



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

HEXAGON METROLOGY INDIA CALIBRATION LABORATORY, A-9, SECTOR-65, NOIDA, UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2778

Page No

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Validity

27/11/2020 to 26/11/2022

Last Amended on

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	CMM Verification	Length bars	0 to 2000 mm	$(1.5 + L/300) \mu\text{m}$ (where L is in mm)
2	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Horizontal Straightness error mapping of X, Y, Z-axis of CMM	Laser Interferometer with Straightness Optics	0 to 2000 mm	$(1+L/1000) \mu\text{m}$ (where L is in mm)
3	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Linear error mapping X, Y, Z-axis of CMM	Laser Interferometer with Linear Optics	0 to 2000 mm	$(0.7+L/2000) \mu\text{m}$ (where L is in mm)
4	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Pitch error mapping X, Y, Z-axis of CMM	Laser Interferometer with Angular Optics	0 to 2000 mm	0.7arc seconds
5	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roll error mapping of X, Y, Z-axis of CMM	Laser Interferometer with Straightness Optics and extended arm	0 to 2000 mm	0.8arc seconds
6	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Squareness of XY, YZ & ZX Plane of CMM	Length Bar	0 to 2000 mm	$1.5 + L/300\mu\text{m}$ (where L is in mm)
7	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Vertical Straightness error mapping of X, Y, Z-axis of CMM	Laser Interferometer with Straightness Optics	0 to 2000 mm	$(1.0 + L/1000)\mu\text{m}$ (where L is in mm)



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8	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Yaw error mapping X,Y,Z-axis of CMM	Laser Interferometer with Angular Optics	0 to 2000 mm	0.7arc seconds



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Site Facility					
1	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	CMM Verification	Length bars	0 to 2000 mm	$(1.5 + L/300) \mu\text{m}$ (where L is in mm)
2	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Horizontal Straightness error mapping of X, Y, Z-axis of CMM	Laser Interferometer with Straightness Optics	0 to 2000 mm	$(1+L/1000) \mu\text{m}$ (where L is in mm)
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* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.