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REV.
B

AS9761™

RATIONALE

FIGURE REDRAWN TO LATEST STANDARDS, LATEST USAGE NOTE ADDED.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9761, 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.

FEDERAL SUPPLY CLASS
5306

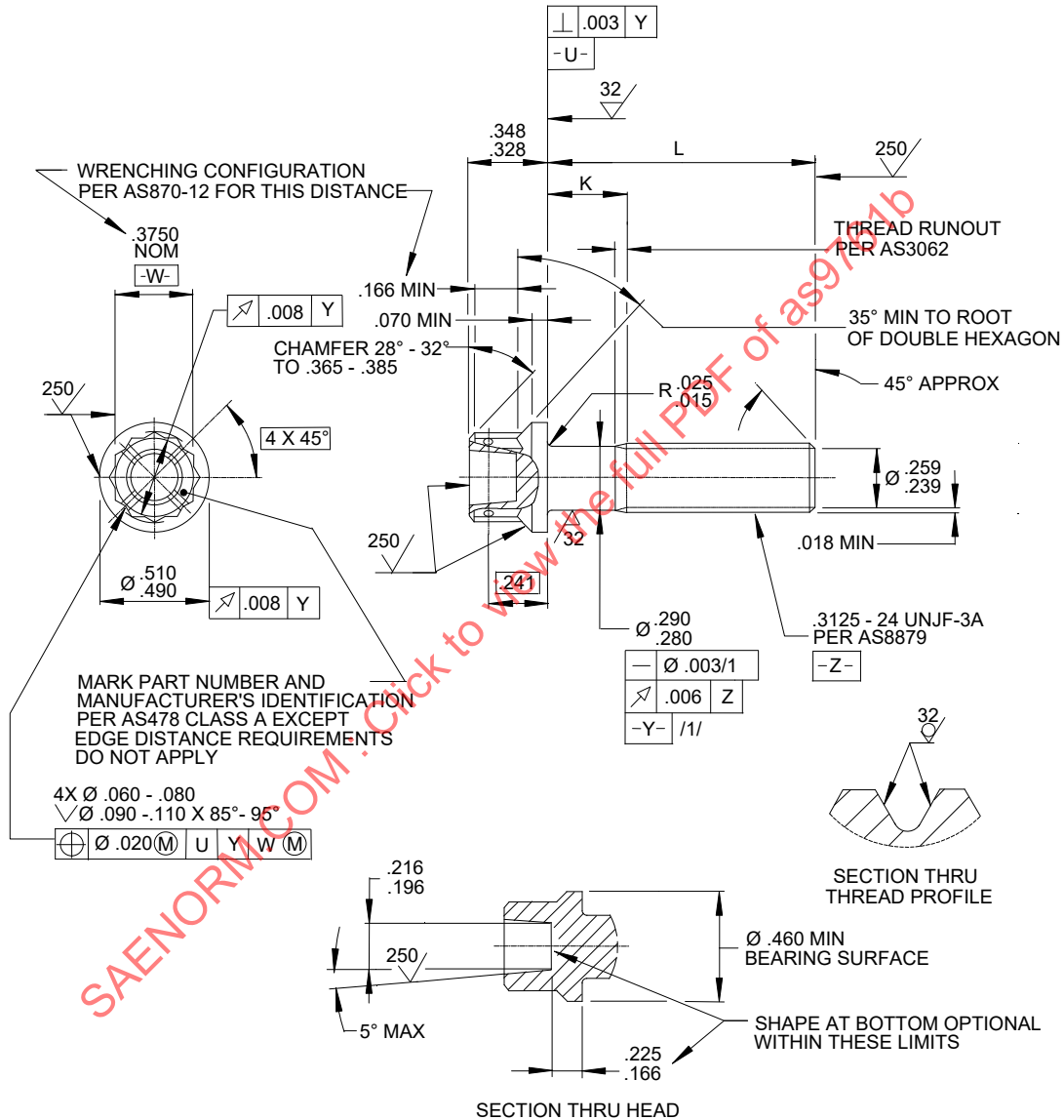
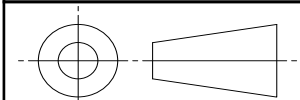


FIGURE 1 - BOLT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS9761B/>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7461



AEROSPACE STANDARD

BOLT, MACHINE - DOUBLE HEXAGON EXTENDED
WASHER HEAD, DRILLED, PD SHANK, 160 KSI UTS MIN,
TI 6Al-4V (UNS R56400), .3125-24 UNJF-3A

AS9761™
SHEET 1 OF 3

REV.
B

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NUMBER	L	K	APPROX WEIGHT LB/100	PART NUMBER	L	K	APPROX WEIGHT LB/100
MS9761-04	.490-.510	.088-.108	1.21	MS9761-34	2.865-2.885	1.940-2.000	3.61
MS9761-05	.552-.572	.088-.108	1.28	MS9761-35	2.990-3.010	2.065-2.125	3.74
MS9761-06	.615-.635	.088-.108	1.34	MS9761-36	3.115-3.135	2.190-2.250	3.87
MS9761-07	.678-.698	.088-.108	1.40	MS9761-37	3.240-3.260	2.315-2.375	3.99
MS9761-08	.740-.760	.088-.108	1.47	MS9761-38	3.365-3.385	2.440-2.500	4.12
MS9761-09	.802-.822	.088-.108	1.53	MS9761-39	3.490-3.510	2.565-2.625	4.25
MS9761-10	.865-.885	.088-.108	1.59	MS9761-40	3.615-3.635	2.690-2.750	4.37
MS9761-11	.928-.948	.088-.108	1.65	MS9761-41	3.740-3.760	2.815-2.875	4.50
MS9761-12	.990-1.010	.088-.125	1.72	MS9761-42	3.865-3.885	2.940-3.000	4.63
MS9761-13	1.052-1.072	.128-.188	1.78	MS9761-43	3.990-4.010	3.065-3.125	4.75
MS9761-14	1.115-1.135	.190-.250	1.84	MS9761-44	4.115-4.135	3.190-3.250	4.88
MS9761-15	1.178-1.198	.252-.312	1.91	MS9761-45	4.240-4.260	3.315-3.375	5.00
MS9761-16	1.240-1.260	.315-.375	1.97	MS9761-46	4.365-4.385	3.440-3.500	5.13
MS9761-17	1.302-1.322	.378-.438	2.03	MS9761-47	4.490-4.510	3.565-3.625	5.26
MS9761-18	1.365-1.385	.440-.500	2.10	MS9761-48	4.615-4.635	3.690-3.750	5.38
MS9761-19	1.428-1.448	.502-.562	2.16	MS9761-49	4.740-4.760	3.815-3.875	5.51
MS9761-20	1.490-1.510	.565-.625	2.22	MS9761-50	4.865-4.885	3.940-4.000	5.64
MS9761-21	1.552-1.572	.628-.688	2.29	MS9761-51	4.990-5.010	4.065-4.125	5.76
MS9761-22	1.615-1.635	.690-.750	2.35	MS9761-52	5.115-5.135	4.190-4.250	5.89
MS9761-23	1.678-1.698	.752-.812	2.41	MS9761-53	5.240-5.260	4.315-4.375	6.02
MS9761-24	1.740-1.760	.815-.875	2.48	MS9761-54	5.365-5.385	4.440-4.500	6.14
MS9761-25	1.802-1.822	.878-.938	2.54	MS9761-55	5.490-5.510	4.565-4.625	6.27
MS9761-26	1.865-1.885	.940-1.000	2.60	MS9761-56	5.615-5.635	4.690-4.750	6.39
MS9761-27	1.990-2.010	1.065-1.125	2.73	MS9761-57	5.740-5.760	4.815-4.875	6.52
MS9761-28	2.115-2.135	1.190-1.250	2.86	MS9761-58	5.865-5.885	4.940-5.000	6.65
MS9761-29	2.240-2.260	1.315-1.375	2.98	MS9761-59	5.990-6.010	5.065-5.125	6.77
MS9761-30	2.365-2.385	1.440-1.500	3.11				
MS9761-31	2.490-2.510	1.565-1.625	3.23				
MS9761-32	2.615-2.635	1.690-1.750	3.36				
MS9761-33	2.740-2.760	1.815-1.875	3.49				

NOTES:

- 1/ FOR PART NUMBERS MS9761-04 THRU MS9761-19, DATUM Z SHALL REPLACE DATUM Y.
2. PROCUREMENT SPECIFICATION AS7461.
3. MATERIAL: AMS4967 (COMPOSITION SIMILAR TO UNS R56400).
4. FLUORESCENT PENETRANT INSPECTION PER ASTM E1417/E1417M, TYPE 1, SENSITIVITY LEVEL 2 MIN.
5. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra EXCEPT UPSET HEAD.
6. BREAK SHARP EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
7. DIMENSIONS ARE IN INCHES.
8. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).
9. DO NOT USE UNASSIGNED PART NUMBERS.

	AEROSPACE STANDARD	AS9761™ SHEET 2 OF 3	REV. B
	BOLT, MACHINE - DOUBLE HEXAGON EXTENDED WASHER HEAD, DRILLED, PD SHANK, 160 KSI UTS MIN, TI 6Al-4V (UNS R56400), .3125-24 UNJF-3A		