



SAMRUDDHI ENGINEERING

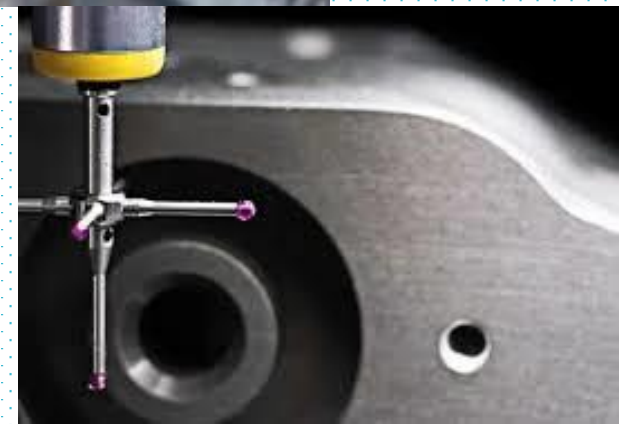
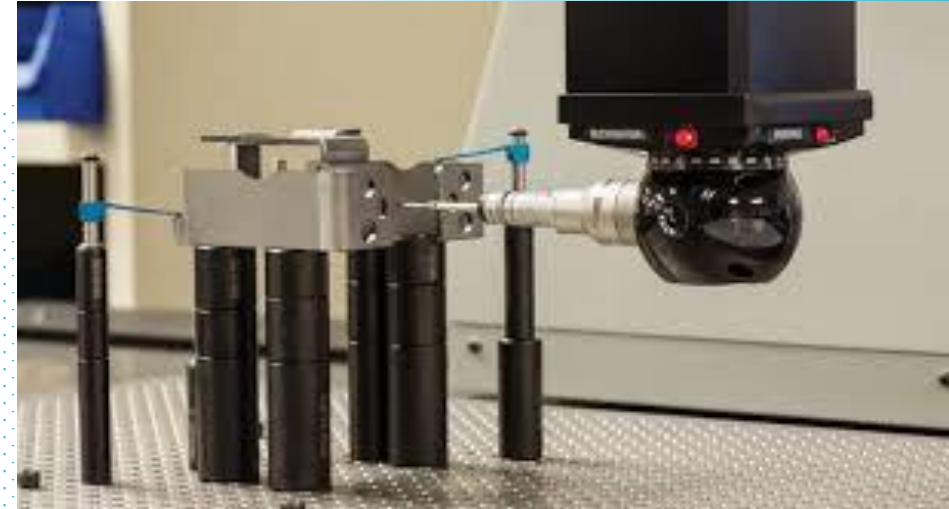
Name trusted for Precision, Consistency and Reliability

An ISO 9001:2015 Certified

At Samruddhi Engineering, we provide a broad array of metrology and dimensional inspection services and solutions for various industries. We also offer hands-on training courses for CMM machines in our advanced inspection lab. Additionally, we have a fully equipped tool room and specialize in producing a wide range of gauges, relation gauges, and fixtures to meet the needs of the engineering industry.

We provide :

- Layout inspection services by CMM
- CMM Programming
- Profile Parameters on Contour Graph Testing
- Roughness Testing
- 3D scanning & Reverse engineering
- Turbine blade inspection
- VMM Inspection
- GD&T and CMM Training
- Excellency in Gear Profile Testing
- CMM holding Fixtures
- Standard Gauges & Fixtures
- Customized Fixtures



INSPECTION MACHINES & EQUIPMENTS :

BRIDGE TYPE CMM (HEXAGON)



- **Make: HEXAGON METROLOGY**
- **Model: GLOBAL PERFORMANCE (BROWN & SHARP)**
- **Software: PCDMIS CAD++**
- **Size : X= 900mm, Y= 1500mm, Z= 800mm**
- **Accuracy: 2.0 microns**

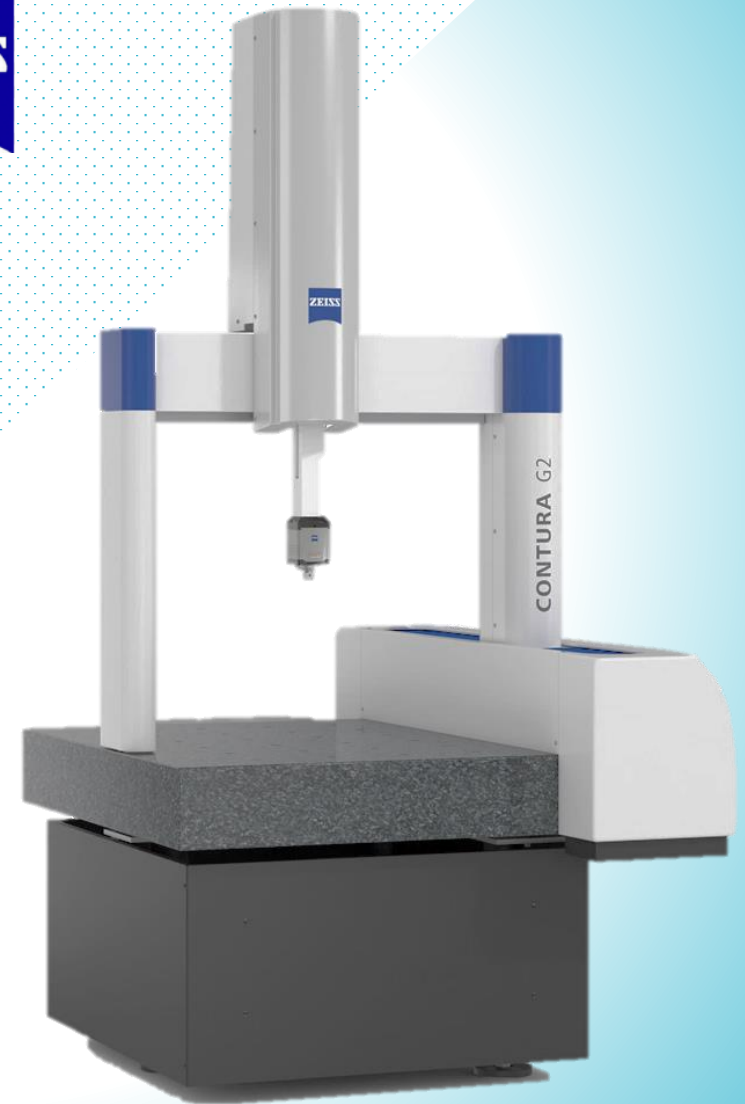


INSPECTION MACHINES & EQUIPMENTS :

BRIDGE TYPE CMM (ZEISS)



- **Make: ZEISS**
- **Model: CONTURA G2**
- **Software: CALYPSO 2016**
- **Size : X= 1000mm, Y= 2100mm, Z= 800mm**
- **Accuracy: 1.9 microns**
- **With advanced package for gear profile testing.**



INSPECTION MACHINES & EQUIPMENTS :

VIDEO MEASURING MACHINE (HEXAGON)



- **Make: HEXAGON METROLOGY**
- **Model: OPTIVE LITE VISION**
- **Software: PCDMIS**
- **Size : X= 300mm, Y= 200mm**
- **Accuracy: 3 microns**



INSPECTION MACHINES & EQUIPMENTS :

CONTOUR MEASURING SYSTEM (Mahr Metrology)

Mahr

- Make : Mahr Metrology
- Model: MahrSurf XC2-M
- Size : X=120mm, Z=450mm
- Accuracy: 0.003mm
- Drive Tilting $\pm 45^\circ$
- Software : Marwin



INSPECTION MACHINES & EQUIPMENTS :

ROUGHNESS TESTER (MITUTOYO)



- **Make: MITUTOYO**
- **Model: SURFTEST SJ-210 SERIES**
- **Traversing lengths up to 17.5 mm**
- **Over 50 surface parameters for R, P & W profiles.**
- **According to current ISO/JIS/VDA/ANSI standards.**



INSPECTION MACHINES & EQUIPMENTS :

3D SCANNER (SCANTECH)



- **Make: SCANTECH**
- **Model: SIMSCAN**
- **Scanning Rate : 2,800,000 measurements/s**
- **Accuracy : 0.020 mm**
- **Software for 3D Scanning : Scan Viewer**
- **Software for Inspection : GOM Inspect**



INSPECTION MACHINES & EQUIPMENTS :

PORTABLE CMM (FARO)

FARO

- **Make: FARO**
- **Model: EDGE**
- **Accuracy : 29.0 micron**
- **Software: Delcam**
- **Size: 2.9 meter**

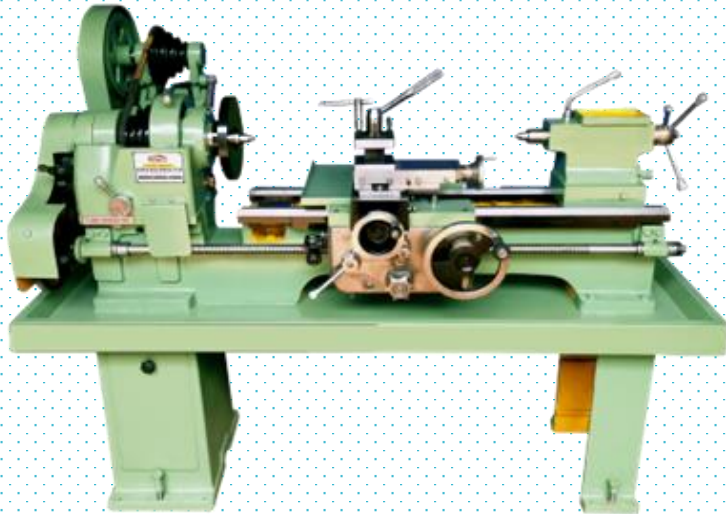


Points Covered Under Training Program

- How to read & understand drawing and specification
- Introduction of advanced measuring equipment's
- Introduction to CMM & its types
- Machine layout / Temperature conditions / Air supply details / Power supply
- Software introduction / Software Interface
- How to start the machine / points to be taken care of
- Types of probes / probe heads / styli
- Types of probing advantages / disadvantages
- Machine modes [online / offline] / machine homing
- Probe selection and construction
- Concepts of pre hit / retract and search distance
- Hands on practice sessions
- Construction of features / auto feature
- Types of alignments
- Basic programming on 2d
- Basic programming on 3d
- Report generation



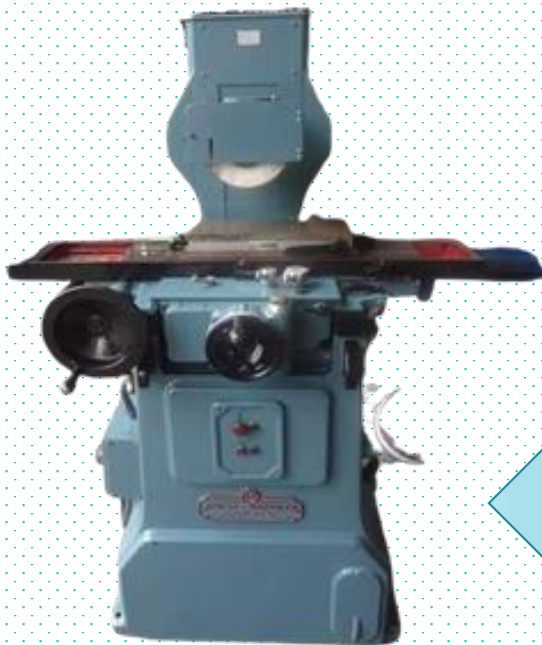
TOOL ROOM SETUP



Lathe Machine



Milling Machine



Surface Grinding Machine

Cylindrical Grinding Machine



GAUGES AND FIXTURES MANUFACTURING

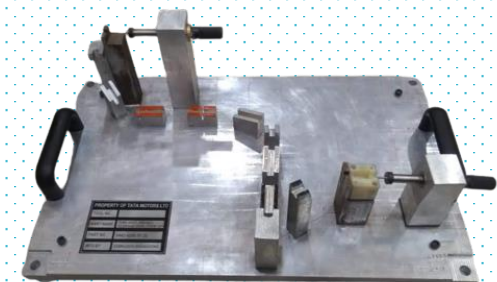
➤ Standard Gauges

- Plain plug gauge
- Plain ring gauge
- Snap gauge
- Thread plug gauge
- Thread ring gauge
- Width gauge
- Setting masters
- Standard pins
- Air gauges



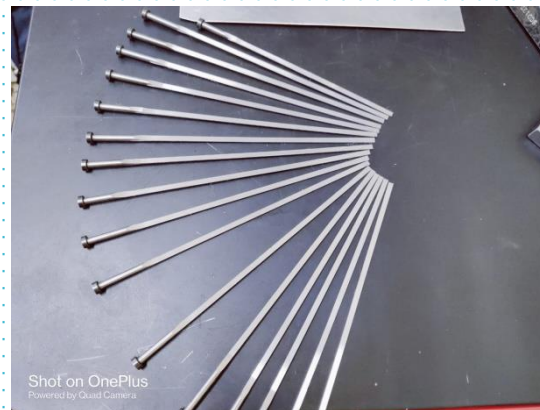
➤ Holding Fixtures

- CMM holding fixtures
- Machining Fixtures

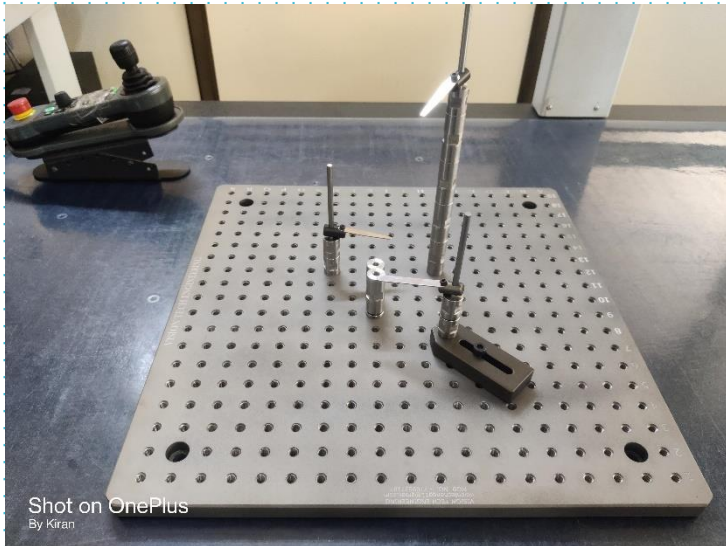


➤ Checking Fixtures

PRECISION SURFACE GRINDING WORKS

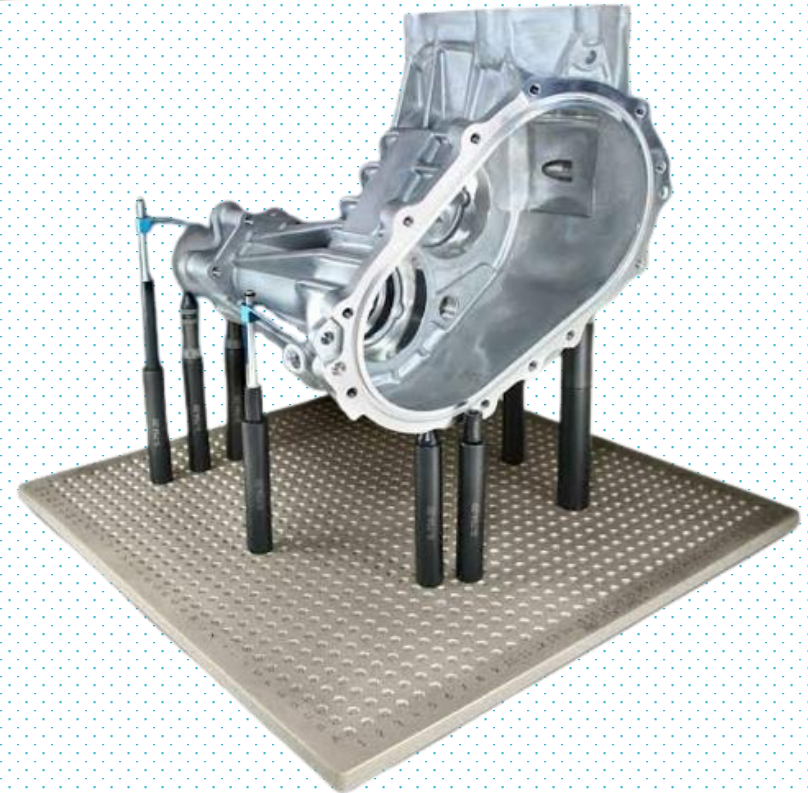


UNIVERSAL CMM HOLDING FIXTURES :



Advantages:

- Decreases your part inspection time.
- Measure the same or different parts at once
- Easy to document multiple setups
- Increased repeatability
- Multiple parts or multiple part setups
- Easy part holding provisions.



OUR VALUED CUSTOMERS



THANK YOU

SAMRUDDHI ENGINEERING

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