



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

UNIVERSAL-GAUGES PRIVATE LIMITED, PLOT NO. 41/3, D-II BLOCK, MIDC,
CHINCHWAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4199

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Validity

27/12/2024 to 26/12/2028

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 (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CALIPER-VERNIER/DIAL /ELECTRONIC (L.C: 10 µm)	Using caliper checker Comparison Method	0 to 600 mm	14.83 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DEPTH GAUGE-VERNIER/DIAL/ ELECTRONIC (L.C: 10 µm)	Using Gauge block set & Surface plate by Comparison Method	0 to 300 mm	10.7 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DEPTH MICROMETER (L.C: 10 µm)	Using Slip gauge set & Surface plate by Comparison Method	0 to 300 mm	8.6 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL BORE GAUGE (FOR TRANSMISSION MECHANISM) (L.C: 1 µm)	Using ULM by Direct Measurement	0 to 2 mm	2.98 µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL SNAP GAUGE (L.C: 1 µm)	Using Slip gauge set by comparison method	10 mm to 250 mm	3.2 µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL THICKNESS GAUGE (L.C: 10 µm)	Using Slip gauge set by comparison method	0.5 mm to 10 mm	3 µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	EXTERNAL MICROMETER (L.C: 1 µm)	Using Slip gauge set by comparison method	0 to 100 mm	1.92 µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	EXTERNAL MICROMETER (L.C: 10 µm)	Using Slip gauge set by comparison method	100 mm to 300 mm	6.30 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic comparator & Slip gauge set by Comparison Method	0.01 mm to 1 mm	1.8 µm



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	HEIGHT GAUGE-VERNIER/DIAL/ELECTRONIC (L.C: 10 µm)	Using Caliper checker & Surface plate by Comparison Method	0 to 600 mm	16.8 µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	INTERNAL MICROMETER (TWO POINT) (L.C: 10 µm)	Using Gauge block set by comparison method	5 mm to 300 mm	4.75 µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LEVER TYPE DIAL GAUGE (L.C: 1 µm)	Using ULM by Comparison Method	0 to 0.14 mm	1.6 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Electronic comparator by Comparison Method	0.25 mm to 20 mm	2.13 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MICROMETER SETTING STANDARDS	Using ULM & Gauge block set by Comparison Method	100 mm to 300 mm	2.72 µm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MICROMETER SETTING STANDARDS	Using ULM & Gauge block set by comparison Method	25 mm to 100 mm	1.32 μ m
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PARALLEL THREAD PLUG GAUGE (major dia., effective dia., minor dia.)	Using Floating carriage diametrical measurement machine by Comparison Method	1 mm to 50 mm	3.71 μ m
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PARALLEL THREAD PLUG GAUGE (major dia., effective dia., minor dia.)	Using ULM & Gauge block set by Comparison Method	100 mm to 400 mm	4.21 μ m
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PARALLEL THREAD PLUG GAUGE (major dia., effective dia., minor dia.)	Using ULM & Gauge block set by Comparison Method	50 mm to 100 mm	2.01 μ m
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN GAP GAUGE	Using Gauge block set & Slip gauge set by Comparison Method	100 mm to 250 mm	2.91 μ m



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN GAP GAUGE	Using slip gauge set by Comparison Method	3 mm to 100 mm	1.35 µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN PLUG GAUGE /WIDTH GAUGE/HEIGHT MASTER	Using Electronic comparator and Gauge block set by Comparison method	1 mm to 100 mm	2.41 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN PLUG GAUGE/ WIDTH GAUGE/ HEIGHT MASTER	Using ULM and Gauge block set by Comparison method	100 mm to 200 mm	2.55 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN PLUG GAUGE/ WIDTH GAUGE/ HEIGHT MASTER	Using ULM and Gauge block set by Comparison method	200 mm to 400 mm	4.36 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN RING GAUGE	Using LMM and Master setting ring by comparison method	1 mm to 100 mm	1.51 µm



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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN RING GAUGE	Using LMM and Master setting ring by comparison method	100 mm to 410 mm	4.67 µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLUNGER TYPE DIAL GAUGE (L.C: 1 µm)	Using ULM by Comparison Method	0 to 25 mm	0.7 µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER THREAD PLUG GAUGE (Effective Diameter)	Using Length Measuring Machine, Gauge Block Set and Thread Measuring Wires by the Comparison Method	100 mm to 400 mm	2.97 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER THREAD PLUG GAUGE (Effective Diameter)	Using Floating Carriage Diameter Measuring Machine, Cylindrical Setting Masters and Thread Measuring Wires by the Comparison Method	5 mm to 100 mm	3.70 µm



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29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER THREAD RING GAUGE (Effective Diameter)	Using LMM & Master setting ring gauge by Comparison Method	5 mm to 320 mm	2.1 μ m
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	THREAD RING GAUGE (Effective Diameter)/ WEAR CHECK RING GAUGE	Using LMM and Master setting ring gauge by Comparison Method	100 mm to 200 mm	3.63 μ m
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	THREAD RING GAUGE (Effective Diameter)/ WEAR CHECK RING GAUGE	Using LMM and Master setting ring gauge by Comparison Method	200 mm to 410 mm	4.54 μ m
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	THREAD RING GAUGE (Effective Diameter)/ WEAR CHECK RING GAUGE	Using LMM & Master setting ring gauge by Comparison Method	3 mm to 100 mm	1.61 μ m

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