

B-168, 4th Main, 2nd Stage, Peenya Industrial Area, Bangalore 560058

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COMPANY INFRASTRUCTURE





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STORE

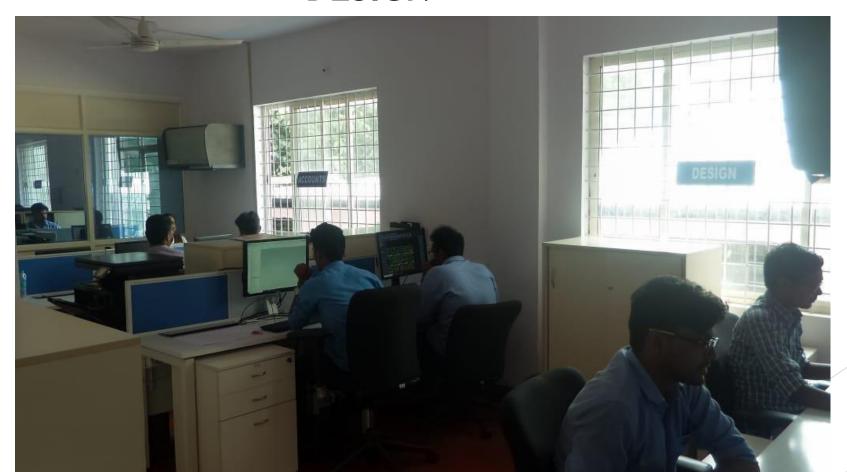




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DESIGN

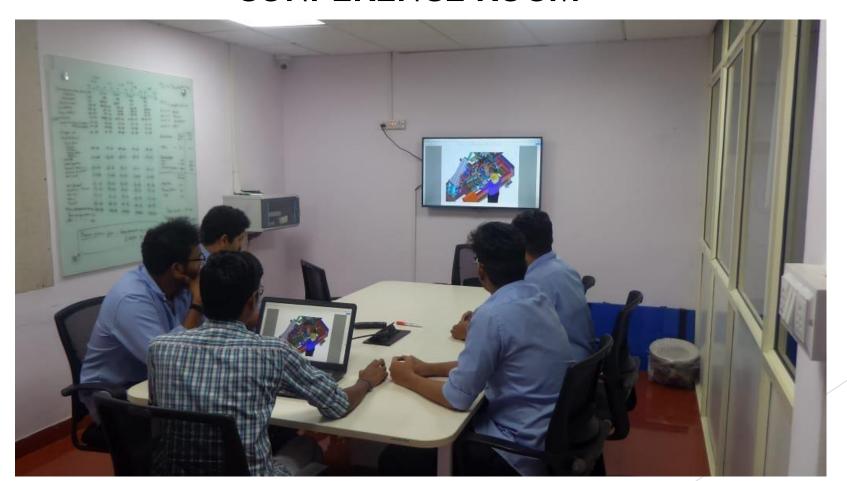




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CONFERENCE ROOM

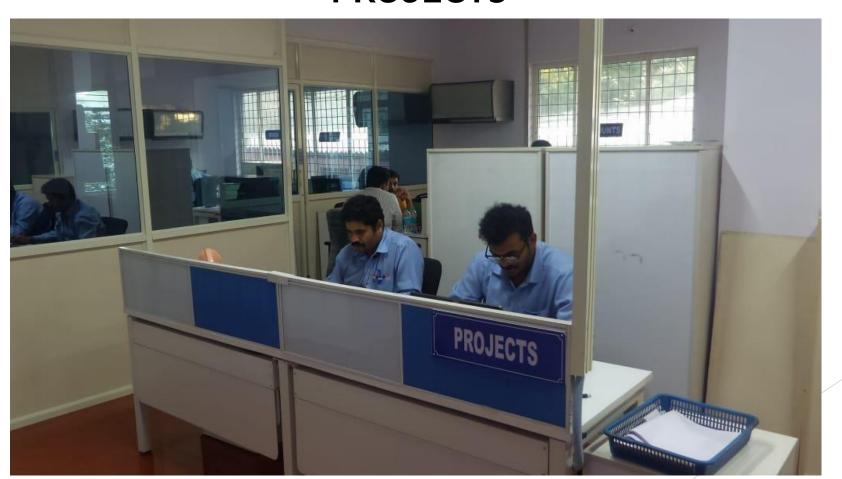




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PROJECTS





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MACHINE SHOP





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QUALITY CONTROL DEPARTMENT

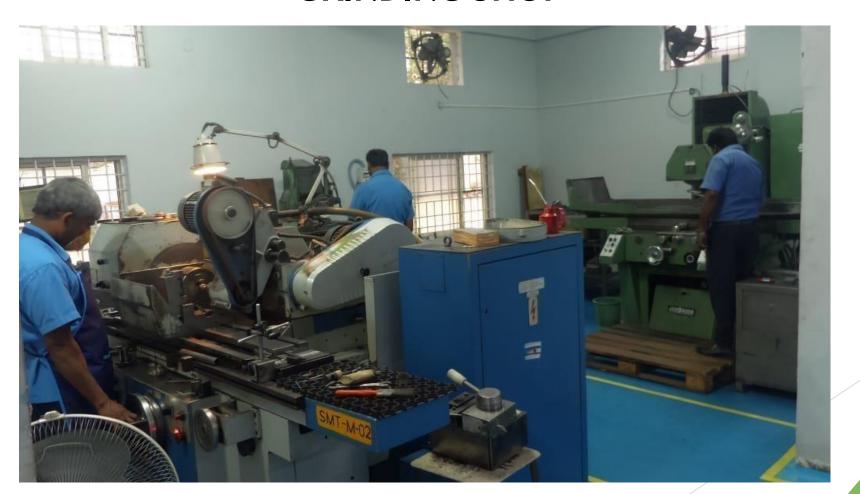




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GRINDING SHOP





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JIG BORING SHOP





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 $\textbf{E-mail: info@synchronmachinetools.in} \hspace{0.2in} | \hspace{0.2in} \textbf{Web: www.synchronmachinetools.in} \\$

JIG GRINDING MACHINE





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VERTICAL MACHINIG CENTRE





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ASSEMBLY AREA BAY1





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ASSEMBLY AREA BAY2





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ABB FORD SANAND ROBOTIC WELDINGFIXTURE





SCOPE OF WORK: DESIGN, MANUFACTURE OF WELDING FIXTURE

FOR A-PILLAR & B-PILLAR FOR FORD ECO SPORT

SCOPE OF WORK OF CUSTOMER: ELECTRICAL WORKAND PLC



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ABB FORD SANAND ROBOTIC WELDINGFIXTURE



SCOPE OF WORK: DESIGN, MANUFACTURE OF WELDING FIXTURE FOR CHASSIS

FOR FORD ECO SPORT

SCOPE OF WORK OF CUSTOMER: ELECTRICAL WORK AND PLC PROGRAMMING



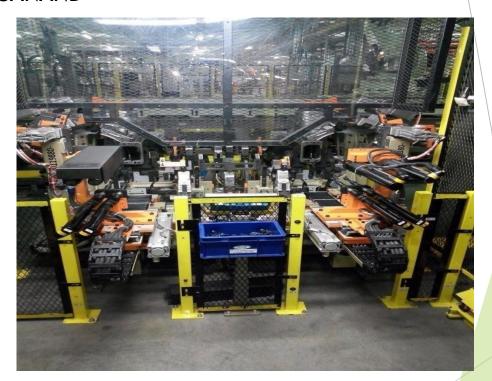
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ABB FORDSANAND



SCOPE OF WORK: DESIGN,
MANUFACTURE OF WELDING FIXTURE
FOR ROOF TOP FOR FORD ECO SPORT
SCOPE OF WORK OF CUSTOMER:
ELECTRICAL WORK AND PLC



SCOPE OF WORK: DESIGN, MANUFACTURE OF WELDING

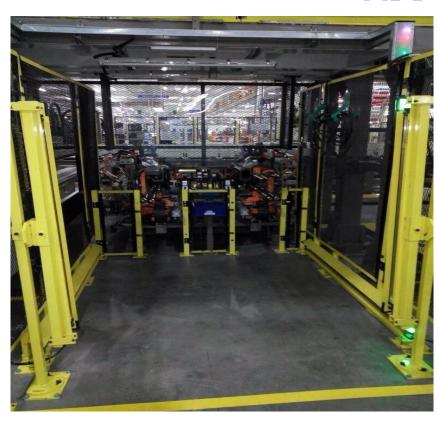
FIXTURE FOR DECK LID FOR FORD ECO SPORT SCOPE OF WORK OF CUSTOMER: ELECTRICAL WORK AND PLC PROGRAMMING



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ABB FORDSANAND





SCOPE OF WORK: DESIGN, MANUFACTURE OF WELDING FIXTURE FOR CHASSIS

FOR FORD ECO SPORT

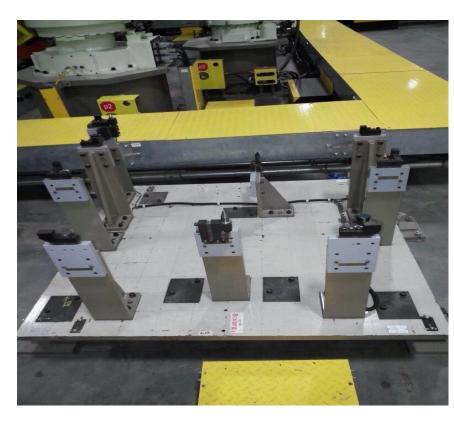
SCOPE OF WORK OF CUSTOMER: ELECTRICAL WORK AND PLC PROGRAMMING

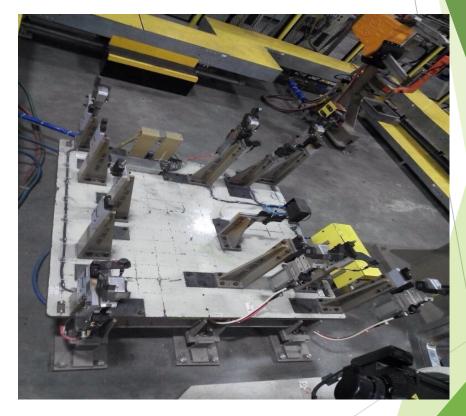


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ABB FORD SANAND





SCOPE OF WORK: DESIGN, MANUFACTURE OF WELDING FIXTURE FOR REAR DOOR AND FRONT DOOR FOR FORD ECO SPORT

SCOPE OF WORK OF CUSTOMER: ELECTRICAL WORKAND PLC PROGRAMMING



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AXL MACHINING FIXTURE





SCOPE OF WORK: DESIGN, MANUFACTURE AND PROVE OUT OF AXLE HUB MACHINING FIXTURE



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CATERPILLAR FIXTURE



SCOPE OF WORK: MANUFACTURE AND PROVE OUT FOR ROBOTIC WELDING EXPORT FIXTURE TO TEXAS, USA. SIZE:

6M LENGTH X4M WIDTH

WELDING FIXTURE USED FOR GEAR BOX WELDING USED FOR SHALE GAS

EXTRACTION MACHINE



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TVS MYSORE





SCOPE OF WORK: DESIGN MANUFACTURE AND PROVE OUT OF WELDING FIXTURE FOR WELDING OF APACHE 160 RTR FRAME



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TVS HOSUR WELDING FIXTURE





SCOPE OF WORK: DESIGN MANUFACTURE AND PROVE OUT OF WELDING

FIXTURE FOR WELDING OF 2 WHEELER FRAME



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CHECKING FIXTURE FOR TOYOTA





SCOPE OF SUPPLY: DESIGN, MANUFACTURE AND PROVE OUT OF CHECKING FIXTURE FOR STYLE PARTFOR

TOYOTAETIOS

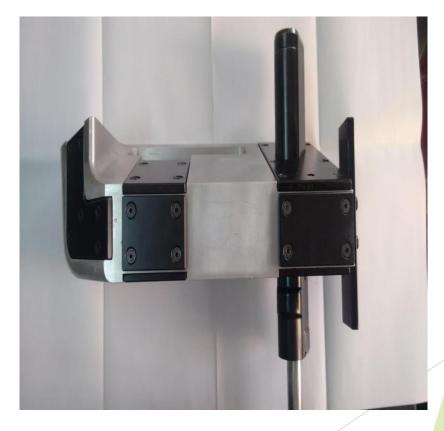


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CATERPILLAR GAUGES





SCOPE OF SUPPLY: MANUFACTURE & SUPPLY OF GAUGES TO PEORIA,USA



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CATERPILLAR GAUGES





SCOPE OF SUPPLY: MANUFACTURE & SUPPLY OF GAUGES TO PEORIA,USA



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CATERPILLAR GAUGES







SCOPE OF SUPPLY: MANUFACTURE & SUPPLY OF GAUGES TO PEORIA,USA



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ABB GRIPPERS





SCOPE OF SUPPLY: DESIGN & MANUFACTURE OF ABB ROBOTIC GRIPPER FOR MATERIAL HANDLING



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VENTURE FIXTURE





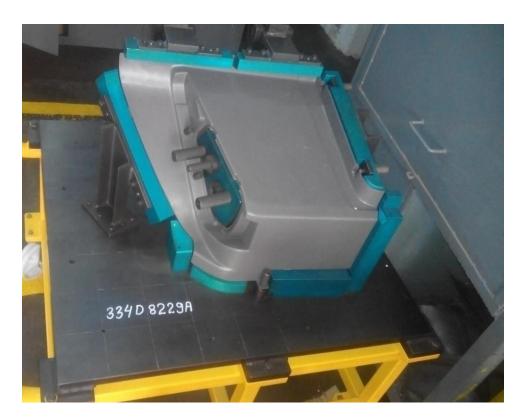
SCOPE OF WORK: DESIGN & MANUFACTURE OF CHECKING FIXTURE FOR DASH BOARD FRONT PANELLH FOR JCB



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VENTURE FIXTURE





SCOPE OF WORK: DESIGN & MANUFACTURE OF CHECKING FIXTURE FOR DASH BOARD FRONT PANELRH FOR JCB



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TATA MOTORS



SCOPE OF WORK: DESIGN & MANUFACTURE OF REAR AXLE ASSY CONVEYOR FIXTURE



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TATA MOTORS





SCOPE OF SUPPLY: DESIGN & MANUFACTURE OF TML ASSY PALLETS



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TVS APACHE ROBOTIC WELDING FIXTURE WITH CELL



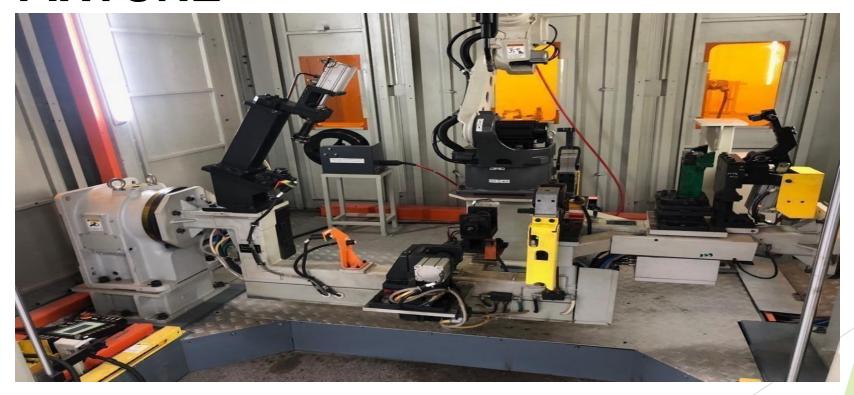
SCOPE OF SUPPLY: DESIGN & MANUFACTURE OF TVS APACHE 160 ROBOTIC WELDING FIXTURE WITH CELL



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TVS APACHE ROBOTIC WELDING FIXTURE



SCOPE OF SUPPLY: DESIGN & MANUFACTURING OF TVS APACHE 160 ROBOTIC WELDING FIXTURE WITH CELL



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TVS APACHE MANUAL WELDING FIXTURE WITH CELL



SCOPE OF SUPPLY: DESIGN & MANUFACTURING OF TVS APACHE 160 MANUAL ELECTRO PNEUMATIC WELDING FIXTURE WITH CELL



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TVS APACHE MANUAL WELDING FIXTURE





SCOPE OF SUPPLY: DESIGN & MANUFACTURING OF TVS APACHE 160 MANUAL ELECTRO PNEUMATIC WELDING FIXTURE WITH CELL



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TOYOTA BOSHOKU



SCOPE OF SUPPLY: DESIGN & MANUFACTURE OF WELDING FIXTURE FOR HEIGHT ADJUSTMENT OF TOYOTA INNOVASEAT.



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TVS MOTOR Co. PANEL CHECKER





SCOPE OF SUPPLY: DESIGN & MANUFACTURE

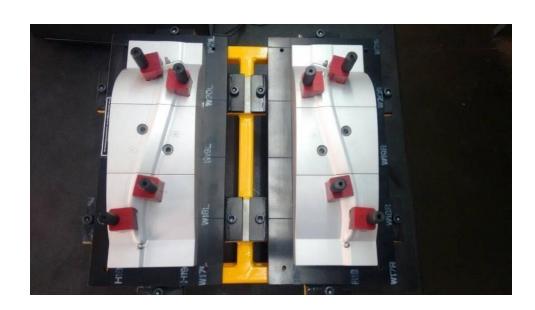
PANELCHECKER

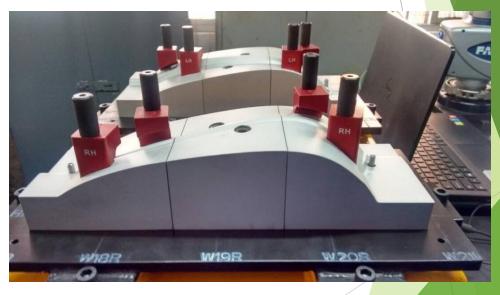


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TOYOTA CHECKING FIXTURE





SCOPE OF SUPPLY: DESIGN & MANUFACTURE CHECKING FIXTURE.



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SERVO BEARING PRESSES FOR CCLH & CCRH





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SPLIT BUSH PRESSING STATION





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PLUG PRESSING MACHINE





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PRESSING MACHINES





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VALVE SEAT AND VALVE GUIDE PRESSING MACHINE





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CAM BUSH PRESSING MACHINE





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BLOCK CAM BUSH PRESSING MACHINE







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PNEUMATIC BUSH PRESS MACHINE





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COVER BUSH PRESS MACHINE





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ACCURATE BEARING PRESSING MACHINE





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BALL PRESSING MACHINE

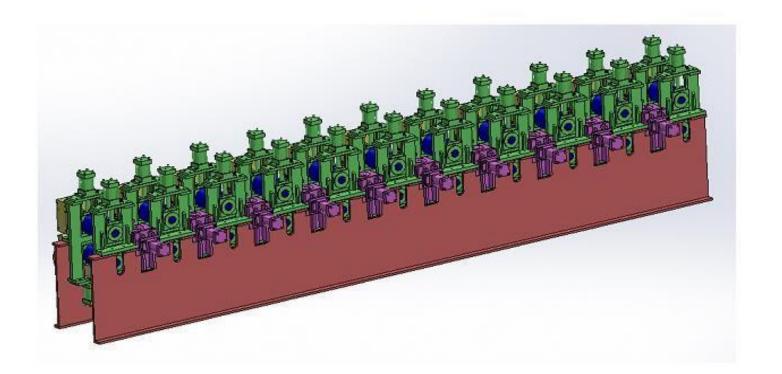




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ROLL FORMING MACHINE

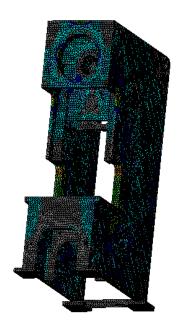




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FEM ANALYSIS OF CROSS SHAFT C-FRAME PRESS BODY



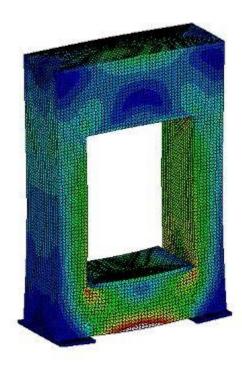


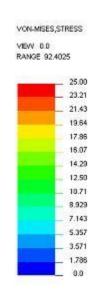


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FEM ANALYSIS OF 300Ton HYDRAULIC PRESS FRAME MAIN STRUCTURE



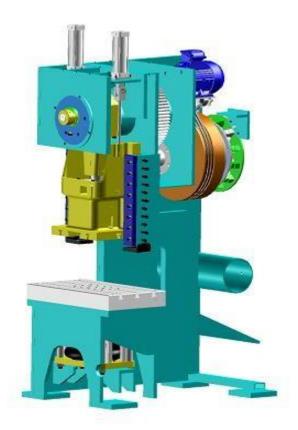




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C- FRAME CROSS SHAFT PRESS DESIGN - 100T

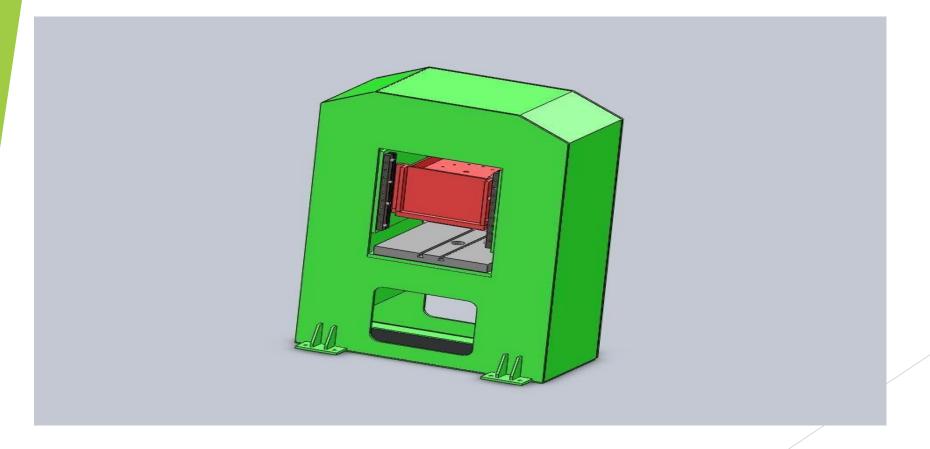




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100T HYDRAULIC PRESS DESIGN

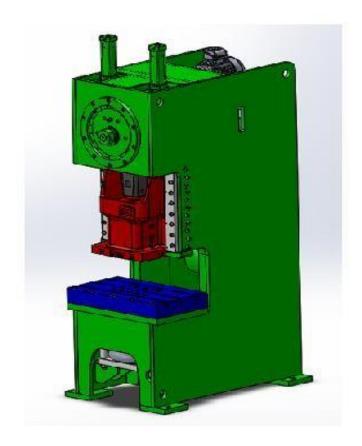




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C-FRAME CROSS SHAFT PRESS DESIGN - 160T

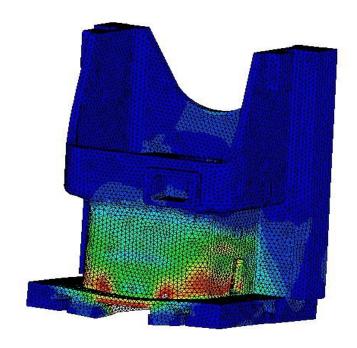


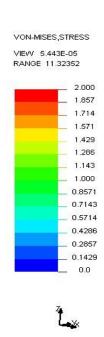


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FEM ANALYSIS OF C-FRAME MACHANICAL PRESS SLIDE



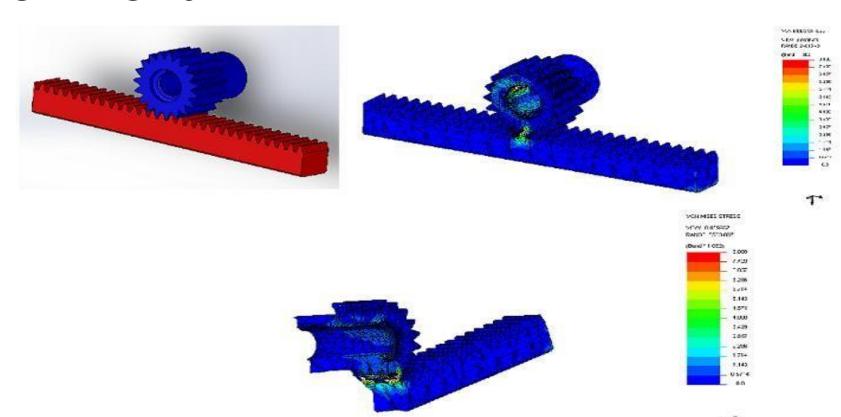




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FEM ANALYSIS OF RACK AND PINION FOR PULLING 20T

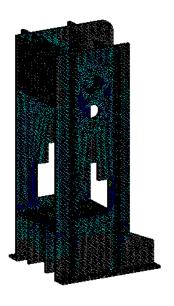


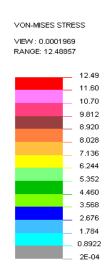


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300T MECHANICAL PRESS STRUCTURE FEA





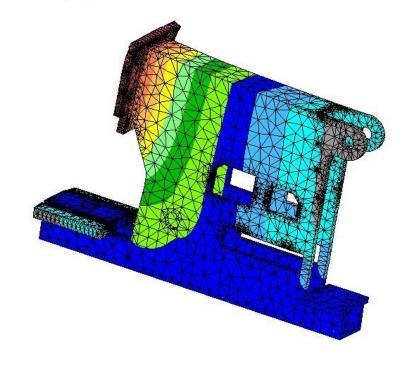


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IRON WORKER-50T CAPACITY FEA ANALYSIS OF STRUCTURE

DISPLAY IV - GEOMETRY MODELING SYSTEM [16.0.0] PRE/POST MODULE





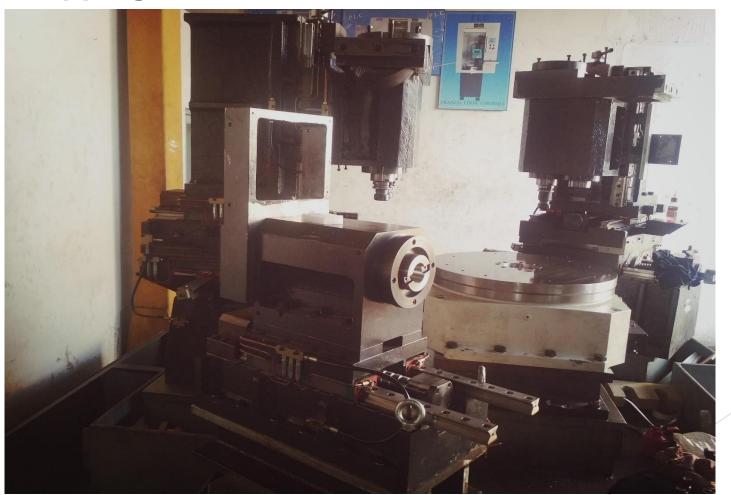




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Drilling & Tapping SPM





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Ball Screw Rod And Guide Rail System





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Rotary Indexing Table 4-Station





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Indexing table and Rotary Joint





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Drilling & Tapping 6 – Station SPM





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List of Customers











































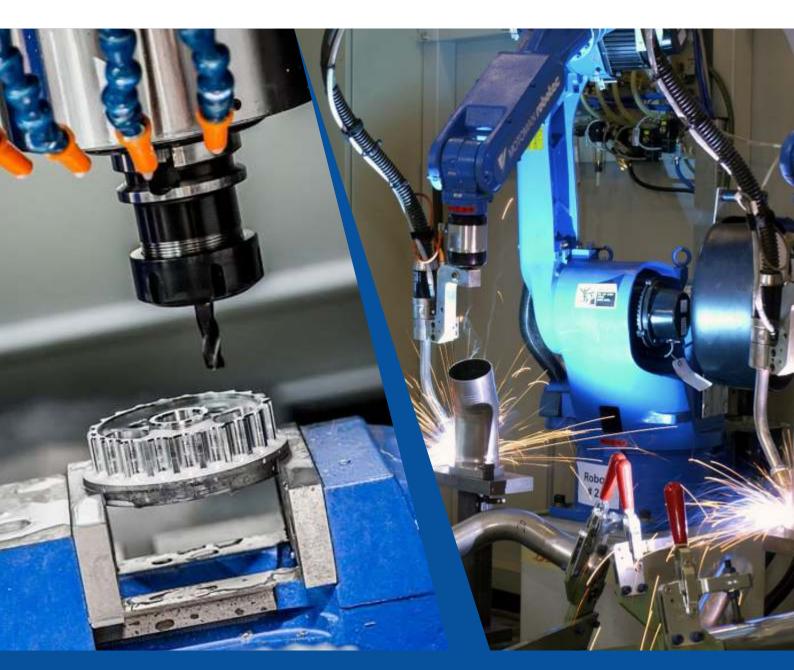








THE MACHINE TOOL ENGINEERING COMPANY



* ASSEMBLY FIXTURES * CHECKING FIXTURES * MACHINING FIXTURES
*WELDING FIXTURES * GAUGES * COMPONENTS * FABRICATIONS * CONVEYOR SYSTEM

Synchron Machine Tools Pvt Ltd

commenced operations in 1975 as a Private Limited Company. Since then, the company has managed to earn a distinction as an ISO 9001-2015 Industrial Tooling Manufacturer and Exporter.



About Us

Synchron Machine Tools Pvt. Ltd. commenced its operations in 1975 as a Private Limited Concern. Since then, we have managed to earn a distinction as an ISO 9001-2015 certified company based in Bangalore, India.

We are the Manufacturers and Exporters of wide range of Industrial Equipment, Industrial Fixtures and Checking Gauges to satisfy the customer demands with right quality. The Chairman Mr. N. V. Rao and Managing Director Mr. Rohan Rao are responsible for managing all the departments and have lead the organization towards the path of success.

Mr. N.V. Rao – Chairman – Synchron Machine Tools Pvt. Ltd. has over 40 Years of experience in the manufacturing of precision toolings.

Mr. Rohan Rao – Managing Director – Synchron Machine Tools Pvt. Ltd. has over 15 Years of experience in the manufacturing of precision tooling.

With the design, manufacturing background and the support of 45 employees, we would like to associate ourselves in developing concepts, designing, detailing of equipments and manufacturing of the same.

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 Low initial price for clients with voluminous and hightech requirements,
- To build the confidence of customers by using the best techniques & materials and providing timely deliveries so as to achieve maximum customer satisfaction.

TEAM:

We have an experienced team of professionals which is headed by the Managing Director Mr. Rohan Rao. The team comprises expert Supervisors, Welders, Machinists, Tool & Die Makers, Fitters, Quality Control Personnel, Engineers and Managers working with total commitment towards attaining the company's mission.



ASSEMBLY FIXTURES

Synchron Machine Tools have designed and produced a number of jigs and fixtures for several applications across a number of industrial sectors including the automotive, automotive plastics, welding and aerospace industries.

The abilities of our in-house jig and tool design facilities enable simple jigs and more complex fixtures to be designed to suit the customers requirements. Laser cut tooling is commonly used as this allows complex shapes to be cut to match customer design information.

Jigs and Fixtures along with specific tooling form a critical element of machinery designed and supplied by us and it is this experience which is used to supply standalone jigs and fixtures to our customers when required. The examples of checking jigs and assembly fixtures shown here vary from a large fixture for measuring and checking a casting for the aerospace industry to a small cost effective checking jig to hold an automotive plastic bumper during the manual polishing process.









Lifiting & Sliding Mechanism For Assembly Of Caterpillar Gear Box





CHECKING FIXTURES

All checking fixtures are designed for accuracy, repeatability and reliability with a strong focus on operator ergonomics. Synchron Machine Tools offers assembly and checking fixtures for vehicle frames and body sub-assemblies, single component fixtures.









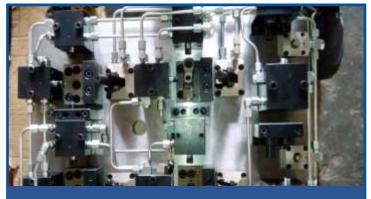






MACHINING FIXTURE

Synchron Machine Tools has a built-in reputation for supplying precision machined components and parts both economically and efficiently. With our installed capacity, we are able to offer prototype, small batch work to large production runs of precision machined components and parts. We are experienced in machining a variety of materials which includes Stainless Steel, Monel, Inconel, Titanium, Mild Steel, Aluminium Alloys, Brass, Copper, Bronze, Nylon, Peek, Delrin & others. We are specialized in fabrication and heavy machining of various steels and we offer innovative solutions for a variety of small to large size fabrication and machining applications.



Machining fixture for Housing, WIDMA



Machining fixture for Streparava



Machining fixture for AVTEC



Machining fixture for Automobile Axles



Machining fixture for TML



Machining fixture for WIDMA



WELDING FIXTURES

We extend our expertise in design and manufacture of sheet metal welding fixtures catering to the requirements of our customers with the help of sophisticated CAD and Simulation tools .During design a feasibility study is carried out to validate gun approach, line layout and weld study.



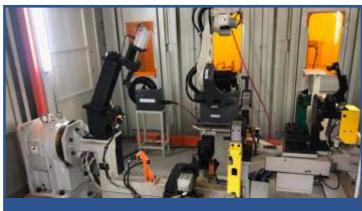






Welding fixture of Side door for Ford Sanand

Electro pneumatic welding fixture for Upper tube ,TVS





Robotic welding fixture for 2 Wheeler Frame

Electro pneumatic welding fixture for Side Tube ,TVS

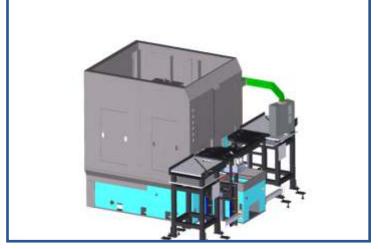


CONVEYOR SYSTEM

Synchron has also forayed into the manufacture of conveyor systems having a wealth of experience in catering to OEM's needs of various tooling's. We understand industrial material handling from design, conception, installation and offer a wide variety of Pre-Designed or Pre-Engineered products that can be easily implemented into your existing system. You get exactly what you need to keep your products moving. With us you get SERVICE, DURABLITY, DEPENDABILITY, LOW MAINTAINENCE & PROFESSIONALISM.















GAUGES

Synchron Machine Tools provides a wide variety of dimensional gauging from Surface Checks to Flush and Gap to Hole Location & Synchron Machine Tools has the right tool for your application. Our experienced engineering department design and manufacture special gauges to suit unique applications. We are a low cost professional designer and manufacturer of Special Gauges like Receiver Gauges, Relation Gauges, Hole Position Checking Gauges, Angle Checking Gauges, Flush Pin Gauges & Indicative Special Gauges like Run-out Checking Gauges, Chamfer Depth Checking Gauges, Depth Gauges, Concentricity Checking Gauges, Connecting Rod Checking Gauges, Camshaft Checking Gauges, Multi Gauging, Plug Gauge, Snap Gauge, Ring Gauge, Width Gauge, Groove Width Checking Gauge.



Total acceptance Guage for motorcycle frame , TVS Motor Company



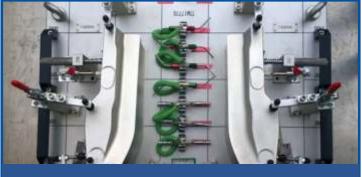
Guage for part checking ,Toyoda Gosei



Guage for part checking ,Deleks,Italy



Guage for CAT,Peoria



Guage for part checking ,Deleks,Italy



Guage for part checking ,TATA Motor



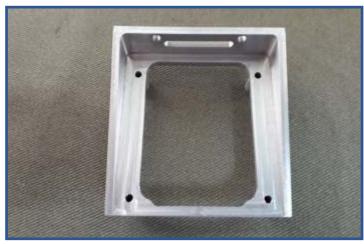
COMPONENTS

We at SMT continuously strive to manufacture parts for a wide variety of markets and applications such as robotics, automotive, medical device, defense and renewable energy. Synchron provides value enginnering, precision machining assembly of sub-assemblies and reverse engineering individually or in combinations to quickly deliver precision parts at competitive price. From Prototypes and low quantity to High volume production jobs, Synchron has the capacity to perform multiple turning and milling operations in a single seamless process.















FABRICATIONS

Synchron is well known in the industry as a structural steel fabricator that consistently meets its internal requirements in fixture manufacturing as well as other clients requirements. We have a dedicated team of Designers and Fabricators to design and manufacture parts and Sub-Assemblies up to 10 Tones in weight. We have designed and constructed aircraft ground support maintenance platform to exhaust casings used in steam turbines which requires high safety standards and protocols to be followed. Our current contracts include design, construction, installation of fabricated assemblies and standalone parts at customer end.













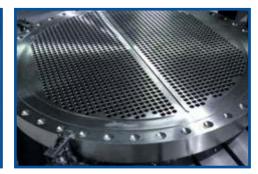














TOOLS / MACHINERY ACCESSORIES AVAILABLE

Haas VF2 YT vertical machining centre:

Travel: X: 762 mm, Y: 408 mm, Z: 508 mm

CNC Jig Boring SIP-HAUSER MP-54:

Travel: 850mm X 600mm

CNC Jig Grinding MOORGE-G-18 1000:

Travel: 400mm X 200mm

WOTAN Horizontal Boring Machine:

Spindle Size : 125 with 3 Axis DRO Table Size : 2000mm x 1750mm

WMW - Union Jig Boring Machine:

Table Size: 750mm x 500mm Spindle Size: 125 with 3 Axis DRO

KOLB – JIG BORING DOUBLE COLUMN M/C:

Travel: X: 2000 mm, Y: 1300 mm, Z: 1000 mm

Wotan Horizontal boring machine spindle dia 130mm with table size 2metre x 2 metre:

Travel: X: 2000 mm, Y: 1700 mm, Z: 1800 mm

Jackobsen Surface Grinding Machine:

Table Size: 800 x 400mm (Danish Make)

Precision Universal Cylindrical Grinding Machine:

GCU – 200 x 500S (PARISHUDH)

Praga Surface Grinding Machine 540 AP

BFW Universal Milling Machine - Uf2:

Table Size : 350 x 315

BFW Horizontal Milling Machine - Hf2:

Table Size: 1350 x 300

BFW Horizontal Milling with Vertical Attachment type VF2 (1350 x 315)

HMT Radial Drilling Machine RM 61

HMT Radial Drilling Machine RM 63

HMT Tool & Cutter Grinder GTC 28

Turn Master 35 (Kirloskar) (800mm ABC)

Power Hacksaw

Air-cooled Welding Transformer Model PRS300

Hardness Checking Machine

Pedestal Grinding & Other hand tools

Pug Cutting Machine

MIG Welding machine 300 Amps

MIG Welding machine 600 Amps







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