



FINIKS CALIBRATION AND GAUGES PRIVATE LIMITED

Plot No. E-4/4, M.I.D.C. Area, Ahmednagar - 414111. [M.S.]
Tel. [0241] 2990082, 2778918, E-mail : finiks97@rediffmail.com, finiks79@gmail.com

Calibration Certificate

ULR : CC377023000000635F

CALIBRATE D ON	ISSUED ON	CERTIFICATE NO.	NEXT CALIBRATION DUE ON (suggested by customer)	PAGE	NO. OF PAGES
18-12-2023	18-12-2023	23-MLC-17-17-001	17-12-2025	1	3

CALIBRATED FOR : **M/s National Centre For Quality Calibration,**
4,Abhishree Corporate Park,Nr.Swagat Bungalows
BRTS,Iskcon-Ambli Road,Ambli, Ahmedabad. 380058

CUSTOMER's CHALLAN NO. : 16122023/05 **Date of Receipt : 17-12-2023**
Dated : 16-12-2023 **Work Order No. : 23-ML-17-17**

TYPE OF GAUGE : **SLIP GAUGE SET (Steel)**

IDENTIFICATION : **MAKE** : Aditya **Sr. No.** : 2967
SIZE : 0.5-100 mm (M88/1) **ID. No.** : NCQC/M-109

LAB ID NO. : 23-ML-17-17-001 **CONDITION AT RECEIPT : Ok**

ENVIRONMENTAL CONDITION : TEMPERATURE : 20°C (± 1°C) HUMIDITY : 50 ± 10%RH

REFERENCE DOCUMENT USED : IS 2984 – 2003

CALIBRATION PROCEDURE : FCGPL/CP/M-33

CALIBRATION LOCATION : In Lab

Equipment / Reference Standards Used For Calibration : Traceable to National / International standards

Equipment / Reference Standard	Identification No.	Certificate No.	Calib. Date	Valid up to
Gauge Block Comparator	Finiks/GBC-01	GBC 3756	01-03-2023	01-03-2025
A SET OF SLIP GAUGE (CARBIDE) Grade "K"	TC-M122/02	KCP/01/22-23/9361	14-02-2023	14-02-2025

UNCERTAINTY OF MEASUREMENT : ± 0.17 µm for 0.5 to 25 mm length
± 0.26 µm for 25 to 50 mm length
± 0.28 µm for 50 to 100 mm length

The reported uncertainty is at coverage factor K=2 which corresponds to a coverage probability of approximately 95% for normal distribution.

a) CALIBRATION RESULTS ARE ENCLOSED ON PAGE NO.2 ONWARDS.


Calibrated By
Pote S.N
Calibration Engineer




Approved By
Warpe B.S
Technical Manager

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This calibration results in this certificate are valid at the time of and under the stated conditions of measurements.
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MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)

CALIBRATION RESULTS

NOMINAL SIZE (mm)	CENTRE DEVIATION (μ m)	NOMINAL SIZE (mm)	CENTRE DEVIATION (μ m)	NOMINAL SIZE (mm)	CENTRE DEVIATION (μ m)	NOMINAL SIZE (mm)	CENTRE DEVIATION (μ m)
1.0005	+0.06	1.2000	+0.07	2.0000	+0.04		
0.5000	+0.09	1.2100	+0.10	2.5000	+0.11		
1.0000	+0.05	1.2200	+0.05	3.0000	+0.06		
1.0010	+0.06	1.2300	+0.06	3.5000	+0.08		
1.0020	+0.11	1.2400	+0.09	4.0000	+0.09		
1.0030	+0.07	1.2500	+0.11	4.5000	+0.10		
1.0040	+0.06	1.2600	+0.06	5.0000	+0.04		
1.0050	+0.11	1.2700	+0.12	5.5000	+0.06		
1.0060	+0.06	1.2800	+0.08	6.0000	+0.11		
1.0070	+0.08	1.2900	+0.11	6.5000	+0.02		
1.0080	+0.06	1.3000	+0.06	7.0000	+0.08		
1.0090	+0.07	1.3100	+0.07	7.5000	+0.11		
1.0100	+0.05	1.3200	+0.05	8.0000	+0.05		
1.0200	+0.06	1.3300	+0.06	8.5000	+0.11		
1.0300	+0.11	1.3400	+0.07	9.0000	+0.06		
1.0400	+0.08	1.3500	+0.09	9.5000	-0.07		
1.0500	+0.02	1.3600	+0.11	10.0000	-0.05		
1.0600	+0.06	1.3700	+0.06	20.0000	+0.11		
1.0700	+0.07	1.3800	+0.09	30.0000	-0.06		
1.0800	+0.06	1.3900	+0.05	40.0000	+0.12		
1.0900	+0.09	1.4000	+0.04	50.0000	+0.09		
1.1000	+0.08	1.4100	+0.06	60.0000	+0.12		
1.1100	+0.06	1.4200	+0.05	70.0000	+0.17		
1.1200	+0.05	1.4300	+0.06	80.0000	+0.22		
1.1300	+0.06	1.4400	+0.07	90.0000	+0.16		
1.1400	+0.04	1.4500	+0.12	100.0000	-0.08		
1.1500	+0.11	1.4600	+0.10		---		
1.1600	+0.06	1.4700	+0.06		---		
1.1700	+0.07	1.4800	+0.05		---		
1.1800	+0.11	1.4900	+0.11		---		
1.1900	+0.06	1.5000	+0.09		---		

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Acceptance Criteria as per IS 2984:2003 (Table No.5) :

Nominal Length, in (mm)	Calibration Grade K		Grade 0		Grade 1		Grade 2	
	Limit deviation of length at any point from nominal length $\pm$ te μ m	Tolerance for the variation in the length tv μ m	Limit deviation of length at any point from nominal length $\pm$ te μ m	Tolerance for the variation in length tv μ m	Limit deviation of length at any point from nominal length $\pm$ te μ m	Tolerance for the variation in length tv μ m	Limit deviation of length at any point from nominal length $\pm$ te μ m	Tolerance for the variation in length tv μ m
0.5 $\leq$ n $\leq$ 10	0.20	0.05	0.12	0.10	0.20	0.16	0.45	0.30
10 $<$ n $\leq$ 25	0.30	0.05	0.14	0.10	0.30	0.16	0.60	0.30
25 $<$ n $\leq$ 50	0.40	0.06	0.20	0.10	0.40	0.18	0.80	0.30
50 $<$ n $\leq$ 75	0.50	0.06	0.25	0.12	0.50	0.18	1.00	0.35
75 $<$ n $\leq$ 100	0.60	0.07	0.30	0.12	0.60	0.20	1.20	0.35
100 $<$ n $\leq$ 150	0.8	0.08	0.4	0.14	0.8	0.2	1.6	0.4
150 $<$ n $\leq$ 200	1	0.09	0.5	0.16	1	0.25	2	0.4
200 $<$ n $\leq$ 250	1.2	0.1	0.6	0.16	1.2	0.25	2.4	0.45
250 $<$ n $\leq$ 300	1.4	0.1	0.7	0.18	1.4	0.25	2.8	0.5
300 $<$ n $\leq$ 400	1.8	0.12	0.9	0.2	1.8	0.3	3.6	0.5
400 $<$ n $\leq$ 500	2.2	0.14	1.1	0.25	2.2	0.35	4.4	0.6
500 $<$ n $\leq$ 600	2.6	0.16	1.3	0.25	2.6	0.4	5	0.7
600 $<$ n $\leq$ 700	3	0.18	1.5	0.3	3	0.45	6	0.7
700 $<$ n $\leq$ 800	3.4	0.2	1.7	0.3	3.4	0.5	6.5	0.8
800 $<$ n $\leq$ 900	3.8	0.2	1.9	0.35	3.8	0.5	7.5	0.9
900 $<$ n $\leq$ 1000	4.2	0.25	2	0.4	4.2	0.6	8	1

x-x-x-x-x- End of certificate -x-x-x-x-x-x

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