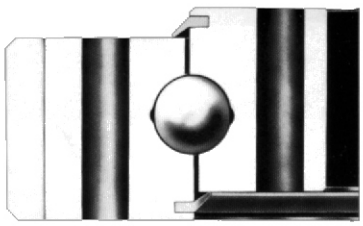
Series T Bearings

Introduction

Series T designates a heavy duty four-point contact ball bearing. Each raceway is precision ground to form a gothic arch. The ball contacts each raceway at two points hence the term four-point contact. This geometry enables the bearing to support thrust, moment and radial loads simultaneously.

Typical Cross Section



Applications

Ideal applications for Avon Series T bearings include cranes, excavators, fire apparatus, wastewater treatment equipment, forestry equipment, wind energy, capstans, welding positioners, amusement rides and military equipment.

Construction

These bearings are produced from special alloy steel through hardened to the appropriate level for the application. The ball paths are induction hardened to 58-62 Rc. Balls are made from A.I.S.I. 52100 steel.

Advantages

The Series T bearing is the most popular style of Avon bearing. Many designs are in regular production or in stock. These bearings offer higher static capacities than the Series R (cross roller) bearing.

Series T Bearings Gearless

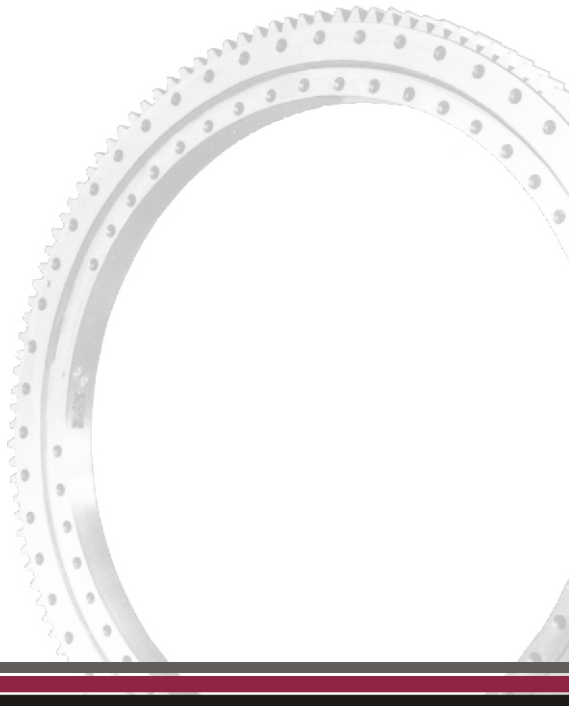
Models	CAPACITY DATA		
	Moment	Thrust	Radial
513C17	16,564	78,183	15,762
811C2	27,021	1143,223	16,538
814C9	39,931	177,472	29,783
832C3	245,498	460,310	53,152
1017C27	78,303	282,683	32,641
1041C3	373,010	552,608	110,521
1067C3	1,222,544	1,103,047	127,369
1219C3	52,690	168,338	33,667
1244C1	692,314	940,005	108,542
1260C3	1,271,996	1,271,996	146,877
12110C1	3,848,724	2,099,304	242,406
1519C3	127,240	409,134	81,826
1533C1	466,917	848,940	98,027
1550C12	879,002	1,060,104	212,020
1570C1	2,115,569	1,805,349	208,463
1726C35	306,023	711,682	119,434
1754C2	1,486,835	1,644,122	189,846
1796C1	4,626,101	2,891,313	333,860
2026C2	345,764	786,425	157,285
2066C2	2,473,118	2,265,451	261,591
20104C1	6,279,620	3,611,398	417,008
2238C1	974,123	1,522,861	175,844
2272C4	3,411,941	2,837,963	327,699
2530C1	683,726	1,364,724	157,584
25110C1	8,878,221	4,832,123	557,965
2748C1	1,892,527	2,365,658	273,162
2796C1	7,518,752	4,687,014	541,209
3069C1	4,144,587	3,610,267	416,877
30105C1	9,554,856	5,469,815	631,599

Capacity: Raceway capacity (Moment, Thrust and Radial) are based upon the Theoretical Stress Limit Static Load rating for a single axis. See page 2-6 for additional information. Contact Avon Bearings Engineering for analysis of combined loading applications. ***Note:*** Bolts may be the limiting factor from a capacity standpoint.

Moment: Denotes moment capacity of raceway, single-axis (ft.-lbs.).

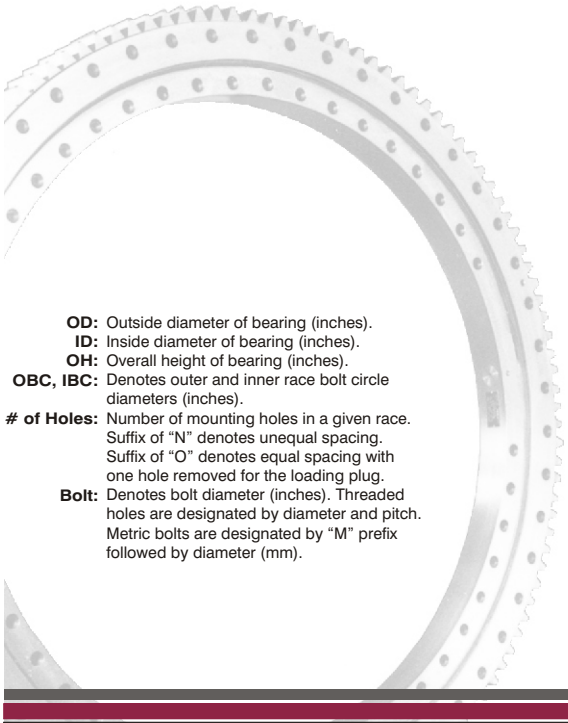
Thrust: Denotes thrust or axial capacity of raceway, single-axis (lbs.).

Radial: Denotes radial capacity of raceway, single-axis (lbs.).

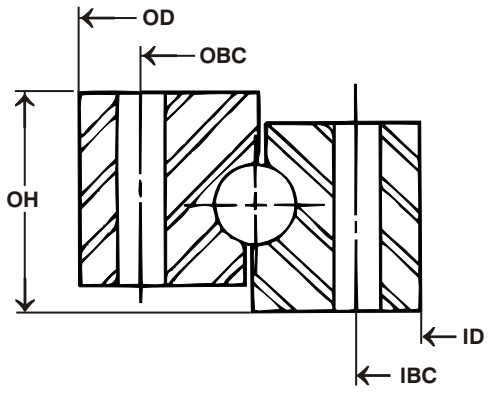


Series T Bearings Gearless

Models	Outline Dimensions			MOUNTING HOLES					
					Outer Race			Inner Race	
	OD	ID	OH	OBC	# Holes	Bolt	IBC	# Holes	Bolt
513C17	15.92	9.30	1.50	14.968	6	.500	10.250	6	.500
811C2	14.69	8.27	1.97	13.190	16	.563	9.449	20	.563
814C9	16.56	10.43	1.97	15.354	18	.500	11.614	24	.500
832C3	36.50	28.00	2.65	34.500	16	.750	29.750	16	.750-10
1017C27	20.48	12.75	2.06	18.875	20	.625-11	14.375	20	.625-11
1041C3	44.50	36.50	3.00	43.250	30	.625	37.750	30	.625
1067C3	71.00	61.50	3.00	69.000	24	.625	63.125	24	.625
1219C3	22.80	14.55	2.95	21.260	24	.625	16.142	24	.625
1244C1	48.38	40.00	3.25	46.625	48	.625	41.750	48	.625
1260C3	66.00	54.00	3.50	63.250	44	.750-10	55.750	48	.750
12110C1	114.25	105.75	3.00	112.750	48	.625	107.250	48	.625-11
1519C3	24.84	12.48	3.86	22.244	20	1.250	15.079	20	1.250
1533C1	38.25	27.75	4.00	36.250	30	.750	29.750	30	.750
1550C12	54.50	45.00	4.00	52.750	36	.750	46.750	36	.750
1570C1	75.75	64.88	4.00	73.620	40	.750	67.000	40	.750
1726C35	30.69	20.54	3.06	29.060	36	.750	22.540	40-N	.750-10
1754C2	60.00	48.50	5.50	58.000	24	1.000	50.500	22-N	1.000
1796C1	103.00	89.00	4.50	99.750	60	.875	92.250	60	.875
2026C2	32.13	20.62	4.49	30.118	20	.875	22.638	20	.875
2066C2	72.00	58.75	4.75	69.625	36	1.000	61.250	36	1.000
20104C1	111.22	97.44	5.20	108.622	48	1.250	100.039	48	1.250
2238C1	44.50	31.88	4.50	42.500	30	1.000	34.250	29-O	1.000-8
2272C4	79.38	64.88	5.25	76.875	40	1.250	67.375	40	1.250-7
2530C1	36.50	23.62	5.75	34.500	48	.875	25.620	40	.875
25110C1	119.00	101.50	6.50	115.000	111-O	1.250	105.500	112	1.250
2748C1	56.75	39.25	6.50	53.500	36	1.250	42.500	36	1.250
2796C1	104.75	87.75	6.50	101.750	48	1.250	90.750	48	1.250
3069C1	76.75	60.25	7.10	74.390	38-N	1.250	63.405	60-N	1.250
30105C1	114.25	95.38	7.50	110.875	60	1.250	98.750	66	1.250



OD: Outside diameter of bearing (inches).
ID: Inside diameter of bearing (inches).
OH: Overall height of bearing (inches).
OBC, IBC: Denotes outer and inner race bolt circle diameters (inches).
# of Holes: Number of mounting holes in a given race. Suffix of "N" denotes unequal spacing. Suffix of "O" denotes equal spacing with one hole removed for the loading plug.
Bolt: Denotes bolt diameter (inches). Threaded holes are designated by diameter and pitch. Metric bolts are designated by "M" prefix followed by diameter (mm).



Series T Internal Gear

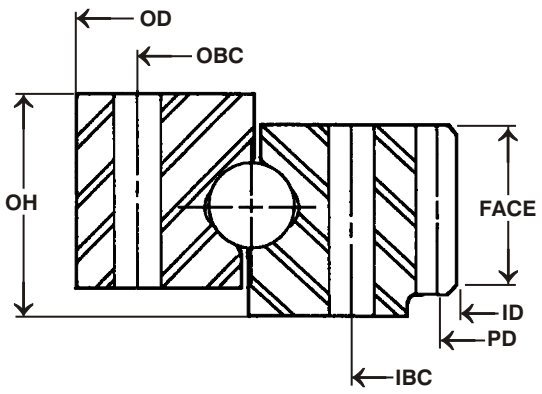
	GEAR DATA					CAPACITY DATA			
Models	**Tooth**	**PD**	**DP**	**#Teeth**	**Face**	**Moment**	**Thrust**	**Radial**	**Tooth**
515B4	FD	11.200	5	58	1.38	23,317	93,270	18,654	6,207
713B2	FS	10.400	5/7	52	1.73	31,962	142,266	16,427	7,907
720B4	ST	16.000	4	64	2.00	82,716	245,084	28,299	9,026
1017B11	FS	13.000	5/7	65	2.06	65,024	234,605	46,921	9,127
1020B2	FD	16.750	4	67	2.00	111,907	335,721	38,765	11,034
1022B2	ST	17.250	4	69	2.38	136,114	371,221	42,864	13,084
1035B7	ST	31.200	2.5	78	2.75	335,074	577,713	66,708	23,855
1042B1	FD	38.400	2.5	96	2.57	408,961	582,428	67,253	21,844
1043B4	FD	38.400	2.5	96	2.17	509,106	713,534	82,391	18,444
1143B4	MOD	38.583	10	98	2.76	592,114	821,051	94,806	23,416
1147B2	MOD	43.307	10	110	3.28	712,566	903,317	104,306	22,064
1148B4	MOD	43.307	10	110	3.53	709,075	895,674	103,423	23,746
1235B8	ST	31.429	3.5	110	2.00	444,674	755,606	87,249	12,004
124382B	FD	38.400	2.5	96	2.50	650,972	912,365	105,350	21,249
1246B4	ST	40.000	2.5	100	2.59	747,977	976,897	112,802	21,935
1248B17	MOD	43.307	10	110	3.70	804,298	1,013,821	117,066	31,091
1355B1	MOD	49.606	14	90	4.30	1,193,381	1,293,638	149,376	51,063
1543B3	ST	38.400	2.5	96	3.00	799,003	1,114,888	128,736	25,498
1549B4	MOD	42.992	14	78	4.32	1,046,363	1,274,239	147,136	44,612
1551B8	MOD	45.748	14	83	3.88	1,134,915	1,327,386	153,273	37,774
1553B2	MOD	45.748	14	83	4.33	1,189,945	1,353,749	156,317	51,830
1555B5	MOD	49.606	14	90	4.33	1,309,394	1,420,167	163,986	51,419
1747B6	ST	41.600	2.5	104	4.00	1,112,176	1,427,392	164,821	29,938
1761B6	SP	53.500	2	107	3.50	1,839,977	1,824,771	210,706	39,301
1783B1	ST	75.200	2.5	188	4.00	3,428,909	2,493,752	287,953	32,514
17105B1	ST	97.600	2.5	244	4.50	5,534,298	3,162,456	365,168	30,149
2055B5	MOD	49.606	15	84	5.49	1,659,173	1,799,862	207,830	74,129
2059B6	MOD	50.551	12	107	4.32	2,012,940	2,053,322	237,097	35,226
2086B2	ST	80.000	3	240	4.50	4,315,093	2,997,633	346,136	32,179
20104B1	ST	95.000	2	190	4.50	6,218,558	3,587,629	414,263	42,654
2247B1	FD	40.000	2.5	100	3.00	1,479,052	1,882,145	217,331	27,101
2287B1	ST	78.000	1.5	117	5.25	4,982,103	3,435,933	396,747	73,181
22118B1	ST	109.500	2	207	5.00	9,088,380	4,631,022	534,744	41,042
2556B2	FD	48.000	2.5	120	3.75	2,370,087	2,508,029	289,602	33,392
2567B6	FD	58.000	2.5	145	3.75	3,190,568	2,838,584	327,771	32,973
2588B2	ST	78.500	2	157	5.50	5,680,608	3,873,142	447,231	56,409
25112B1	ST	101.714	1.75	178	5.00	9,227,509	4,943,308	570,804	56,600
2764B2	SP	52.601	1.73	91	5.00	2,835,310	2,655,614	306,643	66,990
2786B2	MOD	76.614	14	139	5.13	5,108,702	3,566,699	411,846	62,814
27114B1	MOD	103.465	18	146	6.02	10,647,061	5,579,977	644,320	82,674
3079B1	FD	66.000	1.5	99	5.00	5,087,288	3,851,574	444,741	75,348
30103B2	ST	91.333	1.5	137	6.75	9,207,027	5,363,317	619,302	93,068

# of teeth: Number of teeth in the gear.
Face: Face width of the gear (inches).
Capacity: Raceway capacity (Moment, Thrust and Radial) are based upon the Theoretical Stress Limit Static Load rating for a single axis. See page 2-6 for additional information. Contact Avon Bearings Engineering for analysis of combined loading applications. ***Note:*** Bolts may be the limiting factor from a capacity standpoint. Tooth capacity denotes the Tangential Tooth Capacity based upon the Lewis equation and including a 4:1 safety factor over the tensile strength of the steel.
Moment: Denotes moment capacity of raceway, single-axis (ft.-lbs.).
Thrust: Denotes thrust or axial capacity of raceway, single-axis (lbs.).
Radial: Denotes radial capacity of raceway, single-axis (lbs.).
Tooth: Denotes tangential tooth capacity (lbs.).

Series T Bearings Internal Gear

Models	Outline Dimensions			MOUNTING HOLES					
					Outer Race			Inner Race	
	OD	ID	OH	OBC	# Holes	Bolt	IBC	# Holes	Bolt
515B4	18.25	11.20	1.75	16.750	24	.375	13.250	28	.375
713B2	16.46	10.11	1.97	15.354	18	.625-11	11.614	24	.625-11
720B4	24.00	15.60	2.50	22.500	16	.625	18.000	16	.625
1017B11	20.48	12.74	2.13	18.874	20	.625-11	14.374	20	.625-11
1020B2	23.75	16.25	3.50	22.375	15-N	.625	18.625	15	.750-10
1022B2	25.75	16.85	2.75	24.500	18	.625	19.500	24	.625-11
1035B7	38.30	30.56	3.95	37.170	30	.625	33.460	30	.625-11
1042B1	46.13	37.68	3.54	44.600	36	.750	40.940	30	.750-16
1043B4	45.80	37.68	3.54	44.656	36	.625-11	40.938	36	.625-11
1143B4	47.10	37.90	3.35	45.630	36	.750	40.970	36	.625
1147B2	51.18	42.83	3.65	49.810	31-N	.750	45.700	36	M20 x 2.5
1148B4	51.20	42.69	4.13	49.734	26-N	.750	45.806	36	M22 x 2.5
1235B8	39.00	30.97	4.50	37.170	30	.750-10	33.460	30	.750-10
1243B28	46.00	37.68	4.70	44.650	36	.750-10	40.940	36	.750-10
1246B4	51.12	39.68	3.56	49.125	22	1.000	43.000	20	1.000-8
1248B17	51.60	42.60	4.16	50.300	32-N	.750	45.830	36	M20 x 1.5
1355B1	60.12	48.69	4.86	58.307	35-N	M24 x 3	53.464	40	M24 x 3
1543B3	48.12	38.08	5.00	46.375	22-N	.875	41.375	40	.875-9
1549B4	54.25	42.48	5.13	52.401	34-N	1.000	46.929	36	M24 x 3
1551B8	55.84	44.78	4.55	54.360	36	.875	48.843	36	M22 x 1.5
1553B2	58.00	44.90	5.37	55.860	34-N	1.000	49.610	36	1.000
1555B5	60.13	48.64	4.79	58.307	35-N	M24 x 3	53.464	40	M24 x 3
1747B6	52.00	41.28	5.06	50.375	36	.875	44.495	40	.875-9
1761B6	65.50	52.97	4.73	63.750	26-N	1.000	57.250	40	1.000
1783B1	89.00	74.56	4.50	86.250	60	.875	78.750	60	.875
17105B1	112.00	96.96	5.00	109.000	60	.875	101.000	60	.875
2055B5	61.07	48.76	5.98	59.252	26-N	M24 x 3	53.464	40	M24 x 3
2059B6	64.96	50.16	5.15	62.992	36-N	1.125	54.645	36	1.125
2086B2	92.50	79.46	5.00	90.062	52	1.000	82.687	60	1.000
20104B1	112.50	94.20	5.00	109.250	72	1.500	99.250	72	1.500-6
2247B1	53.20	39.33	5.80	51.250	32	1.000	43.050	40	1.000
2287B1	95.00	76.93	6.00	92.250	48	1.250	81.750	48	1.250
22118B1	126.00	108.70	5.50	122.000	72	1.250	113.500	72	1.250
2556B2	63.88	47.20	7.43	61.400	32-N	1.125	52.000	40	1.125
2567B6	74.67	57.20	7.59	72.250	40	1.250	62.625	40	1.250
2588B2	96.06	77.70	6.00	93.000	60	1.250	83.000	60	1.250
25112B1	121.00	100.80	6.38	117.125	105-O	1.250-7	106.875	110	1.250-7
2764B2	71.63	53.54	6.00	69.000	52-N	1.000	59.125	60	1.000
2786B2	93.56	75.51	6.10	90.866	56-N	1.250	81.023	60-N	1.250
27114B1	123.70	102.05	6.54	120.080	60	1.500	108.898	60	1.500
3079B1	90.00	65.06	6.25	86.500	20-N	1.500	72.000	33	1.500
30103B2	113.00	90.26	7.25	109.000	66	1.500-6	97.000	66	1.500-6

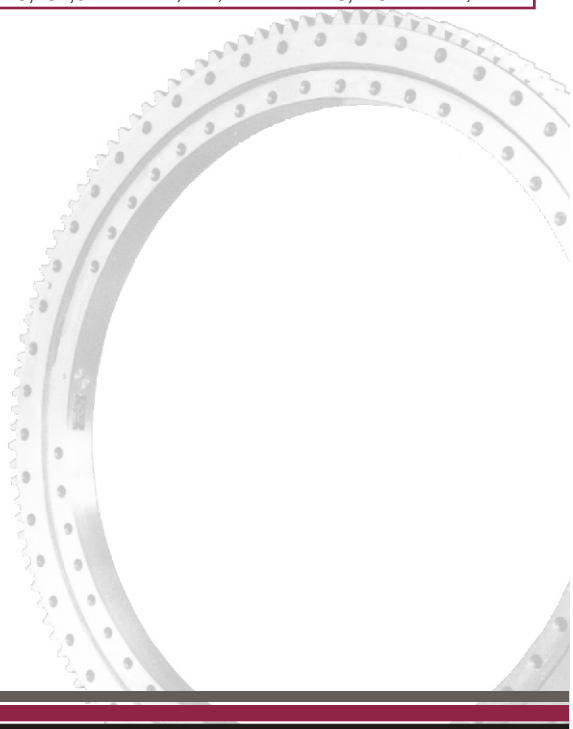
OD: Outside diameter of bearing (inches).
ID: Inside diameter of bearing (inches).
OH: Overall height of bearing (inches).
OBC, IBC: Denotes outer and inner race bolt circle diameters (inches).
# of Holes: Number of mounting holes in a given race. Suffix of "N" denotes unequal spacing. Suffix of "O" denotes equal spacing with one hole removed for the loading plug.
Bolt: Denotes bolt diameter (inches). Threaded holes are designated by diameter and pitch. Metric bolts are designated by "M" prefix followed by diameter (mm).
Tooth: Denotes tooth form. FS is Fellow Stub; ST is Stub; FD is Full Depth; MOD is Module and SP is Special tooth form.
PD: Denotes the theoretical operating pitch diameter of the gear (inches).
DP: Diametral Pitch of of the gear. Module gearing is designated with the appropriate module.



Series T External Gear

	GEAR DATA					CAPACITY DATA			
Models	**Tooth**	**PD**	**DP**	**#Teeth**	**Face**	**Moment**	**Thrust**	**Radial**	**Tooth**
513A5	FS	15.600	5/7	78	1.26	17,598	81,225	16,245	4,701
811A3	FS	14.400	5/7	72	1.50	24,064	126,989	21,311	5,926
814A7	FS	16.800	5/7	84	1.75	44,598	198,216	22,888	6,571
1017A53	FS	20.200	5/7	101	2.06	78,348	282,676	32,640	7,844
1018A6	FS	22.900	4/5	90	2.75	74,908	246,273	41,329	12,929
1022A14	FS	26.000	5/7	130	2.00	136,114	371,221	42,864	7,711
1030A10	ST	33.600	2.5	84	3.50	245,479	495,083	57,167	26,285
1039A23	MOD	42.165	9	119	2.95	412,408	642,714	74,214	17,865
1223A4	ST	26.857	3.5	94	2.75	164,771	439,389	50,736	14,883
1229A15	ST	33.428	3.5	117	3.38	293,869	617,373	71,288	15,099
1236A4	ST	41.600	2.5	104	3.00	469,275	773,955	89,368	22,894
1524A4	ST	29.714	3.5	104	3.19	243,665	604,980	69,857	14,143
1534A28	FS	39.000	3/4	117	2.50	496,998	875,500	101,094	15,891
1548A3	ST	53.600	2.5	134	3.25	943,063	1,185,001	136,832	25,185
1553A5	ST	60.000	2	120	3.00	1,213,244	1,367,035	157,851	26,954
1718A7	ST	23.500	4	94	3.22	141,174	475,602	54,917	15,248
1721A1	ST	27.000	4	108	4.00	227,387	649,679	75,018	15,556
1724A3	ST	29.429	3.5	103	3.25	296,065	740,162	85,466	17,704
1734A24	FS	38.250	4/5	153	3.27	577,056	1,029,539	118,880	17,007
1736A12	FD	41.600	2.5	104	4.94	590,217	983,695	165,083	35,375
1739A4	ST	45.333	3	136	3.00	647,253	989,432	114,249	19,389
1748A16	ST	53.000	2	106	3.00	1,146,591	1,445,283	166,886	28,655
1759A2	MOD	67.087	12	142	3.78	1,760,731	1,788,755	206,547	30,872
2040A1	FS	47.000	3.4	141	3.50	823,939	1,231,904	142,248	22,663
2048A2	SP	56.000	1.5	84	4.00	1,345,466	1,675,202	193,435	40,957
2070A2	MOD	78.267	14	142	4.72	2,883,043	2,454,698	283,444	40,477
2088A1	MOD	96.063	16	152	4.57	4,445,594	3,044,927	351,597	49,178
2248GM	ST	54.000	2	108	4.00	1,464,793	1,815,860	209,677	40,804
2284A1	ST	93.333	1.5	140	4.00	4,642,918	3,316,370	382,941	55,234
22111A2	ST	120.000	2	240	5.00	8,069,767	4,362,036	503,684	46,300
2563A1	FD	74.000	1.5	111	4.25	2,938,496	2,803,909	323,767	47,799
2590A5	ST	99.000	2	198	5.00	5,976,388	3,984,258	460,062	52,573
25103A2	ST	112.000	2	224	5.00	7,798,391	4,537,245	523,916	52,799
25111A1	ST	120.000	1.5	180	5.50	9,007,781	4,869,071	562,231	67,221
2774A1	FD	82.000	1.5	123	6.38	4,455,816	3,615,756	417,511	77,109
3080A1	ST	90.286	1.75	158	5.00	5,487,021	4,141,148	478,178	61,279

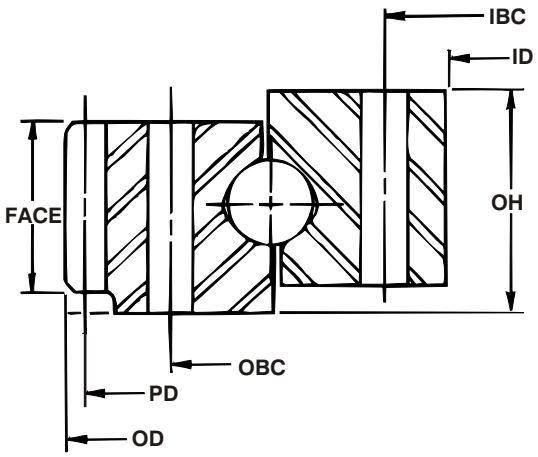
# of teeth: Number of teeth in the gear.
Face: Face width of the gear (inches).
Capacity: Raceway capacity (Moment, Thrust and Radial) are based upon the Theoretical Stress Limit Static Load rating for a single axis. See page 2-6 for additional information. Contact Avon Bearings Engineering for analysis of combined loading applications. ***Note:*** Bolts may be the limiting factor from a capacity standpoint. Tooth capacity denotes the Tangential Tooth Capacity based upon the Lewis equation and including a 4:1 safety factor over the tensile strength of the steel.
Moment: Denotes moment capacity of raceway, single-axis (ft.-lbs.).
Thrust: Denotes thrust or axial capacity of raceway, single-axis (lbs.).
Radial: Denotes radial capacity of raceway, single-axis (lbs.).
Tooth: Denotes tangential tooth capacity (lbs.).



Series T Bearings External Gear

Models	Outline Dimensions OD	ID	OH	MOUNTING HOLES OBC	Outer Race #Holes	Bolt	IBC	Inner Race #Holes	Bolt
513A5	15.89	10.50	1.52	14.375	16	.375-16	11.625	16	.375-16
811A3	14.69	8.27	1.97	13.190	16	.625-11	9.449	19-O	.625-11
814A7	17.08	10.43	2.00	15.354	18	.500	11.614	24	.500
1017A53	20.48	12.75	2.13	18.875	20	.625-11	14.375	20	.625-11
1018A6	22.90	14.25	2.87	20.625	20	.750-10	15.875	29-O	.750-10
1022A14	26.29	18.38	2.25	24.500	18	.625-11	19.500	18	.625-11
1030A10	34.24	26.25	4.00	31.500	30	.750-10	27.750	30	.750-10
1039A23	42.87	34.95	3.56	39.960	30	M16x2	36.299	30	M16
1223A4	27.31	18.00	3.38	24.875	24	.625	20.125	30	.625
1229A15	33.88	24.38	3.63	31.375	36	.750	25.750	35-O	.750
1236A4	42.24	32.00	3.63	39.125	36	.750-16	33.500	36	.750-16
1524A4	31.18	18.88	3.50	27.625	24	.750	20.750	28	.750
1534A28	39.50	29.61	3.25	37.000	30	.875-9	31.120	30	.875-9
1548A3	54.24	43.00	4.00	50.790	36	.875	44.690	36	.875
1553A5	60.80	48.00	3.75	56.625	40	1.000	49.875	40	1.000
1718A7	23.90	12.63	3.50	21.250	18	.750	14.375	18-N	.750
1721A1	27.40	15.50	4.50	24.500	24	.875-9	17.500	23-O	.875
1724A3	29.89	19.13	3.62	27.375	30	.750-10	20.625	29-O	.875
1734A24	38.65	28.25	4.92	35.750	24	1.000-8	30.000	29-O	1.000
1736A12	42.40	30.69	5.69	39.063	48	.750	32.938	47-O	.750
1739A4	45.86	33.71	4.13	42.563	30	.875	35.750	34-N	.875-9
1748A16	53.80	41.88	5.12	49.500	30	1.000-8	43.875	35-O	1.000-8
1759A2	68.40	51.97	4.33	63.307	40	1.375	54.803	40	1.375
2040A1	47.50	34.25	4.25	44.000	30	1.000	36.250	22-N	1.000-8
2048A2	57.10	42.50	5.00	52.000	28	1.000	44.375	35-O	1.000
2070A2	79.80	63.58	5.91	75.000	36	1.125	65.944	36	1.125
2088A1	97.16	80.71	5.04	92.244	48	1.000	82.953	48	1.000
2248GM	54.80	41.63	6.13	50.500	24	1.250-7	44.125	24	1.250-7
2284A1	94.40	76.38	5.25	88.750	44	1.250	79.250	44	1.250
22111A2	120.80	102.00	5.50	115.750	60	1.250-7	106.250	60	1.250-7
2563A1	74.93	54.13	5.63	68.625	37-N	1.250	57.125	26-N	1.250
2590A5	99.80	83.00	6.62	94.750	48	1.250	85.375	48	1.250
25103A2	112.80	93.62	6.50	108.375	48	1.250	97.625	54	1.250
25111A1	121.06	102.50	6.00	116.000	60	1.250	106.000	60	1.250
2774A1	83.33	65.72	6.50	77.750	48	1.250-7	68.750	48	1.250
3080A1	91.19	69.50	7.00	85.500	48	1.500-6	73.000	51-O	1.500-6

OD: Outside diameter of bearing gear (inches).
ID: Inside diameter of bearing (inches).
OH: Overall height of bearing (inches).
OBC, IBC: Denotes outer and inner race bolt circle diameters (inches).
# of Holes: Number of mounting holes in a given race. Suffix of "N" denotes unequal spacing. Suffix of "O" denotes equal spacing with one hole removed for the loading plug.
Bolt: Denotes bolt diameter (inches). Threaded holes are designated by diameter and pitch. Metric bolts are designated by "M" prefix followed by diameter (mm).
Tooth: Denotes tooth form. FS is Fellow Stub; ST is Stub; FD is Full Depth; MOD is Module and SP is Special tooth form.
PD: Denotes the theoretical operating pitch diameter of the gear (inches).
DP: Diametral Pitch of of the gear. Module gearing is designated with the appropriate module.



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