



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	1 of 5
Validity	11/01/2023 to 10/01/2025	Last Amended on	-

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)	Articulated Arm CMM (Parameter - Probing Size Error (Psize))	Using Test Sphere & ISO-10360-12 by Comparison Method	Up to 51 mm	1.8µm
2	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Articulated Arm CMM (Parameter - Probing Form Error (Pform))	Using Test Sphere & ISO-10360-12 by Comparison Method	Up to 51 mm	4µm
3	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Articulated Arm CMM (Parameter - Articulated Location Error (Ldia.))	Using Test Sphere & ISO-10360-12 by Comparison Method	Up to 51 mm	4.7µm
4	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Articulated Arm CMM Length Measurement (Parameter -Error Unidirectional (Euni))	Using Nest Bar with Conical Seats & ISO-10360-12 by Direct Method	0 to 3000 mm	(4 +3.5L) µm; L in m
5	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Articulated Arm CMM with Optical Distance Sensors (Parameter - Articulated Location Error (Ldia))	Using Test Sphere & ISO-10360-8 Annex D by Comparison Method	Up to 51 mm	4.5µm
6	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	CMM Verification	Using Length bars by Comparison Method	0 to 2000 mm	(1.5 + L/300)µm; (where L is in mm)



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7	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Horizontal Straightness error mapping of X, Y, Z-axis of CMM	Using Laser Interferometer with Straightness Optics by Direct Method	0 to 2000 mm	$(1+L/1000) \mu\text{m}$ (where L is in mm)
8	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Linear error mapping X, Y, Z-axis of CMM	Using Laser Interferometer with Linear Optics by Direct Method	0 to 2000 mm	$(0.7+L/2000) \mu\text{m}$ (where L is in mm)
9	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Pitch error mapping X, Y, Z-axis of CMM	Using Laser Interferometer with Angular Optics by Direct Method	0 to 2000 mm	0.7arc s
10	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roll error mapping of X, Y, Z-axis of CMM	Using Laser Interferometer with Straightness Optics and extended arm by Direct Method	0 to 2000 mm	0.8arc s
11	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Squareness of XY, YZ & ZX Plane of CMM	Using Length Bar by Comparison Method	0 to 2000 mm	$1.5 + L/300\mu\text{m}$ (where L is in mm)
12	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Vertical Straightness error mapping of X, Y, Z-axis of CMM	Using Laser Interferometer with Straightness Optics by Direct Method	0 to 2000 mm	$(1.0 + L/1000)\mu\text{m}$ (where L is in mm)
13	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Yaw error mapping X,Y,Z-axis of CMM	Using Laser Interferometer with Angular Optics by Direct Method	0 to 2000 mm	0.7arc s



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* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of $k = 2$.

