COMMITTED TO THE CUSTOMER SINCE - 1996

VAIDYANATHESHWARA INSTRUMENTS

CC-2473

No. 301/A, 9th Main Road, 3rd Cross, Rajiv Gandhi Nagar, J.B. Kaval, Nandhini Layout Post, Bangalore - 560 096.
Ph : 080-23377266, Mob : 9986586789 / 9632221171 / 9964308118 | Email : info@viplgroup.com Web : www.viplgroup.com

CERTIFICATE OF CALIBRATION

NABL Accredited Calibration Lab as per ISO/IEC 17025 : 2017 With vide Certificate No: CC-2473

Date of issue: 26 – 04 – 2023
Sheet: 1 OF 2

Format No: VI-FRM-ME-007	ULR No : CC247323100015639F		Report No: VI/23-24/0718-01
Customer Name and Address	M/s.: MAG ENGINEERING. (Unit-A). No. 46/A, 3rd Main Road, 2nd Phase, Peenya Industrial Area, Bangalore – 560 058.		
Customer Ref No & Date	DC No : SIARGP23-24/032 & 25-04-2023	Received Condition	Satisfactory
SRF No.	0718	Date Of Receipt	26-04-2023

CALIBRATED INSTRUMENT / EQUIPMENT DETAILS

Nomenclature	Feeler Gauges (18Leafes)		Make	------	
Range / Resolution	0.07 to 1.0 mm	N/A	Customer Instrument Reference No.	M085	
Calibration Done At	VI Mechanical Lab		Temperature / Humidity	20.3 °C	50%(RH)
Calibrated on	26 – 04 – 2023		Calibration due on	25 – 04 – 2024	
Discipline	Mechanical(Dimensional)				

MASTER EQUIPMENT TRACEABILITY DETAILS

Sl. No.	Nomenclature	Make & Model	Sl. No.	Traceable Cert. No.	Traceable To	Validity
1	Universal Length Machine	Octagon	VI/ME/013	VI/23-24/INT-ME-170-01	VI-Bangalore	06 - 04 - 2023
The Master Equipments used are traceable to National Standards				Ref. Doc.	IS: 3179– 1990 and SOP-16-09	

CALIBRATION OF FEELER GAUGE: All values in mm

SL No.	NOMINAL SIZE	CALIBRATED VALUES
1	0.07	0.0667-0.0668
2	0.09	0.0932-0.0936
3	0.10	0.1014-0.1016
4	0.15	0.1495-0.1497
5	0.20	0.2072-0.2076
6	0.25	0.2597-0.2598
7	0.30	0.3041-0.3053
8	0.35	0.3512-0.3524
9	0.40	0.4002-0.4006
10	0.45	0.4523-0.4526
11	0.55	0.5593-0.5604
12	0.60	0.5904-0.5906
13	0.65	0.6604-0.6613
14	0.70	0.6994- 0.6998
15	0.75	0.7596-0.7598
16	0.90	0.9042-0.9067
17	0.95	0.9457- 0.9462
18	1.00	0.9986-0.9994

Calibrated By
Nisarga A
(Calibration Engineer)

Checked By
P Santhosh kumar
(Lab-In-Charge)

Authorized Signatory
Gangadhar H

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Date of issue: 26 –04 – 2023
Sheet: 2 OF 2

Format No: VI-FRM-ME-007 | ULR No : CC 247323100015639F | Report No: VI/23-24/0718-01

Nominal thickness	Tolerance of thickness	Permissible variation in thickness of blade
0.03 upto 0.35 mm	±0.005	0.005
0.35 upto 0.65 mm	±0.008	0.008
0.65 upto 01.00 mm	±0.010	0.010

Notes:

Determining the thickness of the various gauges by direct measurement using Universal Length Measuring Machine.

Conclusion:

Uncertainty of calibration at **95.45 %** Confidence level and Coverage Factor K = 2 : **± 2.1 µm**
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)

Authorized Signatory
Gangadhar C K

COMMITTED TO THE CUSTOMER SINCE - 1996

VAIDYANATHESHWARA INSTRUMENTS

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CERTIFICATE OF CALIBRATION

1 Name and Address of the Customer M/s.: VAIDYANATHESHWARA INSTRUMENTS.,
No.301/A,9th Main Road,3rd Cross, Rajiv Gandhi Nagar,
J.B.Kaval,Nandhini Layout Post, Bangalore-560096.

2 Customer Reference

2.1 ULR No	: CC247323600000212F
2.2 SRF No.	: INT-ME-170
2.3 Certificate No..	: VI/23-24/INT-ME-170-01
2.4 VI Format No.	: VI-FRM-ME-064
2.5 Date Of Issue	: 07-04-2023

3 Details Of Device Under Calibration(DUC).

3.1 Nomenclature	: Length Measuring Machine
3.2 Make & Model	: Octagon /LMM 300
3.3 Sl.No. / Id.No	: 2009-29&VI/ME/013
3.4 Range	: Horizontal Axis 0 to 100mm
3.5 Least Count	: 0.0001mm
3.6 Calibration Procedure No.	: SOP-16-62
3.7 No.of Pages	: 2
3.8 Calibration Date	: 07-04-2023
3.9 Calibration Due	: 06-04-2024
3.10 Calibration done at	: VI Mechanical Lab
3.11 Discipline	: Mechanical

4 Environmenetal Condition

Temperature 19.8-20.4 °C Humidity 48-53 %RH

5 Masters Equipment Traceability Details

Sl. No.	Nomenclature	Make & Type	Sl. No & Id No	Certificate No	Traceable to	Validity
1	Tung Carb Gauge Block Set	KCP & M122/1, Gr. 'K'	10416 & VI/ME/SG/03	KCP/01/22~23/5321	KCP-Aurangabad	13-09-2024

6 Note:

6.1. The Calibration Certificate relates only to the above DUC
6.2. Publication or reproduction of this Certificate in any form other than by complete set of the whole report & in the language, written, is not permitted without the written consent of VI Lab..
6.3. Corrections/erasing, invalidate the Calibration Certificate.
6.4. Calibration of the DUC are traceable to National standards/International Standards
6.5. Any error in this Certificate should be brought to our knowledge within 30 days from the date of this Cert.
6.6. Results Reported are valid at the time of and under the stated conditions of measurements.
6.7. The usage of NABL Symbol is as per NABL guidelines given in NABL-133

Calibrated By
Premkumar
(Callibration Engineer)

Checked By
P.Santhosh kumar
(Lab In-Charge)

Authorised Signatory

Vaidyanatheshwara Instruments

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CERTIFICATE OF CALIBRATION

Certificate No. VI/23-24/INT-ME-170-01 **Page No: 2 of 2**

Calibration Results:

Horizontal Axis(X-axis)

(All values are in mm)

Sl. No.	Nominal Values	Measured Values	Error
1	0.00	0 (Set)	0.0000
2	0.50	0.5001	0.0001
3	1.00	0.9999	-0.0001
4	5.00	4.9998	-0.0002
5	10.00	9.9999	-0.0001
6	20.00	19.9997	-0.0003
7	30.00	29.9997	-0.0003
8	40.00	39.9998	-0.0002
9	50.00	49.9997	-0.0003
10	60.00	59.9997	-0.0003
11	70.00	69.9996	-0.0004
12	80.00	79.9996	-0.0004
13	90.00	89.9997	-0.0003
14	100.00	99.9997	-0.0003

Conclusion/ Remarks:

1 Measurement Uncertainty reported is "±0.5 µm" at 95.45% confidence level with k = 2.
2 The Reported Results are valid only for the conditions of the received instruments at the time of and under the stated conditions of the calibration.

Calibrated By	Checked By	Authorised Signatory
Prem Kumar	P.Santhosh kumar	Gangadhara K
(Calibration Engineer)	(Lab In-Charge)	

VAIDYANATHESWARA INSTRUMENTS Ph: 23377266 BANGALORE