



Quality Solutions (India)



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CALIBRATION CERTIFICATE

CUSTOMER : M/S NATIONAL CENTRE FOR QUALITY CALIBRATION
HOUSE No. 4, ABHISHREE CORPORATE PARK ,

Date of Performance	: 03/09/2019	Certificate No.	: QSI/0345/19/09
Date of Issue	: 03/09/2019	Service Request Date	: 03/09/2019
Service Request No.	: 0345	Total Page	: 1
Page	: 1	Environment Temperature	: (20 ± 1)°C
Unit Under Calibration	: OPTICAL PARALLEL SET	Relative Humidity(%RH)	: (50 ± 10) %
Calibration Procedure	: QSI/QP/5.4/01.WI-80M	Location of calibration	: At Lab
Visual Inspection	: OK		

DETAILS OF UNIT UNDER CALIBRATION

Make	Model	Specification	Sr. No.	ID No.
MITUTOYO	157-903	Flatness : 0.1 µm Parallelism : 0.2 µm Diameter : 30mm Thickness : Reference Observation	Reference Observation	NCQC/M-172

DETAILS OF STANDARD EQUIPMENTS USED FOR CALIBRATION

Name	Make	Sr. No./ID No.	Certificate No.	Validity	Calibrated By
OPTICAL FLAT With Monochromatic Light Source	MICRON	100915 (QSI/OF/01)	MetR1/2017-46(R1)	30/11/2019	Traceable to NPL, through NABL LAB CC-2006 (CMERI)
Two Probe Comparator	KCP-TESA	207 QSI/SGC/01	CC271718000000072F	19/11/2019	Traceable to NPL, through NABL LAB , CC-2717(QSI)

OBSERVATIONS

DESCRIPTION		Observed Flatness Of face A- Top (µm)	Observed Flatness Of face B- Top (µm)	Observed Parallelism (µm)
Model / Sr. No	Thickness			
157-101(021478)	12.00 ± 0.01	0.072	0.069	0.16
157-102(007579)	12.12 ± 0.01	0.084	0.078	0.17
157-103(007531)	12.25 ± 0.01	0.073	0.081	0.20
157-104(007740)	12.37 ± 0.01	0.091	0.088	0.16

NOTE : Accuracy As per Manufacturers Specification - Flatness : 0.2 µm & Parallelism : 0.2 µm

OBSERVED ACCURACY : The results of instrument falls with in Above Specified Accuracy (Permissible errors)

Remark : Ref. Standard IS-5440-1969

ULR NO. : CC271719000000345F

Format No. : F01(5.10/01) ISSUE NO: 02

Traceability of Standard(s) : The Standard Used for calibration is traceable to National Standards

Uncertainty of Measurement (At approximately 95% Confidence Level, k=2) :

Is ± 0.11 µm (Flatness) . ± 0.11 µm (Parallelism)

Remarks: As per Manufacturers Specification : OK

Calibrated By
Shri Ram Dhiman
(Technical Executive)

Issued By
Ajay Kumar Singh
(Technical Manager)

NCQC System Certificate No. 350

NCQC
Valid up to 02-09-2021
Reviewed

NATIONAL AWARD WINNER

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