



財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

(Certificate No : L0193-240926)

This is to certify that

**Jingstone Precision Measurement & Calibration Technology
International Consultant Co., Ltd.
Dimensional Calibration Laboratory of Precision Instrument Calibration &
Measuring Center**

No. 168, Guang Wu Rd., Kaohsiung City 807, Taiwan (R.O.C.)

is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:2017 ; CNS 17025:2018

Accreditation Number : 0193

Originally Accredited : November 01, 1994

Effective Period : September 25, 2024 to September 24, 2027

Accredited Scope : Calibration Field, see described in the Appendix



Scan to verify

Yi-Ling Chen

Yi-Ling Chen
President, Taiwan Accreditation Foundation
September 26, 2024

Accreditation Number : 0193

Laboratory Head : PAN, Yen-Ming

Length

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KA1001 Long Gauge Block	long Gauge Block /METROLOGY, Grade 0 Universal Length Measuring Instrument/METROLOGY/ULM-9000C	In-house method: Long gauge block calibration procedure (Document No.: JS-SCP-KA102)	125	mm	125	mm	Steel	0.4	μm
			150	mm	150	mm	Steel	0.4	μm
			175	mm	175	mm	Steel	0.5	μm
			200	mm	200	mm	Steel	0.5	μm
			250	mm	250	mm	Steel	0.6	μm
			300	mm	300	mm	Steel	0.7	μm
			400	mm	400	mm	Steel	0.9	μm
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									
KA1001 gauge block (steel, DIN/122 pcs)	Gauge Block /METROLOGY /GB-9122-0, grade 0	In-house method: gauge block calibration procedure (Document No.: JS-SCP-KA101)	0.5	mm	1.2	mm	Steel	0.11	μm
			1.21	mm	1.5	mm	Steel	0.11	μm
			1.6	mm	10	mm	Steel	0.11	μm
			10.5	mm	20	mm	Steel	0.12	μm
			20.5	mm	25	mm	Steel	0.12	μm
			30	mm	50	mm	Steel	0.15	μm
			60	mm	75	mm	Steel	0.19	μm
80	mm	100	mm	Steel	0.24	μm			
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KA1002 Plug Gauge	Universal Length Measuring Instrument /METROLOGY /ULM-9000C	In-house method: Plug Gauge calibration procedure (Document No.: JS-SCP-KA103)	0.1	mm	5	mm	Diameter	0.6	μm
			> 5	mm	100	mm	Diameter	0.9	μm
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									
KA1003 Ring Gauge	Universal Length Measuring Instrument /METROLOGY /ULM-9000C /Ring Gauge (METROLOGY DIN Grade X)	In-house method: Ring Gauge calibration procedure (Document No.: JS-SCP-KA104)	2	mm	6	mm	Diameter	0.6	μm
			> 6	mm	20	mm	Diameter	0.6	μm
			> 20	mm	40	mm	Diameter	1.9	μm
			> 40	mm	100	mm	Diameter	1.9	μm
			> 100	mm	200	mm	Diameter	2.0	μm
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									
KA1007 Thread Ring Gauge	Gauge Block /METROLOGY /GB-9122-0, grade 0 Universal Length Measuring Instrument /METROLOGY /ULM-9000C	In-house method: Thread Ring Gauge calibration procedure (Document No.: JS-SCP-KA105)	M14		M40		Effective diameter (@ 60° Thread angle)	1.8	μm
			> M40		M100		Effective diameter (@ 60° Thread angle)	1.9	μm
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KA1008 Thread Plug Gauge	Universal Length Measuring Instrument /METROLOGY /ULM-9000C 3-Wire Thread Gauge /METROLOGY/JS-LAB-244	In-house method: Thread Plug Gauge calibration procedure (Document No.: JS-SCP-KA106)	M2		M20		Effective diameter (@ 60° Thread angle)	1.4	μm
			> M20		M50		Effective diameter (@ 60° Thread angle)	1.5	μm
			> M50		M100		Effective diameter (@ 60° Thread angle)	1.5	μm
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									
KA1017 3-wire Thread Gauge	Universal Length Measuring Instrument /METROLOGY /ULM-9000C	In-house method: 3-wire Thread Gauge calibration procedure (Document No.: JS-SCP-KA107)	0.1	mm	5	mm	Diameter	0.6	μm
			> 5	mm	6	mm	Diameter	0.6	μm
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									
KA2003 Caliper (vernier, dial, electronic digital)	Gauge Block /METROLOGY /GB-9122-0, grade 0, 122 pcs Long Gauge Blocks /METROLOGY /Grade 0/8 pcs	In-house method: caliper calibration procedure (Document No.: JS-SCP-KA201)	0	mm	600	mm	Outside diameter for Vernier type (resolution: 0.02 mm)	0.03	mm
			0	mm	300	mm	Outside diameter for Dial type (resolution: 0.01 mm)	0.02	mm
			0	mm	600	mm	Outside diameter for Electronic digital type (resolution: 0.01 mm)	0.02	mm
			0	mm	600	mm	Inside diameter for Vernier type (resolution: 0.02 mm)	0.03	mm



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
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KA2003 Caliper (vernier, dial, electronic digital)	Gauge Block /METROLOGY /GB-9122-0, grade 0, 122 pcs Long Gauge Blocks /METROLOGY /Grade 0/8 pcs	In-house method: caliper calibration procedure (Document No.: JS-SCP- KA201)	0	mm	300	mm	Inside diameter for Dial type (resolution: 0.01 mm)	0.02	Mm
			0	mm	600	mm	Inside diameter for Electronic digital type (resolution: 0.01 mm)	0.02	mm
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									
KA2004 inside micrometer (scale)	Gauge Block /METROLOGY /GB-9122-0, grade 0	In-house method: inside micrometer calibration procedure (Document No.: JS-SCP- KA202)	5	mm	30	mm	(resolution: 0.01 mm)	0.03	mm
			25	mm	50	mm	(resolution: 0.01 mm)	0.03	mm
			50	mm	75	mm	(resolution: 0.01 mm)	0.03	mm
			75	mm	100	mm	(resolution: 0.01 mm)	0.03	mm
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									
KA2005 outside micrometer	Gauge Block /METROLOGY /GB-9122-0, grade 0	In-house method: outside micrometer calibration procedure (Document No.: JS-SCP- KA203)	0	mm	25	mm	scale, digital (resolution: 0.001 mm)	0.003	mm
			25	mm	50	mm	scale, digital (resolution: 0.001 mm)	0.003	mm
			50	mm	75	mm	scale, digital (resolution: 0.001 mm)	0.003	mm
			75	mm	100	mm	scale, digital (resolution: 0.001 mm)	0.003	mm
			0	mm	25	mm	scale (resolution: 0.01 mm)	0.03	mm
			25	mm	50	mm	scale (resolution: 0.01 mm)	0.03	mm



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KA2005 outside micrometer	Gauge Block /METROLOGY /GB-9122-0, grade 0	In-house method: outside micrometer calibration procedure (Document No.: JS-SCP-KA203)	50	mm	75	mm	scale (resolution: 0.01 mm)	0.03	Mm
			75	mm	100	mm	scale (resolution: 0.01 mm)	0.03	mm
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									
KA2010 dial indicator (dial, test, digital)	Gauge Block /METROLOGY /GB-9122-0, grade 0	In-house method: dial indicator calibration procedure (Document No.: JS-SCP-KA204) In-house method: dial test indicator calibration procedure (Document No.: JS-SCP-KA205)	0	mm	5	mm	Dial (resolution: 0.001 mm)	0.003	mm
			0	mm	50	mm	Dial (resolution: 0.01 mm)	0.03	mm
			0	mm	0.2	mm	Test (resolution: 0.002 mm)	0.006	mm
			0	mm	0.8	mm	Test (resolution: 0.01 mm)	0.03	mm
			0	mm	50	mm	Digital (resolution: 0.001 mm)	0.005	mm
			0	mm	100	mm	Digital (resolution: 0.01 mm)	0.03	mm
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									
KA2015 Thickness Gauge (dial, digital)	Gauge Block /METROLOGY /GB-9122-0, grade 0	In-house method: Thickness Gauge calibration procedure (Document No.: JS-SCP-KA206)	0	mm	25	mm	Dial (resolution: 0.01 mm)	0.03	mm
			0	mm	10	mm	Digital (resolution: 0.01 mm)	0.03	mm
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KA4008 Coordinate Measuring Machine (On-site Calibration Included)	Gauge Block /METROLOGY /GB-9122-0, grade 0	In-house method: Coordinate Measuring Machine calibration procedure (Document No.: JS-SCP-KA401)	0	mm	1562	mm	Body diagonal	$[(0.82)^2+(0.71L \times \Delta T)^2]^{1/2}$, (Length L in m, ΔT : Temperature difference, in °C)	μm
	Long Gauge Block /METROLOGY /(125 to 500)mm, grade 0		0	mm	600	mm	Z-axis	$[(0.82)^2+(0.71L \times \Delta T)^2]^{1/2}$, (Length L in m, ΔT : Temperature difference, in °C)	μm
	Long Gauge Block /METROLOGY /600mm, grade 0		0	mm	1200	mm	Y-axis	$[(0.82)^2+(0.71L \times \Delta T)^2]^{1/2}$, (Length L in m, ΔT : Temperature difference, in °C)	μm
	Long Gauge Block /CIMM /(700 to 1000)mm, grade 0		0	mm	800	mm	X-axis	$[(0.82)^2+(0.71L \times \Delta T)^2]^{1/2}$, (Length L in m, ΔT : Temperature difference, in °C)	μm
Reference sphere /METROLOGY									
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									
KA4010 Video Measurement System (On-site Calibration Included)	scal standard (Mitutoyo /HL2-300/98198)	In-house method: Video Measurement System calibration procedure (Document No.: JS-SCP-KA401)	0	mm	1000	mm	Y-axis	$[(1.12)^2+(0.99L \times \Delta T)^2]^{1/2}$, (Length L in m, ΔT : Temperature difference, in °C)	μm
	scal standard (Mitutoyo /HL2-500/98220)		0	mm	800	mm	X-axis	$[(1.12)^2+(0.99L \times \Delta T)^2]^{1/2}$, (Length L in m, ΔT : Temperature difference, in °C)	μm
scal standard (Resson/RS101000 /120116)									
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									



Mass/Force

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KC5001 Rockwell hardness standard block	Rockwell hardness tester (METROLOGY/RHT-9000D/JS1120300384)	In-house method: Rockwell hardness standard block calibration procedure (Document No.: JS-SCP-KC501)	64.2	HRA	81.2	HRA		0.6	HRA
			44.1	HRBW	94.0	HRBW		1.2	HRBW
			24.7	HRC	62.5	HRC		0.7	HRC
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									
Calibration Site: 1.1F., No. 162, Guangwu Rd., Sanmin Dist., Kaohsiung City 807, Taiwan (R.O.C.)									



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KC5002 Rockwell hardness tester (On-site Calibration Included)	Load cell Interface (METROLOGY/---/2203021007)	In-house method: Rockwell hardness tester calibration procedure (Document No.: JS-SCP-KC502)	10 (98)	Kgf (N)	150 (1471)	Kgf (N)	Load Rockwell	0.7 (0.07)	N (kgf)
	Rockwell hardness standard block(Kuang/RHT-64.2HRA)		64.2	HRA	81.2	HRA	Hardness	0.7	HRA
	Rockwell hardness standard block(Kuang/RHT-72.9HRA)								
	Rockwell hardness standard block(HB/RHT-81.2HRA)								
	Rockwell hardness standard block(METROLOGY/RHT-44.1HRBW)		44.1	HRBW	94.0	HRBW	Hardness	1.0	HRBW
	Rockwell hardness standard block(METROLOGY/RHT-71.7HRBW)								
	Rockwell hardness standard block(METROLOGY/RHT-94.0HRBW)								
	Rockwell hardness standard block(Kuang/RHT-HRC24.7)		24.7	HRC	62.5	HRC	Hardness	0.7	HRC
	Rockwell hardness standard block(---/RHT-HRC45.5)								
	Rockwell hardness standard block(---/RHT-HRC62.5)								
Approval Signatory: TZENG, Lee-Ching; PAN, Yen-Ming									

Note : Smallest uncertainty represents an expanded uncertainty using a coverage factor approximately 95 % level of confidence.
(Null Below)

