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

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	+.001	+.003	17/32	+.015	1 - 3/16	.015	1/2	.005	17 - 5/32	.10	1155	760	570	335
1	1/2	+.001	+.003	17/32	+.015	1 - 1/16	.015	3/4	.005	10 - 1/4	.16	1930	1275	785	565
2	5/8	+.001	+.003	21/32	+.015	1 - 3/8	.015	13/16	.005	12 - 1/4	.22	2225	1465	905	645
3	3/4	+.001	+.003	25/32	+.015	1 - 1/2	.015	7/8	.005	14 - 1/4	.26	2480	1635	1005	725
4	7/8	+.001	+.003	29/32	+.015	1 - 13/16	.015	7/8	.005	13 - 5/16	.41	3570	2350	1450	1040
5	15/16	+.001	+.003	31/32	+.015	2	.015	1-1/16	.005	12 - 3/8	.61	4700	3095	1905	1370
6	15/16	+.001	+.003	31/32	+.015	2	.015	7/8	.005	15 - 5/16	.49	3940	2595	1600	1150
7	1	+.001	+.003	1-1/32	+.015	2	.015	1-1/16	.005	12 - 3/8	.58	4700	3095	1905	1370
8	1	+.001	+.003	1-1/32	+.015	2	.015	15/16	.005	15 - 5/16	.51	3940	2595	1600	1150
9	1-1/16	+.001	+.003	1-3/32	+.015	2	.015	15/16	.005	15 - 5/16	.49	3940	2595	1600	1150
10	1-1/16	+.001	+.003	1-3/32	+.015	2 - 3/16	.015	1-1/16	.005	13 - 3/8	.74	4985	3285	2025	1455
11	1-1/8	+.001	+.003	1-5/32	+.015	2 - 3/16	.015	1-1/8	.005	13 - 3/8	.78	4985	3285	2025	1455
12	1-3/16	+.001	+.003	1-7/32	+.015	2 - 3/16	.015	15/16	.005	16 - 5/16	.60	4100	2700	1665	1195
13	1-1/4	+.001	+.003	1-9/32	+.015	2 - 3/16	.015	15/16	.005	17 - 5/16	.56	4250	2800	1725	1240
14	1-3/16	+.001	+.003	1-7/32	+.015	2 - 13/32	.015	1-3/16	.005	15 - 3/8	.99	5505	3625	2235	1605
15	1-1/4	+.001	+.003	1-9/32	+.015	2 - 13/32	.015	1-3/16	.005	15 - 3/8	.94	5505	3625	2235	1605
16	1-5/16	+.001	+.003	1-11/32	+.015	2 - 13/32	.015	1-3/16	.005	15 - 3/8	.92	5505	3625	2235	1605
17	1-5/16	+.001	+.003	1-11/32	+.015	2 - 13/32	.015	15/16	.005	18 - 5/16	.73	4395	2895	1785	1280
17A	1-3/8	+.001	+.003	1-13/32	+.015	2 - 13/32	.015	15/16	.005	19 - 5/16	.66	4525	2975	1835	1315
18	1-7/16	+.001	+.003	1-15/32	+.015	2 - 13/32	.015	15/16	.005	19 - 5/16	.68	4525	2975	1835	1315
19	1-7/16	+.001	+.003	1-15/32	+.015	2 - 1/2	.015	1-3/16	.005	16 - 3/8	.92	5730	3775	2325	1670
19A	1-3/8	+.001	+.003	1-13/32	+.015	2 - 1/2	.015	1-3/16	.005	16 - 3/8	.99	5730	3775	2325	1670
20	1-7/16	+.001	+.003	1-15/32	+.015	2 - 19/32	.015	1-3/16	.005	17 - 3/8	1.04	5945	3915	2410	1735
21	1-1/2	+.001	+.003	1-17/32	+.015	2 - 19/32	.015	15/16	.005	20 - 5/16	.77	4630	3050	1875	1350
22	1-1/2	+.001	+.003	1-17/32	+.015	2 - 19/32	.015	1-3/16	.005	17 - 3/8	.97	5945	3915	2410	1735
23	1-5/8	+.001	+.003	1-21/32	+.015	2 - 19/32	.015	15/16	.005	21 - 5/16	.74	4750	3130	1930	1385
24	1-11/16	+.001	+.003	1-23/32	+.015	2 - 19/32	.015	15/16	.005	21 - 5/16	.69	4750	3130	1930	1385
25	1-13/16	+.001	+.003	1-27/32	+.015	2 - 3/4	.015	7/8	.005	22 - 5/16	.71	4820	3175	1955	1405
26	1-11/16	+.001	+.003	1-23/32	+.015	2 - 3/4	.015	1	.005	18 - 3/8	.89	6140	4045	2490	1790
27	1-7/8	+.001	+.003	1- 29/32	+.015	2 - 3/4	.015	1	.005	23 - 5/16	.73	4910	3235	1995	1430

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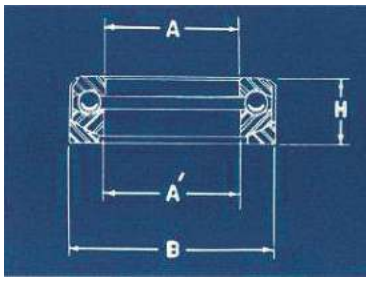

T-170 Mounting Instructions

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

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	---