



Caliber Gauges & Instruments Laboratory

NABL ACCREDITED LABORATORY

● CNC Machine Calibration & Compensation of error -



Laser Interferometer ML-10 Gold

Laser Interferometer (Make - Renishaw) -
Range - 0 - 40 m Least - 0.000001 mm

CNC Machine calibration & compensation of error with Laser Interferometer .

Make - Renishaw, MI 10 Gold

Compensation of error in following Controller
Fanuc , Seimens, Fagor, Mitsubishi, Senumeric, Heidenhain, Haas, Hnumeric, Electronica.

Calibration as per standard
VDI-3441, ISO-230, JIS B6330

● Calibration of Length Measuring Machine (Metro scope) -

Length Measuring Machine with Laser interferometer NABL Accreditation up to 3 m.
Uncertainty of Measurement - $0.3 + 1.2 L$ (L in meter)

● QC-20 BALLBAR (Circularity Test) -



QC20 Ballbar Make - Renisaw

Circularity Test :

Ball bar test identifies causes following circularity error of CNC Machine

Backlash	Servo mismatch	lateral play
Scaling error	Reversal spikes	Straightness
Squarness	Cyclic error	Vibration Pk. Pk.

Possible to control through parameter so that circularity of machine improve.

Calibration as per standard : ISO 230-4, ASME B 5.54, JISB-6190

Our Facility



SIP

ULM - Make SIP Swiss



SIP

Metroscope Make - SIP



Trimos

Trimos - 2D



Wyler

Electronic Level

Type of Gauge / instrument	Range
Plain Plug Gauge	0-400 mm
Setting Masters	0-1000 mm
Measuring pins	0-20 mm
Feeler Gauge	0-2 mm
Snap Gauge	0-500 mm
Thread Plug Gauge	0-400 mm
Ring Gauge	0-400 mm
Thread Ring Gauge	0-400 mm
Taper Thread Ring	0-50 mm
Plain Taper Gauge	0-100 mm
Straight Edge	Any size
Spirit Level	200 mm
V- Block	200 mm
Glass Scale	0-300 mm
Floating Carriage	0-100 mm
Micrometer	
Electronic Height Gauge	0-600 mm
Micrometer Setting Pieces	0-1000 mm
Measuring Scale Steel	0-300 mm
Measuring Tape	0- 3 m
Comparator Base	25 mm
PCD Gauge	0-300 mm
Pressure Gauge	0-350 kg/cm
Torque Wrench	0-1000 n.m
Vernier Caliper	0-1000 mm
Depth Vernier Caliper	0-500 mm
Vernier Height Gauge	0-1000 mm
Outside Micrometer	0-1000 mm
Depth Micrometer	0-300 mm
Plunger Dial Gauge	0-50 mm
Lever Dial Gauge	0-5 mm
Dial Bore Gauge	Any size
Bevel Protector	180 °
Dial Snap Gauge/	0-300 mm
Electronic Probe	0-50 mm
Internal Micrometer	0-300 mm
Surface Plate	Any size
Length Measuring Machine	0-3000 mm
CNC Machine Calibration	0-40000 mm
Co-ordinate Measuring Machine (CMM)	0-1000 mm
Weighing balance	0-100 kg



Pr. Gauge Calibrator



Floating Carriage M/C



Dial Calibration Tester



Caliber Lab

* Trading of all types of Gauges / instruments / Fixture