

CERTIFICATE OF CALIBRATION



No. 301/A, 9th Main Road, 3rd Cross, Rajiv Gandhi Nagar, J.B. Kaval, Nandhini Layout Post, Bangalore - 560 096.
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NABL Accredited Calibration Lab as per ISO/IEC 17025 : 2017 With vide Certificate No: CC-2473

Date Of Issue: 02-03-2023

Sheet : 1 of 1

Format No. : VI-FRM-ME-007 ULR No.: CC247323100007828F Report No: VI/22-23/8113-04

Customer Name and Address	M/s. MAG ENGINEERING. 46 A 3rd Main 2nd Phase Peenya, Bangalore – 560 058.
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Customer Ref. No. & Date	DC NO: SIA/RGP21-22/0351 & 28- 02- 2023	Received Condition	Satisfactory
SRF. No.	8113	Date of Receipt	01-03-2023

CALIBRATED INSTRUMENT / EQUIPMENT DETAILS

Nomenclature	Digital Vernier Caliper	Make:	Mitutoyo
Range / Resolution	0-300 mm 0.01 mm	SL. No / ID. No	1153337 / MS-10
Calibration Done At	VI Mechanical Lab	Temperature / Humidity	20.2°C 50%RH
Calibrated on	02 – 03 – 2023	Calibration due on	01 – 03 – 2024
Discipline	Mechanical (Dimensional)		

MASTER EQUIPMENT TRACEABILITY DETAILS

Sl.No.	Nomenclature	Make & Model	Sl. No./ID No.	Traceable Cert. No.	Traceable to	Validity
1	Caliper Checker	KCP/CC-1000	3095/VIME/CC-02	VI/22-23/INT-ME-135	VI -Bangalore	11 - 05 - 2023
2	Tung Carb Gauge Block Set	KCP / M112	10021/VI/ME/007	VI/22-23/INT-ME-126	VI -Bangalore	21 - 07 - 2023

The master equipments used are traceable to National Standards

Ref. Doc.

IS 16491(Part I)1985 and SOP-16-05

CALIBRATION RESULTS

All values are in mm

Std. Values	External Jaws		Internal Jaws		Depth Bar		Permissible Error(±)
	Actual Values	Error	Actual Values	Error	Actual Values	Error	
00.00	00.00	00.00	00.00	00.00	00.00	00.00	0.02
20.00	20.00	0.00	20.00	0.00	20.02	+0.02	0.03
50.00	50.00	0.00	50.00	0.00	50.02	+0.02	0.03
75.00	75.00	0.00	75.00	0.00	75.02	+0.02	0.03
100.00	99.99	-0.01	100.01	+0.01	100.02	+0.02	0.03
150.00	149.99	-0.01	150.01	+0.01	150.02	+0.02	0.03
200.00	199.99	-0.01	200.01	+0.01	200.02	+0.02	0.03
250.00	249.98	-0.02	250.02	+0.02	250.02	+0.02	0.03
300.00	299.98	-0.02	300.02	+0.02	300.02	+0.02	0.04
Parallelism		Permissible Error		Measured Value			
External Jaws		0.010		0.007			
Internal Jaws		0.010		0.008			

Note :

• Determination of various sizes and parallelism of measuring faces (External / Internal measurement) from respective reference faces were measured by direct measurement against slip gauges.

Conclusion :

- Uncertainty of calibration at 95.45 % Confidence level and Coverage Factor K = 2 : $\pm 8.6\mu m$
- The Reported Results are valid only for the conditions of the received Instruments /gauges at the time of and under the stated conditions of the calibration.

Calibrated By

Nisarga A
(Calibration Engineer)

Checked By

P.Santhosh kumar
(Lab In-Charge)

