

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

REV.
A

AS3170

FEDERAL SUPPLY CLASS

RATIONALE

REVISE THREAD SPECIFICATION TO AS8879. REVISE LIGHTENING HOLE CONFIGURATION (ADD SECTION VIEW) TO ALLOW OPTIONAL SHAPE AT BOTTOM OF HOLE, DELETE .015 MAX RADIUS AT BASE OF WRENCH PAD, UPDATE FPI REQUIREMENTS, ADD SURFACE FINISH REQUIREMENTS TO BOLT HEAD, ADD AS3062 FOR THREAD RUNOUT, ADD MIN. BEARING DIA, DELETE METRIC DIMENSIONS, UPDATE ANSI Y14.5-1973 TO ANSI Y14.5M- 1982, GENERAL EDITORIAL UPDATE, REFERENCES UPDATED AND FIGURE 1 REDRAWN.

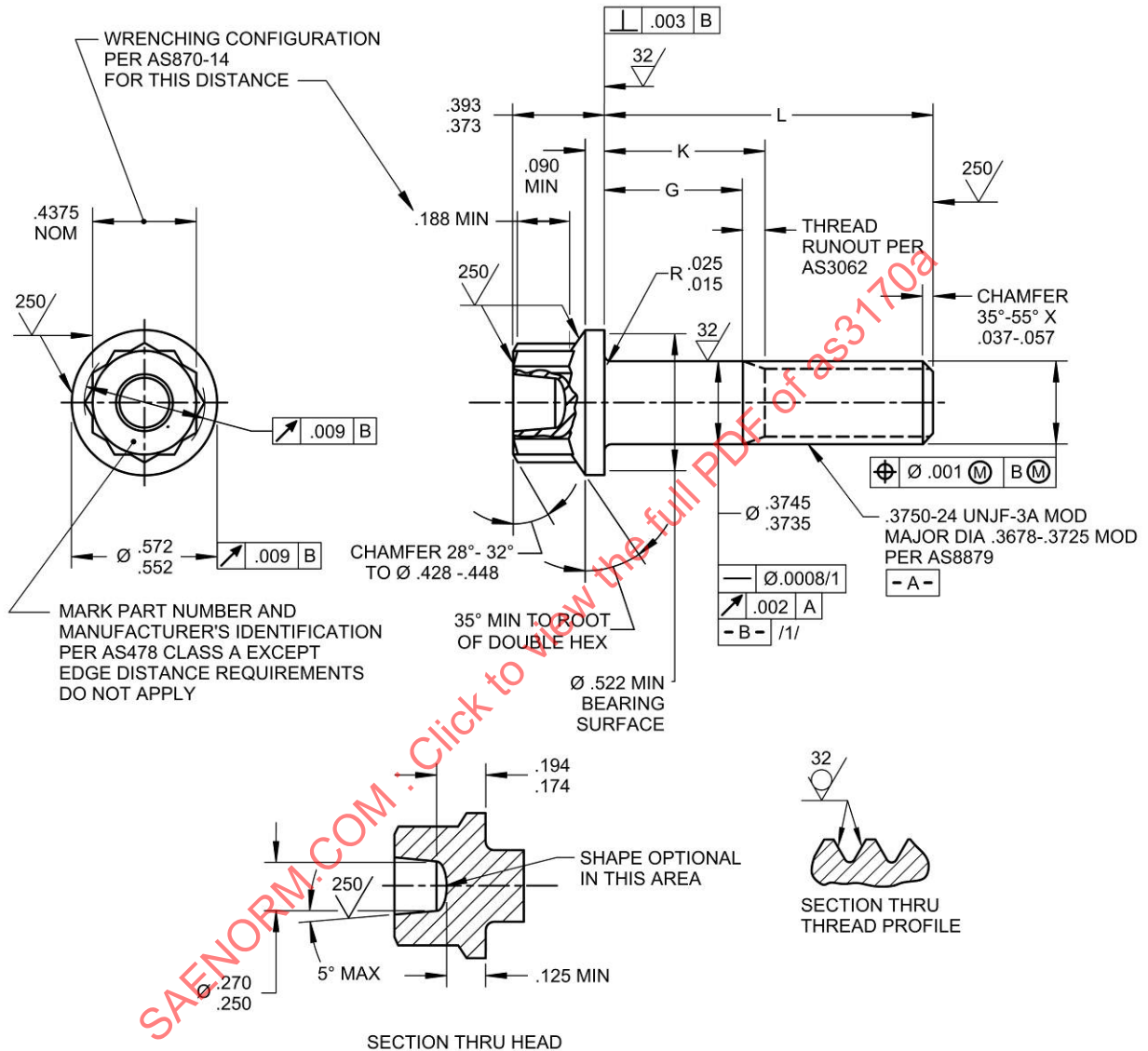
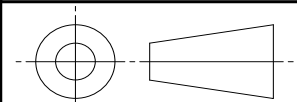


FIGURE 1 - BOLT

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS3170A>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7474 /8/



AEROSPACE STANDARD

BOLT, MACHINE - DOUBLE HEX EXTENDED WASHER HEAD, CLOSE TOLERANCE SHANK, AMS5643 (UNS S17400), .3750-24, UNJF-3A

AS3170
SHEET 1 OF 3

REV.
A

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NUMBER	L	G MIN	K MAX	APPROX. MASS LB/100	PART NUMBER	L	G MIN	K MAX	APPROX. MASS LB/100
AS3170-03	.838-.858	.105	.198	3.95	AS3170-45	3.462-3.482	2.729	2.822	12.02
AS3170-04	.900-.920	.167	.260	4.14	AS3170-46	3.525-3.545	2.792	2.885	12.21
AS3170-05	.962-.982	.229	.322	4.33	AS3170-47	3.588-3.608	2.855	2.948	12.41
AS3170-06	1.025-1.045	.292	.385	4.53	AS3170-48	3.650-3.670	2.917	3.010	12.60
AS3170-07	1.088-1.108	.355	.448	4.73	AS3170-49	3.712-3.732	2.979	3.072	12.79
AS3170-08	1.150-1.170	.417	.510	4.91	AS3170-50	3.775-3.795	3.042	3.135	12.98
AS3170-09	1.212-1.232	.479	.572	5.10	AS3170-51	3.838-3.858	3.105	3.198	13.17
AS3170-10	1.275-1.295	.542	.635	5.29	AS3170-52	3.900-3.920	3.167	3.260	13.36
AS3170-11	1.338-1.358	.605	.698	5.49	AS3170-53	3.962-3.982	3.229	3.322	13.55
AS3170-12	1.400-1.420	.667	.760	5.68	AS3170-54	4.025-4.045	3.292	3.385	13.75
AS3170-13	1.462-1.482	.729	.822	5.87	AS3170-55	4.088-4.108	3.355	3.448	13.95
AS3170-14	1.525-1.545	.792	.885	6.07	AS3170-56	4.150-4.170	3.417	3.510	14.14
AS3170-15	1.588-1.608	.855	.948	6.26	AS3170-57	4.212-4.232	3.479	3.572	14.33
AS3170-16	1.650-1.670	.917	1.010	6.44	AS3170-58	4.275-4.295	3.542	3.635	14.52
AS3170-17	1.712-1.732	.979	1.072	6.63	AS3170-59	4.338-4.358	3.605	3.698	14.71
AS3170-18	1.775-1.795	1.042	1.135	6.83	AS3170-60	4.400-4.420	3.667	3.760	14.90
AS3170-19	1.838-1.858	1.105	1.198	7.03	AS3170-61	4.462-4.482	3.729	3.822	15.09
AS3170-20	1.900-1.920	1.167	1.260	7.22	AS3170-62	4.525-4.545	3.792	3.885	15.29
AS3170-21	1.962-1.982	1.229	1.322	7.41	AS3170-63	4.588-4.608	3.855	3.948	15.48
AS3170-22	2.025-2.045	1.292	1.385	7.60	AS3170-64	4.650-4.670	3.917	4.010	15.67
AS3170-23	2.088-2.108	1.355	1.448	7.80	AS3170-65	4.712-4.732	3.979	4.072	15.86
AS3170-24	2.150-2.170	1.417	1.510	7.99	AS3170-66	4.775-4.795	4.042	4.135	16.06
AS3170-25	2.212-2.232	1.479	1.572	8.17	AS3170-67	4.838-4.858	4.105	4.198	16.24
AS3170-26	2.275-2.295	1.542	1.635	8.37	AS3170-68	4.900-4.920	4.167	4.260	16.44
AS3170-27	2.338-2.358	1.605	1.698	8.56	AS3170-69	4.962-4.982	4.229	4.322	16.63
AS3170-28	2.400-2.420	1.667	1.760	8.75	AS3170-70	5.025-5.045	4.292	4.385	16.82
AS3170-29	2.462-2.482	1.729	1.822	8.95	AS3170-71	5.088-5.108	4.355	4.448	17.02
AS3170-30	2.525-2.545	1.792	1.885	9.14	AS3170-72	5.150-5.170	4.417	4.510	17.21
AS3170-31	2.588-2.608	1.855	1.948	9.33	AS3170-73	5.212-5.232	4.479	4.572	17.40
AS3170-32	2.650-2.670	1.917	2.010	9.53	AS3170-74	5.275-5.295	4.542	4.635	17.60
AS3170-33	2.712-2.732	1.979	2.072	9.71	AS3170-75	5.338-5.358	4.605	4.698	17.78
AS3170-34	2.775-2.795	2.042	2.135	9.90	AS3170-76	5.400-5.420	4.667	4.760	17.97
AS3170-35	2.838-2.858	2.105	2.198	10.10	AS3170-77	5.462-5.482	4.729	4.822	18.16
AS3170-36	2.900-2.920	2.167	2.260	10.29	AS3170-78	5.525-5.545	4.792	4.885	18.36
AS3170-37	2.962-2.982	2.229	2.322	10.48	AS3170-79	5.588-5.608	4.855	4.948	18.55
AS3170-38	3.025-3.045	2.292	2.385	10.68	AS3170-80	5.650-5.670	4.917	5.010	18.74
AS3170-39	3.088-3.108	2.355	2.448	10.87					
AS3170-40	3.150-3.170	2.417	2.510	11.06					
AS3170-41	3.212-3.232	2.479	2.572	11.25					
AS3170-42	3.275-3.295	2.542	2.635	11.44					
AS3170-43	3.238-3.258	2.605	2.698	11.63					
AS3170-44	3.400-3.420	2.667	2.760	11.83					



AEROSPACE STANDARD

BOLT, MACHINE - DOUBLE HEX EXTENDED
WASHER HEAD, CLOSE TOLERANCE SHANK,
AMS5643 (UNS S17400), . 3750-24, UNJF-3A

AS3170
SHEET 2 OF 3

REV.
A