### Typical Installation

![Diagram of corebolt installation](image)

- **B**: Hex
- **N**: Min
- **C**: Ref
- **D**: Dia
- **E**: Dia Max
- **F**: Flats
- **H**: Head Hts
- **J**: Dia Min
- **K**: Max
- **L**: Ref
- **N**: Min
- **R**: Max

### Table: Recommended Hole Size for Interference Installation

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Min Available Grip Dash No.</th>
<th>Recommended Hole Size for Clearance Installation</th>
<th>Prevaling Torque (in Lbs) Min</th>
<th>Double Shear (lbs) Min</th>
<th>Tensile Strength (lbs) Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>BG2081(05-)</td>
<td>142</td>
<td>163</td>
<td>4</td>
<td>5360</td>
<td>1350</td>
</tr>
<tr>
<td>BG2081(06-)</td>
<td>192</td>
<td>190</td>
<td>4</td>
<td>6130</td>
<td>1600</td>
</tr>
<tr>
<td>BG2081(06-)</td>
<td>252</td>
<td>218</td>
<td>6</td>
<td>7100</td>
<td>3000</td>
</tr>
<tr>
<td>BG2081(08-)</td>
<td>252</td>
<td>249</td>
<td>6</td>
<td>9300</td>
<td>5000</td>
</tr>
<tr>
<td>BG2081(08-)</td>
<td>348</td>
<td>295</td>
<td>8</td>
<td>10600</td>
<td>7000</td>
</tr>
<tr>
<td>BG2081(10-)</td>
<td>350</td>
<td>315</td>
<td>8</td>
<td>14600</td>
<td>5000</td>
</tr>
<tr>
<td>BG2081(12-)</td>
<td>407</td>
<td>373</td>
<td>10</td>
<td>26000</td>
<td>7000</td>
</tr>
</tbody>
</table>

**Example of Part Number:**

**Designation:** "\(\) = Nominal Dia

"\(\) = 1/64" Oversize

"\(\) = 1/32" Oversize

**Designates Max Grip in 1/16" Increments

**Designates Basic Dimensions

**Designates Special Code

**Designates Basic Part Number, See BG2004

### 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.

**Notice:**

Proprietary and Confidential:

U.S. Patent No.: 5,498,110; 5,634,751 and Foreign Patents Pending

This drawing is part of the proprietary article herein disclosed, owned by Monogram Aerospace Fasteners, any party by accepting this document assumes custodary thereof.

No person except to meet the purpose for which it was delivered.

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

**Approval:**

M. DOMINGUEZ

8/22/13

**Checked Date:**

8/22/13

**Drawing No.:**

BG2081(-)(-)(-)

**Title:**

OSI BOLT™

PROTRUDING HEX HEAD

CLOSE TOLERANCE SHANK

TITANIUM, 93 KSI SHEAR

1/16" GRIP VARIATION

**Drawing Date:**

8/22/13

**Rev:**

K

**Sheet 1 of 2**

**Trima company**

3423 SOUTH GARFIELD AVENUE

COMMERCE, CALIFORNIA 90040

(TOLL FREE) 1-877-272-4763

(FAX) (323) 727-1029

MONOGRAM AEROSPACE FASTENERS

a Tri 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>BG2081A-{ }</td>
<td>6AL-4V Ti OR AMS4928 HEAT TREATED AS REQ'D FOR PERFORMANCE</td>
<td>ALUM PIGMENTED COAT PER B4S-10-85 TYPE I, CL A</td>
<td>304 SS FULLY ANNEALED</td>
<td>PASSIVATE PER AM52700</td>
</tr>
<tr>
<td>BG2081B-{ }</td>
<td>6AL-4V Ti OR AMS4928 HEAT TREATED AS REQ'D FOR PERFORMANCE</td>
<td>PHOSPHATE FLUORIDE PER BAC5861</td>
<td>304 SS FULLY ANNEALED</td>
<td>PASSIVATE PER AM52700</td>
</tr>
<tr>
<td>BG2081C-{ }</td>
<td>6AL-4V Ti OR AMS4928 HEAT TREATED AS REQ'D FOR PERFORMANCE</td>
<td>ALUM PIGMENTED COAT PER B4S-10-85 TYPE I, CL A OR HI-KOTE™ PER NAS4006</td>
<td>304 SS FULLY ANNEALED</td>
<td>PASSIVATE PER AM52700</td>
</tr>
<tr>
<td>BG2081D-{ }</td>
<td>ALUM PIGMENTED COAT PER B4S-10-85 TYPE I, CL A</td>
<td>IV ALUM COAT PER MIL-C-83488 TYPE II, CL 3</td>
<td>304 SS FULLY ANNEALED</td>
<td>PASSIVATE PER AM52700</td>
</tr>
<tr>
<td>BG2081E-{ }</td>
<td>ANODIZE PER ISO 8080-1985</td>
<td>NO ALUMINUM COAT</td>
<td>304 SS FULLY ANNEALED</td>
<td>PASSIVATE PER AM52700</td>
</tr>
<tr>
<td>BG2081F-{ }</td>
<td>ALUMINUM COAT HY-KOTÉ™ PER NAS4006</td>
<td>ALUMINUM COAT HY-KOTÉ™ PER NAS4006</td>
<td>304 SS FULLY ANNEALED</td>
<td>PASSIVATE PER AM52700</td>
</tr>
<tr>
<td>BG2081G-{ }</td>
<td>NO ALUMINUM COAT</td>
<td>NO ALUMINUM COAT</td>
<td>304 SS FULLY ANNEALED</td>
<td>PASSIVATE PER AM52700</td>
</tr>
<tr>
<td>BG2081H-{ }</td>
<td>NO ALUMINUM COAT</td>
<td>NO ALUMINUM COAT</td>
<td>304 SS FULLY ANNEALED</td>
<td>PASSIVATE PER AM52700</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-44010, 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.
8. INSERT FABRICATED FROM ACETAL PLASTIC PER ASTM-D4181.

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