



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

SPEC LAB  
3F, No. 358, Sec. 1 Dongmen Road  
Tainan, 70142  
Taiwan, R.O.C.  
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MECHANICAL

Valid To: June 30, 2024

Certificate Number: 2706.01

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 Method(s)</u>
Hardness and Superficial Hardness –  Rockwell (BW, C, 15N, 30N) Vickers (0.3/0.5/1/3/5/10) kgf	ASTM E18, F606/F606M; ASTM E384, E92
Case Depth (Hardness Method)	SAE J78, J81, J1237
Decarburization (Hardness Method)	ASTM F2328, F2328M; ISO 898-1
Torsional Strength	SAE J78, J81, J933, J1237
Drive Test	SAE J81, J933, J1237
Drive Torque	SAE J81, J1237
Hydrogen Embrittlement	ISO 15330; SAE J78, J81, J1237
Surface Roughness	ASME B46.1

I. Dimensional Testing<sup>1</sup>

Parameter/Equipment	Range	Uncertainty ( $\pm$ )	Comments
Angle	(0 to 360) $^{\circ}$	0.1 $^{\circ}$	Visual measuring machine/MT102
Radius	Up to 14 mm	0.024 mm	Visual measuring machine/MT102
Length – 1 D	Up to 25 mm	0.0088 mm	Outside micrometer/MT102
	Up to 300 mm	0.016 mm	Caliper/MT102
	Up to 150 mm	0.026 m	Length gage/JIS B1071
	(2 to 5) mm	0.0105 mm	Tri-Lobular Diameter Gage/MT102
	Up to 175 mm	0.0072 mm	Visual measuring machine/MT102
Concentricity, Runout, and Perpendicularity	Up to 1 mm	0.020 mm	Dial gage and fixtures/JIS B1071

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<sup>1</sup> Commercial dimensional testing service is sometimes available for this laboratory. These tests are not equivalent to that of a calibration.



# Accredited Laboratory

A2LA has accredited

**SPEC LAB**

*Tainan, Taiwan, R.O.C.*

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 22<sup>nd</sup> day of August 2022.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2706.01  
Valid to June 30, 2024

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