

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. : CC247323100010364F	Report No.: VI/22-23/8525-06
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 (32 Leaves)	Make	Mitutoyo
Range / Resolution	7.5 to 15 mm	N/A	Customer Instrument Reference No. M103
Calibration Done At	VI Mechanical Lab	Temperature / Humidity	20.3-20.6°C 51-53 %RH
Calibrated on	17 - 03 - 2023	Calibration due on	16 - 03 - 2024
Discipline	Mechanical (Dimensional)		

MASTER EQUIPMENT TRACEABILITY DETAILS

Sl. No.	Nomenclature	Make	Sl. No.	Traceable Cert. No.	Traceable To	Validity
1	Profile Projector	OMEGA	1035	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) & SOP16-18	

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	7.5	7.484	7.533	9	11.5	11.513	11.539
2	8.0	7.985	8.024	10	12.0	12.045	12.031
3	8.5	8.479	8.541	11	12.5	12.471	12.542
4	9.0	8.974	9.029	12	13.0	12.985	13.031
5	9.5	9.494	9.541	13	13.5	13.469	13.535
6	10.0	9.976	10.026	14	14.0	13.974	14.034
7	10.5	10.483	10.551	15	14.5	14.465	14.546
8	11.0	10.961	11.045	16	15.0	14.955	15.057

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
Hemanth Kumara G
(Calibration Engineer)

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

