



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

MAR-BRO MANUFACTURING, INC.  
1020 S. 54<sup>th</sup> Avenue  
Phoenix, AZ 85043  
Frederick J. Martinez Phone: 602 278 8197

MECHANICAL

Valid To: January 31, 2020

Certificate Number: 1272.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following fastener tests<sup>1</sup>:

<u>Test</u>	<u>Test Methods</u>
Hardness (HRC & HRBW)	ASTM E18
Axial Tensile	ASTM F606/F606M
Yield	ASTM F606/F606M
Wedge Tensile	ASTM F606/F606M
Elongation	ASTM F606/F606M
Proof Load, Length Measurement	ASTM F606/F606M
Reduction in Area	ASTM F606/F606M
Total Extension at Fracture	ASTM F606/F606M, (Withdrawn 2015) F738M <sup>3</sup> , F837/F837M, F879/F879M

Dimensional Testing<sup>1</sup>:

Parameter	Range	Technique/Standards
Linear <sup>2</sup>	Up to 1 in Up to 12 in Up to 12 in Up to 1 in	MIL-STD-120  Digital major gage Calipers Digital length gage Optical comparator

Parameter	Range	Technique/Standards
Threads <sup>2</sup> (External)	# 10 to 0.5 in M5 to M16  0-80 to 3/4 in	ASME B1.1, B1.3M Systems 21, 22  Tri-rolls  Ring gages
Recess Depth <sup>2</sup>	Up to 1 in	ASME B18.3, B18.3.1M, B18.3.3M, B18.3.4M, B18.3.5M; ANSI B18.6.3  Digital indicator
Flat Head Protrusion <sup>2</sup>	Up to 1 in	ASME B18.3, B18.3.5M; ANSI B18.6.3  Protrusion gage
Head Height <sup>2</sup>	Up to 1 in	MIL-STD-120  Protrusion gage
Radius <sup>2</sup>	Up to 1 in	Optical comparator
Angle <sup>2</sup>	(0 to 360) <sup>o</sup>	Optical comparator

<sup>1</sup> This laboratory is not normally available for commercial dimensional testing services.

<sup>2</sup> This test is not equivalent to that of a calibration.

<sup>3</sup> This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.



## *Accredited Laboratory*

A2LA has accredited

**MAR-BRO MANUFACTURING, INC.**

*Phoenix, AZ*

for technical competence in the field of

**Mechanical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).



Presented this 22<sup>nd</sup> day of March 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 1272.01  
Valid to January 31, 2020

*For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.*