	7	0.3	61804	61804-Z	61804-2Z	61804-RS	61804-2RS	61804-RZ	61804-2RZ	4000	2640	20000	12000	24000	22	30	0.3	0.019
	37	9	0.3	61904	61904-Z	61904-2Z	61904-RS	61904-2RS	61904-RZ	61904-2RZ	6350	3700	19000	11000	23000	22	35	0.3	0.036
	42	8	0.3	16004	-	-	-	-	-	-	7900	4500	17000	-	21000	25	37	0.3	0.050
	42	12	0.6	6004	6004-Z	6004-2Z	6004-RS	6004-2RS	6004-RZ	6004-2RZ	9400	5000	17000	11000	21000	24	38	0.6	0.070
	47	14	1	6204	6204-Z	6204-2Z	6204-RS	6204-2RS	6204-RZ	6204-2RZ	12800	6600	14000	10000	18000	26	41	1.0	0.106
22	52	15	1.1	6304	6304-Z	6304-2Z	6304-RS	6304-2RS	6304-RZ	6304-2RZ	15900	7900	13000	9500	16000	27	45	1.1	0.144
	50	14	1	62/22	62/22-Z	62/22-2Z	62/22-RS	62/22-2RS	62/22-RZ	62/22-2RZ	13900	6950	13000	9000	17000	28	44	1.0	0.120
56	16	1.1	63/22	63/22-Z	63/22-2Z	63/22-RS	63/22-2RS	63/22-RZ	63/22-2RZ	18400	9250	12000	8000	15000	29	49	1.0	0.176	

UBC Deep Groove Ball Bearings

d: 25 ~ 45 mm



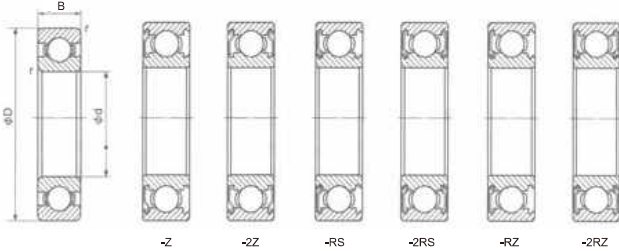
Deep Groove Ball Bearings UBC



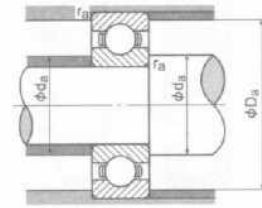
Principal Dimensions (mm)		Bearing Designations								Basic Load Rating (N)		Limiting Speed (rpm)			Abutment And Fillet Dimensions (mm)			Weight (kg)	
d	D	B	r (min)	Open	Shield Type	Contact Seal Type	Non-Contact Seal Type	Dynamic Cr	Static Cor	Open, Z	RS,2RS	Oil, Z	da (min)	Da (max)	ra (max)				
25	37	7	0.3	61805	61805-Z	61805-2Z	61805-RS	61805-2RS	61805-RZ	61805-2RZ	4300	2940	18000	10000	20000	27	35	0.3	0.022
	42	9	0.3	61905	61905-Z	61905-2Z	61905-RS	61905-2RS	61905-RZ	61905-2RZ	7000	4500	16000	9500	20000	27	40	0.3	0.042
	47	8	0.3	16005	16005-Z	16005-2Z	16005-RS	16005-2RS	16005-RZ	16005-2RZ	6950	4600	15000	-	18000	30	42	0.3	0.060
	47	12	0.6	6005	6005-Z	6005-2Z	6005-RS	6005-2RS	6005-RS	6005-2RZ	10100	5850	15000	9000	18000	29	43	0.6	0.079
	52	15	1	6205	6205-Z	6205-2Z	6205-RS	6205-2RS	6205-RZ	6205-2RZ	14000	7900	12000	8500	16000	31	46	1.0	0.128
	62	17	1.1	6305	6305-Z	6305-2Z	6305-RS	6305-2RS	6305-RZ	6305-2RZ	23600	12100	11000	8000	14000	32	55	1.0	0.232
28	58	16	1	62/28	62/28-Z	62/28-2Z	62/28-RS	62/28-2RS	62/28-RZ	62/28-2RZ	17900	9750	11000	8200	14000	34	52	1.0	0.175
	68	18	1.1	63/28	63/28-Z	63/28-2Z	63/28-RS	63/28-2RS	63/28-RZ	63/28-2RZ	26800	14000	10000	7000	12000	35	61	1.0	0.287
30	42	7	0.3	61806	61806-Z	61806-2Z	61806-RS	61806-2RS	61806-RZ	61806-2RZ	5350	3800	15000	8700	17000	32	40	0.3	0.026
	47	9	0.3	61906	61906-Z	61906-2Z	61906-RS	61906-2RS	61906-RZ	61906-2RZ	7250	5000	14000	8200	16000	32	45	0.3	0.045
	55	9	0.3	16006	16006-Z	16006-2Z	16006-RS	16006-2RS	16006-RZ	16006-2RZ	9950	6550	12000	-	15000	35	50	0.3	0.085
	55	13	1	6006	6006-Z	6006-2Z	6006-RS	6006-2RS	6006-RZ	6006-2RZ	13200	8300	12000	7700	15000	35	50	1.0	0.117
	62	16	1	6206	6206-Z	6206-2Z	6206-RS	6206-2RS	6206-RZ	6206-2RZ	19500	11300	10000	7300	13000	36	56	1.0	0.199
	72	19	1.1	6306	6306-Z	6306-2Z	6306-RS	6306-2RS	6306-RZ	6306-2RZ	26700	15000	9200	6800	11000	37	65	1.0	0.346
32	65	17	1	62/32	62/32-Z	62/32-2Z	62/32-RS	62/32-2RS	62/32-RZ	62/32-2RZ	22400	13100	9500	7000	12000	38	59	1.0	0.230
	75	20	1.1	63/32	63/32-Z	63/32-2Z	63/32-RS	63/32-2RS	63/32-RZ	63/32-2RZ	30000	16200	9000	6000	11000	39	68	1.0	0.382
35	47	7	0.3	61807	61807-Z	61807-2Z	61807-RS	61807-2RS	61807-RZ	61807-2RZ	4750	3800	13000	7600	15000	37	45	0.3	0.029
	55	10	0.6	61907	61907-Z	61907-2Z	61907-RS	61907-2RS	61907-RZ	61907-2RZ	10400	7150	12000	7000	14000	39	51	0.6	0.073
	62	9	0.3	16007	16007-Z	16007-2Z	16007-RS	16007-2RS	16007-RZ	16007-2RZ	11700	8150	11000	-	13000	40	57	0.6	0.110
	62	14	1	6007	-	-	-	-	-	-	16000	10300	11000	6800	13000	40	57	1.0	0.156
	72	17	1.1	6207	6207-Z	6207-2Z	6207-RS	6207-2RS	6207-RZ	6207-2RZ	25700	15300	9000	6300	11000	42	65	1.0	0.288
	80	21	1.5	6307	6307-Z	6307-2Z	6307-RS	6307-2RS	6307-RZ	6307-2RZ	33500	19200	8400	5900	10000	44	71	1.5	0.457
40	52	7	0.3	61808	61808-Z	61808-2Z	61808-RS	61808-2RS	61808-RZ	61808-2RZ	5950	4900	12000	6700	14000	42	50	0.3	0.033
	62	12	0.6	61908	61908-Z	61908-2Z	61908-RS	61908-2RS	61908-RZ	61908-2RZ	13700	9950	11000	6100	13000	44	58	0.6	0.108
	68	9	0.3	16008	-	-	-	-	-	-	11100	8550	9700	-	12000	45	63	0.3	0.125
	68	15	1	6008	6008-Z	6008-2Z	6008-RS	6008-2RS	6008-RZ	6008-2RZ	16800	11500	9500	6000	12000	45	63	1.0	0.194
	80	18	1.1	6208	6208-Z	6208-2Z	6208-RS	6208-2RS	6208-RZ	6208-2RZ	29100	17900	8200	5600	10000	47	73	1.0	0.366
	90	23	1.5	6308	6308-Z	6308-2Z	6308-RS	6308-2RS	6308-RZ	6308-2RZ	40500	24100	7500	5200	9000	49	81	1.5	0.633
45	58	7	0.3	61809	61809-Z	61809-2Z	61809-RS	61809-2RS	61809-RZ	61809-2RZ	5350	4900	11000	5900	13000	47	56	0.3	0.040
	68	12	0.6	61909	61909-Z	61909-2Z	61909-RS	61909-2RS	61909-RZ	61909-2RZ	14100	10900	10000	5600	12000	49	64	0.6	0.122

UBC Deep Groove Ball Bearings

d: 45 ~ 70 mm



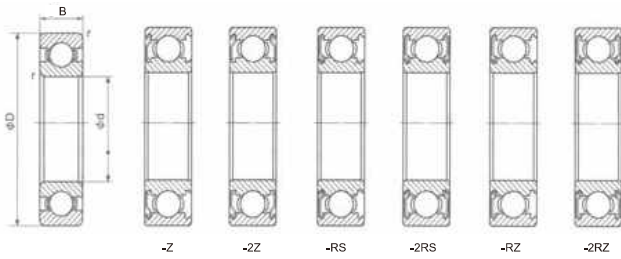
Deep Groove Ball Bearings **UBC**



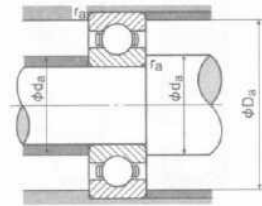
d	Principal Dimensions (mm)			Bearing Designations						Basic Load Rating (N)		Limiting Speed (rpm)		Abutment And Fillet Dimensions (mm)			Weight (kg)		
	D	B	r (min)	Open	Shield Type	Contact Seal Type	Non-Contact Seal Type	Dynamic Cr	Static Cor	Grease Open, Z, 2Z, RZ, 2RZ	Oil RS, 2RS	Open, Z	da (min)	Da (max)	ra (max)				
45	75	10	0.6	16009	-	-	-	-	12900	10500	9000	-	11000	52	68	0.6	0.170		
	75	16	1	6009	6009-Z	6009-2Z	6009-RS	6009-2RS	6009-RZ	6009-2RZ	20900	15200	8800	5300	11000	50	70	1.0	0.246
	85	19	1.1	6209	6209-Z	6209-2Z	6209-RS	6209-2RS	6209-RZ	6209-2RZ	32500	20500	7600	5100	9300	52	78	1.0	0.407
50	100	25	1.5	6309	6309-Z	6309-2Z	6309-RS	6309-2RS	6309-RZ	6309-2RZ	53000	32000	6700	4600	8000	54	91	1.5	0.833
	65	7	0.3	61810	61810-Z	61810-2Z	61810-RS	61810-2RS	61810-RZ	61810-2RZ	6400	5800	10000	5300	12000	52	63	0.3	0.052
	72	12	0.6	61910	61910-Z	61910-2Z	61910-RS	61910-2RS	61910-RZ	61910-2RZ	14500	11700	9500	5100	11000	54	68	0.6	0.125
	80	10	0.6	16010	-	-	-	-	-	-	16100	13100	8300	-	10000	57	73	0.6	0.180
	80	16	1	6010	6010-Z	6010-2Z	6010-RS	6010-2RS	6010-RZ	6010-2RZ	21800	16600	8300	4800	10000	55	75	1.0	0.264
	90	20	1.1	6210	6210-Z	6210-2Z	6210-RS	6210-2RS	6210-RZ	6210-2RZ	35000	23200	7000	4700	8600	57	83	1.0	0.463
55	110	27	2	6310	6310-Z	6310-2Z	6310-RS	6310-2RS	6310-RZ	6310-2RZ	62000	38000	6200	4100	7300	60	100	2.0	1.070
	72	9	0.3	61811	61811-Z	61811-2Z	61811-RS	61811-2RS	61811-RZ	61811-2RZ	8800	8100	8500	-	10000	57	70	0.3	0.083
	80	13	1	61911	61911-Z	61911-2Z	61911-RS	61911-2RS	61911-RZ	61911-2RZ	16000	13200	8000	-	9000	60	75	1.0	0.177
	90	11	0.6	16011	-	-	-	-	-	-	15200	13500	7500	-	9000	62	83	0.6	0.260
	90	18	1.1	6011	6011-Z	6011-2Z	6011-RS	6011-2RS	6011-RZ	6011-2RZ	28300	21300	7500	4400	9000	61	84	1.0	0.384
60	100	21	1.5	6211	6211-Z	6211-2Z	6211-RS	6211-2RS	6211-RZ	6211-2RZ	43500	29300	6300	4200	7700	64	91	1.5	0.607
	120	29	2	6311	6311-Z	6311-2Z	6311-RS	6311-2RS	6311-RZ	6311-2RZ	71500	44500	5600	3800	6600	65	110	2.0	1.370
	78	10	0.3	61812	61812-Z	61812-2Z	61812-RS	61812-2RS	61812-RZ	61812-2RZ	11500	10600	8000	-	9500	62	76	0.3	0.106
	85	13	1	61912	61912-Z	61912-2Z	61912-RS	61912-2RS	61912-RZ	61912-2RZ	15200	13500	7500	-	9000	65	80	1.0	0.191
	95	11	0.6	16012	-	-	-	-	-	-	16200	14300	7000	-	8200	67	88	0.6	0.280
65	95	18	1.1	6012	6012-Z	6012-2Z	6012-RS	6012-2RS	6012-RZ	6012-2RZ	29400	23200	7000	4100	8300	66	89	1.0	0.418
	110	22	1.5	6212	6212-Z	6212-2Z	6212-RS	6212-2RS	6212-RZ	6212-2RZ	52500	36000	5800	3800	7100	69	101	1.5	0.783
	130	31	2.1	6312	6312-Z	6312-2Z	6312-RS	6312-2RS	6312-RZ	6312-2RZ	82000	52000	5100	3500	6100	72	118	2.0	1.700
	85	10	0.6	61813	61813-Z	61813-2Z	61813-RS	61813-2RS	61813-RZ	61813-2RZ	11900	11500	7500	-	8500	69	81	0.6	0.125
	90	13	1	61913	61913-Z	61913-2Z	61913-RS	61913-2RS	61913-RZ	61913-2RZ	17400	16000	7000	-	8500	70	85	1.0	0.200
70	100	11	0.6	16013	-	-	-	-	-	-	20500	18600	6500	-	7500	72	93	0.6	0.300
	100	18	1.1	6013	6013-Z	6013-2Z	6013-RS	6013-2RS	6013-RZ	6013-2RZ	30500	25200	6500	3800	7800	71	94	1.0	0.438
	120	23	1.5	6213	6213-Z	6213-2Z	6213-RS	6213-2RS	6213-RZ	6213-2RZ	57000	40000	5300	3500	6500	74	111	1.5	0.990
	140	33	2.1	6313	6313-Z	6313-2Z	6313-RS	6313-2RS	6313-RZ	6313-2RZ	92500	59500	4700	3300	5700	77	128	2.0	2.080
	90	10	0.6	61814	61814-Z	61814-2Z	61814-RS	61814-2RS	61814-RZ	61814-2RZ	12100	11900	7000	-	8000	74	86	0.6	0.135
70	100	16	1	61914	61914-Z	61914-2Z	61914-RS	61914-2RS	61914-RZ	61914-2RZ	23700	21100	6500	-	7500	75	95	1.0	0.327
	110	13	0.6	16014	-	-	-	-	-	-	26800	23600	6000	-	7000	77	103	0.6	0.433
	110	20	1.1	6014	6014-Z	6014-2Z	6014-RS	6014-2RS	6014-RZ	6014-2RZ	38000	31000	6000	3500	7100	76	104	1.0	0.607
	125	24	1.5	6214	6214-Z	6214-2Z	6214-RS	6214-2RS	6214-RZ	6214-2RZ	62000	44000	5000	3300	5900	79	116	1.5	1.070
	150	35	2.1	6314	6314-Z	6314-2Z	6314-RS	6314-2RS	6314-RZ	6314-2RZ	104000	68000	4400	3100	5300	82	138	2.0	2.520

UBC Deep Groove Ball Bearings

d: 75 ~ 100 mm



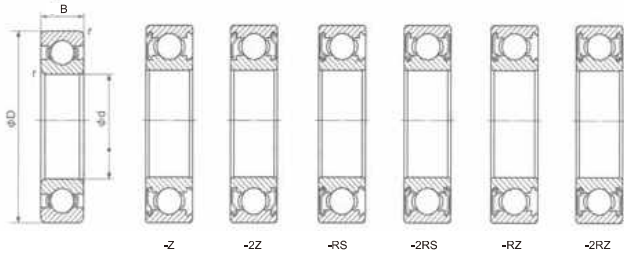
Deep Groove Ball Bearings **UBC**



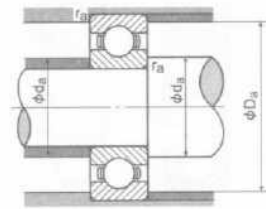
Principal Dimensions (mm)				Bearing Designations							Basic Load Rating (N)		Limiting Speed (rpm)			Abutment And Fillet Dimensions (mm)			Weight (kg)
d	D	B	r (min)	Open	Shield Type	Contact Seal Type	Non-Contact Seal Type		Dynamic Cr	Static Cor	Grease		Oil	da (min)	Da (max)	ra (max)			
											Open, Z	RS,2RS	Open, Z						
75	95	10	0.6	61815	61815-Z	61815-2Z	61815-RS	61815-2RS	61815-RZ	61815-2RZ	12500	12800	6500	-	7500	79	91	0.6	0.145
	105	16	1	61915	61915-Z	61915-2Z	61915-RS	61915-2RS	61915-RZ	61915-2RZ	20800	19700	6200	-	7200	80	100	1.0	0.345
	115	13	0.6	60015	-	-	-	-	-	-	27600	25300	5500	-	6500	82	108	0.6	0.457
	115	20	1.1	6015	6015-Z	6015-2Z	6015-RS	6015-2RS	6015-RZ	6015-2RZ	39500	33500	5700	3300	6700	81	109	1.0	0.645
	130	25	1.5	6215	6215-Z	6215-2Z	6215-RS	6215-2RS	6215-RZ	6215-2RZ	66000	49500	4800	3100	5600	84	121	1.5	1.18
	160	37	2.1	6315	6315-Z	6315-2Z	6315-RS	6315-2RS	6315-RZ	6315-2RZ	113000	77000	4100	2900	5000	87	148	2.0	3.02
80	100	10	0.6	61816	61816-Z	61816-2Z	61816-RS	61816-2RS	61816-RZ	61816-2RZ	12700	13300	6000	-	7000	84	96	0.6	0.155
	110	16	1	61916	61916-Z	61916-2Z	61916-RS	61916-2RS	61916-RZ	61916-2RZ	27600	25300	5500	-	6500	85	105	1.0	0.363
	125	14	0.6	60016	-	-	-	-	-	-	32000	29600	5300	-	6200	87	118	0.6	0.597
	125	22	1.1	6016	6016-Z	6016-2Z	6016-RS	6016-2RS	6016-RZ	6016-2RZ	47500	39500	5300	-	6200	86	119	1.0	0.855
	140	26	2	6216	6216-Z	6216-2Z	6216-RS	6216-2RS	6216-RZ	6216-2RZ	72500	53000	4500	3000	5200	90	130	2.0	1.40
	170	39	2.1	6316	6316-Z	6316-2Z	6316-RS	6316-2RS	6316-RZ	6316-2RZ	123000	86500	3800	2700	4500	92	158	2.0	3.59
85	110	13	1	61817	61817-Z	61817-2Z	61817-RS	61817-2RS	61817-RZ	61817-2RZ	18700	19000	5500	-	6500	90	105	1.0	0.265
	120	18	1.1	61917	61917-Z	61917-2Z	61917-RS	61917-2RS	61917-RZ	61917-2RZ	32000	29600	5200	-	6300	91	113	1.0	0.517
	130	14	0.6	60017	-	-	-	-	-	-	31500	29800	5000	-	6000	92	123	0.6	0.626
	130	22	1.1	6017	6017-Z	6017-2Z	6017-RS	6017-2RS	6017-RZ	6017-2RZ	49500	43000	5000	-	6000	91	124	1.1	0.895
	150	28	2	6217	6217-Z	6217-2Z	6217-RS	6217-2RS	6217-RZ	6217-2RZ	84000	62000	4200	2800	4900	95	140	2.0	1.79
	180	41	3	6317	6317-Z	6317-2Z	6317-RS	6317-2RS	6317-RZ	6317-2RZ	133000	96500	3600	2600	4300	99	166	2.5	4.23
90	115	13	1	61818	61818-Z	61818-2Z	61818-RS	61818-2RS	61818-RZ	61818-2RZ	19000	19700	5300	-	6200	95	110	1.0	0.280
	125	18	1.1	61918	61918-Z	61918-2Z	61918-RS	61918-2RS	61918-RZ	61918-2RZ	33000	31500	5000	-	6000	96	119	1.0	0.540
	140	16	1	60018	60018-Z	60018-2Z	60018-RS	60018-2RS	60018-RZ	60018-2RZ	41500	39500	4800	-	5600	99	131	1.0	0.848
	140	24	1.5	6018	6018-Z	6018-2Z	6018-RS	6018-2RS	6018-RZ	6018-2RZ	58000	49500	4700	-	5600	97	133	1.5	1.17
	160	30	2	6218	6218-Z	6218-2Z	6218-RS	6218-2RS	6218-RZ	6218-2RZ	96000	71500	3900	2600	4600	100	150	2.0	2.15
	190	43	3	6318	6318-Z	6318-2Z	6318-RS	6318-2RS	6318-RZ	6318-2RZ	143000	107000	3400	2400	4000	104	176	2.5	4.91
95	120	13	1	61819	61819-Z	61819-2Z	61819-RS	61819-2RS	61819-RZ	61819-2RZ	19300	20500	5000	-	6000	100	115	1.0	0.298
	130	18	1.1	61919	61919-Z	61919-2Z	61919-RS	61919-2RS	61919-RZ	61919-2RZ	33500	33500	4700	-	5500	101	124	1.0	0.567
	145	16	1	60019	-	-	-	-	-	-	41000	39500	4600	-	5300	104	136	1.0	0.885
	145	24	1.5	6019	6019-Z	6019-2Z	6019-RS	6019-2RS	6019-RZ	6019-2RZ	60500	54000	4500	-	5300	102	138	1.5	1.22
	170	32	2.1	6219	6219-Z	6219-2Z	6219-RS	6219-2RS	6219-RZ	6219-2RZ	109000	81500	3700	2400	4300	107	158	2.0	2.62
	200	45	3	6319	6319-Z	6319-2Z	6319-RS	6319-2RS	6319-RZ	6319-2RZ	153000	118000	3200	2200	3800	109	186	2.5	5.67
100	125	13	1	61820	61820-Z	61820-2Z	61820-RS	61820-2RS	61820-RZ	61820-2RZ	19600	21200	4600	-	5500	105	120	1.0	0.311
	140	20	1.1	61920	61920-Z	61920-2Z	61920-RS	61920-2RS	61920-RZ	61920-2RZ	37000	36500	4400	-	5300	106	134	1.0	0.771

UBC Deep Groove Ball Bearings

d: 100 ~ 140 mm



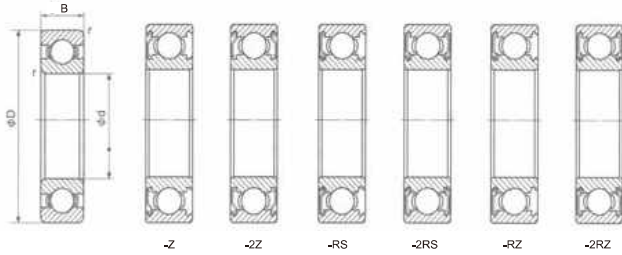
Deep Groove Ball Bearings UBC



Principal Dimensions (mm)			Bearing Designations								Basic Load Rating (N)		Limiting Speed (rpm)			Abutment And Fillet Dimensions (mm)			Weight (kg)
d	D	B	r (min)	Open	Shield Type	Contact Seal Type	Non-Contact Seal Type			Dynamic Cr	Static Cor	Grease		Oil	da (min)	Da (max)	ra (max)		
100	150	16	1	16020	-	-	-	-	-	37500	39500	4200	-	5000	109	141	1.0	0.910	
	150	24	1.5	6020	6020-Z	6020-2Z	6020-RS	6020-2RS	6020-RZ	6020-2RZ	60000	54000	4200	-	5000	107	143	1.5	1.26
	180	34	2.1	6220	6220-Z	6220-2Z	6220-RS	6220-2RS	6220-RZ	6220-2RZ	122000	93000	3500	2300	4100	112	168	2.0	3.14
	215	47	3	6320	6320-Z	6320-2Z	6320-RS	6320-2RS	6320-RZ	6320-2RZ	173000	141000	3000	2100	3600	114	201	2.5	7.00
105	130	13	1	61821	61821-Z	61821-2Z	61821-RS	61821-2RS	61821-RZ	61821-2RZ	19900	21900	4500	-	5500	110	125	1.0	0.325
	145	20	1.1	61921	61921-Z	61921-2Z	61921-RS	61921-2RS	61921-RZ	61921-2RZ	42500	42000	4200	-	5100	111	139	1.0	0.793
	160	18	1	16021	-	-	-	-	-	-	37500	50500	4000	-	4800	114	151	1.0	1.20
	160	26	2	6021	6021-Z	6021-2Z	6021-RS	6021-2RS	6021-RZ	6021-2RZ	72500	65500	4000	-	4800	113	152	2.0	1.60
	190	36	2.1	6221	6221-Z	6221-2Z	6221-RS	6221-2RS	6221-RZ	6221-2RZ	133000	104000	3200	-	3900	117	178	2.0	3.76
	225	49	3	6321	6321-Z	6321-2Z	6321-RS	6321-2RS	6321-RZ	6321-2RZ	184000	153000	2800	-	3400	119	211	2.5	8.05
110	140	16	1	61822	61822-Z	61822-2Z	61822-RS	61822-2RS	61822-RZ	61822-2RZ	27300	29400	4200	-	5100	115	135	1.0	0.510
	150	20	1.1	61922	61922-Z	61922-2Z	61922-RS	61922-2RS	61922-RZ	61922-2RZ	38000	38500	4000	-	5000	116	144	1.0	0.830
	170	19	1	16022	-	-	-	-	-	-	44000	45000	3800	-	4500	119	161	1.0	1.46
	170	28	2	6022	6022-Z	6022-2Z	6022-RS	6022-2RS	6022-RZ	6022-2RZ	84500	73000	3800	-	4500	118	162	2.0	1.97
	200	38	2.1	6222	6222-Z	6222-2Z	6222-RS	6222-2RS	6222-RZ	6222-2RZ	144000	117000	3000	-	3700	122	188	2.0	4.36
	240	50	3	6322	6322-Z	6322-2Z	6322-RS	6322-2RS	6322-RZ	6322-2RZ	205000	179000	2600	-	3200	124	226	2.5	9.54
120	150	16	1	61824	-	-	-	-	-	28300	31500	4000	-	4800	125	145	1.0	0.549	
	165	22	1.1	61924	-	-	-	-	-	53000	54000	3700	-	4600	126	159	1.0	1.13	
	180	19	1	16024	-	-	-	-	-	48000	50000	3500	-	4200	129	171	1.0	1.80	
	180	28	2	6024	6024-Z	6024-2Z	-	-	-	88000	79500	3500	-	4200	128	172	2.0	2.67	
	215	40	2.1	6224	6224-Z	6224-2Z	-	-	-	145000	118000	2800	-	3400	132	203	2.0	5.15	
	260	55	3	6324	6324-Z	6324-2Z	-	-	-	207000	185000	2400	-	3000	134	246	2.5	14.6	
130	165	18	1.1	61826	-	-	-	-	-	37000	41000	3600	-	4400	136	158	1.0	0.790	
	180	24	1.5	61926	-	-	-	-	-	65000	67000	3400	-	4200	137	173	1.5	1.78	
	200	22	1.1	16026	-	-	-	-	-	55000	59500	3200	-	3600	144	186	1.0	2.69	
	200	33	2	6026	6026-Z	6026-2Z	-	-	-	106000	101000	3200	-	3800	138	192	2.0	3.92	
	230	40	3	6226	6226-Z	6226-2Z	-	-	-	167000	146000	2600	-	3200	144	216	2.5	5.82	
	280	58	4	6326	6326-Z	6326-2Z	-	-	-	229000	214000	2200	-	2800	148	262	3.0	18.2	
140	175	18	1.1	61828	-	-	-	-	-	38000	44500	3400	-	4000	146	169	1.0	0.840	
	190	24	1.5	61928	-	-	-	-	-	66500	71000	3200	-	3800	147	183	1.5	1.90	
	210	22	1.1	16028	-	-	-	-	-	56000	62000	3000	-	3500	154	196	1.0	2.86	
	210	33	2	6028	6028-Z	6028-2Z	-	-	-	110000	109000	3000	-	3600	148	202	2.0	4.15	

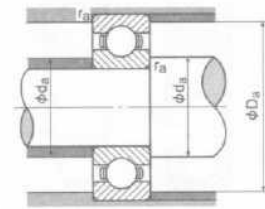
UBC Deep Groove Ball Bearings

d: 140 ~ 150 mm



Principal Dimensions (mm)				Bearing Designations						
d	D	B	r (min)	Open	Shield Type	Contact Seal Type	Non-Contact Seal Type			
140	250	42	3	6228	6228-Z	6228-2Z	-	-		
	300	62	4	6328	6328-Z	6328-2Z	-	-		
150	190	20	1.1	61830	-	-	-	-		
	210	28	2	61930	-	-	-	-		
	225	24	1.1	16030	-	-	-	-		
	225	35	2.1	6030	6030-Z	6030-2Z	-	-		
	270	45	3	6230	6230-Z	6230-2Z	-	-		
	320	65	4	6330	6330-Z	6330-2Z	-	-		

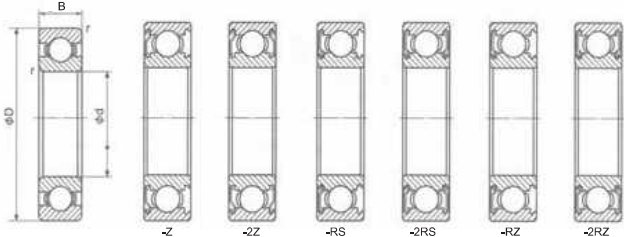
Deep Groove Ball Bearings UBC



	Basic Load Rating (N)		Limiting Speed (rpm)		Abutment And Fillet Dimensions (mm)			Weight (kg)	
	Dynamic Cr	Static Cor	Grease		Open, Z	Oil			
			Open, Z	RS, 2RS		Open, Z	da (min)		Da (max)
140	166000	150000	2400	-	2900	154	236	2.5	7.47
	253000	246000	2100	-	2800	158	282	3.0	21.8
150	47500	54500	3100	-	3500	156	184	1.0	1.20
	85500	87000	2800	-	3100	158	202	2.0	2.64
	76500	82500	2600	-	3200	164	211	1.0	3.58
	126000	126000	2600	-	3200	159	216	2.0	4.48
	176000	168000	2200	-	2800	164	256	2.5	9.41
	274000	284000	2000	-	2400	168	302	3.0	26.2

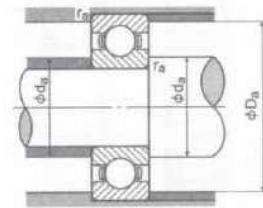
UBC Deep Groove Ball Bearings

d: 160 ~ 200 mm



Principal Dimensions (mm)				Bearing Designations						
d	D	B	r (min)	Open	Shield Type	Contact Seal Type		Non-Contact Seal Type		
160	200	20	1.1	61832	61832-Z	61832-ZZ	61832-RS	61832-2RS	61832-RZ	61832-2RZ
	200	24	1.1	62832	62832-Z	62832-ZZ	62832-RS	62832-2RS	62832-RZ	62832-2RZ
	220	28	2	61932	61932-Z	61932-ZZ	61932-RS	61932-2RS	61932-RZ	61932-2RZ
	220	36	2	62932	62932-Z	62932-ZZ	62932-RS	62932-2RS	62932-RZ	62932-2RZ
	240	38	2.1	6032	6032-Z	6032-ZZ	6032-RS	6032-2RS	6032-RZ	6032-2RZ
	240	48	3	6232	6232-Z	6232-ZZ	6232-RS	6232-2RS	6232-RZ	6232-2RZ
170	215	22	1.1	61834	61834-Z	61834-ZZ	61834-RS	61834-2RS	61834-RZ	61834-2RZ
	215	27	1.1	62834	62834-Z	62834-ZZ	62834-RS	62834-2RS	62834-RZ	62834-2RZ
	230	28	2	61934	61934-Z	61934-ZZ	61934-RS	61934-2RS	61934-RZ	61934-2RZ
	230	36	2	62934	62934-Z	62934-ZZ	62934-RS	62934-2RS	62934-RZ	62934-2RZ
	260	42	2.1	6034	6034-Z	6034-ZZ	6034-RS	6034-2RS	6034-RZ	6034-2RZ
	310	52	4	6234	6234-Z	6234-ZZ	6234-RS	6234-2RS	6234-RZ	6234-2RZ
180	225	22	1.1	61836	61836-Z	61836-ZZ	61836-RS	61836-2RS	61836-RZ	61836-2RZ
	225	27	1.1	62836	62836-Z	62836-ZZ	62836-RS	62836-2RS	62836-RZ	62836-2RZ
	250	33	2	61936	61936-Z	61936-ZZ	61936-RS	61936-2RS	61936-RZ	61936-2RZ
	250	42	2	62936	62936-Z	62936-ZZ	62936-RS	62936-2RS	62936-RZ	62936-2RZ
	280	46	2.1	6036	6036-Z	6036-ZZ	6036-RS	6036-2RS	6036-RZ	6036-2RZ
	320	52	4	6236	6236-Z	6236-ZZ	6236-RS	6236-2RS	6236-RZ	6236-2RZ
190	240	24	1.5	61838	61838-Z	61838-ZZ	61838-RS	61838-2RS	61838-RZ	61838-2RZ
	240	30	1.5	62838	62838-Z	62838-ZZ	62838-RS	62838-2RS	62838-RZ	62838-2RZ
	260	33	2	61938	61938-Z	61938-ZZ	61938-RS	61938-2RS	61938-RZ	61938-2RZ
	260	42	2	62938	62938-Z	62938-ZZ	62938-RS	62938-2RS	62938-RZ	62938-2RZ
	290	46	2.1	6038	6038-Z	6038-ZZ	6038-RS	6038-2RS	6038-RZ	6038-2RZ
	340	55	4	6238	6238-Z	6238-ZZ	6238-RS	6238-2RS	6238-RZ	6238-2RZ
200	250	24	1.5	61840	61840-Z	61840-ZZ	61840-RS	61840-2RS	61840-RZ	61840-2RZ
	250	30	1.5	62840	62840-Z	62840-ZZ	62840-RS	62840-2RS	62840-RZ	62840-2RZ
	280	38	2.1	61940	61940-Z	61940-ZZ	61940-RS	61940-2RS	61940-RZ	61940-2RZ
	280	48	2.1	62940	62940-Z	62940-ZZ	62940-RS	62940-2RS	62940-RZ	62940-2RZ
	310	51	2.1	6040	6040-Z	6040-ZZ	6040-RS	6040-2RS	6040-RZ	6040-2RZ
	360	58	4	6240	6240-Z	6240-ZZ	6240-RS	6240-2RS	6240-RZ	6240-2RZ
420	80	5	6340	6340-Z	6340-ZZ	6340-RS	6340-2RS	6340-RZ	6340-2RZ	

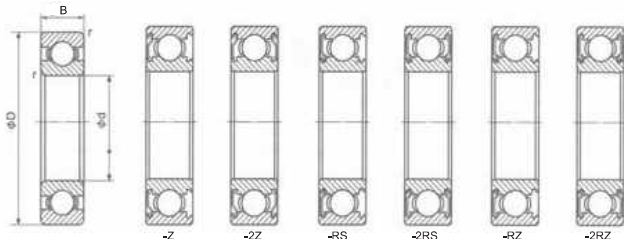
Deep Groove Ball Bearings **UBC**



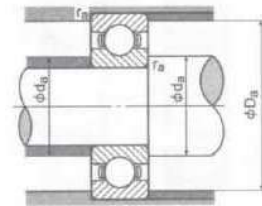
	Basic Load Rating (N)		Limiting Speed (rpm)			Abutment And Fillet Dimensions (mm)			Weight (kg)
	Dynamic Cr	Static Cor	Grease		Oil	da (min)	Da (max)	ra (max)	
			Open, Z	RS,2RS	Open, Z				
160	48500	56500	2800	-	3100	166	194	1.0	1.30
	48500	56500	2800	-	3100	166	194	1.0	-
	87500	95500	2600	-	2900	168	212	2.0	3.01
	87500	95500	2600	-	2900	168	212	2.0	-
	137000	135000	2400	-	3000	169	231	2.0	5.89
	185000	186000	2000	-	2400	174	276	2.5	14.3
170	278000	287000	1800	-	2000	178	322	3.0	28.6
	60000	70500	2600	-	3000	177	208	1.0	1.85
	60000	70500	2600	-	3000	177	208	1.0	-
	86000	95000	2400	-	2800	178	222	2.0	3.17
	86000	95000	2400	-	2800	178	222	2.0	-
	161000	160000	2200	-	2800	179	251	2.0	7.92
180	212000	224000	1900	-	2300	188	292	3.0	17.5
	325000	355000	1600	-	1900	188	342	3.0	34.0
	60500	73000	2400	-	2900	187	218	1.0	2.02
	60500	73000	2400	-	2900	187	218	1.0	-
	106000	117000	2200	-	2600	188	242	2.0	4.68
	106000	117000	2200	-	2600	188	242	2.0	-
190	174000	180000	2100	-	2600	189	271	2.0	10.3
	227000	242000	1800	-	2200	198	302	3.0	18.3
	325000	360000	1500	-	1900	198	362	3.0	41.9
	73000	89000	2200	-	2600	198	232	1.5	2.60
	73000	89000	2200	-	2600	198	232	1.5	-
	108000	123000	2100	-	2500	198	252	2.0	4.90
200	108000	123000	2100	-	2500	198	252	2.0	-
	188000	200000	2000	-	2500	199	281	2.0	10.8
	255000	282000	1700	-	2000	208	322	3.0	23.0
	355000	415000	1500	-	1800	212	378	4.0	48.2
	74000	91000	2100	-	2500	208	242	1.5	2.70
	74000	91000	2100	-	2500	208	242	1.5	-
200	130000	146000	2000	-	2500	209	271	2.0	6.88
	130000	146000	2000	-	2500	209	271	2.0	-
	202000	222000	1900	-	2400	209	301	2.0	13.9
	268000	310000	1600	-	1900	218	342	3.0	28.2
	380000	445000	1300	-	1700	222	398	4.0	54.6

UBC Deep Groove Ball Bearings

d: 220 ~ 320 mm



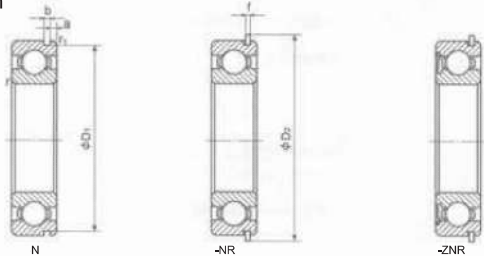
Deep Groove Ball Bearings **UBC**



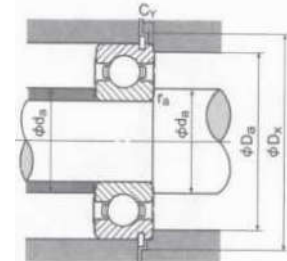
Principal Dimensions (mm)		Bearing Designations									Basic Load Rating (N)		Limiting Speed (rpm)		Abutment And Fillet Dimensions (mm)			Weight (kg)	
d	D	B	r (min)	Open	Shield Type	Contact Seal Type	Non-Contact Seal Type		Dynamic Cr	Static Cor	Grease		Oil	da (min)	Da (max)	ra (max)			
											Open, Z, ZZ, RZ, 2RZ	RS, 2RS	Open, Z						
220	270	24	1.5	61844	61844-Z	61844-2Z	61844-RS	61844-2RS	61844-RZ	61844-2RZ	76500	98000	1900	-	2400	228	262	1.5	2.98
	270	30	1.5	62844	62844-Z	62844-2Z	62844-RS	62844-2RS	62844-RZ	62844-2RZ	76500	98000	1900	-	2400	228	262	1.5	-
	300	38	2.1	61944	61944-Z	61944-2Z	61944-RS	61944-2RS	61944-RZ	61944-2RZ	132000	154000	1800	-	2300	229	291	2.0	7.45
	300	48	2.1	62944	62944-Z	62944-2Z	62944-RS	62944-2RS	62944-RZ	62944-2RZ	132000	154000	1800	-	2300	229	291	2.0	-
	340	56	3	6044	6044-Z	6044-2Z	6044-RS	6044-2RS	6044-RZ	6044-2RZ	214000	248000	1700	-	2200	230	330	2.5	18.4
	400	65	4	6244	6244-Z	6244-2Z	6244-RS	6244-2RS	6244-RZ	6244-2RZ	310000	375000	1400	-	1700	238	382	3.0	37.0
240	300	28	2	61848	61848-Z	61848-2Z	61848-RS	61848-2RS	61848-RZ	61848-2RZ	98500	127000	1800	-	2100	250	291	2.0	4.60
	300	36	2	62848	62848-Z	62848-2Z	62848-RS	62848-2RS	62848-RZ	62848-2RZ	98500	127000	1800	-	2100	250	291	2.0	-
	320	38	2.1	61948	61948-Z	61948-2Z	61948-RS	61948-2RS	61948-RZ	61948-2RZ	154000	186000	1700	-	2000	249	311	2.0	8.02
	320	48	2.1	62948	62948-Z	62948-2Z	62948-RS	62948-2RS	62948-RZ	62948-2RZ	154000	186000	1700	-	2000	249	311	2.0	-
	360	56	3	6048	6048-Z	6048-2Z	6048-RS	6048-2RS	6048-RZ	6048-2RZ	222000	268000	1600	-	1900	250	350	2.5	19.6
	440	72	4	6248	6248-Z	6248-2Z	6248-RS	6248-2RS	6248-RZ	6248-2RZ	340000	430000	1200	-	1500	258	322	3.0	49.9
260	320	28	2	61852	61852-Z	61852-2Z	61852-RS	61852-2RS	61852-RZ	61852-2RZ	101000	136000	1600	-	2000	269	311	2.0	4.95
	320	36	2	62852	62852-Z	62852-2Z	62852-RS	62852-2RS	62852-RZ	62852-2RZ	101000	136000	1600	-	2000	269	311	2.0	-
	360	46	2.1	61952	61952-Z	61952-2Z	61952-RS	61952-2RS	61952-RZ	61952-2RZ	204000	254000	1500	-	1800	269	351	2.0	13.4
	360	60	2.1	62952	62952-Z	62952-2Z	62952-RS	62952-2RS	62952-RZ	62952-2RZ	204000	254000	1500	-	1800	269	351	2.0	-
	400	65	4	6052	6052-Z	6052-2Z	6052-RS	6052-2RS	6052-RZ	6052-2RZ	252000	320000	1400	-	1700	272	388	3.0	29.3
	480	80	5	6252	6252-Z	6252-2Z	6252-RS	6252-2RS	6252-RZ	6252-2RZ	400000	540000	1100	-	1400	282	458	4.0	67.5
280	350	33	2	61856	61856-Z	61856-2Z	61856-RS	61856-2RS	61856-RZ	61856-2RZ	133000	177000	1500	-	1800	290	341	2.0	7.35
	350	42	2	62856	62856-Z	62856-2Z	62856-RS	62856-2RS	62856-RZ	62856-2RZ	133000	177000	1500	-	1800	290	341	2.0	-
	380	46	2.1	61956	61956-Z	61956-2Z	61956-RS	61956-2RS	61956-RZ	61956-2RZ	209000	270000	1400	-	1700	289	371	2.0	14.3
	380	60	2.1	62956	62956-Z	62956-2Z	62956-RS	62956-2RS	62956-RZ	62956-2RZ	209000	270000	1400	-	1700	289	371	2.0	-
	420	65	4	6056	6056-Z	6056-2Z	6056-RS	6056-2RS	6056-RZ	6056-2RZ	266000	350000	1300	-	1600	293	405	3.0	31.0
	500	80	5	6256	6256-Z	6256-2Z	6256-RS	6256-2RS	6256-RZ	6256-2RZ	400000	550000	950	-	1200	302	478	4.0	71.0
300	380	38	2.1	61860	61860-Z	61860-2Z	61860-RS	61860-2RS	61860-RZ	61860-2RZ	166000	219000	1400	-	1600	311	369	2.0	10.4
	380	48	2.1	62860	62860-Z	62860-2Z	62860-RS	62860-2RS	62860-RZ	62860-2RZ	166000	219000	1400	-	1600	311	369	2.0	-
	420	56	3	61960	61960-Z	61960-2Z	61960-RS	61960-2RS	61960-RZ	61960-2RZ	269000	370000	1300	-	1500	311	409	2.5	22.8
	420	72	3	62960	62960-Z	62960-2Z	62960-RS	62960-2RS	62960-RZ	62960-2RZ	269000	370000	1300	-	1500	311	409	2.5	-
	460	74	4	6060	6060-Z	6060-2Z	6060-RS	6060-2RS	6060-RZ	6060-2RZ	355000	490000	1200	-	1500	313	447	3.0	43.8
	540	85	5	6260	6260-Z	6260-2Z	6260-RS	6260-2RS	6260-RZ	6260-2RZ	465000	670000	850	-	1100	322	518	4.0	88.6
320	400	38	2.1	61864	61864-Z	61864-2Z	61864-RS	61864-2RS	61864-RZ	61864-2RZ	164000	218000	1300	-	1500	330	389	2.0	10.9
	400	48	2.1	62864	62864-Z	62864-2Z	62864-RS	62864-2RS	62864-RZ	62864-2RZ	164000	218000	1300	-	1500	330	389	2.0	-
	440	56	3	61964	61964-Z	61964-2Z	61964-RS	61964-2RS	61964-RZ	61964-2RZ	266000	370000	1200	-	1300	331	429	2.5	24.1
	440	72	3	62964	62964-Z	62964-2Z	62964-RS	62964-2RS	62964-RZ	62964-2RZ	266000	370000	1200	-	1300	331	429	2.5	-
	480	74	4	6064	6064-Z	6064-2Z	6064-RS	6064-2RS	6064-RZ	6064-2RZ	340000	470000	1100	-	1300	333	467	3.0	46.1

UBC Deep Groove Ball Bearings

d: 10 ~ 30 mm



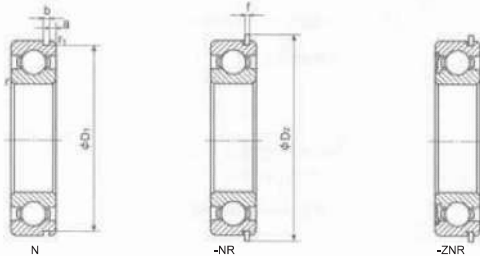
Deep Groove Ball Bearings **UBC**



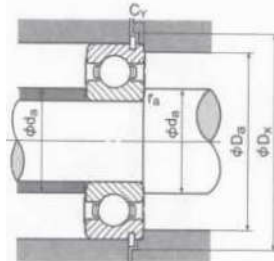
Principal Dimensions (mm)					Dimension Of Snap Groove And Snap Type					Bearing Designations			Basic Load Rating (N)				Limiting Speed (rpm)		Abutment And Fillet Dimensions (mm)					Weight (kg)
d	D	B	r (min)	r1 (min)	D1 (max)	a (max)	b (min)	D2 (max)	f (max)				Dynamic Cr	Static Cor	Grease	Oil	d1 (min)	D1 (max)	D1 (min)	r1 (max)	C1 (max)			
10	22	6	0.3	0.3	20.8	1.05	0.8	24.8	0.7	61900N	61900NR	61900ZNR	2490	1130	33000	38000	12	20	25.5	0.3	1.5	0.010		
	30	9	0.6	0.5	28.17	2.06	1.35	34.7	1.12	6200N	6200NR	6200ZNR	5100	2390	24000	30000	15	25	35.5	0.6	2.9	0.032		
	35	11	0.6	0.5	33.17	2.06	1.35	39.7	1.12	6300N	6300NR	6300ZNR	8100	3450	21000	26000	15	30	40.5	0.6	2.9	0.053		
12	24	6	0.3	0.3	22.8	1.05	0.8	26.8	0.7	61901N	61901NR	61901ZNR	2700	1320	30000	35000	14	22	27.5	0.3	1.5	0.012		
	32	10	0.6	0.5	30.15	2.06	1.35	36.7	1.12	6201N	6201NR	6201ZNR	6800	3050	22000	27000	17	27	37.5	0.6	2.9	0.037		
	37	12	1	0.5	34.77	2.06	1.35	41.3	1.12	6301N	6301NR	6301ZNR	9750	4250	19000	24000	18	31	42	1	2.9	0.060		
15	28	7	0.3	0.3	26.7	1.3	0.95	30.8	0.85	61902N	61902NR	61902ZNR	4300	2250	26000	31000	17	26	31.5	0.3	1.8	0.017		
	32	9	0.3	0.3	30.15	2.06	1.35	36.7	0.85	6202N	6202NR	6202ZNR	5600	2840	23000	28000	17	30	37.5	0.3	2.9	0.033		
	35	11	0.6	0.5	33.17	2.06	1.35	39.7	1.12	6202N	6202NR	6202ZNR	7650	3700	19000	24000	20	30	40.5	0.6	2.9	0.045		
	42	13	1	0.5	39.75	2.06	1.35	46.3	1.12	6302N	6302NR	6302ZNR	11400	5400	17000	20000	21	36	47	1	2.9	0.082		
17	30	7	0.3	0.3	28.7	1.3	0.95	32.8	0.85	61903N	61903NR	61903ZNR	4800	2550	24000	29000	19	28	33.5	0.3	1.8	0.019		
	35	10	0.3	0.3	33.17	2.06	1.35	39.7	1.12	6003N	6003NR	6003ZNR	6000	3250	20000	25000	19	33	40.5	0.3	2.9	0.041		
	40	12	0.6	0.5	38.1	2.06	1.35	44.6	1.12	6203N	6203NR	6203ZNR	9550	4800	17000	21000	22	35	45.5	0.6	2.9	0.065		
20	47	14	1	0.5	44.6	2.46	1.35	52.7	1.12	6303N	6303NR	6303ZNR	13600	6550	15000	18000	23	41	53.5	1	3.3	0.115		
	32	7	0.3	0.3	30.7	1.3	0.95	34.8	0.85	61904N	61904NR	61904ZNR	4000	2640	20000	24000	22	30	35.5	0.3	1.8	0.020		
	37	9	0.3	0.3	35.7	1.7	0.95	39.8	0.85	61904N	61904NR	61904ZNR	6350	3700	19000	23000	22	35	40.5	0.3	2.3	0.037		
	42	12	0.6	0.5	39.75	2.06	1.35	46.3	1.12	6004N	6004NR	6004ZNR	9400	5000	17000	21000	24	38	47	0.6	2.9	0.069		
	47	14	1	0.5	44.6	2.46	1.35	52.7	1.12	6204N	6204NR	6204ZNR	12800	6600	14000	18000	25	41	53.5	1	3.3	0.106		
	52	15	1.1	0.5	49.73	2.46	1.35	57.9	1.12	6304N	6304NR	6304ZNR	15900	7900	13000	16000	27	45	58.5	1	3.3	0.144		
22	50	14	1	0.5	47.6	2.46	1.35	55.7	1.12	62/22N	62/22NR	62/22ZNR	13900	6950	13000	17000	28	44	56.5	1	3.3	0.120		
	56	16	1.1	0.5	53.6	2.46	1.35	61.7	1.12	63/22N	63/22NR	63/22ZNR	18400	9250	12000	15000	29	49	62.5	1	3.3	0.176		
25	37	7	0.3	0.3	35.7	1.3	0.95	39.8	0.85	61805N	61805NR	61805ZNR	4300	2940	18000	20000	27	35	40.5	0.3	1.8	0.023		
	42	9	0.3	0.3	40.7	1.7	0.95	44.8	0.85	61905N	61905NR	61905ZNR	7000	4500	16000	20000	27	40	45.5	0.3	2.3	0.044		
	47	12	0.6	0.5	44.6	2.06	1.35	52.7	1.12	6005N	6005NR	6005ZNR	10100	5850	15000	18000	29	43	53.5	0.6	2.9	0.078		
	52	15	1	0.5	49.73	2.46	1.35	57.9	1.12	6205N	6205NR	6205ZNR	14000	7900	12000	16000	31	46	58.5	1	3.3	0.128		
28	62	17	1.1	0.5	59.61	3.28	1.9	67.7	1.7	6305N	6305NR	6305ZNR	23600	12100	11000	14000	32	55	68.5	1	4.6	0.232		
	58	16	1	0.5	55.6	2.46	1.35	63.7	1.12	62/28N	62/28NR	62/28ZNR	17900	9750	11000	14000	34	52	64.5	1	3.3	0.175		
30	68	18	1.1	0.5	64.82	3.28	1.9	74.6	1.7	63/28N	63/28NR	63/28ZNR	26800	14000	10000	12000	35	61	76	1	4.6	0.287		
	42	7	0.3	0.3	40.7	1.3	0.95	44.8	0.85	61806N	61806NR	61806ZNR	5350	3800	15000	17000	32	40	45.5	0.3	1.8	0.027		
	47	9	0.3	0.3	45.7	1.7	0.95	49.8	0.85	61906N	61906NR	61906ZNR	7250	5000	14000	16000	32	45	50.5	0.3	2.3	0.047		
	55	13	1	0.5	52.6	2.08	1.35	60.7	1.12	6006N	6006NR	6006ZNR	13200	8300	12000	15000	35	50	61.5	1	2.9	0.113		
	62	16	1	0.5	59.61	3.28	1.9	67.7	1.7	6206N	6206NR	6206ZNR	19500	11300	10000	13000	36	56	68.5	1	4.6	0.199		
30	72	19	1.1	0.5	68.81	3.28	1.9	78.6	1.7	6306N	6306NR	6306ZNR	26700	15000	9200	11000	37	65	80	1	4.6	0.346		

UBC Deep Groove Ball Bearings

d: 32 ~ 60 mm



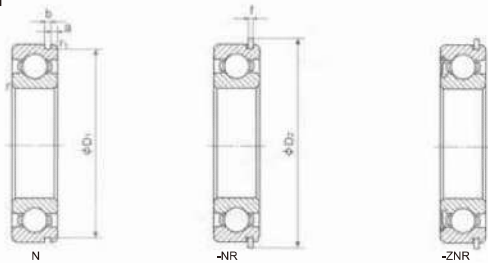
Deep Groove Ball Bearings **UBC**



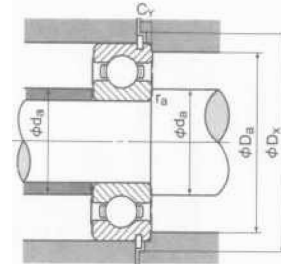
d	Principal Dimensions (mm)				Dimension Of Snap Groove And Snap Type					Bearing Designations			Basic Load Rating (N)				Limiting Speed (rpm)		Abutment And Fillet Dimensions (mm)					Weight (kg)
	D	B	r (min)	r ₁ (min)	D ₁ (max)	a (max)	b (min)	D ₂ (max)	f (max)				Dynamic Cr	Static Cor	Grease	Oil	d _s (min)	D ₂ (max)	D ₂ (min)	r ₁ (max)	C _r (max)			
32	65	17	1	0.5	62.6	3.28	1.9	70.7	1.7	62/32N	62/32NR	62/32ZNR	22400	13100	9500	12000	38	59	71.5	1	4.6	0.230		
	75	20	1.1	0.5	71.83	3.28	1.9	81.6	1.7	63/32N	63/32NR	63/32ZNR	30000	16200	9000	11000	39	68	83	1	4.6	0.382		
35	47	7	0.3	0.3	45.7	1.3	0.95	49.8	0.85	61807N	61807NR	61807ZNR	4750	3800	13000	15000	37	45	50.5	0.3	1.8	0.030		
	55	10	0.6	0.5	53.7	1.7	0.95	57.8	0.85	61907N	61907NR	61907ZNR	10400	7150	12000	14000	39	51	58.5	0.6	2.3	0.075		
	62	14	1	0.5	59.61	2.08	1.9	67.7	1.7	6007N	6007NR	6007ZNR	16000	10300	11000	13000	40	57	68.5	1	3.4	0.150		
	72	17	1.1	0.5	68.81	3.28	1.9	78.6	1.6	6207N	6207NR	6207ZNR	25700	15300	9000	11000	42	65	80	1	4.6	0.288		
40	80	21	1.5	0.5	76.81	3.28	1.9	86.6	1.6	6307N	6307NR	6307ZNR	33500	19100	8400	10000	44	71	88	1.5	4.6	0.457		
	52	7	0.3	0.3	50.7	1.3	0.95	54.8	0.85	61808N	61808NR	61808ZNR	5950	4900	12000	14000	42	50	55.5	0.3	1.8	0.034		
	62	12	0.6	0.5	60.7	1.7	0.95	64.8	0.85	61908N	61908NR	61908ZNR	13700	9950	11000	13000	44	58	65.5	0.6	2.3	0.110		
	68	15	1	0.5	64.82	2.49	1.9	74.6	1.7	6008N	6008NR	6008ZNR	16800	11500	9500	12000	45	63	76	1	3.8	0.186		
45	80	18	1.1	0.5	76.81	3.28	1.9	86.6	1.7	6208N	6208NR	6208ZNR	29100	17900	8200	10000	47	73	88	1	4.6	0.366		
	90	23	1.5	0.5	86.79	3.28	2.7	96.5	2.46	6308N	6308NR	6308ZNR	40500	24100	7500	9000	49	81	98	1.5	5.9	0.633		
	58	7	0.3	0.3	56.7	1.3	0.95	60.8	0.85	61809N	61809NR	61809ZNR	5350	4900	11000	13000	47	56	61.5	0.3	1.8	0.042		
50	68	12	0.6	0.5	66.7	1.7	0.95	70.8	0.85	61909N	61909NR	61909ZNR	14100	10900	10000	12000	49	64	72	0.6	2.3	0.124		
	75	16	1	0.5	71.83	2.49	1.9	81.6	1.7	6009N	6009NR	6009ZNR	20900	15200	8800	11000	50	70	83	1	3.8	0.239		
	85	19	1.1	0.5	81.81	3.28	1.9	91.6	1.7	6209N	6209NR	6209ZNR	32500	20500	7600	9300	52	78	93	1	4.6	0.407		
	100	25	1.5	0.5	96.8	3.28	2.7	106.5	2.46	6309N	6309NR	6309ZNR	53000	32000	6700	8000	54	91	108	1.5	5.4	0.833		
55	65	7	0.3	0.3	63.7	1.3	0.95	67.8	0.85	61810N	61810NR	61810ZNR	6400	5800	10000	12000	52	63	68.5	0.3	1.8	0.054		
	72	12	0.6	0.5	70.7	1.7	0.95	74.8	0.85	61910N	61910NR	61910ZNR	14500	11700	9500	11000	54	68	76	0.6	2.3	0.127		
	80	16	1	0.5	76.81	2.49	1.9	86.6	1.7	6010N	6010NR	6010ZNR	21800	16600	8300	10000	55	75	88	1	3.8	0.252		
	90	20	1.1	0.5	86.79	3.28	2.7	96.5	2.46	6210N	6210NR	6210ZNR	35000	23200	7000	8600	57	83	98	1	5.4	0.463		
	110	27	2	0.5	106.81	3.28	2.7	116.6	2.46	6310N	6310NR	6310ZNR	62000	38100	6200	7300	60	100	118	2	5.4	1.070		
60	72	9	0.3	0.3	70.7	1.7	0.95	74.8	0.85	61811N	61811NR	61811ZNR	8800	8100	8500	10000	57	70	76	0.3	2.3	0.085		
	80	13	1	0.5	77.9	2.1	1.3	84.4	1.12	61911N	61911NR	61911ZNR	16000	13200	8000	9000	60	75	86	1	2.9	0.180		
	90	18	1.1	0.5	86.79	2.87	2.7	96.5	2.46	6011N	6011NR	6011ZNR	28300	21300	7500	9000	61	84	98	1	5	0.375		
	100	21	1.5	0.5	96.8	3.28	2.7	106.5	2.46	6211N	6211NR	6211ZNR	43500	29300	6300	7700	64	91	108	1.5	5.4	0.607		
60	120	29	2	0.5	115.21	4.06	3.1	129.7	2.82	6311N	6311NR	6311ZNR	71500	44500	5600	6600	65	110	131.5	2	6.5	1.370		
	78	10	0.3	0.3	76.2	1.7	1.3	82.7	1.12	61812N	61812NR	61812ZNR	11500	10600	8000	9500	62	76	84	0.3	2.5	0.110		
	85	13	1	0.5	82.9	2.1	1.3	89.4	1.12	61912N	61912NR	61912ZNR	15200	13500	7500	9000	65	80	91	1	2.9	0.195		
	95	18	1.1	0.5	91.82	2.87	2.7	101.6	2.46	6012N	6012NR	6012ZNR	29400	23200	7000	8300	66	89	103	1	5	0.403		
	110	22	1.5	0.5	106.81	3.28	2.7	116.6	2.46	6212N	6212NR	6212ZNR	52500	36000	5800	7100	69	101	118	1.5	5.4	0.783		
	130	31	2.1	0.5	125.22	4.06	3.1	139.7	2.82	6312N	6312NR	6312ZNR	82000	52000	5100	6100	72	118	141.5	2	6.5	1.700		

UBC Deep Groove Ball Bearings

d: 65 ~ 90 mm



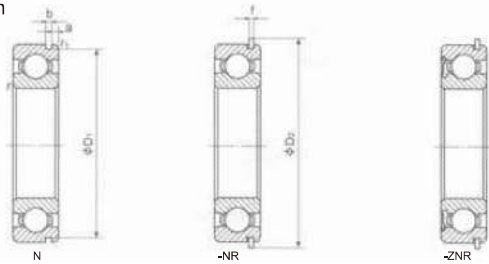
Deep Groove Ball Bearings UBC



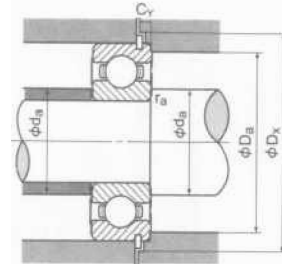
Principal Dimensions (mm)			Dimension Of Snap Groove And Snap Ring					Bearing Designations			Basic Load Rating (N)		Limiting Speed (rpm)		Abutment And Fillet Dimensions (mm)					Ref. Weight (kg)		
d	D	B	r (min)	r ₁ (min)	D ₁ (max)	a (max)	b (min)	D ₂ (max)	f (max)				Grease	Oil	d _a (min)	D _a (max)	D _s (min)	r _a (max)	C _r (max)			
65	85	10	0.6	0.5	82.9	1.7	1.3	89.4	1.12	61813N	61813NR	61813ZNR	11900	11500	7500	8500	69	81	91	0.6	2.5	0.130
	90	13	1	0.5	87.9	2.1	1.3	94.4	1.12	61913N	61913NR	61913ZNR	17400	16000	7000	8500	70	85	96	1	2.9	0.210
	100	18	1.1	0.5	96.8	2.87	2.7	106.5	2.46	6013N	6013NR	6013ZNR	30500	25200	6500	7800	71	94	108	1	5	0.413
	120	23	1.5	0.5	115.21	4.06	3.1	129.7	2.82	6213N	6213NR	6213ZNR	57000	40000	5300	6500	74	111	131.5	1.5	6.5	0.990
	140	33	2.1	0.5	135.23	4.9	3.1	149.7	2.82	6313N	6313NR	6313ZNR	92500	59500	4700	5700	77	128	152	2	7.3	2.08
70	90	10	0.6	0.5	87.9	1.7	1.3	94.4	1.12	61814N	61814NR	61814ZNR	12100	11900	7000	8000	74	86	96	0.6	2.5	0.140
	100	16	1	0.5	97.9	2.5	1.3	104.4	1.12	61914N	61914NR	61914ZNR	23700	21100	6500	7500	75	95	106	1	3.3	0.332
	110	20	1.1	0.5	106.81	2.87	2.7	116.6	2.46	6014N	6014NR	6014ZNR	38000	31000	6000	7100	76	104	118	1	5	0.580
	125	24	1.5	0.5	120.22	4.06	3.1	134.7	2.82	6214N	6214NR	6214ZNR	62000	44000	5000	5900	79	116	136.5	1.5	6.5	1.07
	150	35	2.1	0.5	145.24	4.9	3.1	159.7	2.82	6314N	6314NR	6314ZNR	104000	68000	4400	5300	82	138	162	2	7.3	2.52
75	95	10	0.6	0.5	92.9	1.7	1.3	99.4	1.12	61815N	61815NR	61815ZNR	12500	12800	6500	7500	79	91	101	0.6	2.5	0.150
	105	16	1	0.5	102.6	2.5	1.3	110.7	1.12	61915N	61915NR	61915ZNR	20800	19700	6200	7200	80	100	112	1	3.3	0.350
	115	20	1.1	0.5	111.81	2.87	2.7	121.6	2.46	6015N	6015NR	6015ZNR	39500	33500	5700	6700	81	109	123	1	5	0.615
	130	25	1.5	0.5	125.22	4.06	3.1	139.7	2.82	6215N	6215NR	6215ZNR	66000	49500	4800	5600	84	121	141.5	1.5	6.5	1.18
	160	37	2.1	0.5	155.22	4.9	3.1	169.7	2.82	6315N	6315NR	6315ZNR	113000	77000	4100	5000	87	148	172	2	7.3	3.02
80	100	10	0.6	0.5	97.9	1.7	1.3	104.4	1.12	61816N	61816NR	61816ZNR	12700	13300	6000	7000	84	96	106	0.6	2.5	0.160
	110	16	1	0.5	107.6	2.5	1.3	115.7	1.12	61916N	61916NR	61916ZNR	27600	25300	5500	6500	85	105	117	1	3.3	0.370
	125	22	1.1	0.5	120.22	2.87	3.1	134.7	2.82	6016N	6016NR	6016ZNR	47500	39500	5300	6200	86	119	136.5	1	5.3	0.825
	140	26	2	0.5	135.23	4.9	3.1	149.7	2.82	6216N	6216NR	6216ZNR	72500	53000	4500	5200	90	130	152	2	7.3	1.40
	170	39	2.1	0.5	163.65	5.69	3.5	182.9	3.1	6316N	6316NR	6316ZNR	123000	86500	3800	4500	92	158	185	2	8.4	3.59
85	110	13	1	0.5	107.6	2.1	1.3	115.7	1.12	61817N	61817NR	61817ZNR	18700	19000	5500	6500	90	105	117	1	2.9	0.272
	120	18	1.1	0.5	117.6	3.3	1.3	125.7	1.12	61917N	61917NR	61917ZNR	32000	29600	5200	6300	91	113	127	1	4.1	0.524
	130	22	1.1	0.5	125.22	2.87	3.1	139.7	2.82	6017N	6017NR	6017ZNR	49500	43000	5000	6000	91	124	141.5	1	5.3	0.883
	150	28	2	0.5	145.24	4.9	3.1	159.7	2.82	6217N	6217NR	6217ZNR	84000	62000	4200	4900	95	140	162	2	7.3	1.79
	180	41	3	0.5	173.66	5.69	3.5	192.9	3.1	6317N	6317NR	6317ZNR	133000	96500	3600	4300	99	166	195	2.5	8.4	4.23
90	115	13	1	0.5	112.6	2.1	1.3	120.7	1.2	61818N	61818NR	61818ZNR	19000	19700	5300	6200	95	110	122	1	2.9	0.288
	125	18	1.1	0.5	122.6	3.3	1.3	130.7	1.12	61918N	61918NR	61918ZNR	33000	31500	5000	6000	96	119	132	1	4.1	0.549
	140	24	1.5	0.5	135.23	3.71	3.1	149.7	2.82	6018N	6018NR	6018ZNR	58000	49500	4700	5600	97	133	152	1.5	6.1	1.13
	160	30	2	0.5	155.22	4.9	3.1	169.7	2.82	6218N	6218NR	6218ZNR	96000	71500	3900	4600	100	150	172	2	7.3	2.15
	190	43	3	0.5	183.64	5.69	3.5	202.9	3.1	6318N	6318NR	6318ZNR	143000	107000	3400	4000	104	176	205	2.5	8.4	4.91

UBC Deep Groove Ball Bearings

d: 95 ~ 130 mm



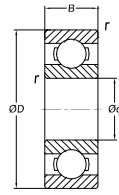
Deep Groove Ball Bearings UBC



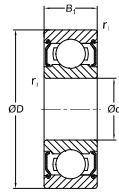
d	Principal Dimensions (mm)					Dimension Of Snap Groove And Snap Ring				Bearing Designations			Basic Load Rating (N)		Limiting Speed (rpm)		Abutment And Fillet Dimensions (mm)					Ref. Weight (kg)
	D	B	r (min)	r ₁ (min)	D ₁ (max)	a (max)	b (min)	D ₂ (max)	f (max)				Dynamic C _r	Static C _{0r}	Grease	Oil	d _s (min)	D _s (max)	D ₁ (min)	r _a (max)	C _v (max)	
95	120	13	1	0.5	117.6	2.1	1.3	125.7	1.12	61819N	61819NR	61819ZNR	19300	20500	5000	6000	100	115	127	1	2.9	0.307
	130	18	1.1	0.5	127.6	3.3	1.3	135.7	1.12	61919N	61919NR	61919ZNR	33500	33500	4700	5500	101	124	137	1	4.1	0.576
	145	24	1.5	0.5	140.23	3.71	3.1	154.7	2.82	6019N	6019NR	6019ZNR	60500	54000	4500	5300	102	138	157	1.5	6.1	1.16
	170	32	2.1	0.5	163.65	5.69	3.5	182.9	3.1	6219N	6219NR	6219ZNR	109000	81500	3700	4300	107	158	185	2	8.4	2.62
	200	45	3	0.5	193.65	5.69	3.5	212.9	3.1	6319N	6319NR	6319ZNR	153000	118000	3200	3800	109	186	215	2.5	8.4	5.67
100	125	13	1	0.5	122.6	2.1	1.3	130.7	1.12	61820N	61820NR	61820ZNR	19600	21200	4600	5500	105	120	132	1	2.9	0.320
	140	20	1.1	0.5	137.6	3.3	1.9	145.7	1.7	61920N	61920NR	61920ZNR	37000	36500	4400	5300	106	134	147	1	4.7	0.780
	150	24	1.5	0.5	145.24	3.71	3.1	159.7	2.82	6020N	6020NR	6020ZNR	60000	54000	4200	5000	107	143	162	1.5	6.1	1.20
	180	34	2.1	0.5	173.66	5.69	3.5	192.9	3.1	6220N	6220NR	6220ZNR	122000	93000	3500	4100	112	168	195	2	8.4	3.14
105	130	13	1	0.5	127.6	2.1	1.3	135.7	1.12	61821N	61821NR	-	19900	21900	4500	5500	110	125	137	1	2.9	0.335
	145	20	1.1	0.5	142.6	3.3	1.9	150.7	1.7	61921N	61921NR	-	42500	42000	4200	5100	111	139	152	1	4.7	0.803
	160	26	2	0.5	155.22	3.71	3.1	169.7	2.82	6021N	6021NR	6021ZNR	72500	65500	4000	4800	113	152	172	2	6.1	1.54
	190	36	2.1	0.5	183.64	5.69	3.5	202.9	3.1	6221N	6221NR	6221ZNR	133000	104000	3200	3900	117	178	205	2	8.4	3.76
110	140	16	1	0.5	137.6	2.5	1.9	145.7	1.7	61822N	61822NR	-	27300	29400	4200	5100	115	135	147	1	3.9	0.526
	150	20	1.1	0.5	147.6	3.3	1.9	155.7	1.7	61922N	61922NR	-	38000	38500	4000	5000	116	144	157	1	4.7	0.846
	170	28	2	0.5	163.65	3.71	3.5	182.9	3.1	6022N	6022NR	6022ZNR	84500	73000	3800	4500	118	162	185	2	6.4	1.91
	200	38	2.1	0.5	193.65	5.69	3.5	212.9	3.1	6222N	6222NR	6222ZNR	144000	117000	3000	3700	122	188	215	2	8.4	4.36
120	150	16	1	0.5	147.6	2.5	1.9	155.7	1.7	61824N	61824NR	-	28300	31500	4000	4800	125	145	157	1	3.9	0.567
	165	22	1.1	0.5	161.8	3.7	1.9	171.5	1.7	61924N	61924NR	-	53000	54000	3700	4600	126	159	173	1	5.1	1.15
	180	28	2	0.5	173.66	3.71	3.5	192.9	3.1	6024N	6024NR	6024ZNR	88000	79500	3500	4200	128	172	195	2	6.4	2.36
130	165	18	1.1	0.5	161.8	3.3	1.9	171.5	1.7	61826N	61826NR	-	37000	41000	3600	4400	136	158	173	1	4.7	0.815
	180	24	1.5	0.5	176.8	3.7	1.9	186.5	1.7	61926N	61926NR	-	65000	67000	3400	4200	137	173	188	1.5	5.1	1.81
	200	33	2	0.5	193.65	5.69	3.5	212.9	3.1	6026N	6026NR	6026ZNR	106000	101000	3200	3800	138	192	215	2	8.4	3.60

UBC Miniature Deep Groove Ball Bearings

Metric Size
d: 1~4mm

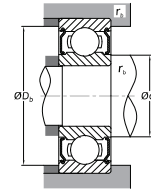
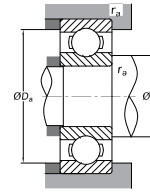


Open Type



Shield Type
ZZ

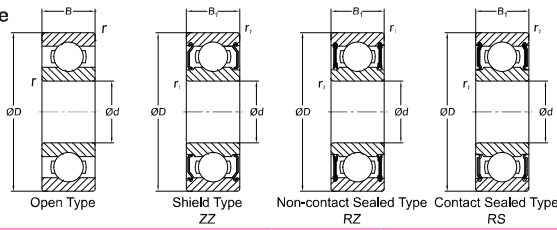
Miniature Deep Groove Ball Bearings UBC



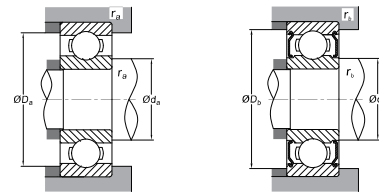
Principal Dimensions (mm)						Basic Load Ratings (N)		Limiting Speed (rpm)		Bearing Designations			Abutment and Fillet Dimensions (mm)						Weight (g)	
d	D	B	B _s	r (min)	r ₁ (min)	Dynamic C _r	Static C _{0r}	Grease Open, Z _g , ZZ	Oil Open, Z	Open	Shield Type	Sealed Type	d ₁ (min)	d ₁ (max)	D ₂ (max)	D ₂ (min)	r _{1s} (max)	r _{1s} (max)	Open	Sealed Type
	3	1.5	-	0.05	-	80	23	130,000	150,000	MR31	-	-	1.4	-	2.6	-	0.05	-	0.04	-
	4	1.6	-	0.10	-	138	35	100,000	120,000	691	-	-	1.8	-	3.2	-	0.10	-	0.09	-
1.2	4	1.8	2.5	0.10	0.10	138	35	110,000	130,000	MR4/1,2	MR4/1,2-ZZ	-	2.0	1.9	3.2	3.5	0.10	0.10	0.10	0.14
1.5	4	1.2	2.0	0.05	0.05	112	33	100,000	120,000	68/1,5	68/1,5-ZZ	-	1.1	2.1	3.6	3.6	0.05	0.05	0.07	0.11
	5	2.0	2.6	0.15	0.15	237	69	85,000	100,000	69/1,5	69/1,5-ZZ	-	2.7	2.5	3.8	4.3	0.15	0.15	17.00	0.20
	6	2.5	3.0	0.15	0.15	330	98	75,000	90,000	60/1,5	60/1,5-ZZ	-	2.7	3.0	4.8	5.4	0.15	0.15	0.33	0.38
2	5	1.5	2.3	0.08	0.08	169	50	85,000	100,000	682	682-ZZ	-	2.6	2.7	4.4	4.2	0.08	0.08	0.12	0.17
	5	2.0	2.5	0.10	0.10	187	58	85,000	100,000	MR52	MR52-ZZ	-	2.8	2.7	4.2	4.4	0.10	0.10	0.16	0.23
	6	2.3	3.0	0.15	0.15	330	98	75,000	90,000	692	692-ZZ	-	3.2	3.0	4.8	5.4	0.15	0.15	0.28	0.38
	6	2.5	2.5	0.15	0.15	330	98	75,000	90,000	MR62	MR62-ZZ	-	3.2	3.0	4.8	5.2	0.15	0.15	0.30	0.29
	7	2.5	3.0	0.15	0.15	385	127	63,000	75,000	MR72	MR72-ZZ	-	3.2	3.8	5.8	6.2	0.15	0.15	0.45	0.49
	7	2.8	3.5	0.15	0.15	385	127	63,000	75,000	602	602-ZZ	-	3.2	3.8	5.8	6.2	0.15	0.15	0.51	0.58
2.5	6	1.8	2.6	0.08	0.08	208	74	71,000	80,000	68/2,5	68/2,5-ZZ	-	3.1	3.7	5.4	5.4	0.08	0.08	0.23	0.29
	7	2.5	3.5	0.15	0.15	385	127	63,000	75,000	69/2,5	69/2,5-ZZ	-	3.7	3.8	5.8	6.2	0.15	0.15	0.41	0.55
	8	2.5	-	0.20	-	560	179	60,000	67,000	MR8/2,5	-	-	4.1	-	6.4	-	0.20	-	0.56	-
	8	2.8	4.0	0.15	0.15	550	175	60,000	71,000	60/2,5	60/2,5-ZZ	-	3.7	4.1	6.8	7.0	0.15	0.15	0.63	0.83
3	6	2.0	2.5	0.10	0.10	208	74	71,000	80,000	MR63	MR63-ZZ	-	3.8	3.7	5.2	5.4	0.10	0.10	0.20	0.27
	7	2.0	3.0	0.10	0.10	390	130	63,000	75,000	683	683-ZZ	-	3.8	4.0	6.2	6.4	0.10	0.10	0.32	0.45
	8	2.5	-	0.15	-	560	179	60,000	67,000	MR83	-	-	4.2	-	6.8	-	0.15	-	0.54	-
	8	3.0	4.0	0.15	0.15	560	179	60,000	67,000	693	693-ZZ	-	4.2	4.3	6.8	7.3	0.15	0.15	0.61	0.83
	9	2.5	4.0	0.20	0.15	570	187	56,000	67,000	MR93	MR93-ZZ	-	4.6	4.3	7.4	7.9	0.20	0.15	0.73	1.18
	9	3.0	5.0	0.15	0.15	570	187	56,000	67,000	603	603-ZZ	-	4.2	4.3	7.8	7.9	0.15	0.15	0.87	1.45
	10	4.0	4.0	0.15	0.15	630	218	50,000	60,000	623	623-ZZ	-	4.2	4.3	8.8	8.0	0.15	0.15	1.65	1.66
4	13	5.0	5.0	0.20	0.20	1300	485	40,000	48,000	633	633-ZZ	-	4.6	6.0	11.4	11.3	0.20	0.20	3.38	3.33
	7	2.0	-	0.10	-	310	115	60,000	67,000	MR74	-	-	4.8	-	6.2	-	0.10	-	0.22	-
	7	-	2.5	-	0.10	255	107	60,000	71,000	-	MR74-ZZ	-	-	4.8	-	6.3	-	0.10	-	0.29
	8	2.0	3.0	0.15	0.10	3953	139	56,000	67,000	MR84	MR84-ZZ	-	5.2	5.0	6.8	7.4	0.15	0.10	0.36	0.56
	9	2.5	4.0	0.15	0.15	640	225	53,000	63,000	684	684-ZZ	-	4.8	5.2	8.2	8.1	0.10	0.10	0.63	1.01
	10	3.0	4.0	0.20	0.15	710	270	50,000	60,000	MR104	MR104-ZZ	-	5.6	5.9	8.4	8.8	0.20	0.15	1.04	1.42
	11	4.0	4.0	0.15	0.15	960	345	48,000	56,000	694	694-ZZ	-	5.2	5.6	9.8	9.9	0.15	0.15	1.70	1.75
	12	4.0	4.0	0.20	0.20	960	345	48,000	56,000	604	604-ZZ	-	5.6	5.6	10.4	9.9	0.20	0.20	2.25	2.29
13	5.0	5.0	0.20	0.20	1300	485	40,000	48,000	624	624-ZZ	-	5.6	6.0	11.4	11.3	0.20	0.20	3.03	3.04	
16	5.0	5.0	0.30	0.30	1730	670	36,000	43,000	634	634-ZZ	-	6.0	7.5	14.0	13.8	0.30	0.30	5.24	5.21	

UBC Miniature Deep Groove Ball Bearings

Metric Size
d: 5~9mm



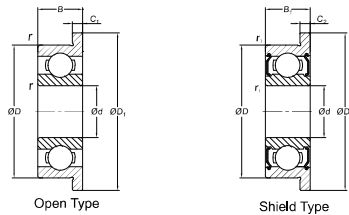
Miniature Deep Groove Ball Bearings UBC



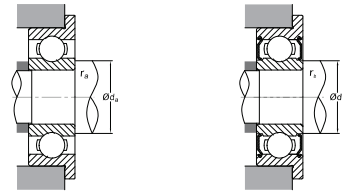
Principal Dimensions (mm)						Basic Load Ratings (N)		Limiting Speed (rpm)			Bearing Designations				Abutment and Fillet Dimensions (mm)						Weight (g)	
d	D	B	B ₁	r (min)	r ₁ (min)	Dynamic C _r	Static C _{0r}	Grease			Open, Z	Open	Shield Type	Sealed Type	d ₁ (min)	d ₁ (max)	D ₂ (max)	D ₂ (min)	r _{1s} (max)	r _{2s} (max)	Open	Sealed Type
								Z, ZZ, RZ, 2RZ	RS, 2RS	Open, Z												
5	8	2.0	-	0.10	-	310	120	53,000	-	63,000	MR85	-	-	5.8	-	7.2	-	0.10	-	0.26	-	
	8	-	2.5	-	0.10	278	131	53,000	-	63,000	-	MR85 ZZ	-	-	5.8	-	7.4	-	0.10	-	0.34	
	9	2.5	3.0	0.15	0.15	430	168	50,000	-	60,000	MR95	MR95 ZZ	-	-	6.2	6.0	7.8	8.2	0.15	0.15	0.50	0.58
	10	3.0	4.0	0.15	0.15	430	168	50,000	-	60,000	MR105	MR105 ZZ	-	-	6.2	6.0	8.8	8.4	0.15	0.15	0.95	1.29
	11	-	4.0	-	0.15	715	276	48,000	-	56,000	-	MR115 ZZ	2RZ	-	-	6.3	-	9.8	-	0.15	-	1.49
	11	3.0	5.0	0.15	0.15	715	281	45,000	-	53,000	685	685 ZZ	-	-	6.2	6.2	9.8	9.9	0.15	0.15	1.20	1.96
	13	4.0	4.0	0.20	0.20	1080	430	43,000	40,000	50,000	695	695 ZZ	2RZ	2RS	6.6	6.6	11.4	11.2	0.20	0.20	2.45	2.50
	14	5.0	5.0	0.20	0.20	1330	505	40,000	38,000	50,000	605	605 ZZ	-	2RS	6.6	6.9	12.4	12.2	0.20	0.20	3.54	3.48
	16	5.0	5.0	0.30	0.30	1730	670	36,000	32,000	43,000	625	625 ZZ	2RZ	2RS	7.0	7.5	14.0	13.8	0.30	0.30	4.95	4.86
19	6.0	6.0	0.30	0.30	2340	885	32,000	30,000	40,000	635	635 ZZ	2RZ	2RS	7.0	8.5	17.0	16.5	0.30	0.30	8.56	8.34	
6	10	2.5	3.0	0.15	0.10	495	218	45,000	-	53,000	MR106	MR106 ZZ	-	-	7.2	7.0	8.8	9.3	0.15	0.10	0.56	0.68
	12	3.0	4.0	0.20	0.15	715	292	43,000	40,000	50,000	MR126	MR 126 ZZ	-	2RS	7.6	7.2	10.4	10.9	0.20	0.15	1.27	1.74
	13	3.5	5.0	0.15	0.15	1080	440	40,000	38,000	50,000	686	686 ZZ	2RZ	2RS	7.2	7.4	11.8	11.7	0.15	0.15	1.91	2.69
	15	5.0	5.0	0.20	0.20	1730	670	40,000	36,000	45,000	696	696 ZZ	2RZ	2RS	7.6	7.9	13.4	13.3	0.20	0.20	3.88	3.72
	17	6.0	6.0	0.30	0.30	2260	835	38,000	34,000	45,000	606	606 ZZ	2RZ	2RS	8.0	8.2	15.0	14.8	0.30	0.30	5.97	6.08
	19	6.0	6.0	0.30	0.30	2340	885	32,000	30,000	40,000	626	626 ZZ	2RZ	2RS	8.0	8.5	17.0	16.5	0.30	0.30	8.15	7.94
	22	7.0	7.0	0.30	0.30	3300	1370	30,000	28,000	36,000	636	636 ZZ	2RZ	2RS	8.0	10.5	20.0	19.0	0.30	0.30	14.00	14.00
7	11	2.5	3.0	0.15	0.10	455	201	43,000	-	50,000	MR117	MR117 ZZ	-	-	8.2	8.0	9.8	10.5	0.15	0.10	0.62	0.72
	13	3.0	4.0	0.20	0.15	540	276	40,000	-	48,000	MR137	MR137 ZZ	-	-	8.6	9.0	11.4	11.6	0.20	0.15	1.58	2.02
	14	3.5	5.0	0.15	0.15	1170	510	40,000	34,000	45,000	687	687 ZZ	2RZ	2RS	8.2	8.5	12.8	12.7	0.15	0.15	2.13	2.97
	17	5.0	5.0	0.30	0.30	1610	710	36,000	28,000	43,000	697	697 ZZ	2RZ	2RS	9.0	10.2	15.0	14.8	0.30	0.30	5.26	5.12
	19	6.0	6.0	0.30	0.30	2340	885	36,000	32,000	43,000	607	607 ZZ	2RZ	2RS	9.0	9.1	17.0	16.5	0.30	0.30	7.67	7.51
	22	7.0	7.0	0.30	0.30	3300	1370	30,000	28,000	36,000	627	627 ZZ	2RZ	2RS	9.0	10.5	20.0	19.0	0.30	0.30	12.70	12.90
	26	9.0	9.0	0.30	0.30	4550	1970	28,000	22,000	34,000	637	637 ZZ	2RZ	2RS	9.0	12.8	24.0	22.8	0.30	0.30	24.00	25.00
8	12	2.5	3.5	0.15	0.10	545	274	40,000	-	48,000	MR128	MR128 ZZ	-	-	9.2	9.0	10.8	11.3	0.15	0.10	0.71	0.97
	14	3.5	4.0	0.20	0.15	820	385	38,000	32,000	45,000	MR148	MR148 ZZ	2RZ	2RS	9.6	9.2	12.4	12.8	0.20	0.15	1.86	2.16
	16	4.0	5.0	0.20	0.20	1610	710	36,000	28,000	43,000	688	688 ZZ	2RZ	2RS	9.6	10.2	14.4	14.2	0.20	0.20	3.12	4.02
	19	6.0	6.0	0.30	0.30	2240	910	36,000	28,000	43,000	698	698 ZZ	2RZ	2RS	10.0	10.0	17.0	16.5	0.30	0.30	7.23	7.18
	22	7.0	7.0	0.30	0.30	3300	1370	34,000	28,000	40,000	608	608 ZZ	2RZ	2RS	10.0	10.5	20.0	19.0	0.30	0.30	12.10	12.20
	24	8.0	8.0	0.30	0.30	3350	1430	28,000	24,000	34,000	628	628 ZZ	2RZ	2RS	10.0	12.0	22.0	20.5	0.30	0.30	17.20	17.40
	28	9.0	9.0	0.30	0.30	4550	1970	28,000	22,000	34,000	638	638 ZZ	2RZ	2RS	10.0	12.8	26.0	22.8	0.30	0.30	28.30	28.60
9	17	4.0	5.0	0.20	0.20	1330	665	36,000	24,000	43,000	689	689 ZZ	2RZ	2RS	10.6	11.5	15.4	15.2	0.20	0.20	3.53	4.43
	20	6.0	6.0	0.30	0.30	1720	840	34,000	24,000	40,000	699	699 ZZ	2RZ	2RS	11.0	12.0	18.0	17.2	0.30	0.30	8.45	8.33
	24	7.0	7.0	0.30	0.30	3350	1430	32,000	24,000	38,000	609	609 ZZ	2RZ	2RS	11.0	12.0	22.8	20.5	0.30	0.30	14.50	14.70
	26	8.0	8.0	0.60	0.60	4550	1970	28,000	22,000	34,000	629	629 ZZ	2RZ	2RS	11.0	12.8	24.0	22.8	0.30	0.30	19.50	19.30
	30	10.0	10.0	0.60	0.60	5100	2390	24,000	-	30,000	639	639 ZZ	2RZ	-	13.0	16.1	26.0	25.6	0.60	0.60	36.50	36.00

UBC Miniature Deep Groove Ball Bearings

Metric Size With Flanged Outer Ring
d: 1~4mm



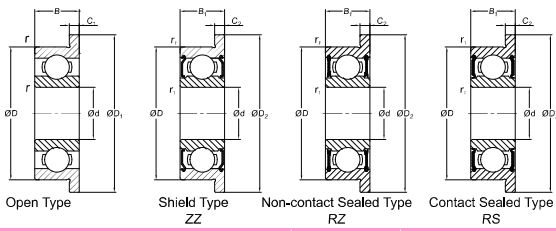
Miniature Deep Groove Ball Bearings UBC



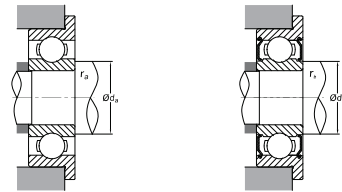
d	Principal Dimensions (mm)										Basic Load Ratings (N)		Limiting Speed (rpm)		Bearing Designations			Abutment and Fillet Dimensions (mm)				Weight (g)	
	D	D ₁	D ₂	B	B ₁	C ₁	C ₂	r (min)	r ₁ (min)	r ₂ (min)	Dynamic C _r	Static C _{0r}	Grease	Oil	Open	Shield Type	Sealed Type	d _a (min)	d _e (max)	r _s (max)	r _r (max)	Open	Sealed Type
1	3	3.8	-	1.0	-	0.3	-	0.05	-	80	23	130,000	150,000	F681	-	-	-	1.4	-	0.05	-	0.04	-
	4	5.0	-	1.6	-	0.5	-	0.10	-	140	36	100,000	120,000	F691	-	-	-	1.8	-	0.10	-	0.14	-
1.2	4	4.8	-	1.8	-	0.4	-	0.10	-	138	35	110,000	130,000	MF4/1.2	-	-	-	2.0	-	0.10	-	0.12	-
	5	5.0	5.0	1.2	2.0	0.4	0.6	0.05	0.05	112	33	100,000	120,000	F68/1.5	F68/1.5 ZZ	-	-	1.9	2.1	0.05	0.05	0.09	0.14
1.5	5	6.5	6.5	2.0	2.6	0.6	0.8	0.15	0.15	237	69	85,000	100,000	F69/1.5	F69/1.5 ZZ	-	-	2.7	2.5	0.15	0.15	0.23	0.28
	6	7.5	7.5	2.5	3.0	0.6	0.8	0.15	0.15	330	98	75,000	90,000	F60/1.5	F60/1.5 ZZ	-	-	2.7	3.0	0.15	0.15	0.42	0.52
2	5	6.1	6.1	1.5	2.3	0.5	0.6	0.08	0.08	169	50	85,000	100,000	F682	F682 ZZ	-	-	2.6	2.7	0.08	0.08	0.16	0.22
	5	6.2	6.2	2.0	2.5	0.6	0.6	0.10	0.10	187	58	85,000	100,000	MF52	MF52 ZZ	-	-	2.8	2.7	0.10	0.10	0.21	0.27
	6	7.5	7.5	2.3	3.0	0.6	0.8	0.15	0.15	330	98	75,000	90,000	F692	F692 ZZ	-	-	3.2	3.0	0.15	0.15	0.35	0.48
	6	7.2	-	2.5	-	0.6	-	0.15	-	330	98	75,000	90,000	MF62	-	-	-	3.2	-	0.15	-	0.36	-
	7	8.2	8.2	2.5	3.0	0.6	0.6	0.15	0.15	385	127	63,000	75,000	MF72	MF72 ZZ	-	-	3.2	3.8	0.15	0.15	0.52	0.56
	7	8.5	8.5	2.8	3.5	0.7	0.9	0.15	0.15	385	127	63,000	75,000	F602	F602 ZZ	-	-	3.2	3.1	0.15	0.15	0.60	0.71
2.5	6	7.1	7.1	1.8	2.6	0.5	0.8	0.08	0.08	208	74	71,000	80,000	F68/2.5	F68/2.5 ZZ	-	-	3.1	3.7	0.08	0.08	0.25	0.36
	7	8.5	8.5	2.5	3.5	0.7	0.9	0.15	0.15	385	127	63,000	75,000	F69/2.5	F69/2.5 ZZ	-	-	3.7	3.8	0.15	0.15	0.51	0.68
	8	9.2	-	2.5	-	0.6	-	0.20	-	560	179	60,000	67,000	MF8/2.5	-	-	-	4.1	-	0.20	-	0.62	-
	8	9.5	9.5	2.8	4.0	0.7	0.9	0.15	0.15	550	175	60,000	71,000	F60/2.5	F60/2.5 ZZ	-	-	3.7	3.5	0.15	0.15	0.74	0.98
3	6	7.2	7.2	2.0	2.5	0.6	0.6	0.10	0.10	208	74	71,000	80,000	MF63	MF63 ZZ	-	-	3.8	3.7	0.10	0.10	0.27	0.33
	7	8.1	8.1	2.0	3.0	0.5	0.8	0.10	0.10	390	130	63,000	75,000	F683	F683 ZZ	-	-	3.8	4.0	0.10	0.10	0.37	0.53
	8	9.2	-	2.5	-	0.6	-	0.15	-	560	179	60,000	67,000	MF83	-	-	-	4.2	-	0.15	-	0.56	-
	8	9.5	9.5	3.0	4.0	0.7	0.9	0.15	0.15	560	179	60,000	67,000	F693	F693 ZZ	-	-	4.2	4.3	0.15	0.15	0.70	0.97
	9	10.2	10.6	2.5	4.0	0.6	0.8	0.20	0.15	570	187	56,000	67,000	MF93	MF93 ZZ	-	-	4.6	4.3	0.20	0.15	0.81	1.34
	9	10.5	10.5	3.0	5.0	0.7	1.0	0.15	0.15	570	187	56,000	67,000	F603	F603 ZZ	-	-	4.2	4.3	0.15	0.15	1.00	1.63
	10	11.5	11.5	4.0	4.0	1.0	1.0	0.15	0.15	630	218	50,000	60,000	F623	F623 ZZ	-	-	4.2	4.3	0.15	0.15	1.85	1.86
	13	15.0	15.0	5.0	5.0	1.0	1.0	0.20	0.20	1300	485	36,000	43,000	F633	F633 ZZ	-	-	4.6	6.0	0.20	0.20	3.73	3.59
4	7	8.2	-	2.0	-	0.6	-	0.10	-	310	115	60,000	67,000	MF74	-	-	-	4.8	-	0.10	-	0.29	-
	7	-	8.2	-	2.5	-	0.6	-	0.10	255	107	60,000	71,000	-	MF74 ZZ	-	-	4.8	-	0.10	-	0.35	-
	8	9.2	9.2	2.0	3.0	0.6	0.6	0.15	0.10	395	139	56,000	67,000	MF84	MF84 ZZ	-	-	5.2	5.0	0.15	0.10	0.44	0.63
	9	10.3	10.3	2.5	4.0	0.6	1.0	0.15	0.15	640	225	53,000	63,000	F684	F684 ZZ	-	-	4.8	5.2	0.10	0.10	0.70	1.14
	10	11.2	11.6	3.0	4.0	0.6	0.8	0.20	0.15	710	270	50,000	60,000	MF104	MF104 ZZ	-	-	5.6	5.9	0.20	0.15	1.13	1.59
	11	12.5	12.5	4.0	4.0	1.0	1.0	0.15	0.15	960	345	48,000	56,000	F694	F694 ZZ	-	-	5.2	5.6	0.15	0.15	1.91	1.96
	12	13.5	13.5	4.0	4.0	1.0	1.0	0.20	0.20	960	345	48,000	56,000	F604	F604 ZZ	-	-	5.6	5.6	0.20	0.20	2.53	2.53
	13	15.0	15.0	5.0	5.0	1.0	1.0	0.20	0.20	1300	485	40,000	48,000	F624	F624 ZZ	-	-	5.6	6.0	0.20	0.20	3.38	3.53
	16	18.0	18.0	5.0	5.0	1.0	1.0	0.30	0.30	1730	670	36,000	43,000	F634	F634 ZZ	-	-	6.0	7.5	0.30	0.30	5.73	5.62

UBC Miniature Deep Groove Ball Bearings

Metric Size With Flanged Outer Ring
d: 5-9mm



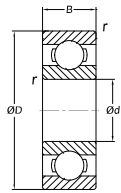
Miniature Deep Groove Ball Bearings UBC



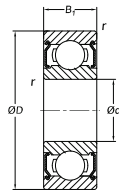
d	Principal Dimensions (mm)										Basic Load Ratings (N)		Limiting Speed (rpm)			Bearing Designations			Abutment and Fillet Dimensions (mm)				Weight (g)	
	D	D ₁	D ₂	B	B ₁	C ₁	C ₂	r ₁ (min)	r ₂ (min)	r ₃ (min)	Dynamic C _r	Static C _{0r}	Z, ZZ, RZ, 2RZ	RS, 2RS	Open, Z	Open	Shield Type	Sealed Type	d _s (min)	d _s (max)	r _s (max)	r _s (max)	Open	Sealed Type
	8	9.2	-	2.0	-	0.6	-	0.10	-	-	310	120	53,000	-	63,000	MF85	-	-	-	5.8	-	0.10	-	0.33
5	8	-	9.2	-	2.5	-	0.6	-	0.10	278	131	53,000	-	63,000	-	MF85 ZZ	-	-	6	-	0.15	0.15	-	0.41
	9	10.2	10.2	2.5	3.0	0.6	0.6	0.15	0.15	430	168	50,000	-	60,000	MF95	MF95 ZZ	-	-	6.2	6	0.15	0.15	0.59	0.66
	10	11.2	11.6	3.0	4.0	0.6	0.6	0.15	0.15	430	168	50,000	-	60,000	MF105	MF105 ZZ	-	-	6.2	6.0	0.15	0.15	1.05	1.46
	11	12.5	12.5	3.0	5.0	0.8	1.0	0.15	0.15	715	281	45,000	-	53,000	F685	F685 ZZ	-	-	6.2	6.2	0.15	0.15	1.37	2.18
	13	15.0	15.0	4.0	4.0	1.0	1.0	0.20	0.20	1080	430	43,000	40,000	50,000	F695	F695 ZZ	2RZ	2RS	6.6	6.6	0.20	0.20	2.79	2.84
	14	16.0	16.0	5.0	5.0	1.0	1.0	0.20	0.20	1330	505	40,000	38,000	50,000	F605	F605 ZZ	-	2RS	6.6	6.9	0.20	0.20	3.90	3.85
	16	18.0	18.0	5.0	5.0	1.0	1.0	0.30	0.30	1730	670	36,000	32,000	43,000	F625	F625 ZZ	2RZ	2RS	7.0	7.5	0.30	0.30	5.37	5.27
	19	22.0	22.0	6.0	6.0	1.5	1.5	0.30	0.30	2340	885	32,000	30,000	40,000	F635	F635 ZZ	2RZ	2RS	7.0	8.5	0.30	0.30	9.49	9.49
	10	11.2	11.2	2.5	3.0	0.6	0.6	0.15	0.10	495	218	45,000	-	53,000	MF106	MF106 ZZ	-	-	7.2	7.0	0.15	0.10	0.65	0.77
	6	12	13.2	13.6	3.0	4.0	0.6	0.8	0.20	0.15	715	292	43,000	40,000	50,000	MF126	MF126 ZZ	-	2RS	7.6	7.2	0.20	0.15	1.38
13		15.0	15.0	3.5	5.0	1.0	1.1	0.15	0.15	1080	440	40,000	38,000	50,000	F686	F686 ZZ	2RZ	2RS	7.2	7.4	0.15	0.15	2.25	3.04
15		17.0	17.0	5.0	5.0	1.2	1.2	0.20	0.20	1730	670	40,000	36,000	45,000	F696	F696 ZZ	2RZ	2RS	7.6	7.9	0.20	0.20	4.34	4.26
17		19.0	19.0	6.0	6.0	1.2	1.2	0.30	0.30	2260	835	38,000	34,000	45,000	F606	F606 ZZ	2RZ	2RS	8.0	8.2	0.30	0.30	6.58	6.61
19		22.0	22.0	6.0	6.0	1.5	1.5	0.30	0.30	2340	885	32,000	30,000	40,000	F626	F626 ZZ	2RZ	2RS	8.0	8.5	0.30	0.30	9.09	9.09
22		25.0	25.0	7.0	7.0	1.5	1.5	0.30	0.30	3300	1370	30,000	28,000	36,000	F636	F636 ZZ	2RZ	2RS	8.0	10.0	0.30	0.30	14.60	14.70
7	11	12.2	12.2	2.5	3.0	0.6	0.6	0.15	0.10	455	201	43,000	-	50,000	MF117	MF117 ZZ	-	-	8.2	8.0	0.15	0.10	0.72	0.82
	13	14.2	14.6	3.0	4.0	0.6	0.8	0.20	0.15	540	276	40,000	-	48,000	MF137	MF137 ZZ	-	-	8.6	9.0	0.20	0.15	1.70	2.23
	14	16.0	16.0	3.5	5.0	1.0	1.1	0.15	0.15	1170	510	40,000	34,000	45,000	F687	F687 ZZ	2RZ	2RS	8.2	8.5	0.15	0.15	2.48	3.37
	17	19.0	19.0	5.0	5.0	1.2	1.2	0.30	0.30	1610	715	36,000	28,000	43,000	F697	F697 ZZ	2RZ	2RS	9.0	10.2	0.30	0.30	5.65	5.65
	19	22.0	22.0	6.0	6.0	1.5	1.5	0.30	0.30	2340	885	36,000	32,000	43,000	F607	F607 ZZ	2RZ	2RS	9.0	9.1	0.30	0.30	8.66	8.66
	22	25.0	25.0	7.0	7.0	1.5	1.5	0.30	0.30	3300	1370	30,000	28,000	36,000	F627	F627 ZZ	2RZ	2RS	9.0	10.5	0.30	0.30	14.20	14.20
8	12	13.2	13.6	2.5	3.5	0.6	0.8	0.15	0.10	545	274	40,000	-	48,000	MF128	MF128 ZZ	-	-	9.2	9.0	0.15	0.10	0.82	1.15
	14	15.6	15.6	3.5	4.0	0.8	0.8	0.20	0.15	820	385	38,000	32,000	45,000	MF148	MF148 ZZ	2RZ	2RS	9.6	9.2	0.20	0.15	2.09	2.39
	16	18.0	18.0	4.0	5.0	1.0	1.1	0.20	0.20	1610	710	36,000	30,000	43,000	F688	F688 ZZ	2RZ	2RS	9.6	10.2	0.20	0.20	3.54	4.47
	19	22.0	22.0	6.0	6.0	1.5	1.5	0.30	0.30	2240	910	36,000	28,000	43,000	F698	F698 ZZ	2RZ	2RS	10.0	10.0	0.30	0.30	8.35	8.30
	22	25.0	25.0	7.0	7.0	1.5	1.5	0.30	0.30	3300	1370	34,000	28,000	40,000	F608	F608 ZZ	2RZ	2RS	10.0	10.5	0.30	0.30	13.40	13.50
9	17	19.0	19.0	4.0	5.0	1.0	1.1	0.20	0.20	1330	665	36,000	24,000	43,000	F689	F689 ZZ	2RZ	2RS	10.6	11.5	0.20	0.20	3.97	4.91
	20	23.0	23.0	6.0	6.0	1.5	1.5	0.30	0.30	1720	840	34,000	24,000	40,000	F699	F699 ZZ	2RZ	2RS	11.0	12.0	0.30	0.30	9.51	9.51

UBC Miniature Deep Groove Ball Bearings

Inch Size
d: 1.016~9.525mm

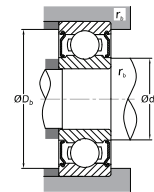
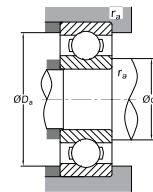


Open Type



Shield Type
ZZ

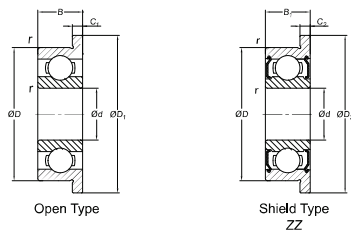
Miniature Deep Groove Ball Bearings UBC



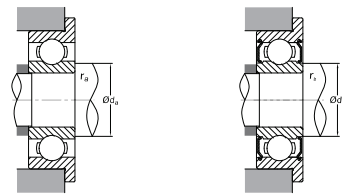
Principal Dimensions (mm)					Basic Load Ratings (N)		Limiting Speed (rpm)		Bearing Designations	Abutment and Fillet Dimensions (mm)					Weight (g)		
d	D	B	B ₁	r (min)	Dynamic C _r	Static C _{0r}	Grease	Oil		Open, Z, ZZ	Open, Z	d ₁ (min)	d ₁ (max)	D ₂ (max)	D ₂ (min)	r _s (max)	Open
1.016	3.175	1.191	-	0.10	80	23	130,000	150,000	R09	-	1.9	-	2.3	-	0.10	0.04	-
1.191	3.967	1.588	2.380	0.10	138	35	110,000	130,000	R0	R0 ZZ	2.0	1.9	3.1	3.5	0.10	0.09	0.11
1.397	4.762	1.984	2.779	0.10	231	66	90,000	110,000	R1	R1 ZZ	2.2	2.3	3.9	4.1	0.10	0.15	0.19
1.984	6.350	2.380	3.571	0.10	310	108	67,000	80,000	R1-4	R1-4 ZZ	2.8	3.9	5.5	5.9	0.10	0.35	0.50
2.380	4.762	1.588	2.380	0.10	143	52	80,000	95,000	R133	R133 ZZ	3.2	3.0	3.9	4.2	0.10	0.10	0.13
	7.938	2.779	3.571	0.15	550	175	60,000	71,000	R1-5	R1-5 ZZ	3.6	4.1	6.7	7.0	0.15	0.60	0.72
3.175	6.350	2.380	2.779	0.10	283	95	67,000	80,000	R144	R144 ZZ	4.0	3.9	5.5	5.9	0.10	0.25	0.27
	7.938	2.779	3.571	0.10	560	179	60,000	67,000	R2-5	R2-5 ZZ	4.0	4.3	7.1	7.3	0.10	0.55	0.72
	9.525	2.779	3.571	0.15	640	225	53,000	63,000	R2-6	R2-6 ZZ	4.4	4.6	8.3	8.2	0.15	0.96	1.13
	9.525	3.967	3.967	0.30	630	218	56,000	67,000	R2	R2 ZZ	5.2	4.8	7.5	8.0	0.30	1.36	1.39
3.967	12.700	4.366	4.366	0.30	640	225	53,000	63,000	R2A	R2A ZZ	5.2	4.6	10.7	8.2	0.30	3.30	3.23
	7.938	2.779	3.175	0.10	360	149	53,000	63,000	R155	R155 ZZ	4.8	5.5	7.1	7.3	0.10	0.51	0.56
4.762	7.938	2.779	3.175	0.10	360	149	53,000	63,000	R156	R156 ZZ	5.6	5.5	7.1	7.3	0.10	0.39	0.42
	9.525	3.175	3.175	0.10	710	270	50,000	60,000	R166	R166 ZZ	5.6	5.9	8.7	8.8	0.10	0.81	0.85
6.350	12.700	3.967	4.978	0.30	1300	485	43,000	53,000	R3	R3 ZZ	6.8	6.5	10.7	11.2	0.30	2.21	2.79
	9.525	3.175	3.175	0.10	420	204	48,000	56,000	R168	R168 ZZ	7.2	7.0	8.7	8.9	0.10	0.58	0.62
	12.700	3.175	4.762	0.15	1080	440	40,000	50,000	R188	R188 ZZ	7.6	7.4	11.5	11.7	0.15	1.53	2.24
	15.875	4.978	4.978	0.30	1610	660	38,000	45,000	R4	R4 ZZ	8.4	8.4	13.8	13.8	0.30	4.50	4.43
7.938	19.050	5.558	7.142	0.40	2340	885	36,000	43,000	R4A	R4A ZZ	9.4	9.0	16.0	16.6	0.40	7.48	9.17
	12.700	3.967	3.967	0.15	540	276	40,000	48,000	R1810	R1810 ZZ	9.2	9.0	11.5	11.6	0.15	1.56	1.48
9.525	22.225	5.558	7.142	0.40	3350	1410	32,000	38,000	R6	R6 ZZ	12.6	11.9	19.2	20.0	0.40	9.02	11.00

UBC Miniature Deep Groove Ball Bearings

Inch Size With Flanged Outer Ring
d: 1.191~9.525mm



Miniature Deep Groove Ball Bearings UBC



Principal Dimensions (mm)									Basic Load Ratings (N)		Limiting Speed (rpm)		Bearing Designations	Abutment and Fillet Dimensions (mm)			Weight (g)	
d	D	D ₁	B	B ₁	C ₁	C ₂	r (min)	Dynamic C _r	Static C _{0r}	Z, ZZ	Open, Z	Open		Shield Type	d _f (min)	d _f (max)	r _f (max)	Open
1.191	3.967	5.156	1.588	2.380	0.330	0.787	0.10	138	35	110,000	130,000	R0	R0 ZZ	2.0	1.9	0.10	0.11	0.16
1.397	4.762	5.944	1.984	2.779	0.584	0.787	0.10	231	66	90,000	110,000	R1	R1 ZZ	2.2	2.3	0.10	0.20	0.25
1.984	6.350	7.518	2.380	3.571	0.584	0.787	0.10	310	108	67,000	80,000	R1-4	R1-4 ZZ	2.8	3.9	0.10	0.41	0.58
2.380	4.762	5.944	1.588	2.380	0.460	0.790	0.10	143	52	80,000	95,000	R133	R133 ZZ	3.2	3.0	0.10	0.13	0.19
	7.938	9.119	2.779	3.571	0.584	0.787	0.15	550	175	60,000	71,000	R1-5	R1-5 ZZ	3.6	3.5	0.15	0.68	0.82
3.175	6.350	7.518	2.380	2.779	0.584	0.787	0.10	283	95	67,000	80,000	R144	R144 ZZ	4.0	3.9	0.10	0.31	0.35
	7.938	9.119	2.779	3.571	0.584	0.787	0.10	560	179	60,000	67,000	R2-5	R2-5 ZZ	4.0	4.3	0.10	0.62	0.81
	9.525	10.719	2.779	3.571	0.584	0.787	0.15	640	225	53,000	63,000	R2-6	R2-6 ZZ	4.4	4.6	0.15	1.04	1.25
	9.525	11.176	3.967	3.967	0.762	0.762	0.30	630	218	56,000	67,000	R2	R2 ZZ	5.2	4.8	0.30	1.51	1.55
3.967	7.938	9.119	2.779	3.175	0.584	0.914	0.10	360	149	53,000	63,000	R155	R155 ZZ	4.8	5.5	0.10	0.59	0.67
4.762	7.938	9.119	2.779	3.175	0.584	0.914	0.10	360	149	53,000	63,000	R156	R156 ZZ	5.6	5.5	0.10	0.47	0.53
	9.525	10.719	3.175	3.175	0.584	0.787	0.10	710	270	50,000	60,000	R166	R166 ZZ	5.6	5.9	0.10	0.90	0.98
	12.700	14.351	4.978	4.978	1.067	1.067	0.30	1300	485	43,000	53,000	R3	R3 ZZ	6.8	6.5	0.30	2.97	3.09
6.350	9.525	10.719	3.175	3.175	0.584	0.914	0.10	420	204	48,000	56,000	R168	R168 ZZ	7.2	7.0	0.10	0.66	0.75
	12.700	13.894	3.175	4.762	0.584	1.143	0.15	1080	440	40,000	50,000	R188	R188 ZZ	7.6	7.4	0.15	1.64	2.49
	15.875	17.526	4.978	4.978	1.067	1.067	0.30	1610	660	38,000	45,000	R4	R4 ZZ	8.4	8.4	0.30	4.82	4.78
7.938	12.700	13.894	3.967	3.967	0.787	0.787	0.15	540	276	40,000	48,000	R1810	R1810 ZZ	9.2	9.0	0.15	1.71	1.63
9.525	22.225	24.613	7.142	7.142	1.570	1.570	0.40	3350	1410	32,000	38,000	R6	R6 ZZ	12.6	11.9	0.40	10.10	12.10