MANUFACTURER'S IDENTIFICATION "MI"

FASTENER IDENTIFICATION "2045" AND "BLANK" OR "X" OR "Y"

MANUFACTURER'S IDENTIFICATION "MI"

A TriMas Company

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

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

**MANUFACTURE OR REPRODUCTION OF THE ARTICLE DISCLOSED, AND THE DELIVERY OF THIS DOCUMENT SHALL NOT CONSTITUTE ANY RIGHT OR LICENSE TO DO SO.**

**ANY PERSON EXCEPT TO MEET THE PURPOSE FOR WHICH IT WAS DELIVERED.**

---

### Components

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>MATERIAL</th>
<th>FINISH</th>
<th>MATERIAL</th>
<th>FINISH</th>
<th>MATERIAL</th>
<th>FINISH</th>
<th>MATERIAL</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BG2045 1-1-1</td>
<td>INCO 718</td>
<td>PASSIVATE PER AMS2700 OR BAC5758</td>
<td>INCO 718</td>
<td>PASSIVATE PER AMS2700 OR BAC5758</td>
<td>304 SS</td>
<td>PASSIVATE AMP-QQ-P-416 TYPE II CLASS 1</td>
<td>CAD PLATE</td>
<td>CAD PLATE PER AMS QQ-P-416 TYPE II CLASS 1</td>
</tr>
<tr>
<td>BG2045A 1-1-1</td>
<td>INCO 718</td>
<td>PASSIVATE PER AMS2700 OR BAC5758</td>
<td>INCO 718</td>
<td>PASSIVATE PER AMS2700 OR BAC5758</td>
<td>304 SS</td>
<td>PASSIVATE AMP-QQ-P-416 TYPE II CLASS 1</td>
<td>CAD PLATE</td>
<td>CAD PLATE PER AMS QQ-P-416 TYPE II CLASS 1</td>
</tr>
<tr>
<td>BG2045B 1-1-1</td>
<td>INCO 718</td>
<td>PASSIVATE PER AMS2700 OR BAC5758</td>
<td>INCO 718</td>
<td>PASSIVATE PER AMS2700 OR BAC5758</td>
<td>304 SS</td>
<td>PASSIVATE AMP-QQ-P-416 TYPE II CLASS 1</td>
<td>CAD PLATE</td>
<td>CAD PLATE PER AMS QQ-P-416 TYPE II CLASS 1</td>
</tr>
<tr>
<td>BG2045C 1-1-1</td>
<td>INCO 718</td>
<td>PASSIVATE PER AMS2700 OR BAC5758</td>
<td>INCO 718</td>
<td>PASSIVATE PER AMS2700 OR BAC5758</td>
<td>304 SS</td>
<td>PASSIVATE AMP-QQ-P-416 TYPE II CLASS 1</td>
<td>CAD PLATE</td>
<td>CAD PLATE PER AMS QQ-P-416 TYPE II CLASS 1</td>
</tr>
</tbody>
</table>

**GENERAL NOTES:**

1. LUBRICANT: DRY FILM LUBRICANT PER THE CHEMICAL REQUIREMENTS OF AS5272. TYPE I AND/OR PARAFFIN WAX OR CETYL ALCOHOL AS REQUIRED FOR PERFORMANCE. AS5272 THICKNESS AND PAINT ADHESION REQUIREMENTS DO NOT APPLY. SOLID FILM LUBRICANT NOT ALLOWED ON SHANK OF BODY. SLIGHT OVERSPRAY OF SOLID FILM LUBRICANT INTO RECESS AND BODY EXTERIOR IS ACCEPTABLE.

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 NOT 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 DIA WITHIN .002 T.I.R.

8. INSERT FABRICATED FROM ACRYLIC PLASTIC PER ASTM-D-4181.

---

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

**TRI-MAS COMPANY**

**3423 SOUTH GARFIELD AVENUE, COMMERCE, CALIFORNIA 90040**

**PHONE (323) 722-4763 FAX (323) 727-1029**

**MONOGRAM AEROSPACE FASTENERS**

**TITLE:**

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

**DRAWING NO.:**

**BG2045 1-1-1**

**DRAWN BY:**

**M. DOMINGUEZ 07-01-13**

**APPROVED BY:**

**CHECKED BY:**

**REV:**

**SHEET 2 OF 2**

**DRAWING SHEET:**

**98524 15-0249 AB**

**REV.**

**06-24-2015**