



NABL CC - 2102

ULR-CC21021900000684F

MA/FRM/19

**TRUE COPY**

MECHANICAL CALIBRATION: DIMENSION (Precision Instrument)

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

Calibration Date	Issued On	Certificate No.	Page	No. of Pages
16-09-2019	16-09-2019	SG 2486	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. : As per Your Challan No. 07092019/01 Dtd. 07/09/2019

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

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 20.1 °C

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

Major 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/ 190032, Dtd. 08-06-2019 valid upto 08-06-2021.
c) Electronic Gauge Block Calibrator (Model: GBC 931, Mikronix make) Sr No. 00197, in house calibrated traceable to CMTI B,lore vide Certificate No. GBC -22, Dtd. 06-05-2019 valid upto 06-05-2021.

Uncertainty of measurement (AT 95% confidence level with coverage factor k =2) : $\pm 0.12 \mu\text{m}$ upto 20 mm.
 $\pm 0.15 \mu\text{m}$ above 20 mm & upto 50 mm.
 $\pm 0.20 \mu\text{m}$ above 50 mm & upto 70 mm.
 $\pm 0.24 \mu\text{m}$ above 70 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.


CALIBRATED BY

NCQC
Valid up to 15-09-2022
Reviewed

NCQC System Certificate No. 84


TECHNICAL MANAGER

MIKRONIX ASSOCIATES

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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
1.0005	+0.08	1.13	+0.10	1.35	+0.11	4.0	+0.09
1.001	+0.06	1.14	+0.10	1.36	+0.10	4.5	+0.12
1.002	+0.11	1.15	+0.11	1.37	+0.10	5.0	+0.10
1.003	+0.11	1.16	+0.11	1.38	+0.10	5.5	+0.10
1.004	+0.10	1.17	+0.04	1.39	+0.09	6.0	+0.10
1.005	+0.12	1.18	+0.11	1.40	+0.09	6.5	+0.11
1.006	+0.10	1.19	+0.07	1.41	+0.09	7.0	+0.03
1.007	+0.10	1.20	+0.08	1.42	-0.07	7.5	+0.10
1.008	+0.07	1.21	+0.11	1.43	+0.08	8.0	+0.11
1.009	+0.07	1.22	+0.10	1.44	+0.10	8.5	+0.11
1.01	+0.05	1.23	+0.08	1.45	+0.10	9.0	+0.07
1.02	+0.12	1.24	+0.10	1.46	+0.09	9.5	+0.08
1.03	+0.05	1.25	+0.10	1.47	+0.11	10.0	+0.10
1.04	+0.08	1.26	+0.02	1.48	+0.10	20.0	-0.01
1.05	+0.10	1.27	+0.11	1.49	+0.09	30.0	-0.09
1.06	+0.11	1.28	+0.11	0.5	+0.11	40.0	-0.01
1.07	+0.11	1.29	+0.10	1.0	+0.09	50.0	+0.18
1.08	+0.08	1.30	+0.07	1.5	+0.10	60.0	+0.08
1.09	+0.09	1.31	+0.11	2.0	+0.11	70.0	+0.12
1.10	+0.10	1.32	+0.10	2.5	-0.01	80.0	+0.20
1.11	+0.10	1.33	+0.05	3.0	+0.09	90.0	-0.22
1.12	+0.11	1.34	+0.10	3.5	+0.10	100.0	+0.01

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