

PART NUMBER	ØA		ØD		ØE MAX.		F WRENCH FLATS		G REF.		H		L REF.		R RAD MAX.		T ACROSS HEX REF.		Z MAX.	
	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm
MBF2120-5(-)	.359 .329	9,119 8,357	.1645 .1625	4,178 4,128	.1640	4,166	.085 .080	2,16 2,03	.017	0,43	.060 .053	1,524 1,346	.512	13,00	.030	0,76	.375	9,52	.030	0,762
MBF2120-6(-)	.421 .391	10,693 9,931	.1985 .1965	5,042 4,991	.1985	5,042	.113 .108	2,87 2,74	.027	0,68	.070 .063	1,778 1,600	.575	14,61	.030	0,76	.375	9,52	.030	0,762
MBF2120-7(-)	.421 .391	10,093 9,931	.2275 .2255	5,778 5,728	.2275	5,778	.121 .116	3,07 2,95	.035	0,89	.070 .063	1,778 1,600	.635	16,13	.030	0,76	.375	9,52	.030	0,762
MBF2120-8(-)	.546 .516	13,868 13,106	.2595 .2575	6,591 6,541	.2595	6,591	.135 .130	3,43 3,30	.055	1,40	.085 .078	2,159 1,981	.700	17,78	.030	0,76	.375	9,52	.040	1,016
MBF2120-9(-)	.546 .516	13,868 13,106	.2895 .2875	7,353 7,303	.2895	7,353	.152 .147	3,86 3,73	.065	1,65	.085 .078	2,159 1,981	.815	20,70	.030	0,76	.500	12,70	.040	1,016
MBF2120-10(-)	.640 .610	16,256 15,494	.3115 .3095	7,912 7,861	.3110	7,899	.152 .147	3,86 3,73	.070	1,78	.105 .098	2,667 2,489	.892	22,66	.040	1,02	.500	12,70	.045	1,143
MBF2120-11(-)	.640 .610	16,256 15,494	.3435 .3415	8,725 8,674	.3433	8,720	.185 .180	4,70 4,57	.075	1,90	.105 .098	2,667 2,489	.941	23,90	.040	1,02	.500	12,70	.045	1,143
MBF2120-12(-)	.765 .735	19,431 18,669	.3745 .3725	9,512 9,462	.3740	9,500	.185 .180	4,70 4,57	.080	2,03	.125 .118	3,175 2,997	1,090	27,69	.040	1,02	.500	12,70	.045	1,143

PART NUMBER	MIN AVAILABLE GRIP DASH NO.	INSTALLED DIMENSIONS								MECHANICAL PROPERTIES					
		RECOMMENDED HOLE SIZE		ØJ MIN.		K MAX.		BREAK-OFF LIMITS		TENSILE STRUCTURAL FAILURE MIN.		DOUBLE SHEAR MIN.		LOCKING TORQUE MIN.	
		INCH	mm	INCH	mm	INCH	mm	INCH	mm	LBS	N	LBS	N	IN-LBS	Nm
MBF2120-5(-)	-100	.168 .165	4,27 4,19	.250	6,35	.300	7,62	+103 -000	+2,62 -0,00	900	4000	3150	14010	1.0	0,113
MBF2120-6(-)	-100	.202 .199	5,13 5,05	.300	7,62	.350	8,89	+103 -000	+2,62 -0,00	1400	6230	4600	20460	1.5	0,170
MBF2120-7(-)	-100	.231 .228	5,88 5,79	.350	8,89	.400	10,16	+103 -000	+2,62 -0,00	1600	7120	6050	26910	2.0	0,226
MBF2120-8(-)	-150	.263 .260	6,68 6,60	.400	10,16	.450	11,43	+103 -000	+2,62 -0,00	2100	9340	7900	35140	2.5	0,282
MBF2120-9(-)	-150	.293 .290	7,44 7,37	.450	11,43	.500	12,70	+103 -000	+2,62 -0,00	2600	11565	9800	43590	3.0	0,339
MBF2120-10(-)	-150	.315 .312	8,00 7,92	.475	12,06	.550	13,97	+103 -000	+2,62 -0,00	3600	16010	11350	50480	3.5	0,400
MBF2120-11(-)	-150	.347 .344	8,81 8,74	.525	13,33	.575	14,60	+103 -000	+2,62 -0,00	4400	19570	13850	61600	4.0	0,452
MBF2120-12(-)	-150	.378 .375	9,60 9,52	.575	14,60	.625	15,87	+103 -000	+2,62 -0,00	5000	22240	16450	73170	4.0	0,452

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

TITLE:  
**BLIND FASTENER, LOW PROFILE PROTRUDING HEAD FOR ADVANCED COMPOSITE MATERIALS A286 CRES**

DRAWING NO:  
**MBF2120-( )-( )**

DRAWN BY:  
**G.MARTINEZ**

APPROVED BY:

DRAWN DATE:  
**08-08-13**

CHECKED DATE:

**PROPRIETARY AND CONFIDENTIAL:**  
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**MONOGRAM**  
CAGE CODE: **98524**

ECN NO:  
**17-0216**

ECN DATE:  
**09-08-17**

REV:  
**W**

SHEET 1 OF 2

APPLICABLE SPECIFICATIONS:

PROCUREMENT SPECIFICATION: MBF2000  
 SPECIAL LUBE AND FINISH: MBF2002  
 INSTALLATION AND INSPECTION SPECIFICATION: MBF2003  
 PART NUMBER ASSIGNMENT: MBF2005

MATERIAL AND HEAT TREAT:

NUT & SCREW: A286 PER THE CHEMICAL REQUIREMENTS OF AMS5731, AMS5732, AMS5734 AND AMS5737. HEAT TREATED AS REQUIRED FOR PERFORMANCE.

SLEEVE: 304 STAINLESS STEEL PER AMS5639, HEAT TREATED AS REQUIRED FOR PERFORMANCE.

INSERT: ACETAL PER ASTM-D6778

DRIVE NUT: MILD STEEL.

FINISH:

NUT, SCREW & SLEEVE: PASSIVATE PER AMS-QQ-P-35., CONVERSION COATING OPTIONAL.

INSERT: NONE.

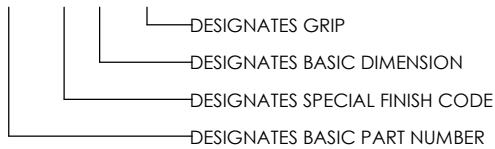
DRIVE NUT: CORROSION RESISTANT COATING COLOR BLACK.

LUBRICANT:

DRY FILM LUBE PER AS5272 TYPE I OR EVERLUBE #812 PER MIL-L-81329, PARAFFIN WAX, OR CETYL ALCOHOL PER AS87132.

GENERAL NOTES:

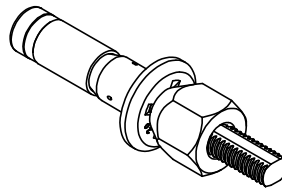
- EXAMPLE OF PART NUMBER:  
MBF2120 ( ) - 6 - 100



- LOCKING FEATURE CONSISTS OF THREE (3) INDENTATIONS LOCATED 120 ° APART ON THE PERIPHERY OF THE NUT COMPONENT AND APPROXIMATELY .040" ABOVE INTERSECTION OF THE NUT NOSE ANGLE AND O.D.

- △ DISTORTION SHALL NOT PREVENT INSERTION OF THE FASTENER INTO A RING GAUGE OF LENGTH EQUAL TO ONE DIAMETER AND HOLE DIAMETER EQUAL TO A MINIMUM RECOMMENDED HOLE. FORCE FOR INSERTION SHALL NOT EXCEED 5.0 POUNDS.

2ND DASH NO. (GRIP)	GRIP RANGE			
	MIN GRIP		MAX GRIP	
	INCH	mm	INCH	mm
100	.050	1.27	.100	2.54
150	.100	2.54	.150	3.81
200	.150	3.81	.200	5.08
250	.200	5.08	.250	6.35
300	.250	6.35	.300	7.62
350	.300	7.62	.350	8.89
400	.350	8.89	.400	10.16
450	.400	10.16	.450	11.43
500	.450	11.43	.500	12.70
550	.500	12.70	.550	13.97
600	.550	13.97	.600	15.24
650	.600	15.24	.650	16.51
700	.650	16.51	.700	17.78
750	.700	17.78	.750	19.05
800	.750	19.05	.800	20.32
850	.800	20.32	.850	21.59
900	.850	21.59	.900	22.86
950	.900	22.86	.950	24.13
1000	.950	24.13	1.000	25.40
1050	1.000	25.40	1.050	26.67
1100	1.050	26.67	1.100	27.94
1150	1.100	27.94	1.150	29.21
1200	1.150	29.21	1.200	30.48
1250	1.200	30.48	1.250	31.75
1300	1.250	31.75	1.300	33.02
1350	1.300	33.02	1.350	34.29
1400	1.350	34.29	1.400	35.56
1450	1.400	35.56	1.450	36.83
1500	1.450	36.83	1.500	38.10
1550	1.500	38.10	1.550	39.37
1600	1.550	39.37	1.600	40.64
1650	1.600	40.64	1.650	41.91
1700	1.650	41.91	1.700	43.18



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DRAWING NO:  
**MBF2120-( )-( )**

DRAWN BY: **G.MARTINEZ** DRAWN DATE: **08-08-13**

APPROVED BY: CHECKED DATE:

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