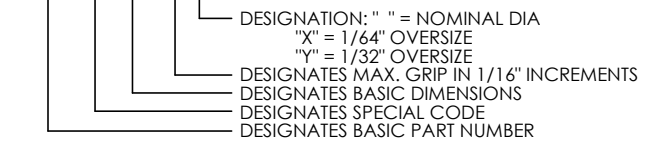


PART NUMBER	NOM DIA	A DIA THEO.	A' DIA MIN.	C REF	D DIA	E DIA MAX	F FLATS	H REF	J DIA MIN	K MAX	L REF	M	N	R MAX	V GAGE PROT	W GAGE DIA	Z MAX									
BG2044(-)06(-)	3/16				.1895 .1885	.1875		.071	.290																	
BG2044(-)06(-)X	13/64	.357 .351	.327	5/16	.2026 .2016	.1995	.112 .109	.067	.300	.750	.850	.315 .305	.047 .044	.030	.0474 .0432	.2440 .2438	.015									
BG2044(-)06(-)Y	7/32				.2182 .2172	.2150		.060												.900						
BG2044(-)08(-)	1/4				.2495 .2485	.2470		.098										.380		.800	.980	.435 .425				
BG2044(-)08(-)X	17/64	.480 .472	.442	3/8	.2651 .2641	.2620	.135 .131	.090	.400	.850	1.040	.405 .395	.055 .050	.0458 .0408	.3731 .3729											
BG2044(-)08(-)Y	9/32				.2807 .2797	.2775		.083											.420 .410							
BG2044(-)10(-)	5/16				.3120 .3110	.3090		.109				.475							.950	1.100	.460 .450					
BG2044(-)10(-)X	21/64	.568 .562	.522	7/16	.3276 .3266	.3245	.152 .149	.101	.495	1.100	1.125	.480 .470	.068 .063	.0582 .0524	.4320 .4318											
BG2044(-)10(-)Y	11/32				.3432 .3422	.3400		.094	.515									1.200	.560 .550							
BG2044(-)12(-)	3/8				.3745 .3735	.3715		.135	.560									1.250	.560 .550							
BG2044(-)12(-)X	25/64	.698 .692	.642	1/2	.3901 .3891	.3870	.184 .181	.128	.580	1.250	1.300	.575 .565	.082 .077	.0654 .0589	.5451 .5449											
BG2044(-)12(-)Y	13/32				.4057 .4047	.4025		.121	.600									1.320								
BG2044(-)14(-)	7/16				.4370 .4360	.4335		.155	.660									1.410	.640 .630							
BG2044(-)14(-)X	29/64	.804 .797	.750	1/2	.4526 .4516	.4490	.220 .217	.149	.680	1.350	1.480	.640 .630	.094 .089	.0635 .0573	.6582 .6580	.022										
BG2044(-)16(-)	1/2	.917 .910	.850		.4995 .4985	.4955	.256 .253	.175	.760								1.530	.740 .730		.1105 .1043						

EXAMPLE OF PART NUMBER:

BG2044 (-) - 08 - 09 (-)



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

**MONOGRAM AEROSPACE FASTENERS**  
 a TriMas company  
 3423 SOUTH GARFIELD AVENUE  
 COMMERCE, CALIFORNIA 90040  
 (323) 722-4760 FAX (323) 727-1029

TITLE:  
**OSI BOLT™**  
 MS20426 100° FLUSH TENSION HEAD  
 CLOSE TOLERANCE SHANK  
 INCONEL 718, 112 KSI SHEAR STRENGTH  
 1/16" GRIP VARIATION

DRAWING NO:  
**BG2044(-)(-)(-)(-)**

DRAWN BY: G.MARTINEZ  
 DRAWN DATE: 06-29-13

APPROVED BY:  
 CHECKED DATE:

4 2ND DASH NO.	GRIP RANGE (INCHES)	
	MIN GRIP	MAX GRIP
-02	.063	.125
-03	.126	.187
-04	.188	.251
-05	.251	.312
-06	.313	.375
-07	.376	.437
-08	.438	.500
-09	.501	.562
-10	.563	.625
-11	.626	.687
-12	.688	.750
-13	.751	.812
-14	.813	.875
-15	.876	.937
-16	.938	1.000
-17	1.001	1.062
-18	1.063	1.125
-19	1.126	1.187
-20	1.188	1.250
-21	1.251	1.312
-22	1.313	1.375
-23	1.376	1.437
-24	1.438	1.500
-25	1.501	1.562
-26	1.563	1.625
-27	1.626	1.687
-28	1.688	1.750
-29	1.751	1.812
-30	1.813	1.875
-31	1.876	1.937
-32	1.938	2.000

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
		4 CLEARANCE INSTALLATION	5 INTERFERENCE INSTALLATION				
BG2044(-)-06(-)		.192 .190	.1890 .1875	4	6300	1600	+.015 -.005
BG2044(-)-06(-)X		.205 .203	.2015 .1997		7250		
BG2044(-)-06(-)Y		.2205 .2185	.2171 .2152		8400		
BG2044(-)-08(-)		.252 .250	.2489 .2472	6	11000	3000	
BG2044(-)-08(-)X		.268 .266	.2640 .2622		12400		
BG2044(-)-08(-)Y		.2835 .2815	.2796 .2777		13900		
BG2044(-)-10(-)		.315 .313	.3110 .3092	8	17130	5000	+.020 -.005
BG2044(-)-10(-)X		.3305 .3285	.3265 .3247		18900		
BG2044(-)-10(-)Y		.346 .344	.3421 .3402		20750		
BG2044(-)-12(-)		.377 .375	.3735 .3717	10	24700	7000	
BG2044(-)-12(-)X		.393 .391	.3891 .3872		26800		
BG2044(-)-12(-)Y	-04	.409 .407	.4047 .4027		29000		
BG2044(-)-14(-)		.440 .438	.4360 .4340	12	33600	9500	+.025 -.005
BG2044(-)-14(-)X		.456 .454	.4516 .4496		36000		
BG2044(-)-16(-)	-05	.502 .500	.4985 .4965		43900		

PART NUMBER	COMPONENTS							
	BODY		SLEEVE		NUT		COREBOLT	
	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH
BG2044(-)-(-)-(-)	INCO 718 PER AMS 5662; HEAT TREATED TO 125 KSI FSU MIN.	PASSIVATE PER AMS 2700; ALUMINUM COAT PER BMS-10-85, TYPE 1, CLASS A	304 SS PER AMS 5639 FULLY ANNEALED	CAD. PLATE PER AMS-QQ-P-416, TYPE II, CLASS I	A-286 CRES PER AMS 5732 OR AMS 5737 HEAT TREATED TO 160 KSI MIN. TENSILE; <b>EXCEPT FOR: -08 DIA. NOMINAL SIZE ONLY; INCO 718 PER AMS 5662 HEAT TREATED TO 200 KSI FTU MIN.</b>	CAD. PLATE PER AMS-QQ-P-416, TYPE II, CLASS I	INCO 718 PER AMS 5662, HEAT TREATED TO 125 KSI FSU MIN.	PASSIVATE PER AMS 2700 OR BAC 5758
BG2044A(-)-(-)-(-)	INCO 718 PER AMS 5662; HEAT TREATED TO 125 KSI FSU MIN.	PASSIVATE PER AMS 2700; ALUMINUM COAT PER BMS-10-85, TYPE 1, CLASS A	304 SS PER AMS 5639 FULLY ANNEALED	CAD. PLATE PER AMS-QQ-P-416, TYPE II, CLASS I		PASSIVATE PER AMS 2700 OR BAC 5758	INCO 718 PER AMS 5662, HEAT TREATED TO 125 KSI FSU MIN.	PASSIVATE PER AMS 2700 OR BAC 5758
BG2044B(-)-(-)-(-)	INCO 718 PER AMS 5662; HEAT TREATED TO 125 KSI FSU MIN.	PASSIVATE PER AMS 2700; ALUMINUM COAT PER BMS-10-85, TYPE 1, CLASS A	304 SS PER AMS 5639 FULLY ANNEALED	PASSIVATE PER AMS 2700 OR BAC 5758		PASSIVATE PER AMS 2700 OR BAC 5758	INCO 718 PER AMS 5662, HEAT TREATED TO 125 KSI FSU MIN.	PASSIVATE PER AMS 2700 OR BAC 5758
BG2044C(-)-(-)-(-)	INCO 718 PER AMS 5662; HEAT TREATED TO 125 KSI FSU MIN.	PASSIVATE PER AMS 2700 OR BAC 5758	304 SS PER AMS 5639 FULLY ANNEALED	PASSIVATE PER AMS 2700 OR BAC 5758		PASSIVATE PER AMS 2700 OR BAC 5758	INCO 718 PER AMS 5662, HEAT TREATED TO 125 KSI FSU MIN.	PASSIVATE PER AMS 2700 OR BAC 5758

INSTALLATION SPECIFICATION: BG 2003  
 PROCUREMENT SPECIFICATION: BG 2000

GENERAL NOTES:

- LUBRICANT: SOLID FILM LUBRICANT PER 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 COREBOLT HEAD AND BODY HEAD SURFACES NOR ON EXTERIOR BODY. SLIGHT OVERSPRAY INTO RECESS AND 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 RADIUSSED 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 .005 T.I.R.
- INSERT FABRICATED FROM ACETAL PLASTIC PER ASTM-D-4181.

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



TITLE: OSI BOLT™  
 MS20426 100° FLUSH TENSION HEAD  
 CLOSE TOLERANCE SHANK  
 INCONEL 718, 112 KSI SHEAR STRENGTH  
 1/16" GRIP VARIATION

DRAWING NO: BG2044(-)-(-)-(-)  
 DRAWN BY: G.MARTINEZ  
 DRAWN DATE: 06-29-13  
 APPROVED BY:  
 CHECKED DATE:

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 ECN NO: 15-0248  
 ECN DATE: 06/24/2015  
 REV: AD  
 SHEET 2 OF 2