UNIQUE MEASUREMENT SERVICE
Advanced Measuring Solution

THE LARGEST MEASUREMENT & CALIBRATION SERVICE PROVIDER IN INDIA

CMM, VMS, CONTOUR, ARM TYPE - ONSITE
PORTABLE CMM INSPECTION
SURFACE FINISH INSPECTION
CALIBRATION SERVICE
CAMERAS
Laser Tracker Calibration
LASER TRACKER INSPECTION

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UNIQUE MEASUREMENT SERVICE
ISO/IEC 17025:2017

NABL ACCREDITED LABORATORY

Initial Issue Date : 17 Mar' 2017
Valid From : 17 Mar' 2020
Valid To : 16 Mar' 2021

"Providing Industrial Measurement Service"

© 2017 UNIQUE MEASUREMENT SERVICE
No. 23, Shasthri Nagar, Avinashi Road, Civil Aerodrome Post, Opp. To Kmch, Behind To Hotel Shree Aanandhas, Coimbatore – 641014.
**Unique Measurement Service** has servicing Leading Quality Measurement & Calibration Services in India. We Are using Advanced Measuring Equipments with High Accuracy, High precision, fully automated machines. We Are Providing 24 hours services in all over India.

We had great customer focus and really went out of their way to make everyone happy with their needs and come back for more.

By allowing the developer of an innovation to reap the rewards of his efforts, we create an environment that encourages innovative thinking and hard work.


**About Us**

**Vision**
To be the world’s most trusted Service source for Metrology.

**Our Motto**
- On-time Delivery
- Effective Price
- 100% Customer Support
- NABL Calibration
- 100% Quality Assured
- Customer Satisfaction
- 24x7 All Measurement Facilities

**Our Services**
- NABL Calibration
- 3D-CMM Inspection (ZEISS)
- Portable-CMM Inspection (Arm Type)(On-site)
- Laser Tracker Inspection
- 3D Laser Scanning & CAD Comparison
- Reverse Engineering
- CNC Machines Laser & Ballbar Calibration
- Third Party Inspection Service
- Video Measurement System(VMS)
- Surface Roughness Tester
- Profile Measurement Service
- On-site Inspection Services
- CMM Programming Training
- 3D Printing
- Blue Light Scanning
- Handy 3D-Scan
- Contour Tester
- Gear Measurement

**Our Locations**
- Chennai
- Coimbatore
- Bangalore
- Hosur

**3D Printing**

- We have a complete package of 3D solution with 3D Printer/Proto Machine to fulfil customer needs.
- Within few hours we can visualize the Product and also we can check function of the product.
- We design & Develop the Parts/Products then we made a prototype.
- We support production more sufficiently.

Architect, Dental, Electrical, Medical, Pattern & CoreBox, Tool & Die, Aerospace, Automotive

**Third Party Inspection**

- We are doing Third party Inspection service for Components and Product evaluation
- We are taking as a project and go to the Supplier end
- Validating all the measuring Equipment’s are calibrated
- Then we are starting measurement as per the Engineering Drawing and Visual Inspection by Lot or Sampling method
- We will go in to the Production line and control the Quality in line itself
- Ensuring the Final dispatch part by final Inspection by sampling or lot as per customer request.
- We will eliminate the rejected parts in the dispatch items
- We are supporting customer and Supplier for getting Good Quality of parts
- We are doing Inspection in Customer Place as Incoming Inspection and Supplier End as Final Inspection.
Ballbar Calibration Service (CNC Machines)

Why Calibrate Your Machines?
- Increase machine uptime
- CNC machine Error compensation
- Improve machine performance
- Reduce component rejections
- Supply with good quality products with close tolerance
- Enable targeted maintenance
- Increase knowledge of your machine/manufacturing capabilities
- Comply with quality assurance procedures and standards
- Provide a professional maintenance service
- Improve your business performance with calibration
- Comply with the ISO 9000 series of standards
- Extend the life of your machine by identifying its sources of errors
- Plan and minimize machine downtime by monitoring wear

Laser Calibration Service (CNC Machines)

We are doing all type of CNC Machines Linear Axis Calibration by using Renishaw XL-80 Laser Interferometer and Ballbar.
- Very high precision Laser source accuracy 0.05ppm
- For using Laser system identify the linear & backlash errors in CNC Machines.
- Identified errors are compensating in CNC controller
- By using ballbar test in CNC machines we can find the following errors:
  - Backlash
  - Reversal spikes
  - Lateral play
  - Cyclic error
  - Cyclic pitch
  - Servo mismatch
  - Calculated feedrate
  - Squareness
  - Centre offset
  - Straightness
  - Scaling mismatch
  - Scaling error
  - Positional tolerance
  - Best fit radius
  - Circularity

Types Of Machine To Calibrate
- VMC & HMC
- TURNING & VTL
- BORING M/C
- WATER JET
- EDM
- LASER CUTTING

NABL Calibration Service for CNC Machine Tools

NABL Calibration Service

Highly Precise Calibration

199.9970

NABL Calibration Laboratory Facility

NABL Calibration Laboratory as per ISO/IEC-17025:2017 Latest revision
- We are doing NABL Calibration in the field of Mechanical Dimension, Pressure, Sound & Speed
- We are doing NABL Calibration for Precision Masters like ULM, CMM by using Laser Interferometer
- We are doing Calibration for all the Gauges, Basic and Precision Instruments and as per the Standards
- We are doing Machine tools (CNC Machines) Calibration by using Renishaw Laser Interferometer and Ball bar Testing kit.
- Pressure Gauge Calibration, Tacho-meter calibration, Sound level Calibration
- 2D height gauge, Surface plate, Slip Gauges, Caliper Checker, Check master, Profile Projector and all dimension scope.

Calibration Methods
Laboratory following the methods given in the National / International standards or guidelines.
- In case no standard, methods are available in the lab may follow in-house developed methods duly validated
- as per the requirements of ISO/IEC-17025:2017

Master Equipment
- Gauge Block Comparator
- Universal Length Measuring Machine
- Coordinate Measuring Machines
- Dial Calibration Tester
- Tachometer Calibrator
- Measuring Tape Calibrator
- Slip Gauge Blocks
- Master Setting Ring Guages
- Caliper Checker / Check Master
- Laser Interferometer
- Electronic Level
- Pressure Gauge Master etc.

Calibration Facilities
- Dimensional Calibration
- Pressure Calibration
- Acoustic (Sound)
- Accelerations (Speed)
- Thermal Calibration*
- Mass & Volume Calibration*
- Hospital Equipments Calibration*
- Civil & Construction Related Calibration*
- Special Equipments Calibration*
- Torque*
- Density & Viscosity*
- Electro-technical Calibration*
CMM Measurement Service

- **Zeiss** 3D CNC Coordinate Measuring Machine. X=800mm, Y=1600mm, Z=600mm
- **Brown & Sharp** 3D CNC Coordinate Measuring Machine
- Model Contura G2, Spectrum II, Inspector & Croma
- Accuracy of Machine is 1.8µm & 2.1µm
- **Continuous Scanning** Probe Head option.
- For ‘N’ number of same jobs running by ‘CNC MODE’ for reduce measurement time and avoid manual Errors.
- **Auto Indexing** probe head and fixed probe head for High accuracy and Repeatability
- All Types of Industrial & Commercial components GD&T, Co-ordinate, Angles, Distance, Profiles, CAD Comparison, Surface, Trim measurement and Special Dimension needs will be full fill with our Co-ordinate Technology. We will provide accurate results.
- **Our Calypso/PC-DMIS software CAD model comparison views and reports are Easily understandable.**
- Gear Measurement; Types - Spur, Helical & Bevel
- Most powerful tool for Reverse Engineering
- We are specialist in component “**Layout Inspection**”, Industrial Gauges, Jig&Fixtures, Molded components, Turning Components, Sheet Metal components.

Reverse Engineering Service

- We have successfully completed 1000+ projects.
- All types of part drawings are performed by using 3D laser scanning, CMM, VMS, Contour.
- 2D,3D designing and on site measurement & design support for reverse engineering.
- 2D to 3D Conversion, 3D to 2D Conversion
- Industrial Products, Commercial Products, Medical Products, etc.
3D Scanning Service (Red Laser & Blue Light)

- A high-precision, non-contact laser scanner with the capability to distinguish between a variety of colors and surface finish.
- High resolution, high speed laser measurement performance for measuring tasks that traditional tactile probes can’t touch.
- 3D digitizing, 3D modeling, Point cloud inspection, Reverse Engineering, this is an all-purpose system.
- Metrology tool for a multitude of applications.
- High Precision Non-Contact Laser Scanning by Zeiss Comet L3D 8M Blue Light Scanning Inspection.
- Accuracy 10 to 20 Micron
- We are doing 3D Comparison Report, 3D Modelling, Point Cloud Inspection, Reverse Engineering,
- We are doing 2D & 3D Analysing of the Scan Cloud data (STL file) with and without 3D data.

Applications:
- Patterns & Castings parts profile Inspection
- Tool, Dies and Mould Inspection
- Injection moulded parts Inspection
- Reverse Engineering
- Medical Parts Developments
- Aero Space Components
- Railway Parts
- Automobile & Commercial Vehicles
- All Industrial Parts and Commercial Products Developments

Contour & Surface Finish Measurement Service

- We are doing Contour Measurement by using Zeiss and Mitutoyo Machines with best accuracy
- The Continuous Tracing Measurement can take exact Profiles, radius, curves, angles linear dimensions of Inner and outer profile of Components
- We can take the measurement with different type of probe
- Without Cutting the Part we can measure the internal groove radius and all complicated features can take more dimension in a single trace of components profile
- This provides high level advantage for layout Inspection and Prototyping parts
- Accuracy: ±(2.5+0.1H) µm

Surface Finish Measurement

- Portable for easy measurement anywhere necessary.
- The detector/drive unit can be detached from the display unit for effortless measurement of irregular oriented work pieces.
- Wide 350µm (-200µm to +150µm) measurement range.
- Roughness parameters compatible with ISO, DIN, ANSI, and JIS.
- 42 analysis parameters are provided, including the basic Ra, Rq, Rz, and Ry parameters.

Video Measurement System (Profile Projector)

- Flat parts
  Stampings, gaskets, circuit boards, patterns, films, foils, gauges and glass masks. These parts are made typically from thin materials. They deform easily, have delicate surfaces and the smallest features or finest surface structures.
  The optimum measurement strategy: quick, non-contact measurement using very high precision.
- 2D and 3D precision parts
  Precision components, Precision nozzles, watch and clock components, gears, keys, tools, dies, pistons, valves and implants. These parts are normally very small and call for very tight tolerances.
- Rotationally symmetrical parts
  Drilling tools, injection nozzles, bushes, gears and other parts with features distributed around the workpiece.
- We are doing Video Measurement / Profile Projector Inspection of all type of components
- We can measure 300mm x 200mm with Z axis
- Accuracy of the machine Exy=3.0 + L/150 µm, Ez=4.5 + L/150 µm

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We are doing Portable CMM Inspection Service with High Accuracy From Romer Arm, Faro, Machines

- We have the Sizes of 2500mm, 2700mm, 3500mm in a single setting measurement.
- We can inspect any size of components. So Size Does Not Matter
- We can Measure with 3D CAD Model Comparison and 2D Comparison
- We are doing Inspection at your site (Shop floor)
- Welding fixtures, Profile fixtures Inspection
- Position, Receiver, Profile & Spl. gauges Inspection
- Developments Parts, Mass Production Parts Inspection
- Dies & Molds, Tube Fixtures Inspection
- Surface inspection
- Metals, Sheet metals, Aluminum, MS Casting, Plastic,
- Fiber, Fiberglass, Nylon, Wood all types of components etc...
- BIW, CIV Fixtures & BIW body Inspection
- Accuracy 0.024mm to 0.038mm

Laser Tracker Inspection

We are doing measurement for following applications:
- Wind Energy:
  - Main Frame, Hub, blade measurement etc.
- Aerospace:
  - Turbines, Blades, Body etc.
- Automotive Industry:
  - Bodies, Bumper, Chassis
- Ship Building
  - Body, Turbines, Frame Leveling etc.
- Construction Equipment
  - Earth movers, Conveyers etc.
- Sea Levelling
  - Machine Bed Level, Conveyers Level, Fixtures Leveling etc.
- Commercial vehicles
  - Chassis, Body etc.
- Railways
  - Coach, Bogie etc.

We are doing Laser Tracker Inspection service all over India by using Advanced Faro Vantage with the best accuracy of Measurement.
- We are doing Inspection at your site (Shop floor)
- We can able to measure from 100mm to 160meters in single setting.
- We can do the measurement No limit size by using Leaf Tracking system.
- Size does not matter.
- 3D CAD Model Comparison and 2D Comparison
- Very large size of components can do the 3D measurement.
- We can Use "TRACK ARM " (We can connect Laser Tracker and Portable CMM) Concept for Large size part to maintain good accuracy and hidden points measurements.

Distance Measurement Performance
- Resolution: 0.5µm (0.00002in)
- Accuracy (MPE): 16µm + 0.8µm/m

Angle Measurement Performance
- Angular Accuracy (MPE): 20µm + 5µm/m
- Precision Level Accuracy: ± 2 arcseconds
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Large Measurement Service

Portable CMM Inspection (Arm Type, On-Site)

Experts in On-Site Inspection

Video: https://www.youtube.com/watch?v=dQw4w9WgXcQ

Very Large Measurement Service

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- Our Calypso/PC-DMIS software CAD model comparison views and reports are Easily understandable.
- Gear Measurement; Types - Spur, Helical & Bevel
- Most powerful tool for Reverse Engineering
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Ballbar Calibration Service (CNC Machines)

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Types Of Machine To Calibrate
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- TURNING & VTL
- BORING M/C
- WATER JET
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NABL Calibration Service for CNC Machine Tools

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Calibration Facilities

- Dimensional Calibration
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- Acoustic (Sound)
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- Thermal Calibration*
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By allowing the developer of an innovation to reap the rewards of his efforts, we create an environment that encourages innovative thinking and hard work.


To be the world’s most trusted Service source for Metrology.

Our Motto

- On-time Delivery
- 100% Customer Support
- 100% Quality Assured
- Effective Price
- Customer Satisfaction
- 24x7 All Measurement Facilities

Our Services

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- 3D-CMM Inspection (ZEISS)
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Vision

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