



MICRO-FLAT DATUMS PVT. LTD.



CALIBRATION LABORATORY

CALIBRATION CERTIFICATE

CC-2378

Certificate No : 07490/N/2023	TRUE COPY	Issue Date : 02.10.2023	Page : 1 OF 2
ULR No : CC237823000007490F			

- Name & address of customer : **National Centre For Quality Calibration,**
4, Abhishree Corporate Park, Nr. Swagat Bunglow BRTS, Iskcon-Ambli Road,
Ambli, Ahmedabad - 380058
- Description of the item : Name : **Taper Test Mandrel**
Size : **MT6 x 300 mm**
Make : **Unity**
Sr. No. : **---**
ID. No. : **NCQC/M-177**
- Condition of the item on receipt : **Good**
- Date of receipt of the item : **02.10.2023**
- Date & place of calibration : **02.10.2023** | Micro-Flat Calibration Laboratory
- Environmental condition during calibration : Temperature (20° C ± 1° C) : **20.3 °C**
Relative Humidity (40 to 80 % RH) : **53.2 % RH**
- Reference Standard used for calibration & it's metrological traceability

Description of Reference Standards	ID. No. / Sr. No.	Calibration Date	Certificate No.	Valid up to	Calibrated by
Granite Surface Plate, Grade - 00 Make : Microflat	GSP/CAL/2	18.05.2023	RS/007/2023	18.05.2024	Micro-Flat CC-2378
Electronic Probe with D.R.O. Make : Sylvac	EP/CAL/1 (04337)	16.03.2022	P/27/210057	16.03.2024	Accurate, Pune CC-2082
Sine Centre Make : Microflat	SC/CAL/1	03.10.2022	RS/022/2022	03.10.2023	Micro-Flat CC-2378
Slip Gauge Set, Grade - 0 Make : Mikronix	SG/CAL/2 (5362)	28.06.2023	RS/015/2023	28.06.2024	Micro-Flat CC-2378
Steel V - Block Make - Microflat	VB/CAL/1 (110A & B)	24.12.2022	RS/032/2022	24.12.2023	Micro-Flat CC-2378

All reference standards are traceable to national standards.

- Reference documents : Calibration work instruction No. CP - 450 (B)
As per IS : 2063 - 2002 (Part 1)
- Uncertainty of measurements : ± 3.0 µm for diameter variation ± 2.5 µm for run out
± 3.5 µm for concentricity ± 5.0 sec. for taper angle
(The uncertainty of Measurement is expressed at a confidence level of approximately 95.45% with coverage factor k = 2)
- Calibration Result : Refer page 2 of 2
- Next due date of calibration (As suggested by customer) : **02.10.2025**

NCQC
Valid up to **02-10-2025**
Reviewed *[Signature]*

NCQC System Certificate No. 356

The reported results are valid only for the condition of the received item at the time of and under the stated conditions of calibration. This report refers only to the item supplied and may not be reproduced except in full without written permission from the Laboratory

	CALIBRATED BY	AUTHORISED SIGNATORY	
	<i>[Signature]</i> Samarpit Parmar	<i>[Signature]</i> Dipti Mistry (Technical Manager)	

Plot No. 25-28, Zone D-3, GIDC, Vithal Udyognagar, Anand-388121, Gujarat, India
Phone: +91-2692-235730, 235205 | Email: calibration@microflatdatums.com



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DISCIPLINE: MECHANICAL:

CALIBRATION RESULT

Sr. No.	Parameters Checked	Permissible Value	Observed Value
1	Maximum Variation in Diameter	3.0 μ m	2.9 μ m
2	Run Out	3.0 μ m	2.8 μ m
3	Concentricity	3.0 μ m	2.8 μ m
4	Taper Angle	1° 29' 36" \pm 10"	1° 29' 42"

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

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CALIBRATED BY


Samarjit Parmar

AUTHORISED SIGNATORY


Dipti Mistry (Technical Manager)

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