

# NATIONAL CENTRE FOR QUALITY CALIBRATION

4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon-Ambli Road, Ambli, Ahmedabad-380 058  
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CC-2128

Precision Calibration with National / International Traceability for Temperature, Dimensional, Pressure, Vacuum, Time, Mass, Electrical, Noise, Airflow, Lux & all Special Purpose Instruments in all ranges.

## Calibration Certificate

F/CR/M/065 Issue No.02

<b>Name of Customer</b> National Centre for Quality Calibration 4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon - Ambli Road, Ambli, Ahmedabad - 380 058, Gujarat		Certificate No. Date of Issue Date of Calibration Suggested Due Date Date of Receipt / Ref.No.:	NCQC-M/140623/023 14/06/2023 14/06/2023 13/06/2024 14/06/2023
<b>ULR No. : CC21282300004642F</b>		<b>Discipline :</b> Mechanical Calibration Dimensional (Precision- Precision Instruments and Surface Topology)	
<b>Details of Observation of Unit Under Calibration</b>		Identification No. : NCQC/M-193 Serial No. : === Name of Instrument : V Block	
Make / Model Location	Unity/=== Lab.	Visual Inspection Accuracy Type / Size	OK Grade 0 === / 100x63x100 mm
Loc. of Calibration Environment Cond. Actual Env. Cond.	At Laboratory 20 ± 2 °C, 40 to 60 % Rh. 20.7 °C 49.4 %Rh	Std. Ref. Used Cali.Method No.	IS 2949 & IS 4960. NCQC/CM/M/065

### Master Instruments Detail

NCQC SYS.NO.	Nomenclature	Make/ Model	Id / Serial No.	Traceable To	Certificate No.	Valid Upto
120/3	Cylindrical Mandrel	Unity / ===	NCQC/M-96 / ===	CC-2378	9280/N/2021	05/12/2023
120/1	Cylindrical Mandrel	Unity / ===	NCQC/M-94 / ===	CC-2378	9278/N/2021	05/12/2023
14	Granite Surface Plate	Micro-Flat / ===	NCQC/M-113 / 9965	CC-2128	NCQC-M/090822/057	08/08/2023
292	Electronic Probe With D.R.O	Sylvac/ ===	NCQC/M-129/112730 17	CC-2128	NCQC-M/011022/001	30/09/2023
84	Slip Gauge set	Aditya / M88/1	NCQC/M-109 / 2967	CC-2102	SG 3112	22/09/2023
15	Master Cylinder	Bagson/===	NCQC/M-112 / 18000	CC-2323	KCP/35/22-23/5339	07/10/2025

### Calibration Results

Parameter to be calibrated	Permissible Value	Observed Value	Expanded Uncertainty in $\mu\text{m}$ (k=2) ( $\pm$ )
Parallelism of axis of V w.r.t. base A	3.4	3.0 $\mu\text{m}$	7.80
Parallelism of axis of V w.r.t. base B	3.4	3.1 $\mu\text{m}$	7.80
Parallelism of axis of V w.r.t. side face A	3.4	2.9 $\mu\text{m}$	7.80
Parallelism of axis of V w.r.t. side face B	3.4	2.8 $\mu\text{m}$	7.80
Parallelism of side faces A	3.4	3.0 $\mu\text{m}$	7.80
Parallelism of side faces B	3.4	2.9 $\mu\text{m}$	7.80
Squareness of side faces A	3	3 $\mu\text{m}$	8.60
Squareness of side faces B	3	3 $\mu\text{m}$	8.60
Parameter to be calibrated	Permissible Value	Observed Value	Expanded Uncertainty in $\mu\text{m}$ (k=2) ( $\pm$ )
Matching tolerance for a pair (small $\emptyset$ )	2	1.7 $\mu\text{m}$	8.60
Matching tolerance for a pair (big $\emptyset$ )	2	1.5 $\mu\text{m}$	8.60

Traceable To National / International Standards.

Maulik Rathod  
Calibration Engineer

Reviewed & Approved By

Arif Shaikh  
Calibration Incharge

NCQC System Certificate No. 377



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	Date of Issue	14/06/2023
	Date of Calibration	14/06/2023
	Suggested Due Date	13/06/2024
	Date of Receipt / Ref.No.: 14/06/2023	

ULR No. : CC212823000004642F

Discipline : Mechanical Calibration  
Dimensional (Precision- Precision Instruments and Surface Topology)

**Details of Observation of Unit Under Calibration**


Identification No. : NCQC/M-193  
Serial No. : ===  
Name of Instrument : V Block

### Remarks:

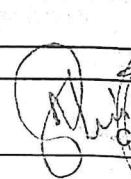
- These results are obtained at the time of calibration.
- Suggested due date is given based on customer requirements
- Result relates to the item calibrated only.
- No external provider was used for calibration and hence it is not applicable.
- Calibration certificate shall not be reproduced except in full without written approval of Director, NCQC.
- Any hand written corrections (except @) or photocopies of the report invalidates this certificate.
- The uncertainties are for a confidence probability of not less than 95% with coverage factor k = 2
- Condition of instrument found satisfactory.
- Our masters are directly calibrated through NABL accredited calibration laboratory having direct traceability with National / international standard.

Traceable To National / International Standards.

Calibrated By

 Maulik Rathod  
Calibration Engineer

Reviewed & Approved By

 Anif Shaikh  
Calibration Incharge

Page 2 of 2