



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

Date of issue: 17 - 03 - 2023

Sheet: 1 OF 1

Format No: VI-FRM-ME-022	ULR No. : CC247323100010365F	Report No.: VI/22-23/8525-07
Customer Name and Address	M/s.: MAG ENGINEERING UNIT A., (A Unit of Sandhar Technologies Ltd.) No. 46A, 3rd Main, 2nd Phase, Peenya, Bangalore, Karnataka - 560 058.	
Customer Ref No & Date	DC No.: SIA/RGP21-22/0365 & 13-03-2023	Received Condition
SRF No	8525	Date Of Receipt
		Satisfactory
		14-03-2023

CALIBRATED INSTRUMENT / EQUIPMENT DETAILS

Nomenclature	Radius Gauges (30 Leaves)	Make	Mitutoyo
Range / Resolution	15.5 to 25 mm	N/A	Customer Instrument Reference No. M1008
Calibration Done At	VI Mechanical Lab	Temperature / Humidity	20.1-20.4°C 52-55 %RH
Calibrated on	17 - 03 - 2023	Calibration due on	16 - 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	Profile Projector	OMEGA & VL360	1035 / VI/PP/001	VI/22-23/INT-016	VI-Bangalore	17-10-2023

The Master Equipment's used are traceable to National Standards Ref. Doc. IS: 5273-1969 (Reaffirmed 1995) & SOP-18

CALIBRATION OF RADIUS GAUGES:

(All values are in mm)

Sl. No.	Nominal size	Calibrated values		Sl. No.	Nominal size	Calibrated values	
		EXTERNAL	INTERNAL			EXTERNAL	INTERNAL
1	15.5	15.451	15.539	9	19.5	19.457	19.534
2	16.0	15.956	15.932	10	20.0	19.969	20.074
3	16.5	16.449	16.554	11	21.0	20.933	21.048
4	17.0	16.932	17.042	12	22.0	21.947	22.069
5	17.5	17.478	17.542	13	23.0	22.956	23.053
6	18.0	17.934	17.968	14	24.0	23.971	24.079
7	18.5	18.425	18.572	15	25.0	24.955	25.058
8	19.0	18.958	19.039	-	-	-	-

Allowable Values for Radius Gauges As Per IS: 5273-1969

(All Values in mm)

NOMINAL SIZE	PERMISSIBLE ERROR
0.6 upto 0.8 mm	±0.050
1 upto 6 mm	±0.063
7 upto 25 mm	±0.100

Note:

- Determination of Checking Arc of Circle of Radius Gauge by direct method using Profile Projector.

Conclusion:

- Uncertainty of calibration at 95.45 % Confidence level and Coverage Factor $K = 2 : \pm 6.0\mu m$
- 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
Hemanth Kumar G
Hemanth Kumar G
(Calibration Engineer)

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

