



ULR-CC210223000000909F

**TRUE COPY**

MECHANICAL CALIBRATION: DIMENSION (Precision Instruments)

MIKRONIX ASSOCIATES
AURANGABAD 431 006CALIBRATION CERTIFICATE OF
SET OF SLIP GAUGES

Calibration Date	Issued On	Certificate No.	Page	No. of Pages
28-09-2023	28-09-2023	SG 3992	1	2

Tested For : M/s. NATIONAL CENTRE FOR QUALITY CALIBRATION.
House No. 4, Abhishree Corporate Park, Nr. Swagat Bungalow
BRTS, Iskcon – Ambli Road, Ambli, AHMEDABAD – 380 058.

Your Ref. : DC No. : 21092023/17 Date : 21-09-2023

Description & Identification of Instruments : Steel Slip Gauge-M88/1 Grade : 0
Sr No. : 2967 Id No. : NCQC/M-109 Make : Aditya

Coefficient of Thermal Expansion : $11.5 \times 10^{-6}/^{\circ}\text{C}$

Test Purpose : Measurements of Slip Gauges for their mean length at 20° C to IS: 2984 of 2003

Environmental Conditions : Temperature 20.2 °C

Method Used : Comparison method as per MA/PCD/18.

Method Equipments Used : a) Tungsten Carbide Slip Gauge Set M122/1, GR 'K' Set Sr. No. 1213 Calibrated at CMTI B,lore vide their Certificate No 17/53/01/352-L/3/090 Dtd. 31-05-2018 valid upto 31-05-2023.

b) Steel Slip Gauge Set M39, GR 'K', Set Sr.No. 1197 Calibrated at 'NABL' Lab No. CC-2082 vide Cert. No. P/01/230025, Dtd. 03-06-2023 valid upto 03-06-2025.

c) Electronic Gauge Block Calibrator (Model: GBC 931, Mikronix make) Sr.No- 00197, in house (CC-2102) calibrated traceable to CMTI B,lore vide Certificate No. GBC 29,Dtd. 04-05-2023 valid upto 04-05-2025.

Next Sugg. Due Date : 28-09-2025.

Uncertainty of measurement (AT 95% confidence level with coverage factor k=2) : $\pm 0.12 \mu\text{m}$ upto 25 mm.
 $\pm 0.15 \mu\text{m}$ above 25 mm & upto 50 mm.
 $\pm 0.20 \mu\text{m}$ above 50 mm & upto 75 mm.
 $\pm 0.24 \mu\text{m}$ above 75 mm & upto 100 mm.

Note: The Calibration Results reported in this Certificate are valid at the time of and the stated condition of measurement.

This Calibration Certificate should not be re-produced except in full without written permission from Managing Partner, Mikronix Associates, Aurangabad.

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CALIBRATED BY

NCQC System Certificate No. 84

Asst
ASST. QUALITY MANAGER

MIKRONIX ASSOCIATES

Valid up to 28-09-2025

Reviewed *prj*

POST BOX NO. 726, W-10, MIDC INDUSTRIAL AREA, CHIKALTHANA,
CHHATRAPATI SAMBHAJINAGAR (AURANGABAD) - 431006. (M.S.) INDIA.
• Mobile : 8087798954, 9404568909. • E-mail : sales@mikronixassociates.com
• Website : www.mikronixassociates.com



CC-2102

MA/FRM/19

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CALIBRATION RESULTS

Nominal Size in mm	Centre Dev. In μm	Nominal Size in mm	Centre Dev. In μm	Nominal Size in mm	Centre Dev. In μm	Nominal Size in mm	Centre Dev. In μm	Nominal Size in mm	Centre Dev. In μm
1.0005	+0.05	1.09	+0.09	1.27	+0.12	1.45	+0.11	7.00	0.00
1.001	+0.12	1.10	+0.08	1.28	+0.11	1.46	+0.14	7.50	+0.12
1.002	+0.10	1.11	+0.10	1.29	+0.10	1.47	+0.08	8.00	+0.07
1.003	0.00	1.12	+0.08	1.30	+0.10	1.48	+0.10	8.50	+0.05
1.004	+0.12	1.13	+0.12	1.31	+0.09	1.49	+0.12	9.00	0.00
1.005	+0.11	1.14	+0.10	1.32	+0.11	0.50	+0.08	9.50	-0.10
1.006	+0.08	1.15	+0.15	1.33	+0.12	1.00	+0.15	10.00	-0.09
1.007	+0.11	1.16	+0.04	1.34	+0.10	1.50	-0.04	20.00	+0.06
1.008	+0.10	1.17	+0.05	1.35	+0.09	2.00	+0.11	30.00	+0.05
1.009	+0.09	1.18	+0.16	1.36	+0.12	2.50	+0.08	40.00	+0.16
1.01	+0.03	1.19	+0.10	1.37	+0.11	3.00	+0.10	50.00	+0.31
1.02	+0.10	1.20	+0.07	1.38	+0.12	3.50	+0.12	60.00	+0.20
1.03	+0.10	1.21	+0.12	1.39	+0.08	4.00	+0.09	70.00	+0.04
1.04	+0.05	1.22	+0.11	1.40	+0.11	4.50	+0.12	80.00	+0.49
1.05	+0.12	1.23	+0.08	1.41	+0.12	5.00	+0.08	90.00	+0.05
1.06	+0.10	1.24	+0.06	1.42	+0.04	5.50	+0.02	100.00	-0.27
1.07	+0.11	1.25	+0.12	1.43	+0.08	6.00	+0.04		
1.08	+0.10	1.26	+0.08	1.44	+0.12	6.50	+0.06		

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ASST. QUALITY MANAGER

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