

CERTIFICATE OF CALIBRATION

ISSUED BY

Om ENGINEERS Metrology Pvt Ltd

"Madhu Smruti", First Floor, S. No. 37/2, Plot No 2 Next to Sai services,
Sinhagad Road, Vadgaon Kh, Pune - 411041.
Tel. No. +91 7219710106, Cell No. +91 9822910106
E - Mail ID : pune_omengineers@rediffmail.com



Issued On **07/11/2025** ULR No **CC275125000016321F**

Certificate No	Date of Receipt	Date of Calibration	Next Date of Calibration	Page	No. of Pages
OM / 46 / 250038	07/11/2025	07/11/2025	07/11/2027	1	3

Name of Customer & Address : **M/s. CHAVANKE ENGINEERING PRIVATE LIMITED**
PAP-113, Near AIMA Office, MIDC, Ambad, Nashik - 422010

Purchase Order No.	Date	Challan No.	Date	Work Order No	Condition of Item
Nil	Nil	Email	05/11/2025	OM/CAL/2526/2122	OK

GAUGE FOR CALIBRATION

: **Length Measuring Machine (Single Axis Measuring Machine)**

Make : AMAC Model No : LAB Microcal 600 - T
Range / L.C. : 0-100 mm / 0.0001 mm
Identification No. : M-01
Sr. No. : 126

Calibration Procedure No. : CM 46
Reference Document No. : Comparison Method

CALIBRATION PROCEDURE

: To obtain the linear accuracy of Length Measuring Machine at various points of total range by comparison with Laser Interferometer.

Equipment & Master Used for Calibration : Used Standards are traceable to National / International Standards (Direct / through NABL Accredited Lab.)

Equipment & Master Used for Calibration	Identification No.	Sr.No.	Calibration Certificate No	Calibration Date	Valid up to	Traceability With
Laser Interferometer	OM - E 22 - 01	1VQP30	111-25109	03.05.2023	03.05.2026	Federal Institute of Metrology METAS, Switzerland

UNCERTAINTY OF MEASUREMENT : $\pm 0.08 + 0.3 L \mu m$ (L in meter)

The uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor $k=2$ corresponds to confidence level of 95.45%.

NOTE : 1) Calibration Results are given on Page No. 2 onwards.

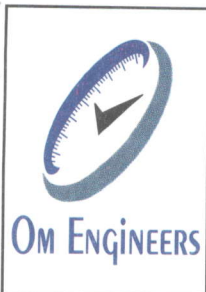
Jaywant Hode
Deputy Technical Manager

Calibrated By



Ajay Gajare
Technical Manager
Authorized Signatory

- This certificate refers only to the particular item(s) submitted for calibration.
- This certificate shall not be reproduced, except in full, unless written permission of M/s. Om Engineers Metrology Pvt Ltd, Pune.
- The Calibration results reported in this certificate are valid at the time of an under the stated conditions of measurement.



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CC-2751

Certificate No	Date of Calibration	Lab ID No.	Page	No. of Pages
OM / 46 / 250038	07/11/2025	OM/CAL/2526/2122/1	2	3

Length Measuring Machine (Single Axis Measuring Machine)

Make AMAC

Identification No.

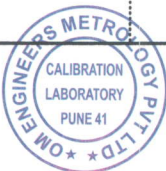
M-01

Sr.No. 126

Range / L.C. 0-100 mm / 0.0001 mm

Parameter Maintained during Calibration ;

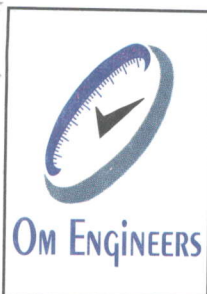
1	Air temperature at start	19.78 °C
2	Air temperature at end	19.80 °C
3	Material temperature at start	20.13 °C
4	Material temperature at end	20.15 °C
5	Co-efficient of Expansion	$11.5 \times 10^{-6} \mu\text{m} / ^\circ\text{C}$
6	Environmental Condition	$20 \pm 1 ^\circ\text{C}$
7	Compensation	Automatic
8	Condition Equipment	Ok
9	Accuracy of Laser Interferometer	0.5 ppm
10	Range of Laser Interferometer	40 Mtr.
11	Capacity of LMM	3 - 400 mm (Internal), 0 - 600 mm (External)
12	Calibration site address	M/s. CHAVANKE ENGINEERING PRIVATE LIMITED PAP-113, Near AIMA Office, MIDC, Ambad, Nashik - 422010
13	Location / Department	Dimension Laboratory
14	Calibration Point	As per customer requirement
15	Dwell time at each target position	Manual
16	Soaking Time	Three Hours.
17	Feed rate during calibration	Manual
18	D.R.O	Software
19	Sr. No. of D.R.O.	--
20	Compensation Factor	--



CONTD. PAGE 3

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Length Measuring Machine (Single Axis Measuring Machine)

Make AMAC

Identification No. M-01

Sr.No. 126

Range 0-100 mm / 0.0001 mm

NABL 120 2.3.4 Mechanical Discipline : Dimensions (Precision - Precision Instruments)

Calibration Results

Horizontal Axis ;

Reading on Length Measuring Machine (mm)	Observed Reading on Laser Interferometer (mm)	Observed Error (μ m)
0.0000	0.00000 Set	0.00
0.5000	0.50006	-0.06
1.0000	1.00006	-0.06
5.0000	5.00005	-0.05
10.0000	10.00006	-0.06
20.0000	20.00013	-0.13
30.0000	30.00019	-0.19
40.0000	40.00023	-0.23
50.0000	50.00015	-0.15
60.0000	60.00018	-0.18
70.0000	70.00025	-0.25
80.0000	80.00018	-0.18
90.0000	90.00022	-0.22
100.0000	100.00021	-0.21

Note : Above Machine is calibrated only X axis as per customer requirement.

**** End of Certificate ****

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