



Vaidyanatheshwara INSTRUMENTS



CERTIFICATE OF CALIBRATION

COMMITTED TO THE
CUSTOMER SINCE - 1998

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@vipgroup.com Web : www.vipgroup.com

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

Date Of Issue: 08-05-2023

Sheet : 1 of 1

Report No: VI/22-23/8113-20

Format No. : VI-FRM-ME-007

ULR No : CC247323100016621F

Customer Name and Address:	M/s. MAG ENGINEERING 46 A 3rd Main 2nd Phase Peenya, Bangalore - 560 058.		
Customer Ref. No. & Date	DC No.: SIARGP21-22/0351 & 28-02-2023	Received Condition	Satisfactory
SRF. No.	8113	Date of Receipt	01-03-2023
CALIBRATED INSTRUMENT / EQUIPMENT DETAILS			
Nomenclature	Digital Vernier Caliper	Make	Mitutoyo
Range / Resolution	0-300 mm 0.01 mm	Sl. No. / ID.No	13042298 / MS-02
Calibration Done At	VI Mechanical Lab	Temperature / Humidity	20.3-20.6°C 52-54 %RH
Calibrated on	08-05-2023	Calibration due on	07-05-2024
Discipline	Mechanical (Dimensional)		

MASTER EQUIPMENT TRACEABILITY DETAILS

Sl.No.	Nomenclature	Make / Model	Sl. No.	Traceable Cert. No.	Traceable To	Validity
1	Caliper Checker	KCP / CC-1000	S095	VI/22-23/INT-ME-135	VI-Bangalore	11-05-2023
2	Tung Carb Gauge Block Set	KCP / M112	10021	VI/22-23/INT-ME-126	VI-Bangalore	21-07-2023

The master equipments used are traceable to National Standards Ref. Doc. IS 16491(Part I) 2016 and SOP-16-05

CALIBRATION RESULTS

All values are in mm

Std. Values	External Jaws		Internal Jaws		Depth Bar		Permissible Error(±)
	Actual Values	Error	Actual Values	Error	Actual Values	Error	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.02
20.00	19.99	-0.01	19.99	-0.01	19.98	-0.02	0.03
50.00	49.99	-0.01	49.99	-0.01	49.98	-0.02	0.03
75.00	74.99	-0.01	74.99	-0.01	74.98	-0.02	0.03
100.00	99.99	-0.01	99.98	-0.02	99.98	-0.02	0.03
150.00	149.99	-0.01	149.98	-0.02	149.98	-0.02	0.03
200.00	199.98	-0.02	199.98	-0.02	199.98	-0.02	0.03
250.00	249.98	-0.02	249.98	-0.02	249.98	-0.02	0.03
300.00	299.98	-0.02	299.97	-0.03	299.98	-0.02	0.04
Parallelism		Permissible Error		Measured Value			
External Jaws		0.010		0.008			
Internal Jaws		0.010		0.007			

Note :

- Determination of various sizes and parallelism of measuring faces (External / Internal measurement) from respective reference faces were measured by direct measurement against slip gauges.

Conclusion :

- Uncertainty of calibration at 95.45 % Confidence level and Coverage Factor $K = 2 : \pm 8.6 \mu m$
- 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

Solalappan M
(Calibration Engineer)

Checked By

P.Santhosh Kumar
(Lab In-Charge)



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