### Drawing Information

**Title:** OSI BOLT™ PROTRUDING HEX HEAD CLOSE TOLERANCE SHANK INCONEL 718, 112 KSI SHEAR 1/16" GRIP VARIATION

**Drawing No.:** BG2041( )-( )-( )-( )

**Approved By:** M. DOMINGUEZ

**Checked Date:** 8/22/13

**Drawing Date:** 8/15/13

**Sheet:** 1 of 2

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**Table: Fastener Identification**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>NOM DIA</th>
<th>B HEX</th>
<th>C REF</th>
<th>D DIA</th>
<th>E DIA</th>
<th>F FLATS</th>
<th>H HEAD HTS</th>
<th>J DIA</th>
<th>K MAX</th>
<th>L REF</th>
<th>N MIN</th>
<th>R MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>BG2041( )-06- JX</td>
<td>13/64</td>
<td>.375</td>
<td>.367</td>
<td>.270</td>
<td>.266</td>
<td>.250</td>
<td>.112</td>
<td>.105</td>
<td>.475</td>
<td>.495</td>
<td>.515</td>
<td>.540</td>
</tr>
<tr>
<td>BG2041( )-10- JY</td>
<td>9/32</td>
<td>.500</td>
<td>.491</td>
<td>7/16</td>
<td>.360</td>
<td>.350</td>
<td>.133</td>
<td>.126</td>
<td>.580</td>
<td>1.100</td>
<td>1.300</td>
<td>.548</td>
</tr>
</tbody>
</table>

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**Table: Recommended Hole Size:**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>MIN AVAILABLE GRIP DASH NO.</th>
<th>RECOMMENDED HOLE SIZE:</th>
<th>PREVAILING TORQUE (IN-LBS)</th>
<th>DOUBLE SHEAR (LBS)</th>
<th>TENSILE STRENGTH (LBS)</th>
<th>MAX BREAK-OFF LIMITS MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>BG2041( )-06- J</td>
<td>-02</td>
<td>.193</td>
<td>.184</td>
<td>.193</td>
<td>.189</td>
<td>.193</td>
</tr>
<tr>
<td>BG2041( )-06- JX</td>
<td>-02</td>
<td>.203</td>
<td>.195</td>
<td>.202</td>
<td>.197</td>
<td>.202</td>
</tr>
<tr>
<td>BG2041( )-10- JY</td>
<td>-03</td>
<td>.391</td>
<td>.383</td>
<td>.390</td>
<td>.382</td>
<td>.390</td>
</tr>
</tbody>
</table>

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**Example of Part Number:**

**Designation:** " = NOMINAL DIA

**Designates Basic Part Number**

**Designates Basic Dimensions**

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**U.S. Patent No.:** 5,498,110; 5,634,751 AND FOREIGN PATENTS PENDING

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**Monogram Aerospace Fasteners**

3423 South Garfield Avenue
Commerce, California 90040
(323) 722-4760 FAX (323) 727-1029

a TriMas company
<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>BODY</th>
<th>SLEEVE</th>
<th>NUT</th>
<th>COREBOLT</th>
</tr>
</thead>
<tbody>
<tr>
<td>BG2041( )-( )-( )( )</td>
<td>INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM</td>
<td>PASSIVATE PER AMS2700 OR BAC5758 ALUMINUM COAT PER AMS-10-85 TYPE I, CL A</td>
<td>304 SS PER AMS5639 FULLY ANNEALED</td>
<td>CAD PLATE PER AMS-QQ-P-416 TYPE II, CL 1</td>
</tr>
<tr>
<td>BG2041A( )-( )-( )( )</td>
<td>INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM</td>
<td>PASSIVATE PER AMS2700 OR BAC5758 ALUMINUM COAT PER AMS-10-85 TYPE I, CL A</td>
<td>304 SS PER AMS5639 FULLY ANNEALED</td>
<td>PASSIVATE PER AMS-QQ-P-416 TYPE II, CL 1</td>
</tr>
<tr>
<td>BG2041B( )-( )-( )( )</td>
<td>INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM</td>
<td>PASSIVATE PER AMS2700 OR BAC5758 ALUMINUM COAT PER AMS-10-85 TYPE I, CL A</td>
<td>PASSIVATE PER AMS2700 OR BAC5758</td>
<td>PASSIVATE PER AMS2700 OR BAC5758</td>
</tr>
<tr>
<td>BG2041C( )-( )-( )( )</td>
<td>INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM</td>
<td>PASSIVATE PER AMS2700 OR BAC5758 ALUMINUM COAT PER AMS-10-85 TYPE I, CL A</td>
<td>PASSIVATE PER AMS2700 OR BAC5758</td>
<td>PASSIVATE PER AMS2700 OR BAC5758</td>
</tr>
</tbody>
</table>

**INSTALLATION SPECIFICATION:** BG2003  
**PROCUREMENT SPECIFICATION:** BG2000

**GENERAL NOTES:**

1. **LUBRICANT:** DRY FILM LUBRICANT PER THE CHEMICAL REQUIREMENTS OF MIL-L-PRF-46010, TYPE I AND/OR PARAFFIN WAX OR CETYL ALCOHOL AS REQUIRED FOR PERFORMANCE.

2. **LOCKING FEATURE CONSISTS OF THREE (3) INDENTATIONS LOCATED 120° APART ON THE PERIPHERY OF THE NUT COMPONENT.**

3. **SEE BG2003 FOR INSTALLATION AND REMOVAL INFORMATION.**

4. **GRIP LENGTHS NOT LISTED MAY BE AVAILABLE UPON REQUEST.**

5. **INSTALLATION HOLE SHALL BE RADIUS TO CLEAR HEAD TO SHANK RADIUS.**

6. **ALL DIMENSIONS TO BE MET AFTER FINISH AND BEFORE LUBRICATION.**

7. **BEARING SURFACE OF HEAD SHALL BE PERPENDICULAR TO SHANK DIAMETER WITHIN .002 T.I.R.**

**INSERT FABRICATED FROM ACETAL PLASTIC PER ASTM-D4181.**

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**U.S. PATENT NO.: 5,498,110; 5,634,751 AND FOREIGN PATENTS PENDING**