



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ALFA MACHINE TOOLS PVT.LTD, PLOT NO:60,61,62-B, EVP PARK, AYYAPPANTHANGAL, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2046 Page No. : 1 / 3

Validity 12/04/2019 to 11/04/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ANGLE PLATE / BOX ANGLE PLATE(Squareness & Flatness)	300x300x300mm	± 6.8µm	Square Master, Precision Level & Dial Indicator Based on IS:2554, , IS:6973 & IS: 6232
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	BENCH CENTRE(Co-Axiality of Centres & Parallelism)	Admit between Centre:2500mm Centre Height: 300mm	± 5.7µm	Straight Mandrel & Dial Indicator Based on IS: 5980
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	COMPARATOR STAND(Flatness of Base)	300 x 200 mm	± 6.8µm	Precision Dial Indicator Based on IS: 7599
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	GRANITE SQUARE/ TRY SQUAREsquareness	300x300mm	± 6.8 µm	Square Master & Precision Dial Indicator Based on IS:2103-2006
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SPIRIT LEVEL	Sensitivity 0.01 mm/m ± 80 µm/m	± 12 µm/m	Electronic Level Based on IS: 5706-1993
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	STRAIGHT EDGE- Granite / Cast Iron(Straightness)	Up to 5000mm	± 1.1 Sqrt(L/B). µmwhere L is the length of Straight Edge and B is the Bridge length in mm	Electronic Level Based on IS:2220 & IS: 12937



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7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SURFACE PLATE (Granite / Cast Iron)(Flatness):	Up to 5000x5000mm	± 1.15 x Sqrt[(L+W)/B]where L & W are the Length and width of Surface plate and B is Bridge length in mm.	Electronic Level Based on IS: 7327, IS: 2285 & IS: 12937
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SURFACE PLATE (Granite / Cast Iron)(Flatness):	Up to 5000x5000mm	± 1.8 x Sqrt[(L+W)/B]where L & W are the Length and width of Surface plate and B is Bridge length in mm.	Spirit Level Based on IS:7327 , IS:2285 & IS: 12937
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TEST MANDREL(Run Out)	Dia 100 x 300mm	± 6.5 µm	Bench Centre , Precision Dial Indicator Based on IS: 2063, ISO-230-1
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-BLOCK(Parallelism, Symmetricity, & Flatness)	300x200x150mm	± 5.4µm	Precision Dial Indicator ,& Test Mandrel Based on IS:2949



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	BENCH CENTRE(Co-Axiality of Centres & Parallelism)	Admit between Centre:2500mm Centre Height: 300mm	$\pm 5.7\mu\text{m}$	Straight Mandrel & Dial Indicator Based on IS: 5980
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	STRAIGHT EDGE- Granite / Cast Iron(Straightness)	Up to 5000mm	$\pm 1.1 \text{ Sqrt}(L/B)$. μm where L is the length of Straight Edge and B is the Bridge length in mm	Electronic Level Based on IS:2220 & IS: 12937
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SURFACE PLATE (Granite / Cast Iron)(Flatness):	Up to 5000x5000mm	$\pm 1.15 \times \text{Sqrt}[(L+W)/B]$ where L & W are the Length and width of Surface plate and B is Bridge length in mm.	Electronic Level Based on IS: 7327, IS: 2285 & IS: 12937
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SURFACE PLATE (Granite / Cast Iron)(Flatness):	Up to 5000x5000mm	$\pm 1.8 \times \text{Sqrt}[(L+W)/B]$ where L & W are the Length and width of Surface plate and B is Bridge length in mm.	Spirit Level Based on IS:7327 , IS:2285 & IS: 12937