

Laboratory Aero Precision, PK 7/1170, Kottukal Panchayath, Thiruvananthapuram, Kerala

Accreditation Standard ISO/IEC 17025:2005

Discipline Mechanical Calibration **Issue Date** 22.04.2016

Certificate Number C-1363 **Valid Until** 21.04.2018

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability (\pm)	Remarks
I. DIMENSION			
1. CALIPERS^{\$} (Vernier/Dial/Digital) L.C.: 0.01 mm	Upto 300 mm 300 mm to 1000 mm	9.1 μ m 15.4 μ m	Using Grade "0" Gauge Blocks, Long Gauge Blocks by Comparison Method
2. VERNIER DEPTH GAUGE^{\$} (Vernier, Digital) L.C.: 0.01mm	Upto 300 mm	7.0 μ m	Using Grade "0" Gauge Blocks by Comparison Method
3. EXTERNAL MICROMETER^{\$} (Mechanical / Digital) L.C.: 0.001mm L.C.: 0.01 mm	Upto 300 mm 300 mm to 1000 mm	4.9 μ m 12.0 μ m	Using Gauge Blocks "0" Gr. & Long Gauge Blocks by Comparison Method
4. BORE GAUGE^{\$} (For Transmission) L.C.: 0.01mm	Upto 2 mm travel	1.7 μ m	Using Dial Calibration Tester by Comparison Method
5. DIAL GAUGE PLUNGER TYPE^{\$} (Mechanical/Digital) L.C.: 0.01mm	Upto 25 mm	6.5 μ m	Using Dial Calibration Tester by Comparison Method

Naveen Jangra
Convenor

Avijit Das
Program Manager

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability (\pm)	Remarks
6. DIAL GAUGE-LEVER TYPE ^{\$} (Mechanical/Digital) L.C.: 0.01mm	Upto 2 mm	6.5 μ m	Using Dial Calibration Tester by Comparison Method
7. FEELER GAUGE ^{\$}	Upto 2 mm	1.8 μ m	Using Digital Micrometer by Comparison Method
8. DEPTH MICROMETER ^{\$} (Mechanical / Digital) L.C.: 0.001mm	Upto 300 mm	5.1 μ m	Using Grade "0" Gauge Blocks by Comparison Method
9. HEIGHT GAUGE ^{\$} (Vernier/Digital) L.C.: 0.001 mm	Upto 1000 mm	(3+7L) μ m L in meters	Using Grade "0" Gauge Blocks/ Long Gauge Blocks by Comparison Method
10. BEVEL PROTRACTOR ^{\$}	0-360°	5.6 Arc Minute	Using CMM by Comparison Method
11. V-BLOCK ^{\$} Parallelism, Symmetry, Squareness	Upto 300 mm	4.5 μ m	Using Co-ordinate Measuring Machine (CMM) by Comparison Method
12. ENGEERS SQUARE ^{\$} (Squareness)	Upto 500 mm	5.8 μ m	Using 2D Electronic Height Gauge by Comparison Method

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability (\pm)	Remarks
13. PLAIN RING GAUGE [§]	10 mm to 100 mm	4.6 μ m	Using Co-ordinate Measuring Machine (CMM) by Comparison Method
14. SNAP GAUGE [§]	10 mm to 100 mm	2.5 μ m	Using Grade "0" Gauge Blocks by Comparison Method
15. PLAIN PLUG GAUGE [§]	Upto 100 mm	4.6 μ m	Using Co-ordinate Measuring Machine (CMM) by Comparison Method
16. SINE BAR [§]	Upto 300 mm	4.0 Arc sec	Using Co-ordinate Measuring Machine (CMM) & Grade "0" Gauge Blocks by Comparison Method
17. STRAIGHT EDGE [§]	Upto 500 mm	8.0 μ m	Using 2D Electronic Height Gauge by Comparison Method

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

[§]Only in Permanent Laboratory

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