

Laboratory Unique Engineers, Plot No. 139, Sector-6, IMT Manesar, Gurugram, Haryana

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2945 Page 1 of 5

Validity 01.01.2019 to 31.12.2020 Last Amended on -

“In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020”

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)				
1.	Calipers ^{\$} (Digital, Dial, Vernier) LC 0.01mm	0 to 300 mm 0 to 600 mm	17.0 μ m 21.3 μ m	Using Caliper Checker & Slip Gauge Set by Comparison Method
2.	Plunger Type Dial Gauge ^{\$} LC 0.001mm	Upto 25mm	2.0 μ m	Using Dial Calibrator Tester, Slip Gauge set & Comparator Stand by Comparison Method
3.	Lever Type Dial Gauge ^{\$} LC 0.001mm	0 to 1.0 mm	2.0 μ m	Using Dial Calibrator Tester, Slip Gauge set & Comparator Stand by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
4.	Dial Bore Gauge ^s (Transmission Error Only) LC 0.001mm	Upto 2.0 mm	3.0 μ m	Using Dial Calibrator Tester & Dial Gauge by Comparison Method
5.	Height Gauge ^s (Digital, Vernier, Dial) LC: 0.01mm	0 to 300mm 0 to 600mm	9.3 μ m 19.3 μ m	Using Caliper Checker & Slip Gauge Set by Comparison Method
6.	Setting Rod ^s	Upto 300mm	6.3 μ m	Using Electronic Probe, Comparator stand & Slip Gauge set by Comparison Method
7.	Feeler Gauge ^s	0.01 mm to 1 mm	1.8 μ m	Using Electronic Probe & Comparator stand by Comparison Method
8.	Snap Gauge ^s LC 0.001mm	3 mm to 150 mm	4.0 μ m	Using Slip Gauge Set by Comparison Method
9.	Measuring Pin ^s	1mm to 20mm	4.0 μ m	Using Electronic Probe & Comparator Stand by Comparison Method
10.	Plain Plug Gauge ^s	3 mm to 100 mm	4.1 μ m	Using Electronic Probe, Comparator stand & Slip Gauge set by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
11.	Dial Thickness Gauge ^s	0 to 25 mm	6.0 μ m	Using Slip Gauge set by Comparison Method
12.	External Micrometer ^s L.C.: 0.001 mm L.C.:0.01 mm	0 to 25 mm 25 mm to 100 mm 100 mm to 300 mm	1.4 μ m 2.5 μ m 12.2 μ m	Using Slip Gauge set & Slip Gauge Accessories by Comparison Method
13.	Depth Caliper ^s (Vernier/Electronic/ Dial) L.C.:0.01 mm	0 to 300 mm	19.0 μ m	Using Caliper Checker & Slip Gauge Set by Comparison method
14.	Angle Plate, Box Angle, Tri Square ^s (Squareness, Flatness)	Upto 300 mm	19.0 μ m	Using Caliper Checker & Slip Gauge Set by Comparison method
15.	Bevel Protractor ^s L.C.:5'	0 to 180°	4.0' arc	Using Angle Gauge Set by comparison method
16.	Standard Foil set ^s	0.01mm to 1mm	2.0 μ m	Using comparator Stand & Electronic Probe by Comparison Method
17.	Surface Plate ^s (Grade 1 and coarser)	3000mm x 3000 mm	$1.0\sqrt{(L+W)}/125$ μ m L,W is in mm	Using Electronic level by comparison method

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18.	Electronic Probe ^s L.C.:0.0001 mm	0 to 25 mm	1.8 μ m	Using comparator Stand & Slip Gauge Set by Comparison Method
19.	Dial Calibration Tester ^s L.C.:1.0 μ m	0 to 25 mm	1.5 μ m	Using Slip Gauge Set & Electronic Probe by Comparison Method
20.	Spirit Level ^s (Sensitivity 0.02 mm/m)	0 to 0.2 mm/m	9.7 μ m	Using Electronic Level by Comparison Method
21.	Height Micrometer ^s L.C.:0.001 mm	0 to 300 mm	4.4 μ m	Using Slip Gauge set & Slip Gauge Accessories by Comparison Method
22.	Comparator Stand [#]	300 mm x 300 mm	4.4 μ m	Using Electronic Level, Plunger Dial gauge by Comparison Method
23.	Bench Centre [#] (Parallelism w.r.t. to base coaxiality of centre)	0 to 1200 mm	6.1 μ m	Using Cylindrical Mandrel & Dial Test Indicator by comparison Method
24.	Profile Projector [#] Linear Angular Magnification	200mm to 150 mm 0 to 360° 10X	14.0 μ m 2' arc 0.24%	Using Slip Gauge Set, Glass Scale, Angle Gauge Set & Digital Caliper by comparison method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
25.	Gear Rolling Tester, Squareness of Mandrel, Parallelism of Mandrels [#]	0 to 300 mm	9.7 μ m 5.3 μ m	Using Cylindrical Square, Slip Gauge Set, Mandrel & Digital Dial gauge by comparison Method
II.	PRESSURE INDICATING DEVICES			
1.	Hydraulic Pressure Pressure Gauge/ Transducer with Indicator/Transformer [#]	0 to 29.4 bar 29.4 bar to 686.47 bar	0.3 bar 0.06 bar	Using Digital Pressure Indicator as per DKD-R6-1 by Comparison Method

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

\$ Only in Permanent Laboratory

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