SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CHUN YU WORKS & CO., LTD.
QUALITY ASSURANCE DEPARTMENT TESTING LABORATORY
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MECHANICAL

Valid To: April 30, 2026 Certificate Number: 0877.01

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

Test:	**Test Method(s):**
Depth of Decarburization (Hardness and Microscopic Method)	ASTM F2328, F2328M; ISO 898-1; JIS B1051
Discontinuities	ISO 6157-1, 6157-2 *(Excluding Cone Proof Load),* 6157-3; JIS B1041, B1042
Hardness:	
Rockwell: HRC HRBW, HR30N, HR30TW	ASTM E18, F606/F606M; ISO 898-1, 898-2; JIS B1051, Z2245; SAE J429
Vickers: HV1, HV5, HV10, HV30	ASTM E92; JIS Z2244-1; SAE J78
Micro-Hardness:	
Vickers: HV0.2, HV0.3, HV0.5	ASTM E384; SAE J78; JIS Z2244-1
Magnetic Particle Inspection (Bench, Fluorescent)	ASTM E709
Metallographic Evaluation	
Microetch	ASTM E3, E407
Chemical composition -Optical Emission Spectrometry Carbon & Low Alloy Steel (Al, C, Cr, Cu, Mn, Mo, Ni, P, S, Si, Ti, V)	ASTM E415

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Test:	**Test Method(s):**
Plating and Coating Thickness	
Optical	ASTM B487
X-Ray (Zn/Fe, Ni/Fe)	ASTM B568; JIS B1044; ISO 4042
Magnetic	ASTM B499
Proof – External Thread Fasteners	ASTM F606/F606M; ISO 898-1; JIS B1051; SAE J429
Proof – Internal Thread Fasteners (Excluding Cone Proof)	ASTM A563/A563M, F606/F606M; ISO 898-2; SAE J995
Retemper Hardness (HRBW, HBW)	ASTM A194/A194M
Rotational Capacity (Zinc Plated Product)	ASTM A325 (*Inactive 2014*), A325M (*Inactive 2014*), F3125/F3125M
Salt Spray	ASTM B117; ISO 9227
Tensile	
Axial & Wedge (Full Size)	ASTM A370, E8/E8M, F606/F606M; ISO 898-1; JIS B1051; SAE J429
Yield Strength	ASTM A370, F606/F606M; ISO 898-1; JIS B1051
Elongation	ASTM A370, F606/F606M; ISO 898-1; JIS B1051, Z2241
Reduction of Area	ASTM A370, E8/E8M, F606/F606M; ISO 898-1; JIS B1051
Stud Welding-Bend	AWS D1.1/D1.1M (Sec. 9.6.7.1)
Stud Welding-Tension	AWS D1.1/D1.1M (Sec. 9.6.7.3)
Torque-Tension	ASTM F1852 (*Inactive 2014*), F2280 (*Inactive 2014*); F3125/F3125M; JIS B1186; JSSII 09; GB/T 3632
Hydrogen Embrittlement	ISO 15330; JIS B1045

I. Dimensional Testing[1]

Parameter	Range	Technique / Method
Angle[2]	0° to 360°	2D Profile / Chapter 40 of CY-G4-02-04
External Threads[2] – Functional Diameter	M3 to M30 (#4 to 1 1/4) in M6 to M12	Thread ring gage / ISO 1502, ASME B 1.2 Thread tri-roller gage / ISO 1502, ASME B 1.2
Head Height[2]	Up to 20 mm	Dial indicator / JIS B1071
Internal Threads[2] – Functional Diameter	M3 to M33 (#8 to 1 1/4) in	Thread plug gage / ISO 1502, ASME B 1.2
Linear[2] – 1D 1D 2D	 Up to 150 mm Up to 300 mm Up to 25 mm (25 to 50) mm X axial: Up to 200 mm Y axial: Up to 100 mm	 Caliper / JIS B1071 Caliper / JIS B1071 Micrometer / JIS B1071 Micrometer / JIS B1071 2D profiler / Chapter 40 of CY-G4-02-04
Radii[2]	Up to 2 in	2D Profile / Chapter 40 of CY-G4-02-04

I. Dimensional Testing (continued)[1]

Parameter	Range	Technique / Method
Recesses[2]	Socket: M3 to M22; (1/4 to 5/8) in 6-Lobes: T8 to T60 Square: No. 0 to No. 3	Plug gages /ASME B18.3, B18.6.3; ISO 4762, 23429; JIS B1016
Recesses Depth[2]	Socket: M3 to M22; (1/4 to 5/8) in 6-Lobes: T6 to T60 Square: No. 0 to No. 3	Recess depth gauge / ASME B18.3, B18.6.3; ISO 4762

[1] Commercial dimensional testing services are sometimes available for this laboratory.

[2] This test is not equivalent to that of a calibration.

Accredited Laboratory

A2LA has accredited

CHUN YU WORKS & CO., LTD.

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 21st day of May 2024.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0877.01
Valid to April 30, 2026

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