Issue date: 19 March 2025
Valid Until: -

NO: SAMM 1056

LABORATORY LOCATION/ CENTRAL OFFICE:	AWT Precision Engineering No. 8, Jalan Setia 4/3 Taman Setia Indah 81100 Johor Bahru, Johor , 81100, JOHOR MALAYSIA
ACCREDITED SINCE :	19 MARCH 2025
FIELD(S) OF CALIBRATION:	DIMENSIONAL MASS

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the 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. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

*** The uncertainty covered by the CMC is expressed as the expanded uncertainty corresponding to a coverage probability of approximately 95 % and have a coverage factor of k=2 unless stated otherwise.**

CENTRAL LOCATION	AWT Precision Engineering No. 8, Jalan Setia 4/3 Taman Setia Indah 81100 Johor Bahru, Johor , 81100, Johor
FIELD(S) OF CALIBRATION :	DIMENSIONAL, MASS

SCOPE OF CALIBRATION : DIMENSIONAL

Instrument Calibrated/Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
Caliper	0 mm to 150 mm	0.01 mm	Calibrated using
	0-200 mm	10 um	With reference to
	0 mm to 200 mm	0.012 mm	Calibration
	200 mm to 450 mm	None	Gauge Blocks
	0 mm to 1,000 mm	7.5 ym	Calibrated using
	0 to 300 mm	0.02 mm	Calibrated using
	Up to 150 mm	0.01 mm	checkers as

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks
	0 mm to 600 mm (Internal Measurement) 0 mm to 600 mm (External Measurement	0.01 mm 0.01 mm	Calibrated using Caliper Checker with reference to BS 887:2008
	0mm to 300 mm 301 mm to 600 mm (Internal Measurement)	0.01 mm 0.02 mm	Calibrated using Caliper Checker with reference to BS 887:2008
	0 mm to 600 mm (Internal Measurement) 0 mm to 600 mm (External Measurement	0.01 mm 0.01 mm	Calibrated using Caliper Checker with reference to BS 887:2008
	0mm to 300 mm 301 mm to 600 mm (Internal Measurement)	0.01 mm 0.02 mm	Calibrated using Caliper Checker with reference to BS 887:2008
	0.01 mm to 300 mm 300 mm to 600 mm 600 mm to 1000 mm	9um 12 um	Gauge Block Caliper Checker
	0 mm to 150 mm 0 mm to 200 mm 0 mm to 300 mm 0 mm to 450 mm 0 mm to 600 mm	11 um 12 um 13 um	Calibrated using Gauge Blocks as standards with reference to ISO 13385: 2011
	None	None	gauge block as
	350 mm to 450 mm	13 um	using Caliper
	External measurement	None	Calibrate using
	0 mm to 300 mm	0.01 mm	gauge blocks as
	300 mm to 600 mm	0.02 mm	standards based on
	Internal measurement	None	JIS B 7507:2016
	0 mm to 300 mm	0.01 mm	Partial
	0 mm to 300 mm	None	Measuring face
	0 mm to 300 mm	None	contact error
	0 mm to 300 mm	None	Repeatability of
	0 mm to 300 mm	None	partial
	0 mm to 300 mm	None	measuring face
	0 mm to 300 mm	None	contact error
	0 mm to 300 mm	None	Parallelism of
	0 mm to 300 mm	None	jaws
	0 mm to 300 mm	None	Full measuring
	0 mm to 300 mm	None	face contact
	0 mm to 300 mm	None	error
	0 mm to 300 mm	None	Scale shift error

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Instrument Calibrated/Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
	Omm to 300mm	6 um	Calibrated using caliper
	Omm to 300mm	None	checker and gauge
	300mm to 600mm	None	block with reference to
	300mm to 600mm	None	JIS B 7507:2016
	Up to 300 mm 300 mm to 1000 mm 1000 mm to 2000 mm	17 um 27 um	Calibrated using Gauge Block.with reference to ISO 13385-1:2019
	0 ~ 300 mm	0.02 mm	reference to BS
	0.01 mm to 600 mm	10 um	Caliper Checker JIS B 7507

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SCOPE OF CALIBRATION : MASS

Instrument Calibrated/Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
Weighing Scale	Up to 1 kg	None	Calibrated using
	Ogto20g	0.04 mg	Standard Weight