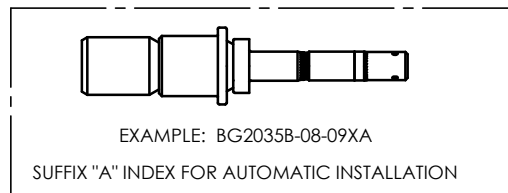
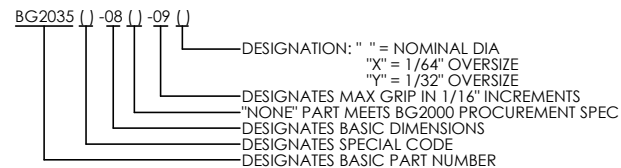


PART NUMBER	NOM DIA	A DIA THEO.	C REF	D DIA	E DIA MAX	F FLATS	H HEAD HTS	J DIA MIN	K MAX	L REF	M	N	R MAX	ADDITIONAL MARKING				
BG2035( )-06( )	3/16	.357	5/16	.1895	.1875	.112	.075	.290	.750	.850	.315	.047	.030	NONE				
BG2035( )-06( )X	13/64	.350		.2026	.1995		.109	.067		.300	.900			.305	.044	X		
BG2035( )-06( )Y	7/32	.403		.2182	.2150		.113	.103		.320	.900			.343	.333	Y		
BG2035( )-08( )	1/4	.440		.2495	.2470	.135	.090	.380	.800	.980	.405			.055	.050	NONE		
BG2035( )-08( )X	17/64	.430		.2485	.2620		.131	.082		.400	.980					.395	.435	X
BG2035( )-08( )Y	9/32	.480		.2651	.2620		.135	.125		.400	.850					1.040	.425	Y
BG2035( )-10( )	5/16	.505	3/8	.3120	.3090	.152	.112	.475	.950	1.100	.460	.068	.040			NONE		
BG2035( )-10( )X	21/64	.499		.3276	.3245		.149	.105		.495	1.125					.480	.470	X
BG2035( )-10( )Y	11/32	.520		.3432	.3400		.152	.105		.515	1.200					.480	.470	Y
BG2035( )-12( )	3/8	.600	7/16	.3745	.3715	.184	.140	.560	1.100	1.250	.560			.082	.077	NONE		
BG2035( )-12( )X	25/64	.594		.3901	.3870		.181	.133		.580	1.300					.575	.565	X
BG2035( )-12( )Y	13/32	.620		.4057	.4025		.181	.133		.600	1.320					.575	.565	Y

PART NUMBER	MIN AVAILABLE GRIP DASH NO.	RECOMMENDED HOLE SIZE FOR:		PREVAILING TORQUE (IN-LBS) MIN	DOUBLE SHEAR (LBS) MIN	TENSILE STRENGTH (LBS) MIN	BREAK-OFF LIMITS MAX
		CLEARANCE INSTALLATION	INTERFERENCE INSTALLATION				
BG2035( )-06( )	-02	.192	.1890	4	5360	1600	.015
BG2035( )-06( )X		.190	.1875				
BG2035( )-06( )Y		.205	.2015				
BG2035( )-08( )		.203	.1997	6	6130		
BG2035( )-08( )X		.2205	.2171				
BG2035( )-08( )Y		.2185	.2152				
BG2035( )-10( )	.252	.2489	8	7100	5000	.020	
BG2035( )-10( )X	.250	.2472					
BG2035( )-10( )Y	.268	.2640					
BG2035( )-12( )	.266	.2622	10	22700	7000		
BG2035( )-12( )X	.2835	.2796					
BG2035( )-12( )Y	.2815	.2777					
BG2035( )-10( )	.315	.3110	10	24600	7000	.020	
BG2035( )-10( )X	.313	.3092					
BG2035( )-10( )Y	.3305	.3265					
BG2035( )-12( )	.344	.3402	10	24600	7000		
BG2035( )-12( )X	.346	.3421					
BG2035( )-12( )Y	.377	.3735					
BG2035( )-12( )X	.375	.3717	10	24600	7000		
BG2035( )-12( )Y	.393	.3891					
BG2035( )-12( )Y	.391	.3872					
BG2035( )-12( )Y	.409	.4047	10	24600	7000		
BG2035( )-12( )Y	.407	.4027					



EXAMPLE OF PART NUMBER:



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

<p>MONOGRAM AEROSPACE FASTENERS a TriMas company 3423 SOUTH GARFIELD AVENUE COMMERCE, CALIFORNIA 90040 (323) 722-4760 FAX (323) 727-1029</p>	<p>TITLE: <b>OSI BOLT™ PROTRUDING HEAD CLOSURE TOLERANCE SHANK A286, 95 KSI SHEAR 1/16" GRIP VARIATION</b></p>	DRAWING NO: <b>BG2035( )-( )-( )-( )</b>	
		DRAWN BY: <b>G.MARTINEZ</b>	DRAWN DATE: <b>07-17-13</b>
		APPROVED BY:	CHECKED DATE:
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PART NUMBER	COMPONENTS							
	BODY		SLEEVE		NUT		COREBOLT	
	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH
BG2035-(-)(-)(-)	A286 CRES PER AMS5732 OR AMS5737; HEAT TREATED AS REQUIRED FOR PERFORMANCE	PASSIVATE PER AMS2700 & ALUMINUM COAT PER BMS-10-85 TYPE I, CLASS A	304 SS PER AMS5639 FULLY ANNEALED	CAD PLATE PER AMS-QQ-P-416 TYPE II, CLASS 1	A286 CRES PER AMS5732 OR AMS5737; HEAT TREATED TO 160 KSI MIN TENSILE <b>EXCEPT:</b> FOR -.08 DIA NOMINAL SIZE ONLY, INCO 718 PER AMS5662 HEAT TREATED TO 200 KSI MIN	CAD PLATE PER AMS-QQ-P-416 TYPE II, CLASS 1	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS2700
BG2035A-(-)(-)(-)	A286 CRES PER AMS5732 OR AMS5737; HEAT TREATED AS REQUIRED FOR PERFORMANCE	PASSIVATE PER AMS2700 & ALUMINUM COAT PER BMS-10-85 TYPE I, CLASS A	304 SS PER AMS5639 FULLY ANNEALED	CAD PLATE PER AMS-QQ-P-416 TYPE II, CLASS 1		PASSIVATE PER AMS2700	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS2700
BG2035B-(-)(-)(-)	A286 CRES PER AMS5732 OR AMS5737; HEAT TREATED AS REQUIRED FOR PERFORMANCE	PASSIVATE PER AMS2700 & ALUMINUM COAT PER BMS-10-85 TYPE I, CLASS A	304 SS PER AMS5639 FULLY ANNEALED	PASSIVATE PER AMS2700		PASSIVATE PER AMS2700	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS2700
BG2035C-(-)(-)(-)	A286 CRES PER AMS5732 OR AMS5737; HEAT TREATED AS REQUIRED FOR PERFORMANCE	PASSIVATE PER AMS2700	304 SS PER AMS5639 FULLY ANNEALED	PASSIVATE PER AMS2700		PASSIVATE PER AMS2700	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS2700
BG2035G-(-)(-)(-)	A286 CRES PER AMS5732 OR AMS5737; HEAT TREATED AS REQUIRED FOR PERFORMANCE	HI-KOTE I	304 SS PER AMS5639 FULLY ANNEALED	HI-KOTE I		PASSIVATE PER AMS2700	INCO 718 PER AMS5662 HEAT TREATED TO 125 KSI FSU MINIMUM	PASSIVATE PER AMS2700

INSTALLATION SPECIFICATION: BG2003  
 PROCUREMENT SPECIFICATION: BG2000

GENERAL NOTES:

- 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 BODY EXTERIOR IS ACCEPTABLE.
- LOCKING FEATURE CONSISTS OF THREE (3) INDENTATIONS LOCATED 120° APART ON THE PERIPHERY OF THE NUT COMPONENT.
- SEE BG2003 FOR INSTALLATION AND REMOVAL INFORMATION.
- GRIP LENGTHS NOT LISTED MAY BE AVAILABLE UPON REQUEST.
- INSTALLATION HOLE SHALL BE RADIUS TO CLEAR HEAD TO SHANK RADIUS.
- ALL DIMENSIONS TO BE MET AFTER FINISH AND BEFORE LUBRICATION.
- CONICAL SURFACE OF HEAD SHALL BE CONCENTRIC TO SHANK DIAMETER WITHIN .002 T.I.R.
- INSERT FABRICATED FROM ACETAL PLASTIC PER ASTM-D6778.

2ND DASH NO.	GRIP RANGE (INCHES)		2ND DASH NO.	GRIP RANGE (INCHES)	
	MIN GRIP	MAX GRIP		MIN GRIP	MAX GRIP
-02	.063	.125	-18	1.063	1.125
-03	.126	.187	-19	1.126	1.187
-04	.188	.250	-20	1.188	1.250
-05	.251	.312	-21	1.251	1.312
-06	.313	.375	-22	1.313	1.375
-07	.376	.437	-23	1.376	1.437
-08	.438	.500	-24	1.438	1.500
-09	.501	.562	-25	1.501	1.562
-10	.563	.625	-26	1.563	1.625
-11	.626	.687	-27	1.626	1.687
-12	.688	.750	-28	1.688	1.750
-13	.751	.812	-29	1.751	1.812
-14	.813	.875	-30	1.813	1.875
-15	.876	.937	-31	1.876	1.937
-16	.938	1.000	-32	1.938	2.000
-17	1.001	1.062			

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



TITLE:  
**OSI BOLT™**  
**PROTRUDING HEAD**  
**CLOSE TOLERANCE SHANK**  
**A286, 95 KSI SHEAR**  
**1/16" GRIP VARIATION**

DRAWING NO:  
**BG2035(-)(-)(-)(-)**

DRAWN BY: **G.MARTINEZ** DRAWN DATE: **07-17-13**

APPROVED BY: \_\_\_\_\_ CHECKED DATE: \_\_\_\_\_

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**MONOGRAM** ECN NO: **15-0244** REV: **AJ**  
 CAGE CODE: **98524** ECN DATE: **06-23-15** SHEET 2 OF 2