

CERTIFICATE OF CALIBRATION



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

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

Page 1 of 3

1 Name and Address of the Customer : M/s. MAG ENGINEERING.
46 A 3rd Main 2nd Phase Peenya,
Bangalore – 560 058.

2 Customer Reference

2.1 ULR No. : CC247323100007827F
2.2 SRF No. : 8113
2.3 Certificate No. : VI/22-23/8113-03
2.4 Format No. : VI-FRM-ME-031
2.5 DC No. & Date : SIA/RGP21-22/0351 & 28-02-2023
2.6 Date of Receipt : 01-03-2023
2.7 Date Of Issue : 02-03-2023

3 Details Of Device Under Calibration(DUC).

3.1 Nomenclature : Coating Thickness Gauge
3.2 Make : QNIX4200
3.3 SL No / ID. No : 1807119 / MS-12
3.4 Range & LC : 0 - 3000 μ m & 1 μ m / 0.01mm
3.5 Calibration Procedure No./ Ref Doc : SOP-16-27 / Comparison Method
3.6 No.of Pages : 3
3.7 Calibration Date : 02-03-2023
3.8 Calibration Due : 01-03-2024
3.9 Calibration done at : VI Mechanical Lab
3.10 Discipline : Mechanical (Dimensional)

4 Environmental Condition

Temperature 20.3 °C Humidity 51 %RH

5 Standards Used for calibration

Sl. No.	Nomenclature	Make & Model	ID. No./ SL No	Traceable Cert. No.	Validity
1	Standards, Calibration Foils	Microns	CF1-01 to CF1-09	VI/22-23/INT-ME-166	09 - 10- 2023
2	Universal Length Machine	Octagon & ---	VI/ME/013	VI/22-23/INT-ME-170-01	08 - 04 - 2023

6 Note:

- The Calibration Certificate relates only to the above DUC
- 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.
- Corrections/erasing, invalidate the Calibration Certificate.
- Calibration of the DUC are traceable to National standards/International Standards
- Any error in this Certificate should be brought to our knowledge within 30 days from the date of this Cert.
- Results Reported are valid at the time of and under the stated conditions of measurements.
- The usage of NABL Symbol is as per NABL guidelines given in NABL-133
- *These Instruments are used as standards, hence consider appropriate traceable certificates

Calibrated By

Checked By

Nisarga A
(Calibration Engineer)

P.Santhosh Kumar
(Lab-In-Charge)



CERTIFICATE OF CALIBRATION



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

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

Certificate No. VI/22-23/8113-03

Page No.: 2 of 3

Results:

Range: 0 -3000 μ m

LC . 1 μ m / 0.01mm

CALIBRATION RESULTS:

Sl. No.	Master Reading In μ m	Test Meter In μ m	Error In μ m
1	0(Set)	0	0.0
2	9.1	8	-1.1
3	23.4	22	-1.4
4	51.7	48	-3.7
5	120.5	117	-3.5
6	260.4	256	-4.4
7	490.5	484	-6.5
8	673.7	665	-8.7
9	940.0	931	-9.0

Sl. No.	Master Reading In mm	Test Meter In mm	Error In mm
10	1.90	1.88	-0.02

Conclusion/ Remarks:

Uncertainty of calibration is $\pm 3.4\mu$ m at 95.45 % Confidence level and Coverage Factor K = 2 .

Calibrated By

Nisarga A
(Calibration Engineer)

Checked By

P.Santhosh Kumar
(Lab-In-Charge)





COMMITTED TO THE
CUSTOMER SINCE - 1996

Vaidyanatheshwara INSTRUMENTS

CERTIFICATE OF CALIBRATION



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

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

Certificate No : VI/22-23/8113-03

Page No.: 3 of 3

Results:

Calibration Of Coating Thickness Foils

All values are in microns

Sl. No.	Actual Foils Size(μm)	Calibrated values(μm)
1	$11.4\mu\text{m} \pm 0.3\mu\text{m}$	12.7 - 13.5
2	$49.3\mu\text{m} \pm 0.3\mu\text{m}$	50.4 - 51.7

Note

Conclusion/ Remarks:

Uncertainty of calibration is $\pm 1.2\mu\text{m}$ at 95.45 % Confidence level and Coverage Factor $K = 2$.

Calibrated By

Nisarga A
(Calibration Engineer)

Checked By

P.Santhosh Kumar
(Lab-In-Charge)

