

REV.
C

AS9500™

RATIONALE

ADD POSITION REQUIREMENTS FOR DRILLED HOLE AND REVISE LEAD THREAD CHAMFER TO AS1132, REVISE DRILLED HOLE LOCATION DIMENSION TO BASIC, REVISE FPI NOTE, GENERAL FORMAT AND EDITORIAL CHANGES THROUGHOUT.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9500A AMENDMENT 1, NOTICE 1. THIS SAE STANDARD MAY RETAIN THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL'S) MAY CONTINUE TO BE MANDATORY FOR DoD CONTRACTS. REQUIREMENTS RELATING TO QPL'S HAVE NOT BEEN ADOPTED BY THE SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.

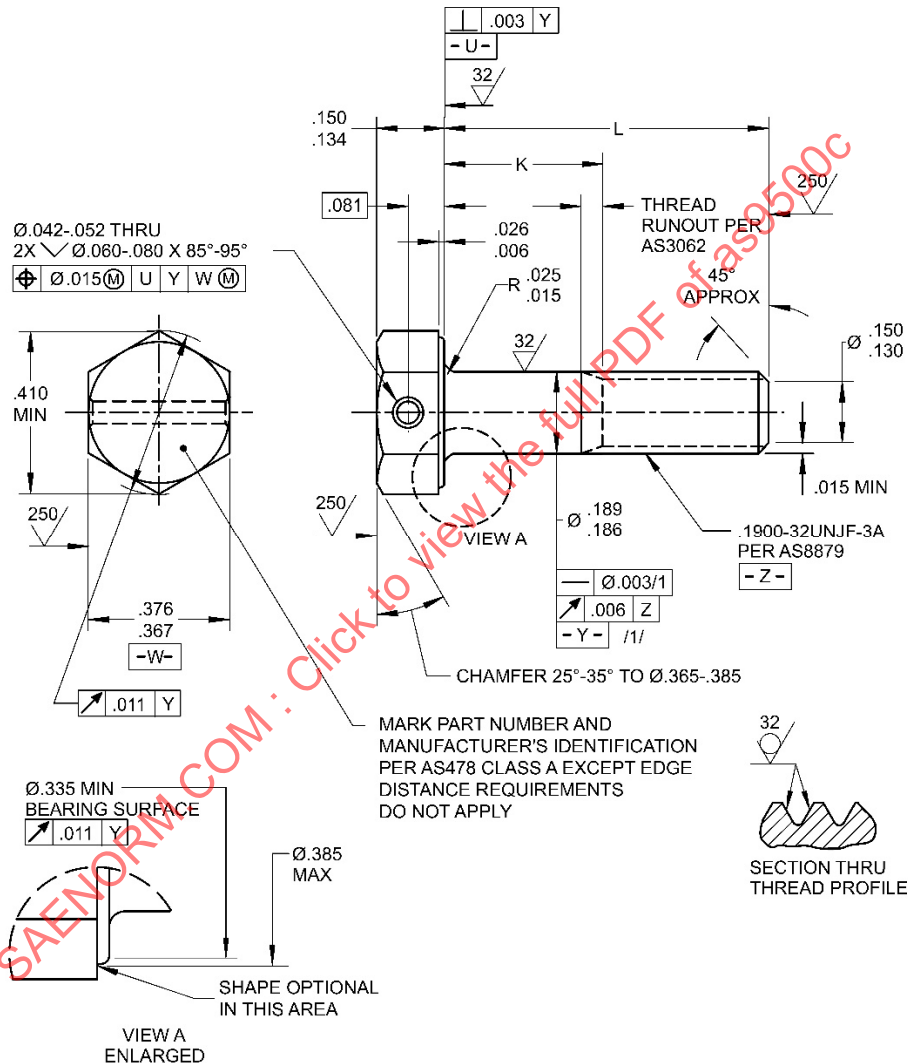
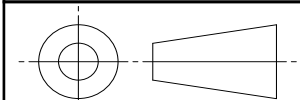


FIGURE 1 - BOLT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS9500C/>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7477



AEROSPACE STANDARD

BOLT, MACHINE – HEXAGON HEAD DRILLED, 1 HOLE,
 FULL SHANK, CRES, UNS S66286, 130 KSI MIN,
 .1900-32UNJF-3A

AS9500™
 SHEET 1 OF 3

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TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NUMBER	L	K	APPROX MASS LB/100	PART NUMBER	L	K	APPROX MASS LB/100
MS9500-04	.365- .385	.072- .092	.76	MS9500-26	1.740-1.760	1.080-1.120	1.85
MS9500-05	.428- .448	.072- .092	.81	MS9500-44	1.802-1.822	1.122-1.182	1.90
MS9500-06	.490- .510	.072- .092	.86	MS9500-27	1.865-1.885	1.185-1.245	1.95
MS9500-07	.552- .572	.072- .092	.91	MS9500-45	1.928-1.948	1.248-1.306	2.00
MS9500-08	.615- .635	.072- .092	.96	MS9500-28	1.990-2.010	1.310-1.370	2.05
MS9500-09	.678- .698	.072- .092	1.01	MS9500-29	2.115-2.135	1.435-1.495	2.15
MS9500-10	.740- .760	.072- .120	1.06	MS9500-30	2.240-2.260	1.580-1.620	2.24
MS9500-11	.802- .822	.122- .182	1.11	MS9500-31	2.365-2.385	1.685-1.745	2.34
MS9500-12	.865- .885	.185- .245	1.16	MS9500-32	2.490-2.510	1.810-1.870	2.44
MS9500-13	.928- .948	.248- .308	1.21	MS9500-33	2.615-2.635	1.935-1.995	2.54
MS9500-14	.990-1.010	.310- .370	1.26	MS9500-34	2.740-2.760	2.060-2.120	2.64
MS9500-15	1.052-1.072	.372- .432	1.31	MS9500-35	2.865-2.885	2.185-2.245	2.74
MS9500-16	1.115-1.135	.435- .495	1.36	MS9500-36	2.990-3.010	2.310-2.370	2.84
MS9500-17	1.1781-1.198	.498- .558	1.41	MS9500-37	3.115-3.135	2.435-2.495	2.93
MS9500-18	1.240-1.260	.560- .620	1.45	MS9500-38	3.240-3.260	2.560-2.620	3.03
MS9500-19	1.302-1.322	.622- .682	1.50	MS9500-39	3.365-3.885	2.685-2.745	3.13
MS9500-20	1.365-1.385	.685- .745	1.55	MS9500-40	3.490-3.510	2.810-2.870	3.23
MS9500-21	1.428-1.448	.748- .808	1.60	MS9500-41	3.615-3.635	2.935-2.995	3.33
MS9500-22	1.490-1.510	.810- .870	1.65	MS9500-42	3.740-3.760	3.060-3.120	3.43
MS9500-23	1.552-1.572	.872- .932	1.70	MS9500-43	3.865-3.885	3.185-3.245	3.53
MS9500-24	1.615-1.635	.935- .995	1.75				
MS9500-25	1.678-1.698	.998-1.058	1.80				

NOTES:

- 1/ FOR PART NUMBERS MS9500-04 THROUGH MS9500-14, THE DATUM Z (THREAD PD) SHALL REPLACE DATUM Y.
2. MATERIAL: CORROSION AND HEAT RESISTANT STEEL AMS5731 (COMPOSITION SIMILAR TO UNS S66286).
3. PROCUREMENT SPECIFICATION: AS7477.
4. FLUORESCENT PENETRANT INSPECTION PER ASTM E1417/E1417M TYPE I, SENSITIVITY LEVEL 2 MIN.
5. INCOMPLETE THREADS NOT TO ENTER FILLET.
6. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
7. BREAK SHARP EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
8. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).
9. DIMENSIONS ARE IN INCHES.
10. DO NOT USE UNASSIGNED PART NUMBERS.
11. UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.

	AEROSPACE STANDARD		AS9500™ SHEET 2 OF 3	REV. C
	BOLT, MACHINE – HEXAGON HEAD DRILLED, 1 HOLE, FULL SHANK, CRES, UNS S66286, 130 KSI MIN, .1900-32UNJF-3A			