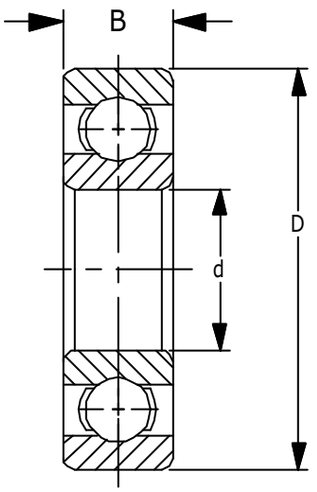
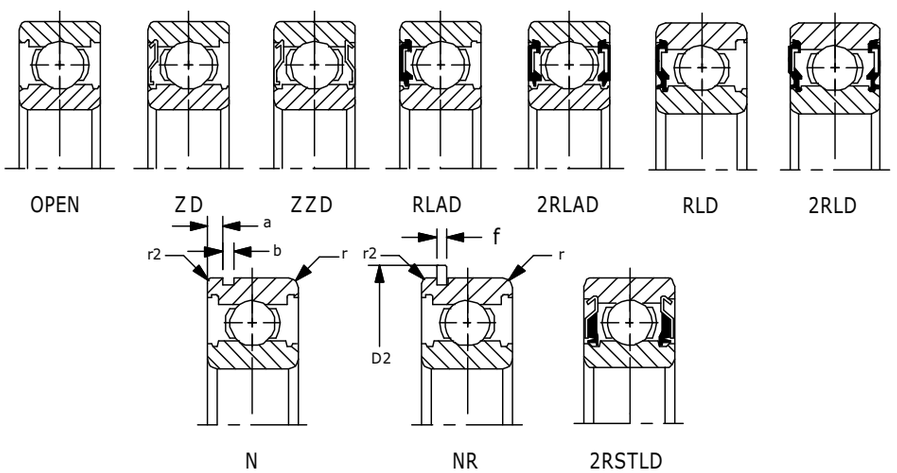
6300 SERIES

Similar in function to the 6200 series. Produced with larger ball complement enabling the bearing to withstand greater radial and thrust for a given bore size. This series is available with shields, Buna N seals, or locating rings. Sealed bearings may be obtained with either low or high starting torques. Consult Peer's engineering staff for proper selection. Stainless steel 440C material is available upon request. Radial clearance is selected in accordance with applications ranging from C2 - C0 - C3 - C4 fits.



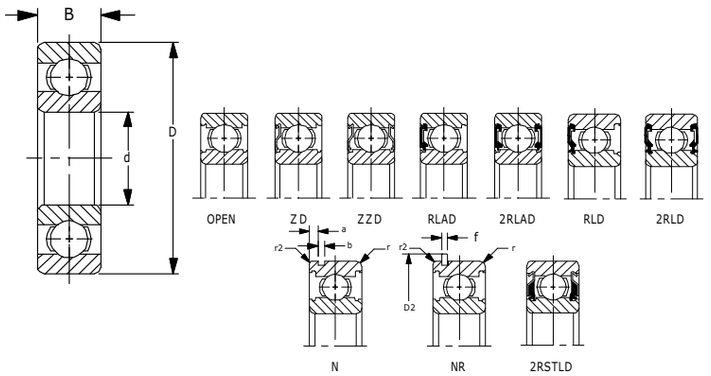


Units: Inches
Metric

Part Number	Bore d	Tolerance +.0000 to minus	OD D	Tolerance +.0000 to minus	Width B	Tolerance +.0000 to minus	* fillet radii r	* fillet radii r_2	snap ring dimensions D_2 Max	snap ring dimensions f Max	snap ring groove dimensions a Max	snap ring groove dimensions b Min	Basic Load Ratings lbf N Dynamic Cr	Basic Load Ratings lbf N Static Cor	Weight lb Kg	Limiting speed of Open Bearing (rpm) oil	Limiting speed of Open Bearing (rpm) grease
6300	.3937	.0003	1.3780	.0005	.4331	.0047	.024	.020	1.563	.044	.081	.053	1,845	785	.110	27,000	23,000
	10	.008	35	.011	11	.120	.6	.5	39.7	1.12	2.06	1.35	8,200	3,500	.050		
6301	.4724	.0003	1.4567	.0005	.4724	.0047	.039	.020	1.626	.044	.081	.053	2,180	940	.132	24,000	20,000
	12	.008	37	.011	12	.120	1.0	.5	41.3	1.12	2.06	1.35	9,700	4,200	.056		
6302	.5906	.0003	1.6535	.0005	.5118	.0047	.039	.020	1.823	.044	.081	.053	2,570	1,220	.150	21,000	17,000
	15	.008	42	.011	13	.120	1.0	.5	46.3	1.12	2.06	1.35	11,400	5,450	.068		
6303	.6693	.0003	1.8504	.0005	.5512	.0047	.039	.020	2.075	.044	.097	.053	3,060	1,470	.249	19,000	16,000
	17	.008	47	.011	14	.120	1.0	.5	52.7	1.12	2.46	1.35	13,600	6,650	.113		
6304	.7874	.0004	1.0472	.0005	.5906	.0047	.043	.020	2.280	.044	.097	.053	3,600	1,770	.319	17,000	14,000
	20	.010	52	.013	15	.120	1.1	.5	57.9	1.12	2.46	1.35	15,900	7,900	.145		
63/22	.8661	.0004	2.2047	.0005	.6299	.0047	.043	.020	2.429	.044	.097	.053	4,140	2,080	.394	15,000	13,000
	22	.010	56	.013	16	.120	1.1	.5	61.7	1.12	2.46	1.35	18,400	9,250	.179		
6305	.9843	.0004	2.4409	.0005	.6693	.0047	.043	.020	2.665	.067	.129	.075	4,750	2,460	.518	14,000	12,000
	25	.010	62	.013	17	.120	1.1	.5	67.7	1.7	3.28	1.9	21,200	11,200	.235		
63/28	1.1024	.0004	2.6772	.0005	.7087	.0047	.043	.020	2.937	.067	.129	.075	6,000	3,150	.633	13,000	11,000
	28	.010	68	.013	18	.120	1.1	.5	74.6	1.7	3.28	1.9	26,700	14,000	.287		
6306	1.1811	.0004	2.8346	.0005	.7480	.0047	.043	.020	3.094	.067	.129	.075	6,000	3,375	.760	12,000	10,000
	30	.010	72	.013	19	.120	1.1	.5	78.6	1.7	3.28	1.9	26,700	15,000	.345		
63/32	1.2598	.0005	2.9528	.0005	.7874	.0047	.043	.020	3.213	.067	.129	.075	6,727	3,825	.857	11,000	9,500
	32	.012	75	.013	20	.120	1.1	.5	81.6	1.7	3.28	1.9	29,900	17,000	.389		
6307	1.3780	.0005	3.1496	.0005	.8268	.0047	.059	.020	3.409	.067	.129	.075	7,537	4,320	1.030	10,000	8,800
	35	.012	80	.013	21	.120	1.5	.5	86.6	1.7	3.28	1.9	33,500	19,200	.464		
6308	1.5748	.0005	3.5433	.0006	.9055	.0047	.059	.020	3.799	.097	.129	.106	9,112	5,400	1.410	9,200	7,800
	40	.012	90	.015	23	.120	1.5	.5	96.5	2.46	3.28	2.7	40,500	24,000	.640		
6309	1.7717	.0005	3.9370	.0006	.9843	.0047	.059	.020	4.193	.097	.129	.106	11,925	7,200	1.82	8,200	7,000
	45	.012	100	.015	25	.120	1.5	.5	106.5	2.46	3.28	2.7	53,000	32,000	.829		

*Maximum fillet which corner radius of bearing will clear.

6300 SERIES (continued)



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Units: Inches
Metric

Part Number	Bore d	Tolerance +.0000 to minus	OD D	Tolerance +.0000 to minus	Width B	Tolerance +.0000 to minus	* fillet radii r	* fillet radii r_2	snap ring dimensions D_2 Max	snap ring dimensions f Max	snap ring groove dimensions a Max	snap ring groove dimensions b Min	Basic Load Ratings lbf N Dynamic Cr	Basic Load Ratings lbf N Static Cor	Weight lb Kg	Limiting speed of Open Bearing (rpm) oil	Limiting speed of Open Bearing (rpm) grease
6310	1.9685	.0005	4.3307	.0006	1.0630	.0047	.079	.020	4.591	.097	.129	.106	13,950	8,600	2.470	7,500	6,400
	50	.012	110	.015	27	.120	2.0	.5	116.6	2.46	3.28	2.7	62,000	38,500	1.120		
6311	2.1654	.0006	4.7244	.0006	1.1417	.0059	.079	.020	5.106	.111	.160	.122	16,100	10,125	3.070	6,800	5,800
	55	.015	120	.015	29	.150	2.0	.5	129.7	2.82	4.06	3.1	71,500	45,000	1.393		
6312	2.3622	.0006	5.1181	.0007	1.2205	.0059	.079	.020	5.500	.111	.160	.122	18,450	11,700	3.810	6,300	5,400
	60	.015	130	.018	31	.150	2.1	.5	139.7	2.82	4.06	3.1	82,000	52,000	1.728		
6313	2.5591	.0006	5.5118	.0007	1.2992	.0059	.079	.020	5.894	.111	.193	.122	20,800	13,500	4.700	5,800	4,900
	65	.015	140	.018	33	.150	2.1	.5	149.7	2.82	4.9	3.1	92,500	60,000	2.110		
6314	2.7559	.0006	5.9055	.0007	1.3780	.0059	.079	.020	6.287	.111	.193	.122	23,400	15,300	5.720	5,400	4,600
	70	.015	150	.018	35	.150	2.1	.5	159.7	2.82	4.9	3.1	104,000	68,000	2.595		
6315	2.9528	.0006	6.2992	.0010	1.4567	.0059	.079	.020	6.681	.111	.193	.122	25,425	17,325	8.37	5,000	4,300
	75	.015	160	.025	37	.150	2.1	.5	169.7	2.82	4.9	3.1	113,000	77,000	3.80		
6316	3.1496	.0006	6.6929	.0010	1.5354	.0059	.079	.020	7.201	.122	.224	.138	27,675	19,460	8.130	4,700	4,000
	80	.015	170	.025	39	.150	2.1	.5	182.9	3.1	5.69	3.5	123,000	86,500	3.688		
6317	3.3465	.0008	7.0866	.0012	1.6142	.0079	.118	.020	7.594	.122	.224	.138	29,925	21,825	9.73	4,500	3,800
	85	.020	180	.025	41	.200	3.0	.5	192.9	3.1	5.69	3.5	133,000	97,000	4.28		
6318	3.5433	.0008	7.4803	.0012	1.6929	.0079	.118	.020	7.988	.122	.224	.138	32,175	24,075	11.000	4,200	3,600
	90	.020	190	.030	43	.200	3.0	.5	202.9	3.1	5.69	3.5	143,000	107,000	4.990		
6319	3.7402	.0008	7.8740	.0012	1.7717	.0079	.118	.020	8.382	.122	.224	.138	34,425	26,775	12.800	3,900	3,300
	95	.020	200	.030	45	.200	3.0	.5	212.9	3.1	5.69	3.5	153,000	119,000	5.806		
6320	3.9370	.0008	8.4646	.0012	1.8504	.0079	.118	.020					38,925	31,725	15.52	3,700	3,200
	100	.020	215	.030	47	.200	3.0	.5					173,00	141,000	7.04		
6321	4.1339	.0008	8.8583	.0012	1.9291	.0079	.118	.020					41,400	34,650	18.300	3,600	3,000
	105	.020	225	.030	49	.200	3.0	.5					184,00	154,000	8.09		
6322	4.3307	.0008	9.4488	.0012	1.9685	.0079	.118	.020					46,125	40,275	20.9	3,400	2,900
	110	.020	240	.030	50	.200	3.0	.5					205,000	180,160	9.51		
6324	4.7244	.0008	10.2362	.0014	2.1654	.0079	.118	.020					46,575	41,625	27.56	3,100	2,600
	120	.020	260	.035	55	.200	3.0	.5					207,000	185,000	12.53		
6326	5.1181	.0010	11.0236	.0014	2.2835	.0098	.157	.020					51,525	48,150	33.700	2,800	2,400
	130	.025	280	.035	58	.250	4.0	.5					229,000	214,000	15.286		
6328	5.5118	.0010	11.8110	.0014	2.4409	.0098	.157	.020					56,925	55,350	40.800	2,600	2,200
	140	.025	300	.035	62	.250	4.0	.5					253,000	246,000	18.507		
6330	5.9055	.0010	12.5984	.0016	2.5591	.0098	.157	.020					61,500	63,900	50.05	2,400	2,100
	150	.025	320	.040	65	.120	4.0	.5					274,000	284,000	22.70		
6332	6.2992	.0010	13.3858	.0016	2.6772	.0098	.157	.020					62,550	64,575	57.77	2,300	1,900
	160	.025	340	.040	68	.120	4.0	.5					278,000	287,000	26.2		
6334	6.6929	.0010	14.1732	.0016	2.8346	.0098	.157	.020					73,125	79,875	80.7	2,100	1,800
	170	.025	360	.040	72	.120	4.0	.5					325,000	355,000	36.6		
6336	7.0866	.0012	14.9606	.0016	2.9528	.0098	.157	.020					79,875	91,150	95.63	2,000	1,700
	180	.025	380	.040	75	.120	4.0	.5					355,000	4075,000	8.10		
6338	7.4803	.0012	15.7480	.0016	3.0709	.0118	.197	.020					79,875	93,375	109.6	1,900	1,600
	190	.030	400	.040	78	.300	5.0	.5					355,000	415,000	49.7		
6340	7.8740	.0012	16.5354	.0018	3.1496	.0118	.197	.020					92,250	112,500	122.000	1,800	1,500
	200	.030	420	.045	80	.300	5.0	.5					410,000	500,000	55.339		

*Maximum fillet which corner radius of bearing will clear.