

Name of Accreditation Program	JCSS Accreditation Program
Accreditation Identification	JCSS 0149 Calibration
Name of Conformity Assessment Body	Calibration Center, Yamamoto Scientific Tool Laboratory Co., Ltd.
Name of Legal Entity	Yamamoto Scientific Tool Laboratory Co., Ltd. JCN 2040001007658
Inquiry Point	Calibration Center TEL: +81-47-431-7451 FAX: +81-47-432-8592

*JCN: Japan Corporate Number



23·06·15-NITE-011
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Certificate of Accreditation

International Accreditation Japan (IAJapan) hereby accredits the following conformity assessment body as a calibration laboratory of Japan Calibration Service System.

Accreditation Identification: JCSS 0149 Calibration

Name of Conformity Assessment Body: Calibration Center,
Yamamoto Scientific Tool Laboratory Co., Ltd.

Name of Legal Entity: Yamamoto Scientific Tool Laboratory Co., Ltd.

Location of Conformity Assessment Body: 2-15-4 Sakae-cho, Funabashi-shi, Chiba 273-0018, JAPAN

Scope of Accreditation: Hardness (as the following pages)

Accreditation Requirement: ISO/IEC 17025:2017*

* The relevant accreditation requirements described in the Accreditation Scheme Document for JCSS are also applied.

Effective Date of Accreditation: 2024-03-23

Expiry Date of Accreditation: 2028-03-22

Date of Initial Accreditation: 2009-01-29

SAITO Kazunori

Chief Executive, International Accreditation Japan (IAJapan)

National Institute of Technology and Evaluation

- International Accreditation Japan (IAJapan) is a laboratory accreditation body which has signed MRAs of ILAC (International Laboratory Accreditation Cooperation) and APAC (Asia Pacific Accreditation Cooperation).

- MRA requirements are, in addition to relevant international standards and guides, requirements for participation in proficiency testing programs, surveillance and reassessment, and the policy for the traceability of measurement for MRA purpose.

- This laboratory fulfills ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation means this laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

- The latest accreditation information is publicly available on IAJapan Website as an accreditation certificate.

General Field of Calibration: HardnessDate of Initial Accreditation of the Field: 2009-01-29Laboratory's permanent facility/On-site Calibration: Laboratory's permanent facilityCalibration and Measurement Capabilities

Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range	Expanded Uncertainty (Level of Confidence Approximately 95 %)
Rockwell Hardness Testing Machines, etc.	Rockwell Hardness Reference Block	From 20 HRC up to 25 HRC	0.49 HRC
		More than 25 HRC less than 35 HRC	0.51 HRC
		From 35 HRC up to 45 HRC	0.50 HRC
		More than 45 HRC less than 55 HRC	0.43 HRC
		From 55 HRC up to 65 HRC	0.35 HRC
Vickers Hardness Testing Machines, etc.	Vickers Hardness Reference Block	From 85 HV up to 1050 HV Test force From 0.09807 N up to 490.4 N (From HV 0.01 up to HV 50)	a) $d < 190 \mu\text{m}$ $0.142 + (410 / d) \%$ b) $d \geq 190 \mu\text{m}$ 2.3 % Where: d is the length of a diagonal line of the indentation
Brinell Hardness Testing Machines, etc.	Brinell Hardness ReferenceBlock	100 HBW 10/3000	1.7 %
		150 HBW 10/3000	1.6 %
		180 HBW 10/3000	1.6 %
		200 HBW 10/3000	1.6 %
		229 HBW 10/3000	1.3 %
		250 HBW 10/3000	1.3 %
		300 HBW 10/3000	1.3 %
		350 HBW 10/3000	1.3 %
		400 HBW 10/3000	1.3 %
		450 HBW 10/3000	1.3 %
		500 HBW 10/3000	1.3 %
		550 HBW 10/3000	1.3 %
		600 HBW 10/3000	1.3 %
		650 HBW 10/3000	1.3 %
		50 HBW 10/1500	1.7 %
		100 HBW 10/1500	1.6 %
		150 HBW 10/1500	1.6 %
		200 HBW 10/1500	1.5 %
		250 HBW 10/1500	1.3 %
		300 HBW 10/1500	1.3 %
		50 HBW 10/1000	1.6 %
		100 HBW 10/1000	1.6 %
		150 HBW 10/1000	1.5 %
200 HBW 10/1000	1.5 %		
50 HBW 10/500	1.6 %		
100 HBW 10/500	1.5 %		
100 HBW 5/750	1.7 %		

		150 HBW 5/750	1.6 %
		180 HBW 5/750	1.6 %
		200 HBW 5/750	1.6 %
		229 HBW 5/750	1.3 %
		250 HBW 5/750	1.3 %
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		500 HBW 5/750	1.3 %
		550 HBW 5/750	1.3 %
		600 HBW 5/750	1.3 %
		650 HBW 5/750	1.3 %

#All Calibration Procedures are in-house procedures developed by this laboratory.