

Bearings

- Ball Thrust
- Roller Thrust
- Special/Custom
- Stainless Steel



Auburn Bearing & MANUFACTURING

Made in the USA since 1898

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The Auburn Advantage

A Need Brought an Idea - THAT GREW INTO A PRINCIPLE

In the summer of 2006, Macedon, New York, became the new home of Auburn Bearing & Manufacturing. Nestled in the rolling hills of upstate New York, Auburn continues the legacy first started in 1898 as a Manufacturer of Quality Standard and Custom Thrust Bearings. For over 100 years, Auburn has established a reputation for quality products, personal service and on time delivery. We welcome the opportunity to offer you The Auburn Advantage.

Thrust Bearings

Auburn Bearing & Manufacturing manufactures an exclusive line of thrust bearings that are specifically designed to reduce rolling friction. Instead of the usual round groove ball track, certain Auburn bearings incorporate a “V” groove raceway. This “V” groove design distributes the load evenly over the balls as they travel on four points of contact, creating a straight line rolling effect and decreasing the amount of friction created by a full contact round groove design. The Auburn styles that incorporate the “V” groove design have the added advantage of being able to carry radial loads equal to 25% of their thrust load capacity.

Our standard bearing rings are made from 52100 Chrome Steel and can be made from Stainless Steel and other materials on request.

The Principle In Action - Thrust Ball Bearings

Less Friction

Cooler Running

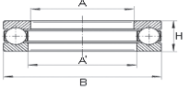









Longer Life

Ball Retainer Not Required

Full Compliment of Balls

Greater Load Carrying Ability

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Thrust Bearings

- Ball thrust bearings, composed of ball bearings supported in a ring, with or without a retainer, can be used in low to medium thrust applications where there is little radial load.
- Roller thrust bearings consist of small cylindrical rollers arranged flat with their axes pointing to the axis of the bearing. They give very good load carrying capacity, but tend to wear due to the differences in radial speed and friction is higher than with ball bearings.

Common Bearing Terminology

Self Contained – Bearing races are attached as one unit (example: Auburn T-100 series, T-114RG, T-170, SC-100, SC-114-RG, T-200-RG, T-114)

Separated – Bearing races are not attached and need to be held together to form one unit (example: Auburn T-101 series, 2900, AE series)

Open Style – Bearing/balls are exposed on OD and/or ID (example: Auburn T-114RG series, T-101, T-114, 2900 series)

Enclosed – Bearing is enclosed with protective sheath made of steel or brass. Can be partially or fully enclosed (example: Auburn SC-100 series, T-100, T-170, SC-T-114-RG, T-200-RG)

Sleeve – Band made of steel or brass that attaches to either the inside (ID) or outside (OD) of bearing races. Provides some protection from outside environment. (example: Auburn T-114 series, T-100, T-170, SC-100, SC-114-RG, T-200-RG)

Banded Bearing – Sleeve either on the outside or inside of bearing (example: Auburn T-100 series, same as sleeved bearing)

Race – Washers made of steel that form top and bottom parts of bearing. Can have round groove, “V” groove or be a flat washer.

Raceway – Path inside bearing races for balls to rotate and travel through

Round Groove - Shape of raceway groove (example: Auburn T-114-RG series, SC-114-RG, T-200-RG, 2900 series)

“V” Groove – Shape of raceway groove. 4 pt. contact of balls with raceway vs. full contact as with round groove (example: Auburn T-170, T-100, T-114, T-101, SC-100)

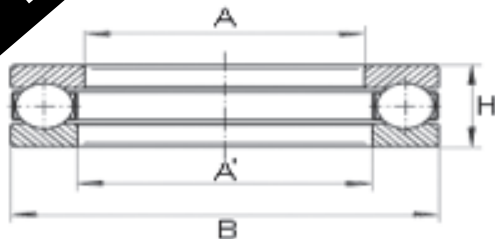
Retainer – Ball or roller separator, made of steel/bronze/nylon (example: Auburn 2900 series) Also called cage.

Full Ball Complement – balls are not held or separated by a cage or retainer.

2900 Series

Auburn Open Style 2900 Metric Ball Thrust Bearing with Nylon Ball Retainer

NEW!



Auburn Bearing & Manufacturing is proud to announce the newest product in their line of trusted thrust bearings. The Open Style 2900 Ball Thrust Bearing is the interchange for an industry standard bearing. Sizes range from 10mm (0.394 inch) to 140mm (5.512 inch) Inside Diameter (ID) and 26mm (1.024 inch) to 185mm (7.283 inch) Outside Diameter (OD). Balls held in by nylon retainer.

2900 Series Mounting Instructions Generally installed with the fitted bore A centered on the shaft and rotating with it. The clearance bore A' seats against a fixed part of the machine and remains stationary. If installed in a recess, a clearance of one eighth of an inch, or more, should be left around outside diameter B and B', in case the shaft wears in it's journal bearings.

DIMENSIONS IN MILLIMETERS AND INCHES

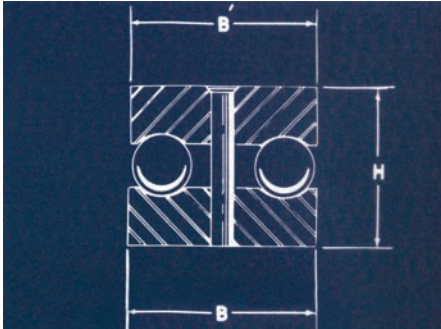
Standard Stock	Part Number	A Shaft (mm)	A Shaft (inch)	A' Bore (mm)	A' Bore (inch)	B OD (mm)	B OD (inch)	H Height (mm)	H Height (inch)	Ball No.-Size (inch)
Y	2900	10	0.394	10.211	0.402	26	1.024	12	0.472	8- ⁷ / ₃₂
Y	2901	12	0.472	12.192	0.480	28	1.102	12	0.472	8- ⁷ / ₃₂
Y	2902	15	0.591	15.189	0.598	31	1.220	12	0.472	10- ⁷ / ₃₂
Y	2903	18	0.709	18.212	0.717	35	1.378	12	0.472	10- ⁷ / ₃₂
Y	2904	20	0.787	20.193	0.795	37	1.457	12	0.472	12- ⁷ / ₃₂
Y	2904.5	22	0.866	22.2	0.874	42	1.654	14	0.551	12- ⁹ / ₃₂
Y	2905	25	0.984	25.197	0.992	45	1.772	14	0.551	12- ⁹ / ₃₂
Y	2906	30	1.181	30.201	1.189	50	1.969	14	0.551	12- ⁹ / ₃₂
Y	2907	35	1.378	35.204	1.386	55	2.165	16	0.630	14- ⁵ / ₁₆
Y	2908	40	1.575	40.208	1.583	60	2.362	16	0.630	14- ⁵ / ₁₆
Y	2909	45	1.772	45.212	1.780	68	2.677	16	0.630	14- ⁵ / ₁₆
Y	2910	50	1.969	50.19	1.976	74	2.913	18	0.709	19- ¹¹ / ₃₂
Y	2911	55	2.165	55.194	2.173	78	3.071	18	0.709	19- ¹¹ / ₃₂
Y	2912	60	2.362	60.198	2.370	82	3.228	18	0.709	19- ¹¹ / ₃₂
N	2913	60	2.362	65.202	2.567	90	3.543	20	0.787	
N	2914	70	2.756	70.206	2.764	95	3.740	20	0.787	
N	2915	75	2.953	75.209	2.961	100	3.937	20	0.787	
N	2916	80	3.150	80.188	3.157	110	4.331	23	0.906	
N	2917	85	3.346	85.192	3.354	115	4.528	22	0.866	
N	2918	90	3.543	90.195	3.551	120	4.724	22	0.866	
N	2919	95	3.740	95.199	3.748	130	5.118	25	0.984	
N	2920	100	3.937	100.203	3.945	135	5.315	25	0.984	
N	2921	105	4.134	105.207	4.142	140	5.512	25	0.984	
N	2922	110	4.331	110.211	4.339	145	5.709	25	0.984	
N	2923	115	4.528	115.189	4.535	150	5.906	25	0.984	
N	2924	120	4.724	120.193	4.732	160	6.299	27	1.063	
N	2925	125	4.921	125.197	4.929	165	6.496	27	1.063	
N	2928	140	5.512	140.208	5.520	185	7.283	31	1.220	

Please note:

Part numbers with a grey background indicate items normally stocked in Macedon, NY.

Auburn Open Style T-114-RG Ball Thrust Bearing with Center Rivet

T-114-RG



The T-114-RG Series is recommended for use in locations that require a relatively small bearing to provide unusual capacity and life for its size. The balls are retained between two thick hardened steel races with deep round grooves and are held together by a center rivet. The one piece design of the T-114-RG series offers easy installation; the open style allows maximum circulation of lubricating products.

The T-114-RG answers the need for an easily installed bearing requiring a minimum amount of machine work. The small pitch diameter of the ball grooves and the large diameter balls, give a relatively low peripheral ball speed. The heavy washer sections and deep grooves result in a bearing of unusual capacity and life for its size. The two races and balls are held together as a unit by the center pin.

T-114-RG Mounting Instructions

The T-114-RG Ball Series fits at the end of the shaft in the journal bearing or housing. The bearing dimensions are designed to be slightly less than the usual diameters of standard shafts. This design provides full contact and still allows for bearing clearance. Diameter B seats against the stationary end of the bearing housing, and diameter B' is placed against the end of the rotating shaft.

Please note:

Part numbers with a grey background indicate items normally stocked in Macedon, NY.

DIMENSIONS IN INCHES

THRUST LOAD CAPACITY IN POUNDS AT VARIOUS SPEEDS

Bearing Number	B Outside Diameter	B Tolerance +.000	B' Outside Diameter	B' Tolerance +.000	H Height (Height Tolerance) + or - .005	Balls No. - Size	Bearing Weight in Lbs.	THRUST LOAD CAPACITY IN POUNDS AT VARIOUS SPEEDS							
								5 RPM	25 RPM	50 RPM	100 RPM	300 RPM	500 RPM	1000 RPM	1500 RPM
0004	1/4	-.002	15/64	-.005	3/16	8-1/16	.007	185	115	90	75	55	45	38	30
0005	5/16	-.002	19/64	-.005	7/32	7-5/64	.009	250	150	125	100	70	60	50	45
0006	3/8	-.002	23/64	-.005	1/4	8-3/32	.01	405	250	205	165	120	100	85	75
0007	7/16	-.002	27/64	-.005	9/32	7-7/64	.02	480	295	240	195	140	120	98	85
0008	1/2	-.002	31/64	-.005	5/16	8-1/8	.03	700	430	350	285	205	175	145	125
0009	9/16	-.002	35/64	-.005	3/8	7-5/32	.04	960	590	480	390	280	240	195	175
0010	5/8	-.002	39/64	-.015	7/16	6-3/16	.05	1185	730	590	480	345	295	240	210
0011	11/16	-.002	43/64	-.015	1/2	5-7/32	.06	1345	825	670	545	390	335	275	240
0012	3/4	-.002	47/64	-.015	9/16	5-1/4	.07	1735	1070	870	705	505	435	355	310
0013	13/16	-.002	51/64	-.015	5/8	5-9/32	.08	2155	1330	1080	875	630	540	440	385
0014	7/8	-.002	55/64	-.015	11/16	5-9/32	.10	2155	1330	1080	875	630	540	440	385
0015	15/16	-.002	59/64	-.015	3/4	5-5/16	.12	2625	1615	1310	1065	765	655	535	470
1000	1	-.003	63/64	-.015	3/4	6-5/16	.14	3080	1895	1540	1250	900	770	625	555
1001	1-1/16	-.003	1-3/64	-.015	7/8	5-11/32	.19	3115	1920	1560	1265	910	780	635	560
1002	1-1/8	-.003	1-7/64	-.015	7/8	6-11/32	.25	3670	2260	1835	1490	1070	920	745	660
1003	1-3/16	-.003	1-11/64	-.015	1-15/16	6-3/8	.26	4310	2655	2155	1750	1255	1080	875	775
1007	1-7/16	-.004	1-27/64	-.015	1-3/16	6-7/16	.46	5715	3515	2850	2315	1660	1425	1160	1025
1011	1-11/16	-.004	1-43/64	-.015	1-1/4	5-9/16	.69	7590	4675	3795	3080	2215	1900	1540	1365
1015	1-15/16	-.005	1-59/64	-.015	1-5/16	6-5/8	.92	10755	6625	5380	4365	3135	2690	2185	1930
2003	2-3/16	-.006	2-5/32	-.015	1-11/16	5-3/4	1.66	12540	7725	6270	5090	3655	3135	2545	2255
2007	2-7/16	-.006	2-13/32	-.015	1-7/8	5-13/16	2.24	14380	8855	7190	5835	4190	3595	2920	2580
2012	2-3/4	-.007	2-23/32	-.015	2-1/4	6-7/8	3.26	19195	11825	9600	7790	5595	4800	3895	3450
2015	2-15/16	-.008	2-29/32	-.015	2-1/2	5-1	3.65	20400	12570	10200	8280	5950	5100	4140	3665
3003	3-3/16	-.008	3-5/32	-.015	2-5/8	5-1 1/16	5.46	22520	13875	11260	9140	6565	5630	4570	4045
3007	3-7/16	-.009	3-13/32	-.015	2-13/16	7-1	6.25	27455	16910	13725	11140	8005	6860	5570	4930
3015	3-15/16	-.010	3-29/32	-.015	2-3/4	6-1 1/4	8.41	34570	21295	17235	14030	10080	8645	7015	6210

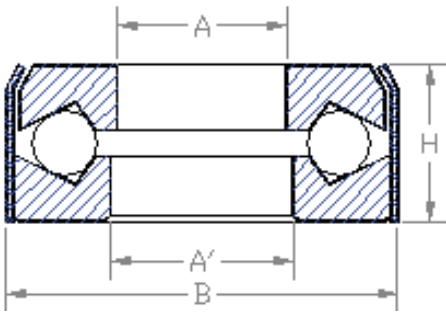
T-100 Auburn Enclosed Style T-100 Ball Thrust Bearing



The T-100 Series is recommended for use in exposed locations where protection from dust, dirt, water or other foreign matter is required. It is self-contained; the two races and the balls are held together as a unit by the outside sleeve made of steel or brass.

Please note: Part numbers with a grey background indicate items normally stocked in Macedon, NY.

Bearing Number	DIMENSIONS IN INCHES									THRUST LOAD CAPACITY IN LBS. AT VARIOUS SPEEDS				
	A Bore	A Tolerance		A' Bore	A' Tolerance -.000	B Outside Diameter	B Tolerance + or -	H Height (H Tolerance) + or - .005	Balls No.-Size	Bearing Weight in lbs.	25 RPM	100 RPM	500 RPM	1500 RPM
00	$5/16$	+0.001	+0.003	$21/64$	+0.015	$11/16$	.015	$5/16$	12- $1/8$	.03	600	395	245	175
0	$3/8$	+0.001	+0.003	$25/64$	+0.015	$3/4$	.015	$5/16$	13- $1/8$	.04	630	415	260	185
$3/8$	$3/8$	+0.001	+0.003	$25/64$	+0.015	1- $3/16$	.015	$1/2$	12- $7/32$	.11	1730	1140	700	505
$1/2$	$1/2$	+0.001	+0.003	$17/32$	+0.015	1- $3/16$	.015	$3/8$	17- $5/32$	.08	1155	760	470	335
1	$1/2$	+0.001	+0.003	$17/32$	+0.015	1- $3/16$	.015	$5/8$	10- $1/4$	.13	1930	1275	785	565
2	$5/8$	+0.001	+0.003	$21/32$	+0.015	1- $3/8$	.015	$5/8$	12- $1/4$	.16	2225	1465	905	645
3	$3/4$	+0.001	+0.003	$25/32$	+0.015	1- $1/2$	.015	$11/16$	14- $1/4$	.19	2480	1635	1005	725
4	$7/8$	+0.001	+0.003	$29/32$	+0.015	1- $13/16$	.015	$11/16$	13- $5/16$	.30	3750	2350	1450	1040
5	$15/16$	+0.001	+0.003	$31/32$	+0.015	2	.015	$13/16$	12- $3/8$	.44	4700	3095	1905	1370
6	$15/16$	+0.001	+0.003	$31/32$	+0.015	2	.015	$11/16$	15- $5/16$	.36	3940	2595	1600	1150
7	1	+0.001	+0.003	1- $1/32$	+0.015	2	.015	$13/16$	12- $3/8$	.41	4700	3095	1905	1370
8	1	+0.001	+0.003	1- $1/32$	+0.015	2	.015	$11/16$	15- $5/16$	.34	3940	2595	1600	1150
9	1- $1/16$	+0.001	+0.003	1- $3/32$	+0.015	2	.015	$11/16$	15- $5/16$	.33	3940	2595	1600	1150
10	1- $1/16$	+0.001	+0.003	1- $3/32$	+0.015	2- $3/16$	.015	$13/16$	13- $3/8$	.53	4985	3285	2025	1455
11	1- $1/8$	+0.001	+0.003	1- $5/32$	+0.015	2- $3/16$	.015	$15/16$	13- $3/8$	.63	4985	3285	2025	1455
12	1- $3/16$	+0.001	+0.003	1- $7/32$	+0.015	2- $3/16$	.015	$11/16$	16- $5/16$	.41	4100	2700	1665	1195
13	1- $1/4$	+0.001	+0.003	1- $9/32$	+0.015	2- $3/16$	.015	$11/16$	17- $5/16$	.38	4250	2800	1725	1240
14	1- $3/16$	+0.001	+0.003	1- $7/32$	+0.015	2- $13/32$	.015	$15/16$	15- $3/8$	.75	5505	3625	2235	1605
15	1- $1/4$	+0.001	+0.003	1- $9/32$	+0.015	2- $13/32$	.015	$15/16$	15- $3/8$	.70	5505	3625	2235	1605
16	1- $5/16$	+0.001	+0.003	1- $11/32$	+0.015	2- $13/32$	.015	$15/16$	15- $3/8$	.69	5505	3625	2235	1605
17	1- $5/16$	+0.001	+0.003	1- $11/32$	+0.015	2- $13/32$	.015	$11/16$	18- $5/16$	.50	4395	2895	1785	1280
17A	1- $3/8$	+0.001	+0.003	1- $13/32$	+0.015	2- $13/32$	.015	$11/16$	19- $5/16$	.44	4525	2975	1835	1315
18	1- $7/16$	+0.001	+0.003	1- $15/32$	+0.015	2- $13/32$	.015	$11/16$	19- $5/16$	.47	4525	2975	1835	1315
19	1- $7/16$	+0.001	+0.003	1- $15/32$	+0.015	2- $1/2$	.015	$15/16$	16- $3/8$	.69	5730	3775	2325	1670
19A	1- $3/8$	+0.001	+0.003	1- $13/32$	+0.015	2- $1/2$	.015	$15/16$	16- $3/8$	.75	5730	3775	2325	1670
20	1- $7/16$	+0.001	+0.003	1- $15/32$	+0.015	2- $19/32$	.015	$15/16$	17- $3/8$	.77	5945	3915	2410	1735
21	1- $1/2$	+0.001	+0.003	1- $17/32$	+0.015	2- $19/32$	.015	$11/16$	20- $5/16$	.52	4630	3050	1875	1350
22	1- $1/2$	+0.001	+0.003	1- $17/32$	+0.015	2- $19/32$	.015	$15/16$	17- $3/8$	.72	5945	3915	2410	1735
23	1- $5/8$	+0.001	+0.003	1- $21/32$	+0.015	2- $19/32$	.015	$11/16$	21- $5/16$	.51	4750	3130	1930	1385
24	1- $11/16$	+0.001	+0.003	1- $23/32$	+0.015	2- $19/32$	.015	$11/16$	21- $5/16$	.47	4750	3130	1930	1385



T-100 Mounting Instructions

The T-100 Series is generally installed so that race A is centered by the shaft and rotates with it. The race with the sleeve attached to it, clearance bore A', is seated against a fixed part of the machine and is stationary. If installed in a recess, a clearance of one-eighth inch or more should be left around the outside diameter B so if the shaft wears in its journal bearings, the thrust bearing will be free to follow without cramping or wedging the balls.

Bearing Number	DIMENSIONS IN INCHES								THRUST LOAD CAPACITY IN LBS. AT VARIOUS SPEEDS					
	A Bore	A Tolerance		A' Bore	A' Tolerance -.000	B Outside Diameter	B Tolerance + or -	H Height (H Tolerance) + or -.005	Balls No.-Size	Bearing Weight in lbs.	25 RPM	100 RPM	500 RPM	1500 RPM
25	1- ¹³ / ₁₆	+.001	+.003	1- ²⁷ / ₃₂	+.015	2- ³ / ₄	.015	¹¹ / ₁₆	22 - ⁵ / ₁₆	.53	4820	3175	1955	1405
26	1- ¹¹ / ₁₆	+.001	+.003	1- ²³ / ₃₂	+.015	2- ³ / ₄	.015	¹³ / ₁₆	18 - ³ / ₈	.69	6140	4045	2490	1790
27	1- ⁷ / ₈	+.001	+.003	1- ²⁹ / ₃₂	+.015	2- ³ / ₄	.015	¹³ / ₁₆	23 - ⁵ / ₁₆	.56	4910	3235	1995	1430
28	1 ⁹ / ₁₆	+.001	+.003	1- ¹⁹ / ₃₂	+.015	2- ³ / ₄	.015	1	15- ⁷ / ₁₆	.94	7280	4795	2955	2120
29	1 ⁵ / ₈	+.001	+.003	1- ²¹ / ₃₂	+.015	3	.015	1- ³ / ₁₆	14- ¹ / ₂	1.31	8830	5815	3580	2575
30	1- ¹⁵ / ₁₆	+.001	+.003	1- ³¹ / ₃₂	+.015	3	.015	¹³ / ₁₆	20- ³ / ₈	.75	6485	4270	2630	1890
31	2	+.001	+.003	2- ¹ / ₃₂	+.015	3	.015	¹³ / ₁₆	20- ³ / ₈	.72	6485	4270	2630	1890
32	1- ¹¹ / ₁₆	+.001	+.003	1- ²³ / ₃₂	+.015	3- ³ / ₁₆	.015	1- ¹ / ₈	15- ¹ / ₂	1.44	9255	6095	3755	2825
33	2- ³ / ₁₆	+.001	+.003	2- ⁷ / ₃₂	+.015	3- ³ / ₁₆	.015	¹³ / ₁₆	26- ⁵ / ₁₆	.78	5070	3340	2060	1480
34	1- ³ / ₄	+.001	+.003	1- ²⁵ / ₃₂	+.015	3- ³ / ₁₆	.015	1- ¹ / ₈	15- ¹ / ₂	1.34	9255	6095	3755	2825
35	2- ¹ / ₄	+.001	+.003	2- ⁹ / ₃₂	+.015	3- ¹ / ₄	.015	¹³ / ₁₆	22- ³ / ₈	.80	6755	4450	2740	1970
36	2- ⁵ / ₁₆	+.001	+.003	2- ¹¹ / ₃₂	+.015	3- ¹ / ₄	.015	¹³ / ₁₆	28- ⁵ / ₁₆	.78	5130	3380	2085	1495
37	1- ¹⁵ / ₁₆	+.001	+.003	1- ³¹ / ₃₂	+.015	3- ¹ / ₄	.015	1- ³ / ₁₆	16- ¹ / ₂	1.44	9640	6350	3910	2810
38	2	+.001	+.003	2- ¹ / ₃₂	+.015	3- ¹ / ₄	.015	1- ³ / ₁₆	16- ¹ / ₂	1.34	9640	6350	3910	2810
39	2- ³ / ₁₆	+.001	+.003	2- ⁷ / ₃₂	+.015	3- ⁷ / ₈	.015	1- ¹ / ₄	19- ¹ / ₂	2.25	10635	7005	4315	3100
40	2- ¹ / ₄	+.001	+.003	2- ⁹ / ₃₂	+.015	3- ⁷ / ₈	.015	1- ¹ / ₄	19- ¹ / ₂	2.13	10635	7005	4315	3100
41	2- ⁷ / ₁₆	+.001	+.003	2- ¹⁵ / ₃₂	+.015	4	.015	1- ¹ / ₄	20- ¹ / ₂	2.19	10900	7180	4425	3175
41A	1- ¹⁵ / ₁₆	+.001	+.003	1- ³¹ / ₃₂	+.015	4	.015	1- ⁵ / ₈	13- ¹¹ / ₁₆	3.60	14690	9675	5960	4280
42	2- ¹ / ₂	+.001	+.003	2- ¹⁷ / ₃₂	+.015	4	.015	1- ¹ / ₄	20- ¹ / ₂	2.13	10900	7180	4425	3175
43	2- ¹⁵ / ₁₆	+.001	+.003	2- ³¹ / ₃₂	+.015	4- ⁵ / ₈	.015	1- ¹ / ₂	19- ⁵ / ₈	3.44	15780	10395	6405	4600
43A	2- ³ / ₄	+.001	+.003	2- ²⁵ / ₃₂	+.015	4- ⁵ / ₈	.015	1- ¹ / ₂	19- ⁵ / ₈	3.50	15780	10395	6405	4600
44	3	+.001	+.003	3- ¹ / ₃₂	+.015	4- ⁵ / ₈	.015	1- ¹ / ₂	19- ⁵ / ₈	3.38	15780	10395	6405	4600
45	3	+.001	+.003	3- ¹ / ₃₂	+.015	4- ⁵ / ₈	.015	1	27- ⁷ / ₁₆	2.26	9460	6230	3840	2755
46	2- ⁷ / ₁₆	+.001	+.003	2- ¹⁵ / ₃₂	+.015	4- ⁵ / ₈	.015	1- ⁵ / ₈	16- ¹¹ / ₁₆	4.60	16875	11115	6845	4920
47	3- ⁷ / ₁₆	+.002	+.004	3- ¹⁵ / ₃₂	+.015	5	.031	1	30- ⁷ / ₁₆	2.48	9490	6250	3850	---
48	2- ³ / ₁₆	+.001	+.003	2- ⁷ / ₃₂	+.015	5	.031	2- ¹ / ₄	11 - 1	8.47	24490	16130	9935	---
49	4- ¹ / ₂	+.003	+.007	4- ⁹ / ₁₆	+.015	6- ¹ / ₄	.031	1- ³ / ₈	30- ⁹ / ₁₆	4.47	14860	9790	6030	---
50	3- ⁷ / ₁₆	+.002	+.004	3- ¹⁵ / ₃₂	+.015	6- ¹ / ₄	.031	2	18- ⁷ / ₈	10.18	27300	17985	11080	---
51	3	+.001	+.003	3- ¹ / ₃₂	+.015	6- ¹ / ₄	.031	3	11-1- ¹ / ₄	18.30	35110	23135	14245	---
52	4	+.002	+.004	4- ¹ / ₃₂	+.015	6- ⁷ / ₈	.031	2	20- ⁷ / ₈	11.76	28840	18990	11700	---
53	4- ⁷ / ₁₆	+.003	+.007	4- ¹ / ₂	+.015	6- ⁷ / ₈	.031	2- ¹ / ₄	20- ⁷ / ₈	12.83	28840	18990	11700	---
54	5	+.003	+.007	5- ¹ / ₁₆	+.015	7	.031	1- ¹ / ₄	37- ¹ / ₂	5.03	11135	7335	4520	---
56	6- ¹ / ₂	+.010	+.015	6- ⁹ / ₁₆	+.015	8- ³ / ₄	.031	1- ¹ / ₂	37- ⁵ / ₈	10.12	16540	10895	6710	---

T-114 Auburn Open Self Contained Style T-114 Ball Thrust Bearing



The T-114 Series is recommended for use in enclosed protected locations, inside the machine housing or where it will operate in an oil bath.

The T-114 Series requires protection from dust, dirt, water and foreign matter. The balls are retained between two hardened steel races, which are banded together by a mild steel or brass sleeve on the inside diameter. When preloaded and installed to be held by the outside diameter B, the V grooved raceways enable this series to carry radial loads equal to 25% of its thrust load capacity. This decreases the amount of friction created by a full contact round groove design.

Please note: Part numbers with a grey background indicate items normally stocked in Macedon, NY.

Heavy Type

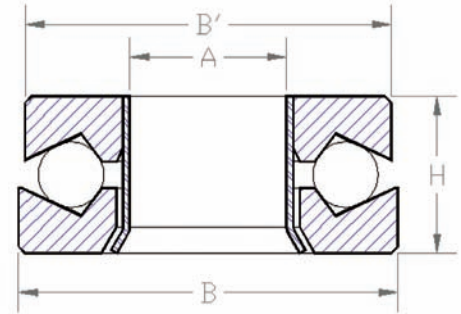
DIMENSIONS IN INCHES

THRUST LOAD CAPACITY IN LBS. AT VARIOUS SPEEDS

Bearing Number	A Bore	A Tolerance	B Outside Diameter	B Tolerance	B' Outside Diameter	B' Tolerance +.000	H Height (H Tolerance) + or - .005	Balls No. - Size	Bearing Weight in Lbs.	25 RPM	100 RPM	500 RPM	1500 RPM
1	$1^{11/16}$	+ .001 + .003	$1-^{15/16}$	+ .003 - .003	$1-^{59/64}$	-.015	$7/8$	$11-^{3/8}$	.50	4405	2900	1785	1285
2	$1^{5/16}$	+ .001 + .003	$2-^{7/16}$	+ .003 - .003	$2-^{13/32}$	-.015	1	$13-^{7/16}$	.88	6595	4345	2675	1925
3	$1-^{3/16}$	+ .001 + .003	$2-^{11/16}$	+ .003 - .003	$2-^{21/32}$	-.015	$1-^{1/8}$	$12-^{1/2}$	1.03	7910	5210	3210	2305
4	$1-^{7/16}$	+ .001 + .003	$2-^{15/16}$	+ .003 - .003	$2-^{29/32}$	-.015	$1-^{1/8}$	$14-^{1/2}$	1.34	8830	5815	3580	2575
5	$1-^{11/16}$	+ .001 + .003	$3-^{3/16}$	+ .003 - .003	$3-^{5/32}$	-.015	$1-^{1/8}$	$16-^{1/2}$	1.44	9640	6350	3910	2810
6	$1-^{15/16}$	+ .001 + .003	$3-^{3/4}$	+ .003 - .003	$3-^{23/32}$	-.015	$1-^{1/4}$	$17-^{9/16}$	2.22	12320	8115	5000	3590
7	$2-^{3/16}$	+ .001 + .003	4	+ .003 - .003	$3-^{31/32}$	-.015	$1-^{1/2}$	$16-^{5/8}$	3.00	14285	9410	5795	4165
8	$2-^{7/16}$	+ .001 + .003	$4-^{1/2}$	+ .003 - .003	$4-^{15/32}$	-.015	$1-^{5/8}$	$16-^{11/16}$	3.75	16875	11115	6845	4920
9	$2-^{11/16}$	+ .001 + .003	$4-^{3/4}$	+ .003 - .003	$4-^{23/32}$	-.015	$1-^{3/4}$	$16-^{3/4}$	4.88	19615	12920	7960	---
10	$2-^{15/16}$	+ .001 + .003	$5-^{1/8}$	+ .003 - .003	$5-^{1/16}$	-.015	$1-^{3/4}$	$17-^{3/4}$	5.50	20345	13400	8255	---
11	$3-^{3/16}$	+ .002 + .004	$5-^{1/2}$	+ .003 - .003	$5-^{7/16}$	-.015	$1-^{3/4}$	$18-^{3/4}$	6.13	21005	13835	8525	---
12	$3-^{7/16}$	+ .002 + .004	$5-^{3/4}$	+ .003 - .003	$5-^{11/16}$	-.015	$1-^{7/8}$	$18-^{13/16}$	7.00	24085	15865	9775	---
13	$3-^{11/16}$	+ .002 + .004	$6-^{1/8}$	+ .003 - .003	$6-^{3/32}$	-.015	$1-^{7/8}$	$19-^{13/16}$	8.00	24815	16345	10070	---
14	$3-^{15/16}$	+ .002 + .004	$6-^{1/2}$	+ .004 - .004	$6-^{13/32}$	-.031	2	$19-^{7/8}$	9.75	28140	18535	11420	---
15	$4-^{3/16}$	+ .003 + .007	$6-^{7/8}$	+ .004 - .004	$6-^{25/32}$	-.031	$2-^{1/4}$	17-1	11.75	33050	21770	13410	---
16	$4-^{7/16}$	+ .003 + .007	$7-^{1/4}$	+ .004 - .004	$7-^{5/32}$	-.031	$2-^{3/8}$	19-1	13.38	35170	23165	14270	---
17	$4-^{11/16}$	+ .003 + .007	$7-^{1/2}$	+ .004 - .004	$7-^{13/32}$	-.031	$2-^{3/8}$	19-1	14.00	35170	23165	14270	---
18	$4-^{15/16}$	+ .003 + .007	$8-^{1/8}$	+ .004 - .004	$8-^{1/32}$	-.031	$2-^{5/8}$	$18-1^{1/8}$	18.00	41395	27265	16795	---
19	$5-^{3/16}$	+ .003 + .007	$8-^{1/2}$	+ .004 - .004	$8-^{13/32}$	-.031	$2-^{3/4}$	$19-1^{1/8}$	21.00	42640	28085	17300	---
20	$5-^{7/16}$	+ .003 + .007	$8-^{7/8}$	+ .005 - .005	$8-^{3/4}$	-.031	3	$18-1^{1/4}$	25.00	48970	32255	19870	---
21	$5-^{11/16}$	+ .003 + .007	$9-^{1/4}$	+ .005 - .005	$9-^{1/8}$	-.031	3	$19-1^{1/4}$	27.00	50420	33210	20460	---
22	$5-^{15/16}$	+ .003 + .007	$9-^{3/4}$	+ .005 - .005	$9-^{5/8}$	-.031	$3-^{1/4}$	$16-1^{1/2}$	32.00	60655	39950	24610	---
23	$6-^{3/16}$	+ .010 + .015	$10-^{1/8}$	+ .005 - .005	10	-.031	$3-^{3/8}$	$17-1^{1/2}$	36.00	63000	41495	25560	---
24	$6-^{7/16}$	+ .010 + .015	$10-^{5/8}$	+ .005 - .005	$10-^{1/2}$	-.031	$3-^{3/4}$	$18-1^{1/2}$	44.00	65085	42870	26410	---

T-114 Mounting Instructions

The T-114 Series is usually installed to be centered by the rotating shaft through bore A. The race with the inside sleeve attached to it should rotate with the shaft. The race which is loose from the inside sleeve, with outside diameter B, will seat against a fixed part of the machine and be stationary. If installed in a recess, a clearance of one eighth inch, or more, should be left around outside diameters B and B'. If the shaft should wear in its journal bearings, the thrust bearing will be free to follow without cramping or wedging the balls.



Medium Type		DIMENSIONS IN INCHES								THRUST LOAD CAPACITY IN LBS. AT VARIOUS SPEEDS			
Bearing Number	A Bore	A Tolerance	B Outside Diameter	B Tolerance	B' Outside Diameter	B' Tolerance +.000	H Height (H Tolerance) + or -.005	Balls No. - Size	Bearing Weight in Lbs.	25 RPM	100 RPM	500 RPM	1500 RPM
25	7/16	+.001 +.003	1-1/8	+.001 -.001	1-7/64	-.015	5/8	12-7/32	.09	1730	1140	700	505
26	5/8	+.001 +.003	1-7/16	+.002 -.002	1-27/64	-.015	11/16	14-1/4	.17	2480	1635	1005	725
27	3/4	+.001 +.003	1-1/2	+.002 -.002	1-31/64	-.015	11/16	17-7/32	.22	2185	1440	890	635
28	3/4	+.001 +.003	1-3/4	+.002 -.002	1-47/64	-.015	11/16	13-5/16	.31	3570	2350	1450	1040
29	13/16	+.001 +.003	1-15/16	+.003 -.003	1-59/64	-.015	13/16	14-5/16	.47	3760	2475	1525	1095
30	11/16	+.001 +.003	1-15/16	+.003 -.003	1-59/64	-.015	13/16	14-5/16	.50	3760	2475	1525	1095
31	15/16	+.001 +.003	2-1/8	+.003 -.003	2-3/32	-.015	3/4	15-5/16	.55	3940	2595	1600	1150
32	1-1/8	+.001 +.003	2-11/32	+.003 -.003	2-5/16	-.015	15/16	15-3/8	.67	5505	3625	2235	1605
33	1-3/16	+.001 +.003	2-11/32	+.003 -.003	2-5/16	-.015	15/16	15-3/8	.66	5505	3625	2235	1605
34	1-5/16	+.001 +.003	2-7/16	+.003 -.003	2-13/32	-.015	15/16	16-3/8	.67	5730	3775	2325	1670
35	1-7/16	+.001 +.003	2-11/16	+.003 -.003	2-21/32	-.015	7/8	17-3/8	.81	5945	3915	2410	1735
36	1-11/16	+.001 +.003	2-11/16	+.003 -.003	2-21/32	-.015	13/16	23-5/16	.63	4910	3235	1995	1430
37	1-13/16	+.001 +.003	2-15/16	+.003 -.003	2-29/32	-.015	15/16	20-3/8	.89	6485	4270	2630	1890
38	1-1/2	+.001 +.003	2-15/16	+.003 -.003	2-29/32	-.015	1-3/16	14-1/2	1.50	8830	5815	3500	2575
39	1-11/16	+.001 +.003	3-1/8	+.003 -.003	3-3/32	-.015	1-1/8	15-1/2	1.28	9255	6095	3755	2825
40	1-15/16	+.001 +.003	3-3/16	+.003 -.003	3-5/32	-.015	1-3/16	19-7/16	1.34	8365	5510	3395	2440
41	2-1/16	+.001 +.003	3-1/4	+.003 -.003	3-7/32	-.015	1	19-7/16	1.13	8365	5510	3395	2440
42	2-3/16	+.001 +.003	3-1/4	+.003 -.003	3-7/32	-.015	1-1/8	23-3/8	2.09	6870	4525	2785	2005
43	2-3/16	+.001 +.003	3-3/4	+.003 -.003	3-23/32	-.015	1-1/4	19-1/2	2.13	10635	7005	4315	3100
44	2-5/16	+.001 +.003	3-15/16	+.003 -.003	3-29/32	-.015	1-1/4	20-1/2	2.31	10900	7180	4425	3175
45	2-7/16	+.001 +.003	3-15/16	+.003 -.003	3-29/32	-.015	1-1/4	20-1/2	2.06	10900	7180	4425	3175
46	2-11/16	+.001 +.003	4-1/2	+.003 -.003	4-15/32	-.015	1-1/2	18-5/8	3.25	15325	10095	6220	4470
47	2-15/16	+.001 +.003	4-1/2	+.003 -.003	4-15/32	-.015	1-1/2	20-19/32	3.00	14780	9740	6000	4310
48	2-13/16	+.001 +.003	4-1/2	+.003 -.003	4-15/32	-.015	1-1/2	18-5/8	3.13	15325	10095	6220	---
49	3-7/16	+.002 +.004	5-3/8	+.003 -.003	5-5/16	-.015	1-1/2	22-5/8	4.25	16860	11105	6840	---
50	3-15/16	+.002 +.004	5-7/8	+.003 -.003	5-13/16	-.015	1-1/2	25-5/8	5.00	17575	11575	7130	---
51	4-7/16	+.003 +.007	6-1/4	+.003 -.003	6-3/16	-.015	1-1/2	27-5/8	5.25	17830	11745	7235	---
52	4-15/16	+.003 +.007	7	+.004 -.004	6-29/32	.031	1-1/2	30-5/8	6.63	17900	11790	7265	---
53	5-7/16	+.003 +.007	7-1/2	+.004 -.004	7-13/32	.031	1 3/4	27-3/4	8.75	24495	16135	9940	---
54	5-15/16	+.003 +.007	8	+.004 -.004	7-29/32	.031	1 3/4	29-3/4	10.00	24600	16205	9985	---

T-170 Auburn Enclosed Style T-170 Ball Thrust Bearing with Spherical Seat and "Auburn" Grooves



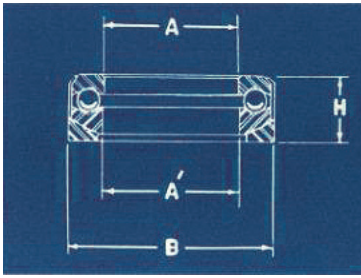
The T-170 Series with spherical seat is recommended for use in exposed locations where protection from foreign matter is required and where an alignment problem between the shaft and the housing exists. It is not recommended where alignment constantly changes. The two washers, balls and aligning washer are held together as a unit by the outside sleeve and compose one complete bearing.

Please note: Part numbers with a grey background indicate items normally stocked in Macedon, NY.

DIMENSIONS IN INCHES

THRUST LOAD CAPACITY IN POUNDS AT VARIOUS SPEEDS

Bearing Number	A Bore	A Tolerance		A' Bore	A' Tolerance -.000	B Outside Diameter	B Tolerance + or -	H Height	H Tolerance + or -	Balls No.- Size	Bearing Weight in lbs.	THRUST LOAD CAPACITY IN POUNDS AT VARIOUS SPEEDS			
												25 RPM	100 RPM	500 RPM	1500 RPM
1/2	1/2	+0.001	+0.003	17/32	+0.015	1-3/16	.015	1/2	.005	17-5/32	.10	1155	760	570	335
1	1/2	+0.001	+0.003	17/32	+0.015	1-1/16	.015	3/4	.005	10-1/4	.16	1930	1275	785	565
2	5/8	+0.001	+0.003	21/32	+0.015	1-3/8	.015	13/16	.005	12-1/4	.22	2225	1465	905	645
3	3/4	+0.001	+0.003	25/32	+0.015	1-1/2	.015	7/8	.005	14-1/4	.26	2480	1635	1005	725
4	7/8	+0.001	+0.003	29/32	+0.015	1-13/16	.015	7/8	.005	13-5/16	.41	3570	2350	1450	1040
5	15/16	+0.001	+0.003	31/32	+0.015	2	.015	1-1/16	.005	12-3/8	.61	4700	3095	1905	1370
6	15/16	+0.001	+0.003	31/32	+0.015	2	.015	7/8	.005	15-5/16	.49	3940	2595	1600	1150
7	1	+0.001	+0.003	1-1/32	+0.015	2	.015	1-1/16	.005	12-3/8	.58	4700	3095	1905	1370
8	1	+0.001	+0.003	1-1/32	+0.015	2	.015	15/16	.005	15-5/16	.51	3940	2595	1600	1150
9	1-1/16	+0.001	+0.003	1-3/32	+0.015	2	.015	15/16	.005	15-5/16	.49	3940	2595	1600	1150
10	1-1/16	+0.001	+0.003	1-3/32	+0.015	2-3/16	.015	1-1/16	.005	13-3/8	.74	4985	3285	2025	1455
11	1-1/8	+0.001	+0.003	1-5/32	+0.015	2-3/16	.015	1-1/8	.005	13-3/8	.78	4985	3285	2025	1455
12	1-3/16	+0.001	+0.003	1-7/32	+0.015	2-3/16	.015	15/16	.005	16-5/16	.60	4100	2700	1665	1195
13	1-1/4	+0.001	+0.003	1-9/32	+0.015	2-3/16	.015	15/16	.005	17-5/16	.56	4250	2800	1725	1240
14	1-3/16	+0.001	+0.003	1-7/32	+0.015	2-13/32	.015	1-3/16	.005	15-3/8	.99	5505	3625	2235	1605
15	1-1/4	+0.001	+0.003	1-9/32	+0.015	2-13/32	.015	1-3/16	.005	15-3/8	.94	5505	3625	2235	1605
16	1-5/16	+0.001	+0.003	1-11/32	+0.015	2-13/32	.015	1-3/16	.005	15-3/8	.92	5505	3625	2235	1605
17	1-5/16	+0.001	+0.003	1-11/32	+0.015	2-13/32	.015	15/16	.005	18-5/16	.73	4395	2895	1785	1280
17A	1-3/8	+0.001	+0.003	1-13/32	+0.015	2-13/32	.015	15/16	.005	19-5/16	.66	4525	2975	1835	1315
18	1-7/16	+0.001	+0.003	1-15/32	+0.015	2-13/32	.015	15/16	.005	19-5/16	.68	4525	2975	1835	1315
19	1-7/16	+0.001	+0.003	1-15/32	+0.015	2-1/2	.015	1-3/16	.005	16-3/8	.92	5730	3775	2325	1670
19A	1-3/8	+0.001	+0.003	1-13/32	+0.015	2-1/2	.015	1-3/16	.005	16-3/8	.99	5730	3775	2325	1670
20	1-7/16	+0.001	+0.003	1-15/32	+0.015	2-19/32	.015	1-3/16	.005	17-3/8	1.04	5945	3915	2410	1735
21	1-1/2	+0.001	+0.003	1-17/32	+0.015	2-19/32	.015	15/16	.005	20-5/16	.77	4630	3050	1875	1350
22	1-1/2	+0.001	+0.003	1-17/32	+0.015	2-19/32	.015	1-3/16	.005	17-3/8	.97	5945	3915	2410	1735
23	1-5/8	+0.001	+0.003	1-21/32	+0.015	2-19/32	.015	15/16	.005	21-5/16	.74	4750	3130	1930	1385
24	1-11/16	+0.001	+0.003	1-23/32	+0.015	2-19/32	.015	15/16	.005	21-5/16	.69	4750	3130	1930	1385
25	1-13/16	+0.001	+0.003	1-27/32	+0.015	2-3/4	.015	7/8	.005	22-5/16	.71	4820	3175	1955	1405
26	1-11/16	+0.001	+0.003	1-23/32	+0.015	2-3/4	.015	1	.005	18-3/8	.89	6140	4045	2490	1790
27	1-7/8	+0.001	+0.003	1-29/32	+0.015	2-3/4	.015	1	.005	23-5/16	.73	4910	3235	1995	1430



T-170 Mounting Instructions

The T-170 Series is generally installed so that the washer having bore A is centered by the shaft and rotates with it. The washer with the sleeve attached to it, and its aligning washer, seat against a fixed part of the machine and are stationary. If installed in a recess, a clearance of one-eighth inch, or more, should be left around outside diameter B, so if the shaft should wear in its journal bearings, the thrust bearing will be free to follow without cramping or wedging the balls.

DIMENSIONS IN INCHES

THRUST LOAD CAPACITY IN POUNDS AT VARIOUS SPEEDS

Bearing Number	A Bore	A Tolerance		A' Bore	A' Tolerance -.000	B Outside Diameter	B Tolerance + or -	H Height	H Tolerance + or -	Balls No.-Size	Bearing Weight in lbs.	THRUST LOAD CAPACITY IN POUNDS AT VARIOUS SPEEDS			
		+	-									25 RPM	100 RPM	500 RPM	1500 RPM
28	1-9/16	+.001	+.003	1-19/32	+.015	2-3/4	.015	1-1/4	.005	15-7/16	1.23	7280	4795	2955	2120
29	1-5/8	+.001	+.003	1-21/32	+.015	3	.015	1-1/2	.005	14-1/2	1.75	8830	5815	3580	2575
30	1-15/16	+.001	+.003	1-31/32	+.015	3	.015	1-1/16	.005	20-3/8	1.04	6485	4270	2630	1890
31	2	+.001	+.003	2-1/32	+.015	3	.015	1-1/16	.005	20-3/8	1.00	6485	4270	2630	1890
32	1-11/16	+.001	+.003	1-23/32	+.015	3-3/16	.015	1-7/16	.005	15-1/2	1.95	9255	6095	3755	2825
33	2-3/16	+.001	+.003	2-7/32	+.015	3-3/16	.015	1	.005	26-5/16	1.01	5070	3340	2060	1480
34	1-3/4	+.001	+.003	1-25/32	+.015	3-3/16	.015	1-7/16	.005	15-1/2	1.84	9255	6095	3755	2825
35	2-1/4	+.001	+.003	2-9/32	+.015	3-1/4	.015	1-1/16	.005	22-3/8	1.11	6755	4450	2740	1970
36	2-5/16	+.001	+.003	2-11/32	+.015	3-1/4	.015	1	.005	28-5/16	1.00	5130	3380	2085	1495
37	1-15/16	+.001	+.003	1-31/32	+.015	3-1/4	.015	1-1/2	.005	16-1/2	1.92	9640	6350	3910	2810
38	2	+.001	+.003	2-1/32	+.015	3-1/4	.015	1-1/2	.005	16-1/2	1.80	9640	6350	3910	2810
39	2-3/16	+.001	+.003	2-7/32	+.015	3-7/8	.015	1-9/16	.005	19-1/2	2.96	10635	7005	4315	3100
40	2-1/4	+.001	+.003	2-9/32	+.015	3-7/8	.015	1-9/16	.005	19-1/2	2.82	10635	7005	4315	3100
41	2-7/16	+.001	+.003	2-15/32	+.015	4	.015	1-5/8	.005	20-1/2	3.03	10900	7180	4425	3175
41A	1-15/16	+.001	+.003	1-31/32	+.015	4	.015	2	.005	13-11/16	4.62	14690	9675	5960	4280
42	2-1/2	+.001	+.003	2-17/32	+.015	4	.015	1-5/8	.005	20-1/2	2.95	10900	7180	4425	3175
43	2-15/16	+.001	+.003	2-31/32	+.015	4-5/8	.015	1-7/8	.005	19-5/8	4.51	15780	10395	6405	4600
43A	2-3/4	+.001	+.003	2-25/32	+.015	4-5/8	.015	1-7/8	.005	19-5/8	4.66	15780	10395	6405	4600
44	3	+.001	+.003	3-1/32	+.015	4-5/8	.015	1-7/8	.005	19-5/8	4.42	15780	10395	6405	4600
45	3	+.001	+.003	3-1/32	+.015	4-5/8	.015	1-3/8	.005	27-7/16	3.30	9460	6230	3840	2755
46	2-7/16	+.001	+.003	2-15/32	+.015	4-5/8	.015	2-1/16	.005	16-11/16	6.11	16875	11115	6845	4920
47	3-7/16	+.002	+.004	3-15/32	+.015	5	.031	1-3/8	.005	30-7/16	3.58	9490	6250	3850	
48	2-3/16	+.001	+.003	2-7/32	+.015	5	.031	2-7/8	.005	11-1	11.29	24490	16130	9935	---
49	4-1/2	+.003	+.007	4-9/16	+.015	6-1/4	.031	1-7/8	.005	30-9/16	6.56	14860	9790	6030	---
50	3-7/16	+.002	+.004	3-15/32	+.015	6-1/4	.031	2-5/8	.005	18-7/8	13.97	27300	17985	11080	---
51	3	+.001	+.003	3-1/32	+.015	6-1/4	.031	3-5/8	.005	11-1 1/4	22.49	35110	23135	14245	---
52	4	+.002	+.004	4-1/32	+.015	6-7/8	.031	2-5/8	.005	20-7/8	16.12	28840	18990	11700	---
53	4-7/16	+.003	+.007	4-1/2	+.015	6-7/8	.031	2-7/8	.005	20-7/8	16.67	28840	18990	11700	---
54	5	+.003	+.007	5-1/16	+.015	7	.031	1-3/4	.005	37-1/2	7.71	11135	7335	4520	---
56	6-1/2	+.010	+.015	6-9/16	+.015	8-3/4	.031	2	.005	37-5/8	13.95	16540	10895	6710	---

T-101 Auburn Open Style T-101 Ball Thrust Bearing



The T-101 Series is designed to offer the best possible use of limited bearing space. The T-101 consists of two hardened steel races with a full complement of balls. When preloaded and installed to be held by the outside diameter B, the "V" grooved raceways enable this series to carry radial loads equal to 25% of its thrust load capacity. This decreases the amount of friction created by a full contact round groove design. The open style design of this bearing will allow maximum circulation of lubricating products.

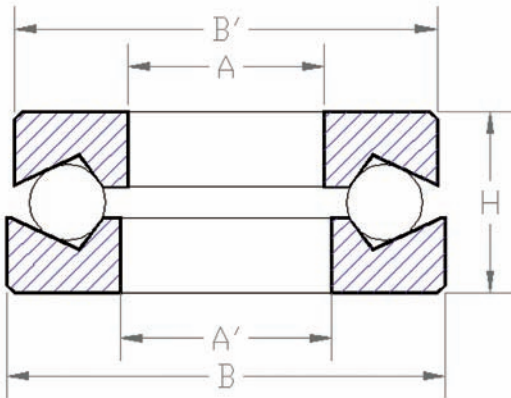
Please note: Part numbers with a grey background indicate items normally stocked in Macedon, NY.

Light Type

DIMENSIONS IN INCHES

THRUST LOAD CAPACITY IN LBS. AT VARIOUS SPEEDS

Bearing Number	A Bore	A Tolerance	A' Bore (A' Tolerance) -.000 + .015	B Outside Diameter	B Tolerance	B' Outside Diameter	B' Tolerance +.000	H Height (Height Tolerance) + or -.005	Balls No. - Size	Bearing Weight in Lbs.	THRUST LOAD CAPACITY IN LBS. AT VARIOUS SPEEDS			
											25 RPM	100 RPM	500 RPM	1500 RPM
1	1/2	+0.001 +0.003	17/32	1-1/8	+0.001 -0.001	1-7/64	-0.015	5/8	10-1/4	.11	1930	1275	785	565
2	5/8	+0.001 +0.003	21/32	1-5/16	+0.001 -0.001	1-19/64	-0.015	5/8	12-1/4	.16	2225	1465	905	645
3	3/4	+0.001 +0.003	25/32	1-7/16	+0.002 -0.002	1-27/64	-0.015	11/16	14-1/4	.19	2480	1635	1005	725
4	7/8	+0.001 +0.003	29/32	1-1/2	+0.002 -0.002	1-31/64	-0.015	11/16	14-1/4	.19	2480	1635	1005	725
5	7/8	+0.001 +0.003	29/32	1-3/4	+0.002 -0.002	1-47/64	-0.015	11/16	13-5/16	.20	3570	2350	1450	1040
6	15/16	+0.001 +0.003	31/32	1-15/16	+0.003 -0.003	1-59/64	-0.015	13/16	12-3/8	.31	4700	3095	1905	1370
7	1	+0.001 +0.003	1-1/32	1-15/16	+0.003 -0.003	1-59/64	-0.015	13/16	12-3/8	.39	4700	3095	1905	1370
8	1-1/16	+0.001 +0.003	1-3/32	1-15/16	+0.003 -0.003	1-59/64	-0.015	3/4	15-5/16	.36	3940	2595	1600	1150
9	1-1/16	+0.001 +0.003	1-3/32	2-1/8	+0.003 -0.003	2-3/32	-0.015	3/4	16-5/16	.44	4100	2700	1665	1195
10	1-1/8	+0.001 +0.003	1-5/32	2-1/8	+0.003 -0.003	2-3/32	-0.015	13/16	13-3/8	.45	4985	3285	2025	1455
11	1-1/4	+0.001 +0.003	1-9/32	2-11/32	+0.003 -0.003	2-5/16	-0.015	15/16	15-3/8	.63	5505	3625	2235	1605
13	1-7/16	+0.001 +0.003	1-15/32	2-7/16	+0.003 -0.003	2-13/32	-0.015	15/16	16-3/8	.67	5730	3775	2325	1670
15	1-1/2	+0.001 +0.003	1-17/32	2-17/32	+0.003 -0.003	2-1/2	-0.015	15/16	17-3/8	.69	5945	3915	2410	1735
16	1-11/16	+0.001 +0.003	1-23/32	2-11/16	+0.003 -0.003	2-21/32	-0.015	13/16	18-3/8	1.70	6140	4045	2490	1790
19	1-13/16	+0.001 +0.003	1-27/32	2-15/16	+0.003 -0.003	2-29/32	-0.015	15/16	19-3/8	.98	6315	4160	2565	1840
21	1-11/16	+0.001 +0.003	1-23/32	3-1/8	+0.003 -0.003	3-3/32	-0.015	1-1/8	15-1/2	1.41	9255	6095	3755	2825
22	1-13/16	+0.001 +0.003	1-27/32	3-1/8	+0.003 -0.003	3-3/32	-0.015	1-1/8	15-1/2	1.31	9255	6095	3755	2825
23	1-7/8	+0.001 +0.003	1-29/32	3-1/8	+0.003 -0.003	3-3/32	-0.015	1-13/16	15-1/2	1.38	9255	6095	3755	2825
24	1-15/16	+0.001 +0.003	1-31/32	2-15/16	+0.003 -0.003	2-29/32	-0.015	1	20-3/8	.91	6485	4270	2630	1890
25	1-15/16	+0.001 +0.003	1-31/32	3-3/16	+0.003 -0.003	3-5/32	-0.015	1-3/16	15-1/2	1.31	9255	6095	3755	2825
26	2	+0.001 +0.003	2-1/32	3-3/16	+0.003 -0.003	3-5/32	-0.015	1-3/16	18-7/16	1.25	8130	5355	3300	2370
27	2-1/16	+0.001 +0.003	2-3/32	3-3/16	+0.003 -0.003	3-5/32	-0.015	1-1/8	18-7/16	1.34	8130	5355	3300	2370
28	2-3/16	+0.001 +0.003	2-7/32	3-1/4	+0.003 -0.003	3-7/32	-0.015	1	22-3/8	1.06	6755	4450	2740	1970



T-101 Mounting Instructions

The T-101 Series is generally installed with the fitted bore A centered on the shaft and rotating with it. The clearance bore A' seats against a fixed part of the machine and remains stationary. If installed in a recess, a clearance of one eighth of an inch, or more, should be left around outside diameter B and B', in case the shaft wears in it's journal bearings. If this should happen the clearance allowed on the outside diameter will prevent the balls from wedging. When used to carry a combination radial and thrust load, diameter B requires a snug fit in the housing.

Bearing Number	DIMENSIONS IN INCHES										THRUST LOAD CAPACITY IN LBS. AT VARIOUS SPEEDS			
	A Bore	A Tolerance	A' Bore (A' Tolerance) -.000 +.015	B Outside Diameter	B Tolerance	B' Outside Diameter	B' Tolerance +.000	H Height (Height Tolerance) + or -.005	Balls No. - Size	Bearing Weight in Lbs.	25 RPM	100 RPM	500 RPM	1500 RPM
30	1- ¹⁵ / ₁₆	+.001 +.003	1- ³¹ / ₃₂	3- ⁷ / ₁₆	+.003 -.003	3- ¹³ / ₃₂	-.015	1- ¹ / ₄	16- ¹ / ₂	1.41	9640	6350	3910	2810
31	2- ⁷ / ₁₆	+.001 +.003	2- ¹⁵ / ₃₂	3- ¹ / ₂	+.003 -.003	3- ¹⁵ / ₃₂	-.015	1- ¹ / ₈	21- ⁷ / ₁₆	1.31	8775	5780	3560	2560
32	2- ¹ / ₂	+.001 +.003	2- ¹⁷ / ₃₂	3- ¹ / ₂	+.003 -.003	3- ¹⁵ / ₃₂	-.015	1- ¹ / ₄	21- ⁷ / ₁₆	1.38	8775	5780	3560	2560
33	2- ⁵ / ₁₆	+.001 +.003	2- ¹¹ / ₃₂	3- ⁵ / ₈	+.003 -.003	3- ¹⁹ / ₃₂	-.015	1- ¹ / ₄	19- ¹ / ₂	1.47	10635	7005	4315	3100
34	2- ¹ / ₈	+.001 +.003	2- ⁵ / ₃₂	3- ²³ / ₃₂	+.003 -.003	3- ¹¹ / ₁₆	-.015	¹³ / ₁₆	29- ⁵ / ₁₆	1.03	5130	3380	2080	1495
38	2- ¹³ / ₁₆	+.001 +.003	2- ²⁷ / ₃₂	4- ¹ / ₂	+.003 -.003	4- ¹⁵ / ₃₂	-.015	1- ¹ / ₂	18- ⁵ / ₈	3.13	15325	10095	6220	4470
40	3- ³ / ₁₆	+.002 +.004	3- ⁷ / ₃₂	5- ³ / ₈	+.003 -.003	5- ⁵ / ₁₆	-.015	1- ¹ / ₂	19- ¹¹ / ₁₆	4.50	18630	12270	7560	---
41	3- ⁷ / ₁₆	+.002 +.004	3- ¹⁵ / ₃₂	5- ¹ / ₂	+.003 -.003	5- ⁷ / ₁₆	-.015	1- ¹ / ₂	20- ¹¹ / ₁₆	4.25	19085	12570	7745	---
42	4- ¹ / ₈	+.003 +.007	4- ³ / ₁₆	5- ⁷ / ₈	+.003 -.003	5- ¹³ / ₁₆	-.015	1- ¹ / ₂	25- ⁵ / ₈	4.75	17575	11575	7130	---
44	5- ¹ / ₈	+.003 +.007	5- ³ / ₁₆	7	+.004 -.004	6- ²⁹ / ₃₂	-.031	1- ¹ / ₂	30- ⁵ / ₈	6.25	17900	11790	7265	---
Heavy Type														
48	1- ¹ / ₁₆	+.001 +.003	1- ³ / ₃₂	2- ⁷ / ₁₆	+.003 -.003	2- ¹³ / ₃₂	-.015	1	12- ⁷ / ₁₆	.88	6225	4100	2525	1900
49	1- ⁵ / ₁₆	+.001 +.003	1- ¹¹ / ₃₂	2- ¹¹ / ₁₆	+.003 -.003	2- ²¹ / ₃₂	-.015	1- ¹ / ₈	12- ¹ / ₂	1.03	7910	5210	3210	2305
50	1- ⁹ / ₁₆	+.001 +.003	1- ¹⁹ / ₃₂	2- ¹⁵ / ₁₆	+.003 -.003	2- ²⁹ / ₃₂	-.015	1- ³ / ₁₆	14- ¹ / ₂	1.31	8830	5815	3580	2575
51	1- ¹³ / ₁₆	+.001 +.003	1- ²⁷ / ₃₂	3- ³ / ₁₆	+.003 -.003	3- ⁵ / ₃₂	-.015	1- ¹ / ₈	15- ¹ / ₂	1.44	9255	6095	3755	2825
52	2- ¹ / ₈	+.001 +.003	2- ⁵ / ₃₂	3- ³ / ₄	+.003 -.003	3- ²³ / ₃₂	-.015	1- ¹ / ₄	19- ¹ / ₂	2.19	10635	7005	4315	3100
53	2- ⁷ / ₁₆	+.001 +.003	2- ¹⁵ / ₃₂	3- ¹⁵ / ₁₆	+.003 -.003	3- ²⁹ / ₃₂	-.015	1- ¹ / ₂	16- ⁵ / ₈	2.59	14285	9410	5795	4165
57	3- ⁷ / ₁₆	+.002 +.004	3- ¹⁵ / ₃₂	5- ¹ / ₂	+.003 -.003	5- ⁷ / ₁₆	-.015	1- ³ / ₄	18- ³ / ₄	5.75	21005	13835	8525	---
62	4- ¹¹ / ₁₆	+.003 +.007	4- ³ / ₄	7- ¹ / ₄	+.004 -.004	7- ⁵ / ₃₂	-.031	2- ³ / ₈	19-1	13.75	35170	23165	14270	---
63	4- ¹⁵ / ₁₆	+.003 +.007	5	7- ¹ / ₂	+.004 -.004	7- ¹³ / ₃₂	-.031	2- ³ / ₈	19-1	13.75	35170	23165	14270	---
67	5- ¹⁵ / ₁₆	+.003 +.007	6	9- ¹ / ₄	+.005 -.005	9- ¹ / ₈	-.031	3	19-1 ¹ / ₄	26.00	50420	33210	20460	---

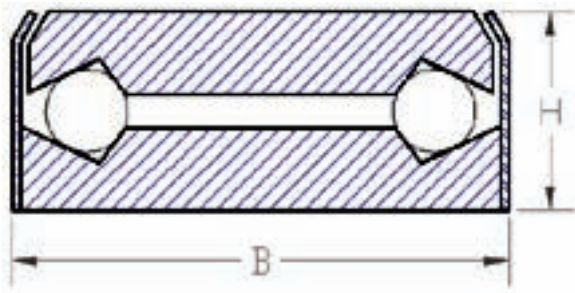
SC-100 Auburn Totally Enclosed Style SC-100 Ball Thrust Bearing



The SC-100 Series is recommended for use in exposed locations where protection from foreign matter is required. The one piece design answers the need for an easily installed bearing that requires a minimum of machine work. The balls are retained between two hardened steel races which are banded together by a mild steel or brass sleeve on the outside diameter. The "V" grooved raceway design creates less friction than a full contact round groove design.

Please note: Part numbers with a grey background indicate items normally stocked in Macedon, NY.

DIMENSIONS IN INCHES							THRUST LOAD CAPACITY IN POUNDS AT VARIOUS SPEEDS							
Bearing Number	B Outside Diameter	B Tolerance + .000	H Height	H Tolerance + or -	Balls No. - Size	Bearing Weight in Lbs.	25 RPM	50 RPM	100 RPM	200 RPM	300 RPM	500 RPM	1000 RPM	15000 RPM
SC-00	$1\frac{1}{16}$	-.002	$\frac{5}{16}$	.005	12- $\frac{1}{8}$	.06	600	485	395	320	285	245	200	175
SC-0	$\frac{3}{4}$	-.002	$\frac{5}{16}$	.005	13- $\frac{1}{8}$	.08	630	515	415	340	300	260	210	185
SC- $\frac{3}{8}$	1- $\frac{13}{16}$	-.003	$\frac{1}{2}$	.005	12- $\frac{7}{32}$	.16	1730	1405	1140	925	820	700	570	505
SC- $\frac{1}{2}$	1- $\frac{3}{16}$	-.003	$\frac{3}{8}$	.005	17- $\frac{5}{32}$	.12	1155	935	760	615	545	470	380	335
SC-1	1- $\frac{3}{16}$	-.003	$\frac{5}{8}$	.005	10- $\frac{1}{4}$	.26	1930	1570	1275	1035	915	785	635	565
SC-2	1- $\frac{3}{8}$	-.003	$\frac{5}{8}$	.005	12- $\frac{1}{4}$	.28	2225	1805	1465	1190	1050	905	735	645
SC-3	1- $\frac{1}{2}$	-.004	$1\frac{1}{16}$	.005	14- $\frac{3}{4}$	.33	2480	2015	1635	1325	1175	1005	820	725
SC-4	1- $\frac{13}{16}$	-.005	$1\frac{1}{16}$	.005	13- $\frac{5}{16}$	.58	3570	2895	2350	1905	1690	1450	1175	1040
SC-5	2	-.005	$1\frac{3}{16}$	.005	12- $\frac{3}{8}$	.73	4700	3815	3095	2510	2225	1905	1550	1370
SC-6	2	-.005	$1\frac{1}{16}$	.005	15- $\frac{5}{16}$	.60	3940	3195	2595	2105	1865	1600	1300	1150
SC-10	2- $\frac{3}{16}$	-.006	$1\frac{3}{16}$	.005	13- $\frac{3}{8}$	.85	4985	4045	3285	2665	2360	2025	1645	1455
SC-11	2- $\frac{3}{16}$	-.006	$1\frac{5}{16}$	.005	13- $\frac{3}{8}$	.95	4985	4045	3285	2665	2360	2025	1645	1455
SC-12	2- $\frac{3}{16}$	-.006	$1\frac{1}{16}$	.005	16- $\frac{5}{16}$	.66	4100	3325	2700	2190	1940	1665	1350	1195
SC-13	2- $\frac{3}{16}$	-.006	$1\frac{1}{16}$	.005	17- $\frac{5}{16}$	.68	4250	3450	2800	2275	2010	1725	1400	1240
SC-14	2- $\frac{13}{32}$	-.006	$1\frac{5}{16}$	.005	15- $\frac{3}{8}$	1.11	5505	4465	3625	2940	2605	2235	1815	1605
SC-17	2- $\frac{13}{32}$	-.006	$1\frac{1}{16}$	.005	18- $\frac{5}{16}$	.76	4395	3565	2895	2350	2080	1785	1450	1280
SC-18	2- $\frac{13}{32}$	-.006	$1\frac{1}{16}$	.005	19- $\frac{5}{16}$	.78	4525	3665	2975	2415	2135	1835	1485	1315
SC-19	2- $\frac{1}{2}$	-.006	$1\frac{5}{16}$	.005	16- $\frac{3}{8}$	1.27	5730	4650	3775	3065	2710	2325	1890	1670
SC-20	2- $\frac{19}{32}$	-.007	$1\frac{5}{16}$	.005	17- $\frac{3}{8}$	1.35	5945	4825	3915	3180	2815	2410	1960	1735
SC-21	2- $\frac{19}{32}$	-.007	$1\frac{1}{16}$	.005	20- $\frac{5}{16}$	.67	4630	3750	3050	2475	2190	1875	1525	1350
SC-24	2- $\frac{19}{32}$	-.007	$1\frac{1}{16}$	.005	21- $\frac{5}{16}$	.69	4750	3855	3130	2540	2250	1930	1565	1385
SC-25	2- $\frac{3}{4}$	-.007	$1\frac{1}{16}$	.005	22- $\frac{5}{16}$	.99	4820	3910	3175	2575	2280	1955	1590	1405
SC-26	2- $\frac{3}{4}$	-.007	$1\frac{3}{16}$	.005	18- $\frac{3}{8}$	1.33	6140	4985	4045	3285	2905	2490	2025	1790
SC-27	2- $\frac{3}{4}$	-.007	$1\frac{3}{16}$	.005	23- $\frac{5}{16}$	1.21	4910	3985	3235	2625	2325	1995	1620	1430



SC-100 Series Mounting Instructions

The SC-100 Series is generally installed so that the race with the sleeve attached to it seats against a fixed part of the machine and is stationary.

DIMENSIONS IN INCHES							THRUST LOAD CAPACITY IN POUNDS AT VARIOUS SPEEDS							
Bearing Number	B Outside Diameter	B Tolerance + .000	H Height	H Tolerance + or -	Balls No. - Size	Bearing Weight in Lbs.	25 RPM	50 RPM	100 RPM	200 RPM	300 RPM	500 RPM	1000 RPM	15000 RPM
SC-28	2- ³ / ₄	-.007	1	.005	15- ⁷ / ₁₆	1.51	7280	5910	4795	3890	3365	2955	2400	2120
SC-29	3	-.008	1- ³ / ₁₆	.005	14- ¹ / ₂	3.34	8830	7165	5815	4720	4180	3580	2910	2575
SC-30	3	-.008	¹³ / ₁₆	.005	20- ³ / ₈	1.42	6485	5260	4270	3465	3070	2630	2135	1890
SC-32	3- ³ / ₁₆	-.008	1- ¹ / ₈	.005	15- ¹ / ₂	2.15	9255	7510	6095	4945	4380	3755	3050	2825
SC-33	3- ³ / ₁₆	-.008	¹³ / ₁₆	.005	26- ⁵ / ₁₆	1.70	5070	4115	3340	2710	2400	2060	1670	1480
SC-35	3- ¹ / ₄	-.008	¹³ / ₁₆	.005	22- ³ / ₈	2.33	6755	5485	4450	3610	3195	2740	2225	1970
SC-36	3- ¹ / ₄	-.008	¹³ / ₁₆	.005	28- ⁵ / ₁₆	2.20	5130	4165	3380	2745	2430	2085	1690	1495
SC-37	3- ¹ / ₄	-.008	1- ³ / ₁₆	.005	16- ¹ / ₂	2.58	9640	7825	6350	5155	4560	3910	3175	2810
SC-39	3- ⁷ / ₈	-.010	1- ¹ / ₄	.005	19- ¹ / ₂	3.67	10635	8630	7005	5685	5030	4315	3505	3100
SC-41	4	-.010	1- ¹ / ₄	.005	20- ¹ / ₂	3.79	10900	8845	7180	5830	5160	4425	3590	3175
SC-41A	4	-.010	1- ⁵ / ₈	.005	13- ¹¹ / ₁₆	5.00	14690	11920	9675	7855	6950	5960	4840	4280
SC-43	4- ⁵ / ₈	-.010	1- ¹ / ₂	.005	19- ⁵ / ₈	5.95	15780	12805	10395	8435	7470	6405	5200	4600
SC-45	4- ⁵ / ₈	-.010	1	.005	27- ⁷ / ₁₆	4.52	9460	7675	6230	5055	4475	3840	3115	2755
SC-46	4- ⁵ / ₈	-.010	1- ⁵ / ₈	.005	16- ¹¹ / ₁₆	7.05	16875	13695	11115	9020	7985	6845	5560	4920
SC-47	5	-.010	1	.005	30- ⁷ / ₁₆	4.60	9490	7700	6250	5075	4490	3850	3125	-
SC-48	5	-.010	2- ¹ / ₄	.005	11 - 1	10.66	24490	19870	16130	13090	11590	9935	8065	-

SC-114-RG Auburn Totally Enclosed Style SC-114-RG Ball Thrust Bearing



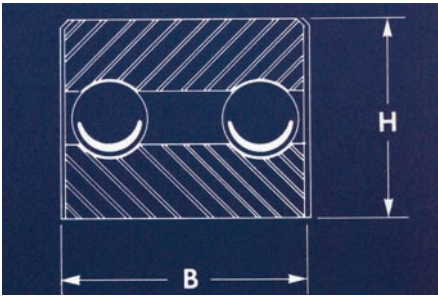
The SC-114-RG Series is recommended for use in exposed locations where protection from foreign matter is required. The one piece design answers the need for an easily installed bearing requiring a minimum of machine work. The balls are retained between two hardened steel races banded together by a mild steel or brass sleeve on the outside diameter. The round grooved raceways, combined with thick race sections, provide unusual capacity and life for its overall size.

The small pitch diameter of the ball grooves for a given shaft diameter, and the large diameter balls give a relatively low peripheral ball speed.

SC-114-RG Mounting Instructions

The SC-114-RG Series is generally installed so that the race with the sleeve attached to it seats against a fixed part of the machine and is stationary.

Please note: Part numbers with a grey background indicate items normally stocked in Macedon, NY.



Bearing Number	DIMENSIONS IN INCHES						THRUST LOAD CAPACITY IN POUNDS AT VARIOUS SPEEDS							
	B Outside Diameter	B Tolerance +.000	H Height	H Tolerance + or -	Balls No. - Size	Bearing Weight in Lb.s	5 RPM	25 RPM	50 RPM	100 RPM	300 RPM	500 RPM	1000 RPM	1500 RPM
SC-0010	$5/8$	-.002	$7/16$	.005	$6-5/32$	.02	840	515	420	340	245	210	170	150
SC-0011	$11/16$	-.002	$1/2$	.005	$6-3/16$	.05	1185	730	590	480	345	295	240	210
SC-0012	$3/4$	-.002	$9/16$	.005	$5-7/32$	.06	1345	825	670	545	390	335	275	240
SC-0013	$13/16$	-.002	$5/8$	.005	$5-1/4$	.08	1735	1070	870	705	505	435	355	310
SC-0014	$7/8$	-.002	$11/16$	.005	$6-1/4$	.11	2035	1250	1015	825	590	510	415	365
SC-0015	$15/16$	-.002	$3/4$	.005	$5-9/32$	.12	2155	1330	1080	875	630	540	440	385
SC-1000	1	-.003	$3/4$	.005	$6-9/32$	.14	2540	1565	1270	1030	740	635	515	455
SC-1001	$1-1/16$	-.003	$7/8$	.005	$5-11/32$	.19	3115	1920	1560	1265	910	780	635	560
SC-1002	$1-1/8$	-.003	$7/8$	.005	$5-11/32$	.25	3115	1920	1560	1265	910	780	635	560
SC-1003	$1-3/16$	-.003	$15/16$	.005	$5-3/8$	.26	3660	2255	1830	1485	1065	915	750	660
SC-1007	$1-7/16$	-.004	$1-3/16$	.005	$6-13/32$	.46	4990	3075	2495	2025	1455	1250	1015	890
SC-1011	$1-11/16$	-.004	$1-1/4$	.005	$5-9/16$	.69	7590	4675	3795	3080	2215	1900	1540	1365
SC-1015	$1-15/16$	-.005	$1-5/16$	.005	$5-5/8$	.92	9140	5630	4570	3710	2665	2285	1855	1645
SC-2003	$2-3/16$	-.006	$1-11/16$	.005	$5-3/4$	1.66	12540	7725	6270	5090	3655	3135	2545	2255
SC-2007	$2-7/16$	-.006	$1-7/8$	.005	$5-13/16$	2.24	14380	8855	7190	5835	4190	3595	2920	2580
SC-2012	$2-3/4$	-.007	$2-1/4$	.005	$6-27/32$	3.26	18050	11120	9025	7325	5260	4510	3665	3245
SC-2015	$2-15/16$	-.008	$2-1/2$	.005	5 - 1	3.65	20400	12570	10200	8280	5950	5100	4140	3665
SC-3003	$3-3/16$	-.008	$2-5/8$	.005	5 - $1-1/16$	5.46	22520	13875	11260	9140	6565	5630	4570	4045
SC-3007	$3-7/16$	-.009	$2-13/16$	.005	6 - $1-1/16$	6.25	26540	16350	13270	10770	7735	6635	5385	4770
SC-3015	$3-15/16$	-.010	$2-3/4$	.005	6 - $1-1/4$	8.41	34570	21295	17235	14030	10080	8645	7015	6210

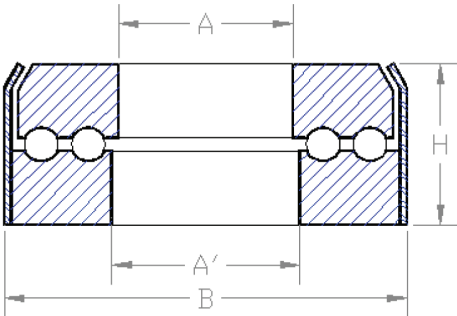
Auburn Totally Enclosed Style T-200-RG, Double Grooved Ball Thrust Bearing T-200-RG



The T-200-RG Series is recommended for use where maximum carrying capacity is desired but where there are height limitations. The balls are retained between two hardened steel races banded together by a mild steel or brass sleeve on the outside diameter. The double grooved raceways provide increased capacity without increasing the overall height of the bearing.

T-200-RG Mounting Instructions

The T-200-RG Series is generally installed with the fitted bore A, centered on the shaft and rotating with it; the clearance bore A' (the race with the sleeve attached to it) seats against a fixed part of the machine and remains stationary. If installed in a recess, a clearance of one eighth of an inch, or more should be left around the outside diameter B, in case the shaft wears in its journal bearings. If this should happen, the clearance allowed on the outside diameter will prevent the balls from wedging.



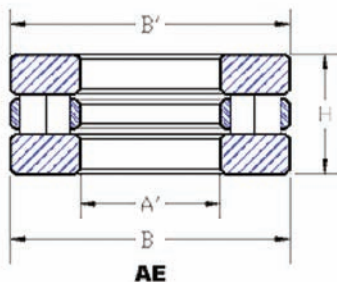
Please note: Part numbers with a grey background indicate items normally stocked in Macedon, NY.

Bearing Number	DIMENSIONS IN INCHES										THRUST LOAD CAPACITY IN POUNDS AT VARIOUS SPEEDS				
	A Bore	A Tolerance	A' Bore	A' Tolerance -.000	B Outside Diameter	B Tolerance + or -	H Height	H Tolerance + or -	Balls No. - Size	Bearing Weight in Lbs.	5 RPM	25 RPM	100 RPM	300 RPM	500 RPM
DD-1	1	+0.001 +.003	1 ^{-3/32}	+0.015	3 ^{-1/4}	.015	7/8	.005	34 ^{-3/8}	1.45	16015	9865	6500	4670	4005
DD-2	1 ^{-1/2}	+0.001 +.003	1 ^{-17/32}	+0.015	4	.015	1	.005	38 ^{-7/16}	2.58	22580	13910	9165	6580	5645
DD-3	2	+0.001 +.003	2 ^{-1/32}	+0.015	4 ^{-7/8}	.031	1 ^{-1/8}	.005	42 ^{-1/2}	4.10	30120	18555	12225	8780	7530
DD-4	2 ^{-1/2}	+0.001 +.003	2 ^{-17/32}	+0.015	5 ^{-3/4}	.031	1 ^{-1/4}	.005	44 ^{-9/16}	6.06	37860	23320	15365	11035	9460
DD-5	3	+0.001 +.003	3 ^{-1/32}	+0.015	6 ^{-3/4}	.031	1 ^{-3/8}	.005	48 ^{-5/8}	8.83	47000	28950	19075	13700	11750
DD-6	3 ^{-1/2}	+0.002 +.004	3 ^{-17/32}	+0.015	7 ^{-3/4}	.031	1 ^{-1/2}	.005	50 ^{-11/16}	12.30	56115	34570	22775	16360	14025
DD-7	4	+0.002 +.004	4 ^{-1/32}	+0.015	8 ^{-3/4}	.031	1 ^{-5/8}	.005	52 ^{-3/4}	16.69	65750	40505	26685	19170	16435
DD-8	4 ^{-1/2}	+0.003 +.007	4 ^{-9/16}	+0.015	9 ^{-1/2}	.031	1 ^{-3/4}	.005	52 ^{-13/16}	20.64	75570	46550	30670	22030	18910
DD-9	5	+0.003 +.007	5 ^{-1/16}	+0.015	10 ^{-1/4}	.031	1 ^{-7/8}	.005	52 ^{-7/8}	26.47	85475	52655	34690	24920	21365
DD-10	5 ^{-1/2}	+0.003 +.007	5 ^{-9/16}	+0.015	11 ^{-1/4}	.031	2 ^{-1/4}	.005	51 - 1	36.96	106915	65860	43390	31170	26725
DD-11	6	+0.003 +.007	6 ^{-1/16}	+0.015	12 ^{-1/2}	.031	2 ^{-1/2}	.005	51 - 1 ^{1/8}	52.51	129585	79825	52590	37780	32395
DD-12	6 ^{-1/2}	+0.010 +.015	6 ^{-9/16}	+0.015	13 ^{-3/4}	.031	2 ^{-3/4}	.005	51 - 1 ^{1/4}	72.21	153140	94335	62150	44645	38285
402	2	+0.001 +.003	2 ^{-1/32}	+0.015	4 ^{-1/8}	.015	1 ^{3/16}	.005	50 ^{-3/8}	1.85	19035	11725	7725	5550	4760
504	2 ^{-1/4}	+0.001 +.003	2 ^{-9/32}	+0.015	5 ^{-1/4}	.031	1	.005	52 ^{-7/16}	4.10	25145	15490	10205	7330	6290
508	2 ^{-1/2}	+0.001 +.003	2 ^{-17/32}	+0.015	5 ^{-1/2}	.031	1	.005	66 ^{-3/8}	3.55	18840	11605	7645	5490	4710
508F	3 ^{-11/16}	+0.002 +.004	3 ^{-23/32}	+0.015	5 ^{-1/2}	.031	1	.005	75 ^{-3/8}	3.16	17790	10960	7225	5185	4450
600	2 ^{-1/2}	+0.001 +.003	2 ^{-17/32}	+0.015	6	.031	1 ^{-7/8}	.005	37 ^{-11/16}	10.39	49825	30690	20220	14525	12445
1204	5 ^{-1/2}	+0.003 +.007	5 ^{-9/16}	+0.015	12 ^{-1/4}	.031	2 ^{-1/2}	.005	48 ^{-11/8}	55.60	126990	78225	51535	37025	31695



AE Auburn Open Style AE Roller Thrust Bearing

The AE Series is suitable for applications where space is limited and bearings of heavy load carrying capacity are required. Because they have a larger contact area, the roller series offers increased load capacity and greater shock absorption than ball bearings with similar dimensions. The AE bearing consists of three pieces: a bronze retainer with hardened steel rollers and two hardened steel, ground finished races. The SAE 660 bronze retainer that separates and retains the rollers is well suited for applications where lack of lubrication or contamination prohibit using stamped out or plastic retainers.



AE Mounting Instructions

The AE bearing series is designed to allow a slip fit of the races and retainer. The inside diameters A and A' and outside diameters B and B', of each of the washers is identical, making them interchangeable. The inside diameter of the retainer and washers is designed to be installed with a slip fit on the shaft. The outside diameters B and B' of the washers

Please note: Part numbers with a grey background indicate items normally stocked in Macedon, NY.

DIMENSIONS IN INCHES

THRUST LOAD CAPACITY IN POUNDS AT VARIOUS SPEEDS

Bearing Number	DIMENSIONS IN INCHES							THRUST LOAD CAPACITY IN POUNDS AT VARIOUS SPEEDS				
	A Bore (A Tolerance) +.003 +.005	A' Bore (A' Tolerance) +.003 +.005	B Outside Diameter (B Tolerance) +.000 - .003	B' Outside Diameter (B' Tolerance) +.000 - .003	H Height (Height Tolerance) + or - .005	Diameter of Rollers	Bearing Weight in Lbs.	10 RPM	25 RPM	100 RPM	500 RPM	1500 RPM
AE 18	7/8	7/8	1-27/32	1-27/32	5/8	1/4	.25	6674	4882	3090	1823	1436
AE 19	15/16	15/16	1-27/32	1-27/32	5/8	1/4	.25	5940	4345	2750	1622	1279
AE 20	1	1	1-31/32	1-31/32	5/8	1/4	.37	7344	5372	3400	2006	1581
AE 21	1-1/16	1-1/16	1-31/32	1-31/32	5/8	1/4	.37	6534	4779	3025	1785	1407
AE 22	1-1/8	1-1/8	2-3/32	2-3/32	5/8	1/4	.37	8992	5846	3700	2183	1720
AE 23	1-3/16	1-3/16	2-3/32	2-3/32	5/8	1/4	.37	8992	5846	3700	2183	1720
AE 24	1-1/4	1-1/4	2-11/32	2-11/32	5/8	1/4	.50	10584	7742	4900	2891	2279
AE 25	1-5/16	1-5/16	2-11/32	2-11/32	5/8	1/4	.50	9638	7050	4462	2633	2075
AE 26	1-3/8	1-3/8	2-15/32	2-15/32	5/8	1/4	.50	11409	8346	5282	3116	2456
AE 27	1-7/16	1-7/16	2-15/32	2-15/32	5/8	1/4	.56	10368	7584	4800	2832	2232
AE 28	1-1/2	1-1/2	2-19/32	2-19/32	5/8	1/4	.56	10584	7742	4900	2891	2278
AE 29	1-9/16	1-9/16	2-19/32	2-19/32	5/8	1/4	.56	11858	8674	5490	3239	2553
AE 30	1-5/8	1-5/8	2-31/32	2-31/32	13/16	5/16	1.00	15960	11675	7389	4360	3436
AE 31	1-11/16	1-11/16	2-31/32	2-31/32	13/16	5/16	1.00	14742	10784	6825	4026	3175
AE 32	1-3/4	1-3/4	3-3/32	3-3/32	13/16	5/16	1.00	17100	14309	7917	4671	3682
AE 33	1-13/16	1-13/16	3-3/32	3-3/32	13/16	5/16	1.00	15793	11552	7312	4314	3400
AE 34	1-7/8	1-7/8	3-7/32	3-7/32	13/16	5/16	1.00	18241	13343	8445	4982	3926
AE 35	1-15/16	1-15/16	3-7/32	3-7/32	13/16	5/16	1.00	16848	14424	7800	4602	3627
AE 36	2	2	3-11/32	3-11/32	13/16	5/16	1.12	18241	13343	8445	4982	3926
AE 37	2-1/8	2-1/8	3-19/32	3-19/32	13/16	5/16	1.25	23654	17302	10951	6461	5092
AE 37S	2-3/16	2-3/16	3-19/32	3-19/32	13/16	5/16	1.25	19634	14362	9090	5363	4226
AE 38	2-1/4	2-1/4	3-23/32	3-23/32	13/16	5/16	1.50	24967	18263	11559	6817	5384
AE 39	2-3/8	2-3/8	3-27/32	3-27/32	13/16	5/16	1.50	26282	19225	12168	7179	5658
AE 39S	2-7/16	2-7/16	3-27/32	3-27/32	13/16	5/16	1.50	20861	15259	9658	5698	4490
AE 40	2-1/2	2-1/2	3-31/32	3-31/32	13/16	5/16	1.50	33343	24390	15437	9107	7178
AE 41	2-5/8	2-5/8	4-11/32	4-11/32	1	3/8	2.37	38473	28142	17812	10509	8282
AE 42	2-3/4	2-3/4	4-15/32	4-15/32	1	3/8	2.50	36450	26662	16875	9956	7846
AE 43	3	3	4-23/32	4-23/32	1	3/8	2.75	42523	31105	19687	11615	9154
AE 44	3-1/4	3-1/4	4-31/32	4-31/32	1	3/8	3.00	44550	32587	20625	12168	9590
AE 44S	3-7/16	3-7/16	5-7/32	5-7/32	1	3/8	3.00	39463	28866	18270	10779	8495
AE 45	3-1/2	3-1/2	5-7/32	5-7/32	1	3/8	3.00	46573	34067	21562	12722	10026
AE 45S	3-9/16	3-9/16	5-7/32	5-7/32	1	3/8	2.87	37152	27176	17200	10148	7998

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Product Manufactured in the USA

Terms:

- * No minimum order required
- * No minimum quantity for authorized bearing distributors
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- * Certificate of Compliance (C of C) available upon request
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**** Please note: Our bearings may be called out in reverse order in some distributor systems and by some customers ** (ex. 0-T-100 or T-100-0)**

The Importance of Correct Bearing Lubrication

One of the keys to optimal bearing performance is correct lubrication.

Although they are often small, bearings do important work and their premature failure could affect the efficiency and continuity of your process, and could even damage your machines.

Auburn Bearing & Manufacturing recommends lubrication before use; our bearings are supplied with a light oil as a rust preventative only.

Before lubricating a bearing, you must determine the best lubrication choice for the bearing, the job and the machine. Some questions to be answered are:

- * Is the goal to keep dirt and debris out of the bearing?
- * Are rust, oxidation and environmental conditions factors in the application?
- * What is the pressure, temperature and moisture level of the application?
- * What is the speed and the load of the process?
- * Does your application require food grade materials?

Once these questions are answered, the choices of whether to use oil or grease, or, synthetic or semi-synthetic compounds, must be determined.

Some general guidelines for bearings are:

1. For slow speed applications, fill the bearing 80% full with good general purpose industrial grease.
2. For medium to high speed applications, fill the bearing 20-30% full with good general purpose industrial grease.
3. If oil lubrication is chosen, ensure adequate oil is available to the bearing in its application by drip feed oil lubrication, oil bath lubrication, or other methods.

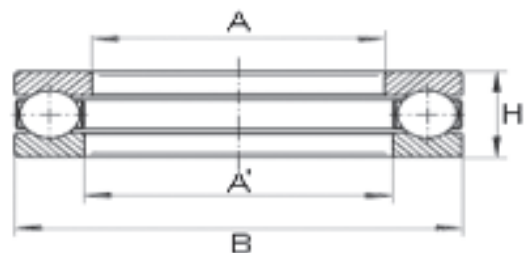
Depending on the severity of the application, you may want to establish a Preventive Maintenance, PM, schedule at this point.

Examining your bearing requirements and choosing the right lubricant for your application will save you time and money. You will see lower maintenance and lubrication costs, less downtime, and better machine reliability.

NEW!

2900 Series Bearings

Auburn Open Style 2900 Metric Ball Thrust Bearing with Nylon Ball Retainer
See details on page 4



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