

Laboratory Hexagon Metrology India Calibration Laboratory, A-9, Sector-65,
 Noida, Uttar Pradesh
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number CC-2778 **Page** 1 of 1
Validity 25.07.2018 to 24.07.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. DIMENSION (PRECISION INSTRUMENTS)				
1.	Linear Displacement Accuracy of CMM X, Y, Z Axis [#] L.C.: 0.0001mm	Up to 2000 mm	$(0.7 + L / 2000) \mu\text{m}$ L is in mm	Using Laser Interferometer with Linear Optics
2.	Verification of CMM Across X, Y, Z Axis [#] (Volumetric)	Up to 2000 mm	$(1.5 + L / 300) \mu\text{m}$ L is in mm	Using Length Bar and Holding Fixture of Length Bars
3.	Squareness Between X, Y and Z Axis of CMM [#]	Up to 1000 mm	$(1.5 + L / 300) \mu\text{m}$ L is in mm	Using Length Bar and Holding Fixture of Length Bars
4.	Pitch & Yaw of X, Y and Z Axis of CMM [#]	Up to 2000 mm	0.8" Arc	Using Laser Interferometer with Angular Optics
5.	Straightness of X, Y and Z Axis of CMM [#]	Up to 2000 mm	$(1.0 + L / 1000) \mu\text{m}$ L is in mm	Using Laser Interferometer with Straightness Optics
6.	Roll of X, Y and Z Axis of CMM [#]	Up to 2000 mm	0.8" Arc	Using Laser Interferometer with Straightness Optics

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

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