



SMSB

SENDI MAHIR SDN. BHD. 199501003943 (333138-T)

NO. 6, 8, 10 & 12, JALAN KAPAR 27/89, MEGA INDUSTRIAL PARK,
SEKSYEN 27, 40400 SHAH ALAM, SELANGOR DARUL EHSAN, MALAYSIA.

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SAMM 082

CERTIFICATE OF CALIBRATION

Certificate No. : SM23115805

Date of Issue : 02 Mar 2023

Issued By : Sendi Mahir Sdn Bhd

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Customer : GALAXY AEROSPACE (M) SDN BHD
SUITE 11-14, HELICOPTER CENTRE
MALAYSIA INTERNATIONAL AEROSPACE CENTRE SULTAN ABDUL AZIZ SHAH AIRPORT
47200 SUBANG SELANGOR

Instrument : Vernier Caliper

Calibration Date : 02 Mar 2023

Manufacturer : Insize

Recalibration Date : 02 Mar 2024
Specified By Customer

Model/Type : 1205-150S

Remark : The user should be aware that any numbers of factors may cause this instrument to drift out of calibration before the specified calibration interval has expired.

Serial No : CTE/181(1610200456)

Capacity : 0 ~ 150 mm

Resolution : 0.05 mm

Calibration Environment Condition:

Condition Upon Receiving : Good Physical Condition

Temperature : 20.2 to 20.3 °C

Relative Humidity : 53 to 54 %rh

Condition Upon Returning : The instrument has been calibrated. The results are as follows.

Calibration Method : Internal Calibration Procedure(s) ICPD4

Calibration Venue : This Instrument has been calibrated at Sendi Mahir Sdn Bhd

Measurement Uncertainty : The reported expanded measurement uncertainty is stated as the standard measurement uncertainty multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95% and have a coverage factor of k=2 unless stated otherwise.

Reference Standard(s) Used :

Reference Standard Name	Serial No	Certificate No	Due Date	Accreditation No	Traceability
GAUGE BLOCK SET '0'	D007	SM221007990	22 Jun 2023	SAMM 082	NMIM(MY)
LENGTH BAR '0'	D157	SM21928768	03 Aug 2023	SAMM 082	NMIM(MY)
MASTER RING GAUGE	D045	SM22981707	24 Feb 2024	SAMM 082	NMIM(MY)
MASTER PIN GAUGE	D133	SM221017952	08 Aug 2023	SAMM 082	NMIM(MY)

Calibrated By:

Nur Hazwanie

Approved Signatory:

L.H. Seah

This certificate is issued in accordance with the laboratory accreditation requirements of Skim Akreditasi Makmal Malaysia (SAMM) of Standards Malaysia which is a signatory to the ILAC MRA. The measurement results included in this document are traceable to Malaysia national measurement standards maintained by the National Metrology Institute of Malaysia (NMIM). NMIM is a signatory to the CIPM MRA. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the NMIM and other recognised national metrology institutes. The results of calibration performed by Sendi Mahir Sdn Bhd apply to the particular equipment at the time of its test. They do not indicate or imply that Sendi Mahir Sdn Bhd approves, recommends or endorses the manufacturers or suppliers or users of such equipment that Sendi Mahir Sdn Bhd in any way guarantees the equipment's performance after calibration. Test/calibrations marked 'Not SAMM Accredited' in this report/certificate are not included in the SAMM Accreditation Schedule of our laboratory. Opinions and interpretations expressed herein are outside the scope of SAMM accreditation. Copyright of this certificate is owned by the issuing laboratory and may not be reproduced other than in full except with the prior written approval of the Head of the issuing laboratory.



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Technical Information

Readability : 0.05 mm

Calibration Results :

All Unit In : mm

A) Partial surface contact error

Position of the Jaw	Nominal Value	Measured Value	Error (Measured value - Nominal value)
Center	0.00	0.00	0.00
	20.00	20.00	0.00
	50.00	50.00	0.00
	100.00	100.00	0.00
	150.00	150.00	0.00
Root	20.00	20.00	0.00
Tip	20.00	20.00	0.00
Root	150.00	150.00	0.00
Tip	150.00	150.00	0.00

B) Flatness & Parallelism

Feature Inspected		Error
External Measurement (Parallelism)	Line contact error	0.00
Internal Measurement	Shift error-Crossed knife-edge	0.00
Step Measurement	Shift error-Step	0.00
Depth Measurement	Shift error-Depth	0.00

Measurement Uncertainty : \pm 0.06 mm

Note 1 : This instrument has been calibrated according to BS EN ISO 13385-1-2019 as general guideline.

Note 2 : Partial surface contact error - Contact between a partial area of the measuring face and an intergral feature of work piece.

Note 3 : Line contact (Parallelism) - Contact between a line, perpendicular to the length of the jaws, on the measuring face a feature of work piece.

Note 4 : Shift error- Crossed knife- edge : Internal measuring error

Note 5 : Shift error -Step & Depth : Height measuring error