

Laboratory

CQA-Testing and Calibration Laboratory, Varroc Polymers Pvt. Ltd.,
VPPL-II, Plot No. E-88, Ranjangaon MIDC, Tal. Shirur, Dist. Pune,
Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2711 (in lieu of C-0819)

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Validity

03.06.2018 to 02.06.2020

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
1.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Caliper -Vernier/Dial/ Electronic [§] L.C.: 10 μ m	Up to 600 mm	13.0 μ m	Using Caliper Checker by Comparison Method
2.	Height Gauge - Vernier / Dial / Electronic [§] L.C.: 10 μ m	Up to 600 mm Up to 1000 mm	15.0 μ m 17.0 μ m	Using Caliper Checker & Length Bar by Comparison Method
3.	Depth Gauges - Vernier / Dial / Electronic [§] L.C.: 10 μ m	Up to 300 mm	12.0 μ m	Using Depth Micro Checker by Comparison Method
4.	External Micrometer [§] L.C.: 1 μ m	Up to 100 mm 100 mm to 300 mm	2.1 μ m 4.2 μ m	Using Gauge Block Set by Comparison Method
5.	Internal Micrometer [§] (Two Point) L.C.: 10 μ m	5 mm to 300 mm	5.0 μ m	Using Gauge Block Set & Slip Gauge Accessories Set by Comparison Method
6.	Depth Micrometer [§] L.C.: 1 μ m	Up to 300 mm	5.3 μ m	Using Depth Micro Checker by Comparison Method
7.	Micrometer Head [§] L.C.: 0.2 μ m	Up to 25 mm	0.8 μ m	Using Electronic Digital Comparator by Comparison Method

Dheeraj Chawla
Convenor

Avijit Das
Program Manager

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8.	Plunger Type Dial Gauge ^{\$} L.C.: 1 μ m	Up to 10 mm Up to 25 mm	3.6 μ m 4.0 μ m	Using Dial Calibration Tester by Comparison Method
9.	Lever Type Dial Gauge ^{\$} L.C.: 1 μ m	Up to 2 mm	4.0 μ m	Using Dial Calibration Tester by Comparison Method
10.	Dial Bore Gauge ^{\$} (for Transmission Mechanism) L.C.: 1 μ m	Up to 2 mm	7.1 μ m	Using Dial Calibration Tester by Comparison Method
11.	Dial Snap Gauge / Thickness Gauge ^{\$} L.C.: 1 μ m	Up to 250 mm	3.7 μ m	Using Gauge Block Set by Comparison Method
12.	Electronic Comparator with Stand ^{\$} L.C.: 1 μ m	Up to 250 mm	4.0 μ m	Using Gauge Block Set by Comparison Method
13.	Parallel Thread Plug Gauge/Wear Check Plug Gauge ^{\$} (For Effective, Minor, Major)	2 mm to 100 mm	3.2 μ m	Using Electronic Floating Carriage Diameter Measuring Machine by Comparison Method
14.	Thread Ring Gauge / Wear Check Ring Gauge ^{\$} (For Effective Dia. Only)	3 mm to 100 mm	2.0 μ m	Using Universal Length Measuring Machine by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
15.	Plain Plug Gauge ^s	3 mm to 100 mm 100 mm to 250 mm	1.4 μ m 3.2 μ m	Using Electronic Digital Comparator by Comparison Method
16.	Plain Ring Gauge ^s	5 mm to 100 mm 100 mm to 250 mm	2.0 μ m 3.8 μ m	Using Universal Length Measuring Machine by Comparison Method
17.	Plain Gap Gauge ^s	2 mm to 100 mm 100 mm to 250 mm	1.8 μ m 3.0 μ m	Using Gauge Block Set by Comparison Method
18.	Thread Measuring Prism ^s	Type A,B,C,D	0.9 μ m	Using Electronic Digital Comparator by Comparison Method
19.	Thread Measuring Wire ^s	0.17 mm to 6.35 mm	0.9 μ m	Using Electronic Digital Comparator by Comparison Method
20.	Cylindrical Setting Master ^s	Up to 100 mm	1.4 μ m	Using Electronic Digital Comparator by Comparison Method
21.	Measuring Pin ^s	Up to 20 mm	1.0 μ m	Using Electronic Digital Comparator by Comparison Method
22.	Micrometer Setting Standard ^s	Up to 100 mm 100 mm to 250 mm	1.5 μ m 4.0 μ m	Using Electronic Digital Comparator by Comparison Method
23.	Feeler Gauge ^s	0.01 mm to 2 mm	1.0 μ m	Using Electronic Digital Comparator by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
24.	Radius Gauge [§]	0.5 mm to 25 mm	25.0 μ m	Using Profile Projector by Comparison Method
25.	Thread Pitch Gauge [§] Pitch Flank Angle	Up to 6 mm 55° & 60°	25.0 μ m 12 min. of arc	Using Profile Projector by Comparison Method
26.	V Block [§] Symmetricity & Parallelism	Up to 200 mm	9.2 μ m	Using Lever Dial Gauge & Straight Mandrel by Comparison Method
27.	Bevel Protector [§] L.C.: 5 Min of arc	0°-90°-0°	7 min. of arc	Using Angle Gauge Block Set by Comparison Method
28.	Surface Plate [*]	Up to 3000 mm x 1600 mm	$1.0 \times \sqrt{\frac{L+W}{125}}$ μ m Where L & W is in mm	Using Electronic Level by Comparison Method

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

§ Only in Permanent Laboratory

* Only for Site Calibration

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