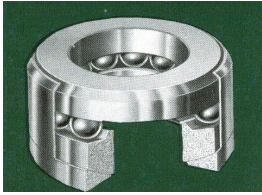


T-170

Ball Thrust Bearing Enclosed Style Spherical Seat "Auburn" Grooves



The Enclosed Style T-170 Ball Thrust Bearing with spherical seat is recommended for use in exposed locations where a protection from foreign matter is required and where an alignment problem between shaft and housing exists. Not recommended where alignment constantly changes. The two washers and balls being held together as a unit by the outside sleeve plus the aligning washer compose one complete bearing.

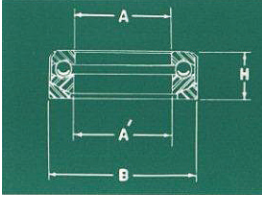
DIMENSIONS IN INCHES

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.	25 RPM	100 RPM	500 RPM	1500 RPM	Bearing Number
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	1/2
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	1
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	2
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	3
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	4
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	5
6	15/16	+0.001	+0.003	31/32	+0.015	2	.015	7/8	.005	15-5/16	.49	3940	2595	1600	1150	6
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	7
8	1	+0.001	+0.003	1-1/32	+0.015	2	.015	15/16	.005	15-5/16	.51	3940	2595	1600	1150	8
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	9
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	10
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	11
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	12
13	1-1/4	+0.001	+0.003	1-9/32	+0.015	2-3/16	.015	15/16	.005	16-5/16	.56	4250	2800	1725	1240	13
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	14
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	15
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	16
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	17
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	17A
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	18
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	19
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	19A
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	20
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	21
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	22
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	23
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	24
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	25
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	26
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	27

T-170s are not regularly scheduled for production. Consult Auburn Ball Bearing for availability.

Your source for: Custom and Standard Thrust Bearings



Enclosed Style T-170 Ball thrust Bearing 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 having clearance bore "A" 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 that 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 in lbs.	Bearing Weight	25 RPM	100 RPM	500 RPM	1500 RPM	Bearing Number	
28	1-9/16	+0.01	+0.003	1-19/32	+0.015	2-3/4	.015	1-1/4	.005	15-7/16	1.23	7280	4795	2955	2120	28
29	1-5/8	+0.01	+0.003	1-21/32	+0.015	3	.015	1-1/2	.005	14-1/2	1.75	8830	5815	3580	2575	29
30	1-15/16	+0.01	+0.003	1-31/32	+0.015	3	.015	1-1/16	.005	20-3/8	1.04	6485	4270	2630	1890	30
31	2	+0.01	+0.003	2-1/32	+0.015	3	.015	1-1/16	.005	20-3/8	1.00	6485	4270	2630	1890	31
32	1-11/16	+0.01	+0.003	2-23/32	+0.015	3-3/16	.015	1-7/16	.005	15-1/2	1.95	9255	6095	3755	2825	32
33	2-3/16	+0.01	+0.003	2-7/32	+0.015	3-3/16	.015	1	.005	26-5/16	1.01	5070	3340	2060	1480	33
34	1-3/4	+0.01	+0.003	1-25/32	+0.015	3-3/16	.015	1-7/16	.005	15-1/2	1.84	9255	6095	3755	2825	34
35	2-1/4	+0.01	+0.003	2-9/32	+0.015	3-1/4	.015	1-1/16	.005	22-3/8	1.11	6755	4450	2740	1970	35
36	2-5/16	+0.01	+0.003	2-11/32	+0.015	3-1/4	.015	1	.005	28-5/16	1.00	5130	3380	2085	1495	36
37	1-15/16	+0.01	+0.003	1-31/32	+0.015	3-1/4	.015	1-1/2	.005	16-1/2	1.92	9640	6350	3910	2810	37
38	2	+0.01	+0.003	2-1/32	+0.015	3-1/4	.015	1-1/2	.005	16-1/2	1.80	9640	6350	3910	2810	38
39	2-3/16	+0.01	+0.003	2-7/32	+0.015	3-7/8	.015	1-9/16	.005	19-1/2	2.96	10635	7005	4315	3100	39
40	2-1/4	+0.01	+0.003	2-9/32	+0.015	3-7/8	.015	1-9/16	.005	19-1/2	2.82	10635	7005	4315	3100	40
41	2-7/16	+0.01	+0.003	2-15/32	+0.015	4	.015	1-5/8	.005	20-1/2	3.03	10900	7180	4425	3175	41
41A	1-15/16	+0.01	+0.003	1-31/32	+0.015	4	.015	2	.005	13-11/16	4.62	14690	9675	5960	4280	41A
42	2-1/2	+0.01	+0.003	2-17/32	+0.015	4	.015	1-5/8	.005	20-1/2	2.95	10900	7180	4425	3175	42
43	2-15/16	+0.01	+0.003	2-31/32	+0.015	4-5/8	.015	1-7/8	.005	19-5/8	4.51	15780	10395	6405	4600	43
43A	2-3/4	+0.01	+0.003	2-25/32	+0.015	4-5/8	.015	1-7/8	.005	19-5/8	4.66	15780	10395	6405	4600	43A
44	3	+0.01	+0.003	3-1/32	+0.015	4-5/8	.015	1-7/8	.005	19-5/8	4.42	15780	10395	6405	4600	44
45	3	+0.01	+0.003	3-1/32	+0.015	4-5/8	.015	1-3/8	.005	27-7/16	3.30	9460	6230	3840	2755	45
46	2-7/16	+0.01	+0.003	2-15/32	+0.015	4-5/8	.015	2-1/16	.005	16-11/16	6.11	16875	11115	6845	4920	46
47	3-7/16	+0.002	+0.004	3-15/32	+0.015	5	.031	1-3/8	.005	30-7/16	3.58	9490	6250	3850		47
48	2-3/16	+0.01	+0.003	2-7/32	+0.015	5	.031	2-7/8	.005	11-1	11.29	24490	16130	9935	---	48
49	4-1/2	+0.003	+0.007	4-9/16	+0.015	6-1/4	.031	1-7/8	.005	30-9/16	6.56	14860	9790	6030	---	49
50	3-7/16	+0.002	+0.004	3-15/32	+0.015	6-1/4	.031	2-5/8	.005	18-7/8	13.97	27300	17985	11080	---	50
51	3	+0.01	+0.003	3-1/32	+0.015	6-1/4	.031	3-5/8	.005	11-1/4	22.49	35110	23135	14245	---	51
52	4	+0.002	+0.004	4-1/32	+0.015	6-7/8	.031	2-5/8	.005	20-7/8	16.12	28840	18990	11700	---	52
53	4-7/16	+0.003	+0.007	4-1/2	+0.015	6-7/8	.031	2-7/8	.005	20-7/8	16.67	28840	18990	11700	---	53
54	5	+0.003	+0.007	5-1/16	+0.015	7	.031	1-3/4	.005	37-1/2	7.71	11135	7335	4520	---	54
56	6-1/2	+0.010	+0.015	6-9/16	+0.015	8-3/4	.031	2	.005	37-5/8	13.95	16540	10895	6710	---	56

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Your source for: Custom and Standard Thrust Bearings