



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

1 Name and Address of Customer

M/s.: Mag Engineering
(A Unit of Sandhar Technologies Ltd.,) No. 46/A, 3rd Main,
2nd Phase, Peenya Industrial Area, Bangalore - 560 058.

Page 1 of 8

2 Customer Reference

2.1 ULR No. : CC247323500027171F
2.2 SRF No. : 3738
2.3 Certificate No. : VI/22-23/3738-01
2.4 Format No. : VI-FRM-ME-035
2.5 Date of Issue : 15-03-2023

3 Details Of Device Under Calibration(DUC).

3.1 Nomenclature : Granite Surface Plate
3.2 Range : 2000 X 1000 mm
3.3 Make : MMT
3.4 SI.No. : 20100411
3.5 DUC Condition : Satisfactory
3.6 Calibration Procedure No. : SOP-16-31
3.7 No.of Pages : 8
3.8 Reference Document : 7327-2003
3.9 Calibration Date (Month/Date/Year) : 03-14-2023
3.10 Calibration Due Date : 03-13-2024
3.11 Calibration done at : Onsite
3.12 Instrument Location : Shop Floor
3.13 Expanded Uncertainty of Measurement : $\pm 2.0 \text{ Sqrt}((L+W)/150)$
at 95.45% Confidence Level with K=2

4 Environmental Condition :

Start Temperature: 23.2°C

End Temperature: 23.5°C

5 Standards Used for calibration

Sl. No.	Nomenclature	Make & Model	Sl. No.	Least Count	Certificate. No.	Validity
1	Electronic Level	Levelnic & DL-S3	793256	0.001 mm/m	22/53/01/041-S/3/096	31-07-2023

WORKING SURFACE OVERALL

Flatness : 21.8 micrometer

Grade: 2

(Allowable tolerance: 38 μ m)

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.
- 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

Madhusudhan

(Calibration Engineer)



This report refers only to the item/gauge submitted and may not be reproduced except in full without written permission from Vaidyanatheshwara Instruments Bangalore - 560096.



Vaidyanatheshwara Instruments
No.301/A, 9th main, 3rd Cross, Rajiv Gandhi Nagar,
Nandhini Layout Post, Bangalore - 560 096.
SURFACE PLATE CALIBRATION

No. of Rows: 10
No. of Columns: 05

Report No.: VI/22-23/3738-01

Date.: 3/14/2023

Measurement Reading Along Rows (Values are in Divisions)

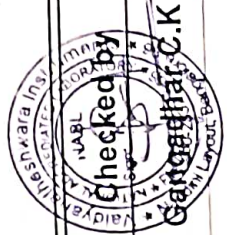
	COL1	COL2	COL3	COL4	COL5
ROW1	0	0.015	0.029	0.042	0.056
ROW2	0	0.025	0.042	0.062	0.075
ROW3	0	0.011	0.019	0.032	0.045
ROW4	0	0.016	0.032	0.045	0.062
ROW5	0	0.021	0.042	0.053	0.068
ROW6	0	0.028	0.045	0.063	0.085
ROW7	0	0.035	0.052	0.071	0.078

Maximum Deviation: 13.1

Minimum Deviation: -8.7

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SURFACE PLATE CALIBRATION

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No. of Rows: 10

Date.: 3/14/2023

No. of Columns: 05

Measurement Reading Along Rows (Values are in Divisions)

ROW8	0	0.015	0.025	0.035	0.042
ROW9	0	0.009	0.015	0.025	0.038
ROW10	0	0.013	0.025	0.035	0.051

Maximum Deviation: 13.1

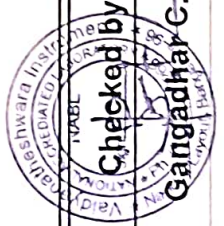
Minimum Deviation: -8.7

Calibrated by

Madhusudhan

Checked By

Gangadhar C-K





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Date.: 3/14/2023

No. of Rows: 10

No. of Columns: 05

Measurement Reading Across Rows (Values are in Divisions)

	COL1	COL2	COL3	COL4	COL5
ROW1	0	0	0	0	0
ROW2	0.009	0.013	0.019	0.023	0.035
ROW3	0.011	0.025	0.032	0.045	0.053
ROW4	0.015	0.029	0.042	0.051	0.059
ROW5	0.009	0.021	0.035	0.042	0.063
ROW6	0.011	0.018	0.025	0.034	0.043
ROW7	0.008	0.015	0.022	0.029	0.035

Maximum Deviation: 13.1

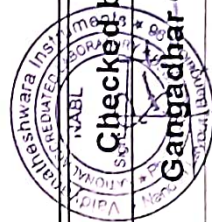
Minimum Deviation: -8.7

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Measurement Reading Across Rows (Values are in Divisions)

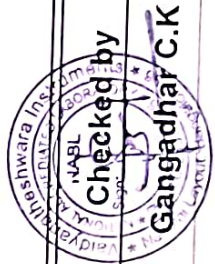
ROW8	0.015	0.023	0.041	0.055	0.062
ROW9	0.009	0.015	0.029	0.042	0.051
ROW10	0.005	0.009	0.011	0.015	0.023

Maximum Deviation: 13.1

Minimum Deviation: -8.7

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SURFACE PLATE CALIBRATION

No. of Rows: 10

No. of Columns: 05

Report No.: VII/22-23/3738-01

Date.: 3/14/2023

Deviation From Regression (Values are in μm)

	COL1	COL2	COL3	COL4	COL5
ROW1	10.6	1.9	-4	-7.3	-7.9
ROW2	8.5	1.2	-2.8	-3.7	-1.2
ROW3	6.8	-0.4	-6.1	-8.7	-8.4
ROW4	5.9	0.5	-2.5	-2.9	-0.1
ROW5	3.8	0.1	-0.5	0.5	6
ROW6	2.1	-0.1	0.1	3.1	11.2
ROW7	-0.1	-1	0.6	5.1	13.1

Maximum Deviation: 13.1

Minimum Deviation: -8.7

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No. of Columns: 05

Deviation From Regression (Values are in um)

ROW8	-1	-3.1	-2.3	0	5
ROW9	-3.1	-5.2	-4	-1.4	4.1
ROW10	-6	-7.3	-4.9	-0.9	6.7

Maximum Deviation: 13.1

Minimum Deviation: -8.7

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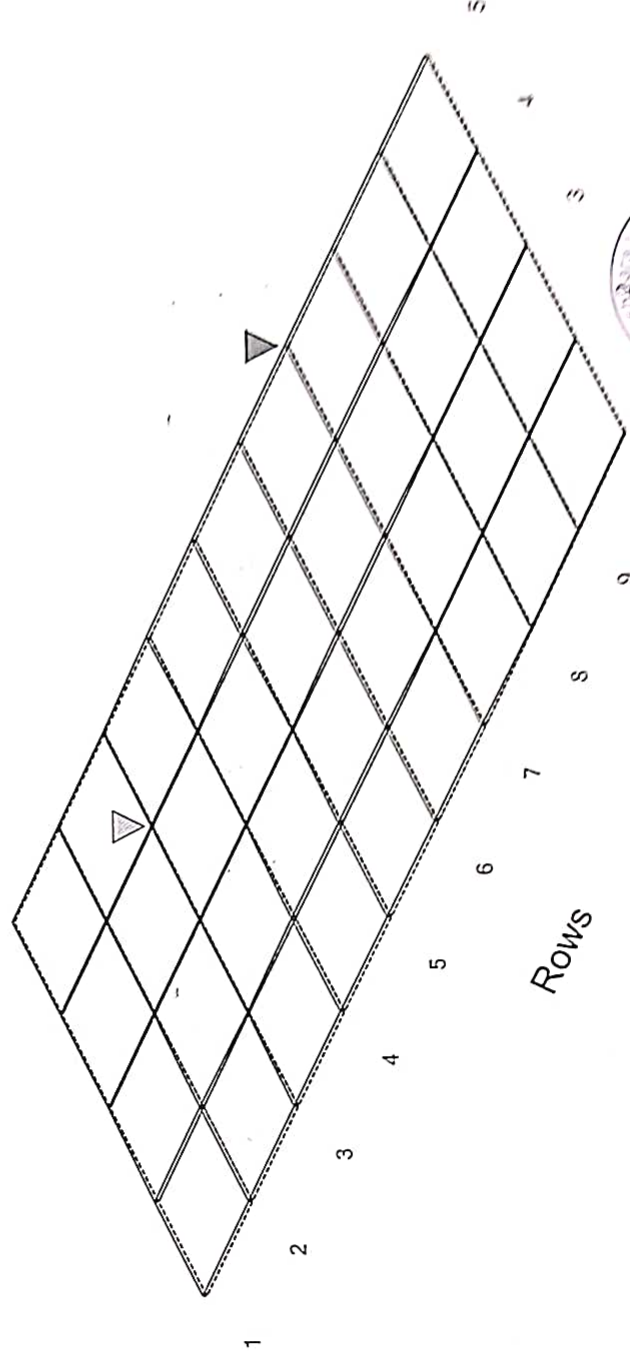
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Date.: 3/14/2023

No. of Rows: 10

No. of Columns: 05

Scale : 200



Flatness : 21.8

Maximum Deviation: 13.1

Minimum Deviation: -8.7

Calibrated by

Madhusudhan

Checked by

Gangadhar C.K