

SYNCHRON

MACHINE TOOLS PVT. LTD.

AN ISO 9001-2008 Certified Company

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PROFILE

Synchron Machine Tools Pvt Ltd commenced operations in 1975 as a Private Limited Concern. Since then, we have managed to earn distinction as an ISO 9001-2000 certified based in Bangalore, India..

We are the Manufacturer and Exporters of wide range of Industrial Equipments, Industrial Fixtures and Checking Gauges to satisfy the costumer demands with right quality.

The Managing Director of the company **Mr N. V. Rao** is responsible for managing all the departments and has managed to successfully lead the of organization towards the path of success.

We are engaged in designing Industrial Fixtures, Checking Gauges for Automobile, Aerospace and Defense segments around the world

INFRASTRUCTURE

The infrastructure base comprises of **Synchron** along with its sister concern **Sharana Engg**, spread over an area of 8500.sq feet with facilities for design ,production and quality control departments having man power of 45 people working together. A well-equipped factory has advanced CAD,CAM tools like ProE,Unigraphics,CAM2 Measure10, MasterCAM for accurately Designing, Manufacturing Industrial Equipments.

PRODUCTION DEPARTMENT



QUALITY CONTROL DEPARTMENT



MACHINERIES/TOOLS

- Haas VF2 YT vertical machining centre
- WMW Jig Boring Machine :
 - **Table Size :** 630mm x 1000mm. DRO Positioning Accuracy 12 microns.
- WMW - Union Horizontal Boring Machine :
 - **Spindle Size :** 90 with 3 Axis DRO **Table Size :** 200mm x 1200mm
- Jackobsen Surface Grinding Machine :**Table Size :** 800 x 400mm
- Precision Universal Cylindrical Grinding Machine :GCU – 200 x 500S
- Praga Surface Grinding Machine 540 AP
- BFW Universal Milling Machine – UF2 :**Table Size :** 1350 x 315
- BFW Horizontal Milling Machine - HF2 :**Table Size :** 1350 x 300
- BFW Horizontal Milling with Vertical Attachment type VF2 (1350 x 315)
- “PRECICUT” Model 3V1 Milling Machine
- HMT Radial Drilling Machine RM 61
- HMT Radial Drilling Machine RM 63
- HMT Tool & Cutter Grinder GTC 28
- Turn Master 35 (Kirloskar) (800mm ABC)
- Air-cooled Welding Transformer Model PRS300, 300A Rectifier Welding Unit
- Hardness Checking Machine, Power Hacksaw
- Pedestal Grinding & Other hand tools
- KOLB – JIG BORING DOUBLE COLUMN M/C: X axis - 1600MM Y axis -1000MM Z axis-2000MM
(X axis Distance between columns 2meters)
- Horizontal boring machine spindle dia 130mm with table size 2metre x 2 metre



BFW Milling M/C



HaasVF2 YT VMC



Kolb -Jig boring Double Column M/C



HMT Radial Drilling Machine RM 61,63



Welding Unit with weld Plates



WMW Jig Boring M/C



WMW - Union Horizontal Boring M/C

SPECIAL INSPECTION INSTRUMENTS



1. FARO EDGE Arm CMM
CAM2 Measure 10
Working volume 2.7 meter
Single pt Accuracy = 0.029mm
Vol. Accuracy= +/- 41 microns



2. SPECTRA BRIDGE CMM



3. Tesa Micro-hite Model 600
Digital Height Gauge
Pt. No.07.30034 with
Standard Accessories

QUALITY

A “Reference Grade” gauge blocks Set is kept for comparing with other “Working standards” used for instrument calibration

- Precision measuring equipment are numbered serial-wise and checked once a month against working standards to assure accuracy. The checking is recorded by Q.C. Department in a register
- Resetting for correction is done in case of error and major repairs of the equipment are done by outside agencies, after which, these are released after certification

MISSION

To attain Quality Leadership in the field by not just standing for ‘Adequacy’ but ‘Exactitude’

- To strictly comply with customer’s specifications
- To market highly reliable products at high initial price for clients with voluminous and high-tech requirements
- To build the confidence of customers by using the best techniques & materials and providing timely deliveries for providing maximum customer satisfaction

PRODUCTS

❑ **Industrial Fixtures** are made available by us in different types befitting the diverse requirements of clients. Having more than two decades of experience in this field, we are able to cater to the most specific requirements of the clients for Industrial Fixtures with perfection. Tested for performance, the Industrial Fixtures made available by us are made to last years and years without any hassles.

1. Checking Fixture

Hydraulic Fixtures



Head Light Panel Checking Fixture



Fuel Tank Checking Fixture



2. Robotic Fixture



3. Pneumatic Fixture



- ❑ **Checking Gauges** : A wide range of Checking Gauges that is appreciated for offering a greater degree of accuracy in production of components and parts. Designed to hold a variety of work pieces, the Checking Gauge is manufactured using high-end technology to offer distinctive advantages.

1. Position Checking Gauge



2. Profile Checking Gauge



RECENT PROJECTS:

- ❑ Caterpillar Fuel Tank Welding Fixture of size 6m x 3.5m.

Drg No: 1144939



❑ Caterpillar Welding Fixture of size 4m x 3.5m

Drg No: 1144984



□ T.V.S Rear Frame Fixture

A Correction Fixture of bed size 650mmx1350mm.

Drg No : 210 2307



□ T.V.S Total Acceptance Frame Gauge of bed size 650x800mm.
Drg no : 630 1600



CLIENTES

List of our esteemed customers

- M/s. Automotive Axles Ltd, Mysore
- M/s. Bharat Heavy Electricals Ltd, Varanasi, Hyderabad, Tiruchirapalli
- M/s. Caterpillar India Pvt. Ltd, Hosur
- M/s. Delphi Automotive Systems Ltd, Bangalore
- M/s. Hindustan Aeronautics Ltd, Bangalore
- M/s. Emerson Climate Technologies India Ltd, Atit & Karad,
- M/s. Kirloskar Oil Engines Ltd, Pune
- M/s. L & T Komatsu Ltd, Bangalore
- M/s. Stump Schuele & Somappa Pvt. Ltd, Bangalore
- M/s. TVS Motor Company Ltd, Hosur/ Mysore
- M/s. Toyota Boshoku Automotive India Pvt. Ltd, Bangalore
- M/s. Mann Turbines.
- M/s. Triveni Engineering Pvt. Ltd.
- M/s. ABB India Ltd.
- M/s. Metso India Ltd.
- M/s. Siemens India Ltd.