



Accredited Laboratory

A2LA has accredited

MCGARD LLC/L.D. MCCAULEY LLC

Orchard Park, NY

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 9th day of April 2026.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4743.01
Valid to February 29, 2028

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

MCGARD LLC/L.D. MCCAULEY LLC
 3875 California Rd.
 Orchard Park, NY 14127
 Dennis James Sieracki Phone: 716 445 0486

MECHANICAL

Valid To: February 29, 2028

Certificate Number: 4743.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on specialty fasteners, security fasteners, and security devices:

<u>Test(s):</u>	<u>Test Method(s):</u>
Metallurgy Lab: Depth of Decarburization Case Depth Macro Evaluation Metallographic Evaluation Micro Hardness (Knoop & Vickers)	ASTM E1077; SAE J419, J121 (2013) ASTM F2328; SAE J423 (Sections 5.2 and 6.3) ASTM E340 (Etching), ML-11 (Visual Inspection) ASTM E883 ASTM E384 (50 gf and 500gf)
Engineering Lab: Torque Cycle Testing Torque Tension Testing Torque to Failure/Static Testing Impact Cycle Testing L-Handle Cycle Testing <i>Chemical Testing:</i> Resistance to Fluids	GMW 14994, GMW14995; LTP 2 & 38 Automatic ¹ , LTP 3 Manual ¹ GMW 14994, 14995, ISO 16047, LTP1 ¹ & 38 LTP 2 Automatic ¹ , LTP 3 Manual ¹ & LTP 38 LTP 18 Automatic, LTP 14 Manual LTP 21 Automatic, LTP 4 Manual GMW 14334 Class B; LTP 29, LTP 30 ¹
Plating Lab: Cass Salt Spray Thickness of Platings X-Ray Coulometric and STEP Microscopic Examination	ASTM B368; GMW 14458; Toyota PPS-1001; ISO 9227 ASTM B117; GMW 3286; Chrysler 463PB-10- 01; GM 4298P (2010); ISO 9227 ASTM B568, ISO 3497; ISO 2177; ASTM B764; ASTM B487

<u>Test(s):</u>	<u>Test Method(s):</u>
Plating Adhesion Saw/Grind Thermal Shock	ASTM B571 GMW 14672 Class B GMW 14672, GMW 3044, ASTM B571
Pore/Discontinuities Count	ASTM B456 Appendix X4
Quality Assurance Lab: Hardness (Rockwell) A, B, C, 15N, 30N, 45N DeEmbrittlement on Lock and Key Assemblies Proofload/Compression (Tinius)	ASTM E18, E140, A370 (Section 18), A623, F606/F606M; SAE/USCAR-7; ASTM F606/F606M, A370; SAE J1216; GMW 17370;
Tensile and Proof Load Testing Discontinuities Testing	ASTM A370; Chrysler PS 7138; GMW 17370; ISO 6157-1, 6157-2
Magni Adhesion	ASTM D3359 Method A

I. Dimensional Testing³

Parameter/Equipment	Range	CMC ³ (±)	Comments
Linear ⁴ –	Up to 1 in	0.000 18 in	Point micrometers
	Up to 1 in	0.000 27 in	Blade micrometers
	Up to 1 in	0.000 27 in	O.D. micrometers
	(1 to 2) in	0.000 25 in	O.D. micrometers
	Up to 6 in	0.0015 in	Calipers
	Up to 0.030 in	0.000 65 in	Tri-roll concentricity gages with indicators



Parameter/Equipment	Range	CMC ² (±)	Comments
Linear ⁴ – (cont)	Up to 1 in	0.000 22 in	Digital indicator, height gages
	Up to 2 in	0.000 38 in	
	Up to 2 in	0.0024 in	
	Up to 12 in	0.0016 in	Dial height gage
	X = 12 in, Y = 9 in	0.0011 in	Optical comparator
	X = 8 in, Y = 8 in, Z = 6 in	0.0010 in	Smart scope
	(0.011 to 0.750) in	11 µin	Pin gages
	Ra: Up to 250 µin Rz: Up to 1000 µin Rmax: Up to 1000 µin	Ra: 4.5 µin Rz: 29 µin Rmax: 37 µin	Surface finish roughness (Surf-com Flex 50A)
	(0.138-32 to 9/16-18) in (M3 x 0.5 to M30 x 2.0) mm	75 µin 0.001 88 mm	External Johnson thread gage
(0.3125-30 to 1.0-20) in (M6 x 1.0 to M14 x 1.25) mm	130 µin 0.0032 mm	Internal Johnson thread gage	
Angle ⁴ –	(0 to 90) °	0.29 °	Optical comparator
Radius ⁴ –	Up to 3 in	0.0012 in	Optical comparator

¹ This laboratory also uses customer-supplied specifications directly related to the testing technologies and parameters listed above.

² Calibration 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

³ This laboratory does not offer commercial dimensional testing service, only internal for PPAP only.

⁴ This test is not equivalent to that of a calibration.