



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

ALPHA STAMPING CO.

Livonia, MI

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 8 January 2009*).



Presented this 18th day of July 2011.

A handwritten signature in black ink, appearing to read "Peter Mlynek".

President & CEO
For the Accreditation Council
Certificate Number 1215.01
Valid to July 31, 2013

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



SCOPE OF ACCREDITATION TO ISO 17025:2005

ALPHA STAMPING CO.
 33375 Glendale Avenue
 Livonia, MI 48150
 Bill Bovenza Phone 734 466 8849

MECHANICAL

Valid To: July 31, 2013

Certificate Number: 1215.01

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

<u>Test</u>	<u>Test Methods</u>
Mechanical Testing	
Hardness	
Rockwell, Rockwell Superficial – A, B, C, N, T	ASTM E18
DTI Compression Testing	ASTM F959 / F959M, F606 / F606M
Chemical Testing	
LECO GDS500A Spectrometer (Full Chemistry)	ASTM E1019

I. Dimensional Testing¹:

<u>Parameter</u>	<u>Range</u>	<u>CMC² (±)</u>	<u>Technique</u>	<u>Standards</u>
Linear ³	(0.028 to 1.00) in		Pin gages	MIL-STD-120
	(0 to 1.0000) in	0.0003 in	Ball micrometer	
	(0 to 3.0000) in	0.0005 in	Flat micrometer	
	(0 to 1.000) in	0.0008 in	Point micrometer	
	(0 to 6.000) in	0.0007 in	Caliper	
	(0 to 1.000) in	0.0004 in	Dial indicator	
	(0 to 7.5000) in	0.0005 in	Optical comparator	
	(0 to 16.000) in	0.00014 in	CMM machine	
Angle ³	(0 to 360) °	0.1 °	Optical comparator	MIL-STD-120
	(0 to 360) °	0.01 °	CMM machine	

<u>Parameter</u>	<u>Range</u>	<u>CMC² (\pm)</u>	<u>Technique</u>	<u>Standards</u>
Radii ³	(0.02 to 0.7600) in	0.001 in	Optical comparator	MIL-STD-120
	(0.02 to 6.0000) in	0.00032 in	CMM machine	

¹This laboratory offers commercial dimensional testing service only.

²Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine measurements of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific measurement performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific measurement.

³This test is not equivalent to that of a calibration.

