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REV.  
A

AS3168

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, REVISE COLD ROLLING NOTE, UPDATE TO ANSI Y14.5M-1982, DELETE METRIC DIMENSIONS, GENERAL EDITORIAL UPDATE, REFERENCES UPDATED AND FIGURE 1 REDRAWN.

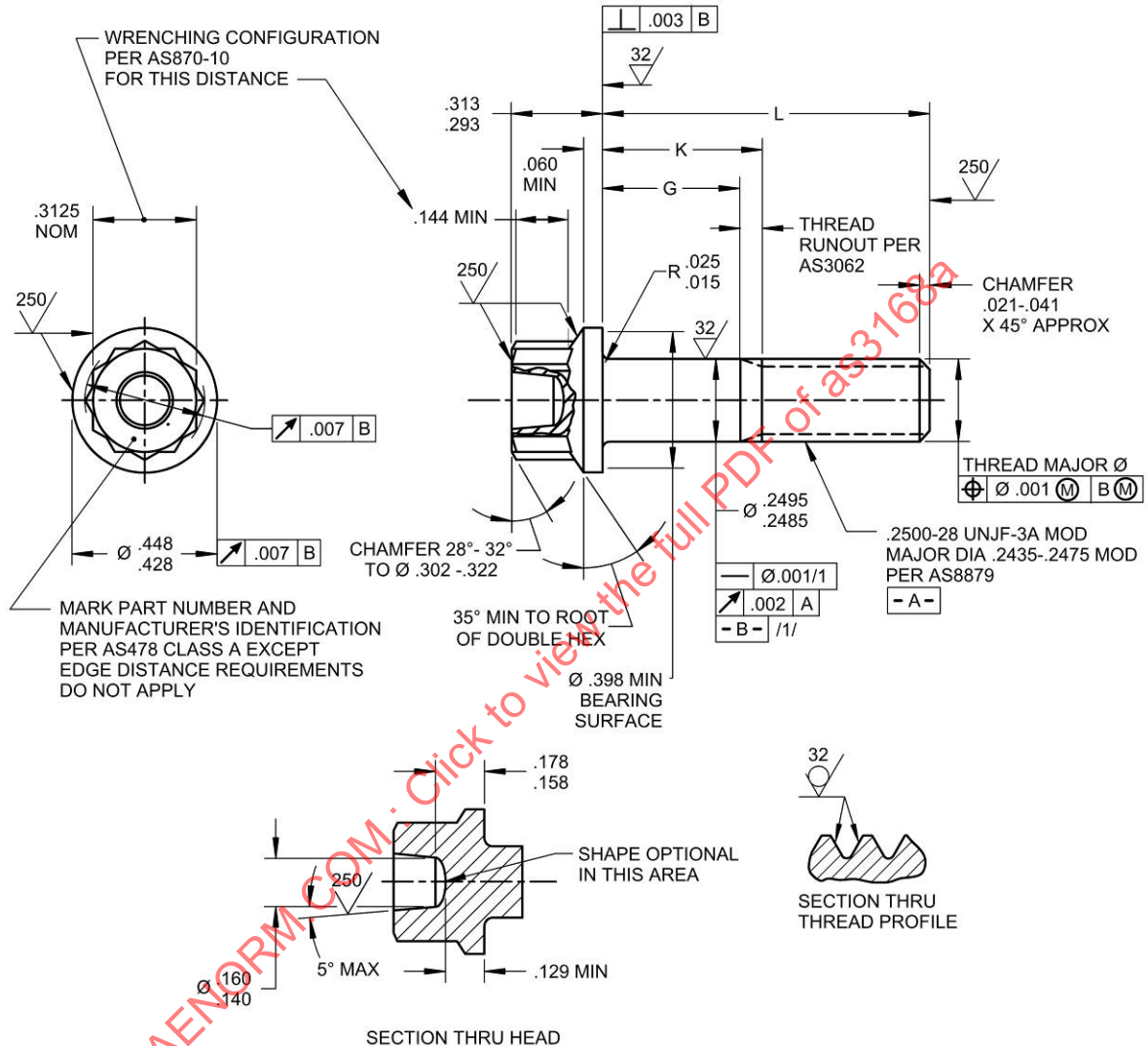


FIGURE 1 - BOLT

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CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7474 /8/



## AEROSPACE STANDARD

(R) BOLT, MACHINE-DOUBLE HEX EXTENDED WASHER HEAD, CLOSE TOLERANCE SHANK, CORROSION RESISTANT STEEL (UNS S17400), 140 KSI UTS MIN, .2500-28, UNJF-3A

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TABLE 1 - PART NUMBERS AND DIMENSIONS

| PART NO.  | L           | G<br>MIN | K<br>MAX | APPROX.<br>MASS<br>LB/100 | PART NO.  | L           | G<br>MIN | K<br>MAX | APPROX.<br>MASS<br>LB/100 |
|-----------|-------------|----------|----------|---------------------------|-----------|-------------|----------|----------|---------------------------|
| AS3168-03 | .690-.710   | .117     | .198     | 1.61                      | AS3168-45 | 3.314-3.334 | 2.741    | 2.822    | 5.18                      |
| AS3168-04 | .752-.772   | .179     | .260     | 1.69                      | AS3168-46 | 3.377-3.397 | 2.804    | 2.885    | 5.26                      |
| AS3168-05 | .814-.834   | .241     | .322     | 1.78                      | AS3168-47 | 3.440-3.460 | 2.867    | 2.948    | 5.35                      |
| AS3168-06 | .877-.897   | .304     | .385     | 1.85                      | AS3168-48 | 3.502-3.522 | 2.929    | 3.010    | 5.43                      |
| AS3168-07 | .940-.960   | .367     | .448     | 1.95                      | AS3168-49 | 3.564-3.584 | 2.991    | 3.072    | 5.52                      |
| AS3168-08 | 1.002-1.022 | .429     | .510     | 2.03                      | AS3168-50 | 3.627-3.647 | 3.054    | 3.135    | 5.60                      |
| AS3168-09 | 1.064-1.084 | .491     | .572     | 2.12                      | AS3168-51 | 3.690-3.710 | 3.117    | 3.198    | 5.69                      |
| AS3168-10 | 1.127-1.147 | .554     | .635     | 2.20                      | AS3168-52 | 3.752-3.772 | 3.179    | 3.260    | 5.77                      |
| AS3168-11 | 1.190-1.210 | .617     | .698     | 2.29                      | AS3168-53 | 3.814-3.834 | 3.241    | 3.322    | 5.86                      |
| AS3168-12 | 1.252-1.272 | .679     | .760     | 2.37                      | AS3168-54 | 3.877-3.897 | 3.304    | 3.385    | 5.94                      |
| AS3168-13 | 1.314-1.334 | .741     | .822     | 2.46                      | AS3168-55 | 3.940-3.960 | 3.367    | 3.448    | 6.03                      |
| AS3168-14 | 1.377-1.397 | .804     | .885     | 2.54                      | AS3168-56 | 4.002-4.022 | 3.429    | 3.510    | 6.11                      |
| AS3168-15 | 1.440-1.460 | .867     | .948     | 2.63                      | AS3168-57 | 4.064-4.084 | 3.491    | 3.572    | 6.20                      |
| AS3168-16 | 1.502-1.522 | .929     | 1.010    | 2.71                      | AS3168-58 | 4.127-4.147 | 3.554    | 3.635    | 6.28                      |
| AS3168-17 | 1.564-1.584 | .991     | 1.072    | 2.80                      | AS3168-59 | 4.190-4.210 | 3.617    | 3.698    | 6.37                      |
| AS3168-18 | 1.627-1.647 | 1.054    | 1.135    | 2.88                      | AS3168-60 | 4.252-4.272 | 3.679    | 3.760    | 6.45                      |
| AS3168-19 | 1.690-1.710 | 1.117    | 1.198    | 2.97                      | AS3168-61 | 4.314-4.334 | 3.741    | 3.822    | 6.54                      |
| AS3168-20 | 1.752-1.772 | 1.179    | 1.260    | 3.05                      | AS3168-62 | 4.377-4.397 | 3.804    | 3.885    | 6.62                      |
| AS3168-21 | 1.814-1.834 | 1.241    | 1.322    | 3.14                      | AS3168-63 | 4.440-4.460 | 3.867    | 3.948    | 6.71                      |
| AS3168-22 | 1.877-1.897 | 1.304    | 1.385    | 3.22                      | AS3168-64 | 4.502-4.522 | 3.929    | 4.010    | 6.79                      |
| AS3168-23 | 1.940-1.960 | 1.367    | 1.448    | 3.31                      | AS3168-65 | 4.564-4.584 | 3.991    | 4.072    | 6.88                      |
| AS3168-24 | 2.002-2.022 | 1.429    | 1.510    | 3.39                      | AS3168-66 | 4.627-4.647 | 4.054    | 4.135    | 6.96                      |
| AS3168-25 | 2.064-2.084 | 1.491    | 1.572    | 3.48                      | AS3168-67 | 4.690-4.710 | 4.117    | 4.198    | 7.05                      |
| AS3168-26 | 2.127-2.147 | 1.554    | 1.635    | 3.56                      | AS3168-68 | 4.752-4.772 | 4.179    | 4.260    | 7.13                      |
| AS3168-27 | 2.190-2.210 | 1.617    | 1.698    | 3.65                      | AS3168-69 | 4.814-4.834 | 4.241    | 4.322    | 7.22                      |
| AS3168-28 | 2.252-2.272 | 1.679    | 1.760    | 3.73                      | AS3168-70 | 4.877-4.897 | 4.304    | 4.385    | 7.30                      |
| AS3168-29 | 2.314-2.334 | 1.741    | 1.822    | 3.82                      | AS3168-71 | 4.940-4.960 | 4.367    | 4.448    | 7.39                      |
| AS3168-30 | 2.377-2.397 | 1.804    | 1.885    | 3.90                      | AS3168-72 | 5.002-5.022 | 4.429    | 4.510    | 7.47                      |
| AS3168-31 | 2.440-2.460 | 1.867    | 1.948    | 3.99                      | AS3168-73 | 5.064-5.084 | 4.491    | 4.572    | 7.56                      |
| AS3168-32 | 2.502-2.522 | 1.929    | 2.010    | 4.07                      | AS3168-74 | 5.127-5.147 | 4.554    | 4.635    | 7.65                      |
| AS3168-33 | 2.564-2.584 | 1.991    | 2.072    | 4.16                      | AS3168-75 | 5.190-5.210 | 4.617    | 4.698    | 7.73                      |
| AS3168-34 | 2.627-2.647 | 2.054    | 2.135    | 4.24                      | AS3168-76 | 5.252-5.272 | 4.679    | 4.760    | 7.82                      |
| AS3168-35 | 2.690-2.710 | 2.117    | 2.198    | 4.33                      | AS3168-77 | 5.314-5.334 | 4.741    | 4.822    | 7.90                      |
| AS3168-36 | 2.752-2.772 | 2.179    | 2.260    | 4.41                      | AS3168-78 | 5.377-5.397 | 4.804    | 4.885    | 7.99                      |
| AS3168-37 | 2.814-2.834 | 2.241    | 2.322    | 4.50                      | AS3168-79 | 5.440-5.460 | 4.867    | 4.948    | 8.07                      |
| AS3168-38 | 2.877-2.897 | 2.304    | 2.385    | 4.58                      | AS3168-80 | 5.502-5.522 | 4.929    | 5.010    | 8.16                      |
| AS3168-39 | 2.940-2.960 | 2.367    | 2.448    | 4.67                      | AS3168-81 | 5.564-5.584 | 4.991    | 5.072    | 8.24                      |
| AS3168-40 | 3.002-3.022 | 2.429    | 2.510    | 4.75                      | AS3168-82 | 5.627-5.647 | 5.054    | 5.135    | 8.33                      |
| AS3168-41 | 3.064-3.084 | 2.491    | 2.572    | 4.84                      | AS3168-83 | 5.690-5.710 | 5.117    | 5.198    | 8.41                      |
| AS3168-42 | 3.127-3.147 | 2.554    | 2.635    | 4.92                      | AS3168-84 | 5.752-5.772 | 5.179    | 5.260    | 8.51                      |
| AS3168-43 | 3.190-3.210 | 2.617    | 2.698    | 5.01                      | AS3168-85 | 5.814-5.834 | 5.241    | 5.322    | 8.58                      |
| AS3168-44 | 3.252-3.272 | 2.679    | 2.760    | 5.09                      | AS3168-86 | 5.877-5.897 | 5.304    | 5.385    | 8.67                      |



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