Regd Office & Works:
Plot No.511/A, IVth Phase
10th Main, IVth Cross,
Peenya Industrial Area,
Bangalore - 560 058
INDIA
TELEFAX: 080-41273006
MOBILE: +91-9845293425
Web: www.sammachinery.com
EMAIL: sales@sammachinery.com
About us...

- Year of Incorporation - **January 2002**
- Activity - Design and manufacturing of special purpose machines for metal cutting, assembly, testing and material handling for various segments of industry like automobile, processing, general and heavy engineering, with integration of PLC or CNC systems.
- Proficiency in designing and manufacturing of SPMs for Piston & Piston ring machining
- Manufacturing of special purpose mass production auto-components.
- Turnkey projects for Industrial automation.
- Fully Computer-Aided-Design office with latest version of 3D CAD packages like **Solidworks** & **Autodesk Inventor**
- Strong network of sub-contractors.
Infrastructure

- Located in Peenya Industrial Area, Bangalore, the machine tool manufacturing hub of India
- A total of 21,000 Square foot property with 5000 Square foot building for inspection and assembly operations
- Sanctioned power supply capacity of 50 H.P with diesel generator back-up of 50 KvA
- In-house inspection facility with instruments like digital Vernier calipers, Micrometers, Height gauges, bore gauges, bevel protractors, slip gauges, between centers etc.
- Design office with UPS back-up
## About the CEO

<table>
<thead>
<tr>
<th>Name</th>
<th>Satish Anvekar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of Birth</td>
<td>23.06.1962</td>
</tr>
<tr>
<td>Qualification</td>
<td>B.E - Electrical Engineering</td>
</tr>
<tr>
<td>Residential Address</td>
<td>No.1192, 44&lt;sup&gt;TH&lt;/sup&gt; Cross, Kumaraswamy Layout 1&lt;sup&gt;ST&lt;/sup&gt; Stage, Bangalore - 560078</td>
</tr>
<tr>
<td>Experience</td>
<td>32+ years of experience in the machine tool industry of which 16 years as CEO of this company</td>
</tr>
</tbody>
</table>
Facility and Future Business Plan

- Presently having a capacity to manufacture 30 Machines per annum on a turnover basis of `100 Millions / $2 Millions
- Plan to introduce a precision tool room
- On-going Training for the implementation of ISO 9000:2008 certification.
Turnover trend (in million `)

<table>
<thead>
<tr>
<th>Year</th>
<th>Turnover</th>
</tr>
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<tbody>
<tr>
<td>2013-14</td>
<td>45</td>
</tr>
<tr>
<td>2014-15</td>
<td>67</td>
</tr>
<tr>
<td>2015-16</td>
<td>72</td>
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<tr>
<td>2016-17</td>
<td>93</td>
</tr>
<tr>
<td>2017-18</td>
<td>100</td>
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</table>
## Human resources

<table>
<thead>
<tr>
<th>Department</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Department</td>
<td>4 Senior Engineers</td>
</tr>
<tr>
<td>Marketing Department</td>
<td>2 Engineers</td>
</tr>
<tr>
<td>Electrical Department</td>
<td>2 Engineers</td>
</tr>
<tr>
<td>Planning &amp; Methods</td>
<td>4 Senior Engineers</td>
</tr>
<tr>
<td>Assembly Supervisors</td>
<td>2 Engineers</td>
</tr>
<tr>
<td>Skilled Assembly Technicians</td>
<td>6 Personnel</td>
</tr>
<tr>
<td>Skilled Electricians</td>
<td>4 Personnel</td>
</tr>
<tr>
<td>Stores In-charge</td>
<td>2 Personnel</td>
</tr>
<tr>
<td>Contract Employee for Assembly</td>
<td>2 Personnel</td>
</tr>
<tr>
<td>Contract Employee for Hyd Piping</td>
<td>2 Personnel</td>
</tr>
<tr>
<td>Contract Employee for Scraping</td>
<td>2 Personnel</td>
</tr>
<tr>
<td>Contract Employee for Painting</td>
<td>2 Personnel</td>
</tr>
</tbody>
</table>
About our Associate Company

▪ Name : Excel Hitech Automation

▪ Year of Incorporation : October 2003

▪ Regd Office & Works : No. 108
  Shirdi Saibaba Layout
  Sri Anupama Vidya Mandir Cross Road
  Andhra Halli Main Road
  Vishwaneedam Post
  Bangalore - 560 091

▪ Activities : Mfrs of machined components, hydraulic cylinders, special hydraulic cylinders etc

▪ No of Employees : 9

▪ Plant & Machinery : BFW make Milling Machine - 2 No
  Lathe - 3 Nos
  Surface Grinding Machine - 1 No
  Radial Drilling Machine - 2 No
  Bench Grinder - 1 No
  Hydraulic Test Rig - 1 No
  Inspection Instruments - 1 Set
### Key Clientele List

<table>
<thead>
<tr>
<th>CLIENT NAME</th>
<th>LOCATION</th>
<th>DIVISION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal-Mogul Goetze (India) Ltd</td>
<td>Bangalore, Patiala</td>
<td>Manufacturers of Piston, Piston Rings, Piston Pin</td>
</tr>
<tr>
<td>Federal-Mogul Goetze (India) Ltd</td>
<td>Bhiwadi, Rajasthan</td>
<td>Manufacturers of Sintered product components like valve guide etc</td>
</tr>
<tr>
<td>Federal-Mogul Bearings (India) Ltd</td>
<td>Parwanoo, Himachal Pradesh</td>
<td>Manufacturers of Bimetal bearings, bushes and thrust washers</td>
</tr>
<tr>
<td>Sunbeam Auto Private Limited</td>
<td>Gurgaon</td>
<td>Manufacturers and Exporters of Pistons</td>
</tr>
<tr>
<td>Samkrg Pistons &amp; Rings Limited</td>
<td>Hyderabad &amp; Srikakulam</td>
<td>Manufacturers of Piston and Piston Rings</td>
</tr>
<tr>
<td>Perfect Circle India Limited</td>
<td>Nasik, Maharashtra</td>
<td>Manufacturers of Piston rings</td>
</tr>
<tr>
<td>Sakthi Auto Component Ltd</td>
<td>Coimbatore</td>
<td>Manufacturers of Steering Knuckles, Brake Drums, Discs, Carriers, Differential cases, etc...</td>
</tr>
</tbody>
</table>
# Key Clientele List

<table>
<thead>
<tr>
<th>CLIENT NAME</th>
<th>LOCATION</th>
<th>DIVISION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sundram Fasteners Limited</td>
<td>Hosur &amp; Chennai, TN</td>
<td>Manufacturers of Automotive components</td>
</tr>
<tr>
<td>Sundram Bleistahl Limited</td>
<td>Hosur, TN</td>
<td>100% EOU</td>
</tr>
<tr>
<td>IP Rings Limited</td>
<td>Chennai</td>
<td>Manufacturers of Piston rings</td>
</tr>
<tr>
<td>India Pistons Limited</td>
<td>Chennai</td>
<td>Manufacturers of Piston &amp; Piston rings</td>
</tr>
<tr>
<td>Mahle Engine Components India Ltd</td>
<td>Chennai &amp; Pune</td>
<td>Manufacturers of Piston &amp; Piston rings</td>
</tr>
<tr>
<td>Bimetal Bearings Limited</td>
<td>Coimbatore, TN</td>
<td>Manufacturers of Bimetal bearings, bushes and thrust washers</td>
</tr>
<tr>
<td>Siemens Technology &amp; Services Ltd</td>
<td>Bangalore</td>
<td>Research &amp; Development</td>
</tr>
<tr>
<td>Abilities India Pistons Limited</td>
<td>New Delhi</td>
<td>Manufacturers of Piston &amp; Piston rings</td>
</tr>
</tbody>
</table>
### Key Clientele List

<table>
<thead>
<tr>
<th>CLIENT NAME</th>
<th>LOCATION</th>
<th>DIVISION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volvo Buses India Limited</td>
<td>Bangalore</td>
<td>Manufacturers of buses</td>
</tr>
<tr>
<td>Mando India Limited</td>
<td>Chennai</td>
<td>Manufacturers of hydraulic brakes &amp; shock absorbers</td>
</tr>
<tr>
<td>Kusalava International Limited</td>
<td>Vijayawada, AP</td>
<td>Manufacturers of Pistons &amp; Cylinder liners</td>
</tr>
<tr>
<td>Exedy Clutch India Limited</td>
<td>Kolar, Karnataka</td>
<td>Manufacturers of automotive clutch assemblies</td>
</tr>
<tr>
<td>Surin Automotive Pvt Limited</td>
<td>Bangalore, Bhopal</td>
<td>Automotive components and systems</td>
</tr>
<tr>
<td>Setco Automotive Limited</td>
<td>Gujarat</td>
<td>Manufacturers of automotive clutch assemblies</td>
</tr>
<tr>
<td>Southern Polymers</td>
<td>Chennai, TN</td>
<td>Manufacturers of Automotive brake fluid reservoirs</td>
</tr>
</tbody>
</table>
## Clientele List - Miscellaneous

<table>
<thead>
<tr>
<th>CLIENT NAME</th>
<th>LOCATION</th>
<th>DIVISION</th>
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</thead>
<tbody>
<tr>
<td>Brakes India Limited</td>
<td>Mysore</td>
<td>Manufacturers of Automotive brake fluid reservoirs</td>
</tr>
<tr>
<td>Gabriel India Limited</td>
<td>Hosur &amp; Nasik</td>
<td>Manufacturers of Automotive parts</td>
</tr>
<tr>
<td>Jindal Aluminium Limited</td>
<td>Bangalore</td>
<td>Manufacturers of Aluminium profiles</td>
</tr>
<tr>
<td>Kolbenring India</td>
<td>Ahmedabad</td>
<td>Manufacturers of Piston rings</td>
</tr>
<tr>
<td>TG Kirloskar Automotive Pvt Ltd</td>
<td>Bangalore</td>
<td>Safety system products, Interior and exterior parts</td>
</tr>
<tr>
<td>Impulse Electrocon Pvt Ltd</td>
<td>Aurangabad</td>
<td>A unit of Videocon Limited</td>
</tr>
<tr>
<td>NTTF Limited</td>
<td>Bangalore &amp; TN</td>
<td>Manufacturers of brake fluid reservoirs</td>
</tr>
<tr>
<td>Portescap India Pvt Ltd</td>
<td>SEZ, Andheri - Mumbai</td>
<td>Manufacturers of DC motor, Brushless motor etc</td>
</tr>
</tbody>
</table>
### Clientele List - Miscellaneous

<table>
<thead>
<tr>
<th>CLIENT NAME</th>
<th>LOCATION</th>
<th>DIVISION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicomp India Limited</td>
<td>Bangalore</td>
<td>Manufacturers of home appliances</td>
</tr>
<tr>
<td>LUK India Limited</td>
<td>Hosur, TN</td>
<td>Manufacturers of automotive clutch assemblies</td>
</tr>
<tr>
<td>TVS Autolec Limited</td>
<td>Chennai</td>
<td>Manufacturers of automotive components</td>
</tr>
<tr>
<td>Sumukha Engineering</td>
<td>Bangalore</td>
<td>Manufacturers of automotive components for HMSI</td>
</tr>
<tr>
<td>Renault Nissan Automotive India Pvt Ltd</td>
<td>Chennai</td>
<td>Manufacturers of Cars</td>
</tr>
<tr>
<td>Godrej Consumer Products Ltd</td>
<td>Puduchery, Guwahati</td>
<td>Consumer Products</td>
</tr>
<tr>
<td>Global Autotech Limited</td>
<td>Greater Noida, UP.</td>
<td>Manufacturers of Automotive components</td>
</tr>
</tbody>
</table>
Piston Manufacturing Line

- Twin Cavity Gravity Die Casting Machine
- Riser and Runner Sawing Machine
- 4 Index Fine Boring Machine (Rough boring, Circlip Grooving & Fine boring / Profile boring of Gudgeon Pin hole)
- CNC Twin spindle profile fine boring machine
- 6 Index Fine Boring Machine (Rough Boring, Circlip Grooving, Fine Boring, Bore Gauging & Reaming / Broaching of Gudgeon Pin hole)
- CNC Multi Oil Hole Drilling Machine
- Lock Pin Hole Drilling and Pin Pressing Machine for Pistons
- Fully automatic Circlip and Pin assembly machine
- CNC Lube slot milling machine
- Broaching Machine for Gudgeon Pin hole
- Fully automatic Gudgeon Pin OD Chamfering Machine
Piston ring manufacturing Line

- Two station CNC splitting (Part-off) Machine
- Twin spindle ID Boring Machine
- ID boring machine for small Piston Rings (Dia 38.0 - Dia 50.0)
- Gap milling machine
- Gap grinding machine
- Auto featuring machine (OD Turning, OD Taper turning, ID Boring, ID Chamfering, OD (TNS) Chamfering)
- Edge grinding machine
- CNC auto inside grooving machine
- CNC slotting machine
- Auto OD lapping (Honing) machine
- 5 Station piston ring assembly machine
- Piston ring assembly inspection system (Camera based vision inspection)
Bimetal bearings, Bushes & Thrust washers manufacturing line

- Twin Station auto grooving machine for Bearing cap
- Height broaching machine for Bearing cap
- Auto facing and chamfering machine for Bearing cap
- Double oil grooving machine for Bearing cap
- Wall thickness gauging and sorting machine for Bearing cap
- Auto bearing stacker
- Fine boring machine for bushes
- OD gauging and sorting machine for bushes
- Grooving and Chamfering Machine for Thrust Washers
- Lip punching machine for Bearing cap
- Lip Mill, countersinking, corner chamfering and Deburring machine
Machines - Miscellaneous

- Two station drilling and reaming machine for Clutch shoe - Exedy Clutch
- Twin head drilling machine for Clutch center - Exedy Clutch
- Double end boring machine for front axle - Surin Automotive
- Rocker arm drilling, milling & tapping Machine - TVS Autolec
- Aluminium profile cutting machine - Jindal Aluminium
- Rotor OD turning machine - Impulse Electrocon
- Hot plate welding machine for brake fluid reservoir - Southern Polymers
- Multi drilling machine for clutch hub - SFL-Hosur
- Fully automatic valve guide facing and chamfering SPM - Sundram Bleistahl, Hosur
- 8-Station drilling & chamfering SPM for Tappet - SFL-Hosur
- Fully automatic cross hole drilling SPM for Turbine Shaft - SFL-Hosur
- Cross hole drilling & spot facing SPM for Hub - SFL-SEZ, Kancheepuram
- Drilling SPM for carrier shaft C1 - SFL-SEZ, Kancheepuram
- 8-Station, 5 axes CNC drilling SPM for FORD Sprocket - SFL-SEZ, Kancheepuram
- 6-Axis CNC Twin Head Axle Pad Milling, Drilling, Tapping SPM - Automotive Axles Ltd-Mysore.
Piston Machining Line
Gravity Die Casting Machine for Pistons

- Twin cavity 2-Shot Gravity Die Casting
- Mold pitches of 150, 180 & 210
- Auto unloading of cast piston
- Independent pressure adjustment for all cylinders
- Oil chiller for hydraulic system
- All display units to the front
- Water cooling for Core pin
- Air cooling for Center Core
- Part Counter
- LED display for fault indication

**Customer:**
- Sunbeam Auto Pvt Limited
- Federal-Mogul Goetze India Ltd
4 Index Runner and Riser cutting machine

- For twin cast pistons
- Sawing of runner and riser of cast piston
- 4 station hydraulic rotary index
- Hydraulic clamping
- Scraper conveyor for chip handling
- PLC system with HMI display

**Customer:**
- Federal-Mogul Goetze India Ltd
Rough boring & Circlip grooving machine

- Range Dia 70 - 110 mm
- Pin hole Dia 20 - 40 mm
- Rough Boring & Circlip Grooving operation
- KOMET make Facing head
- Servo feed slides
- Servo feed slide for facing
- Scraper conveyor with rotary drum
- 4 axes Siemens / Fanuc CNC system
- Cycle time 28 sec max. (loading & unloading time extra)

Customer:
- Federal-Mogul Goetze India Ltd
4-Index Fine Boring Machine for Pistons

- Range Dia 40 - 80 mm
- Pin hole Dia 13 - 24 mm
- Rough Boring, Circlip Grooving & Fine boring of Gudgeon pin hole
- SIGA make Facing & Fine boring spindle
- Auto Tool Correction System
- Hydraulic Rotary Indexing
- CNC / Hydraulic with PLC Controls
- Cycle time 25 sec/piece

Customer:
- Sunbeam Auto Pvt Limited
- Federal-Mogul Goetze India Ltd
- Samkrg Pistons & Rings Ltd
- Abilities India Pistons & Rings Ltd
6-Index Fine Boring Machine for Pistons

- Range Dia 40 - 80 mm
- Pin hole Dia 13 - 24 mm
- Rough Boring, Circlip Grooving & Fine boring, Bore gauging and Reaming / Broaching of Gudgeon pin hole
- SIGA make Facing & Fine boring spindle
- Auto Tool Correction System
- Hydraulic Rotary Indexing
- CNC / Hydraulic with PLC Controls
- Cycle time 25 sec/piece

Customer:
- Federal-Mogul Goetze India Ltd
Twin spindle fine / profile boring machine

- Range Dia 70 - 110 mm
- Pin hole Dia 20 - 40 mm
- Fine boring / profile boring control by hydraulic electro-proportional valve
- Servo feed slide
- Pneumatic bore aligner
- Pneumatic clamping
- Scraper conveyor with drum filtration
- 1 axis Siemens / Fanuc CNC system

Customer:
- Federal-Mogul Goetze India Ltd
Profile Fine Boring Machine

- Range Dia 70 - 110 mm
- Pin hole Dia 20 - 40 mm
- Fine boring / profile boring control by hydraulic servo drive control system
- Servo feed slide
- Pneumatic bore aligner
- Hydraulic clamping
- Scraper conveyor with drum filtration
- 1 axis Siemens / Fanuc CNC system

Customer:
- Federal-Mogul Goetze India Ltd
CNC oil hole drilling machine for Pistons

- Range Dia 40 - 85 mm
- Drill dia 1.0 - 2.0 mm
- High speed multi oil Hole drilling on the periphery of Pistons
- Spindle units @ 48000 RPM / 23000 RPM
- Servo indexing spindle unit
- Servo Feed Slides with LM guide ways
- FANUC / SIEMENS CNC System
- Cycle time 20 sec/piece

Customer:
- Federal-Mogul Goetze India Ltd
- Kusalava International Limited
CNC Oil hole drilling machine - Railway piston

- Piston - Railway
- Drill dia 2.4 - 8.0 mm
- High speed multi oil Hole drilling on the periphery of Pistons
- Spindle units @ 13000 RPM
- Servo indexing spindle unit
- Servo Feed Slides with LM guide ways
- 4 - Axis SIEMENS CNC System

Customer:
- Federal-Mogul Goetze India Ltd
Automatic circlip and pin assembly machine

- Circlip and gudgeon pin assembly on piston
- Auto loading and unloading
- Poka yoke for direction of circlip assembly
- Circlip presence checking before pin assembly
- Inlet and outlet conveyors
- Rejection in case circlip is not assembled
- Fully pneumatic controlled
- PLC with HMI display
- UPS back-up

Customer:
- Federal-Mogul Goetze India Ltd
Piston Inspection Machine

- Circlip and gudgeon pin assembly inspection by Vision Camera
- Piston rings orientation and inspection by Line scan camera
- Piston assembly weight.
- Laser Marking.
- Bar code reading.
- Manual loading and unloading
- Fully pneumatic controlled
- PLC with HMI display.
- Data storage by PC.

Customer:
- MAHLE Engine Components India Pvt Ltd
CNC Splitting Machine

- Range Dia 70 - 150 mm
- 2 station work head spindle
- Cutter spindle with spindle servo motor for stable torque
- Spindle feed with CNC slide
- Siemens CNC system

Customer:
- Federal-Mogul Goetze India Ltd
- India Pistons Limited
Featuring Machine for Piston Rings

- Range Dia 70 - 150 mm
- Auto featuring: OD Turning, OD Taper turning, ID Boring, ID Chamfering, OD (TNS) Chamfering)
- Auto loading and unloading
- Output ring aligner
- Brushing unit
- CNC / PLC Controls

Customer:
- India Pistons Limited
ID Boring Machine for Piston Rings

- For smaller range
- Dia 38.0 - Dia 60.0 mm
- Stack length of 90 mm
- Hydraulic feed slide
- PLC Controlled

**Customer:**
- Samkrg Pistons & Rings Ltd
- Abilities India Pistons & Rings Ltd
Gap Grinding Machine for Piston Rings

- Range Dia 70 - 150 mm
- Grinding spindle up to 8000 RPM (Variable through inverter)
- Pneu-hydraulic vertical pusher
- Input & output ring aligner
- Preset counter for tool life management
- PLC Controlled

**Customer:**
- Samkrg Pistons & Rings Ltd
- Abilities India Pistons & Rings Ltd
- Kolbenring India
Auto I.D Grooving Machine for Piston Rings

- Range Dia 70 - 150 mm
- Inside grooving
- Auto loading & unloading
- Input ring aligner
- Output Ring Aligner
- Fanuc / Siemens CNC system

Customer:
- Federal-Mogul Goetze India Ltd
CNC Slotting Machine for Piston Rings

- Range Dia 70 - 150 mm
- Spindle with variable RPM
- CNC slide for feed
- CNC servo indexing spindle
- Rings loading pneumatic fixture assembly
- Pneumatic failsafe brake for Indexing spindle
- Fanuc / Siemens CNC system

Customer:
- Samkrg Piston & Rings Ltd
OD Lapping machine

- Dia 70 mm to Dia 150 mm
- Rotary table with variable RPM
- Cranking stroke of 130 mm
- 100 mm stack length
- Auto loading and unloading

Customer:
- Federal-Mogul Goetze India Ltd
- IP Rings Limited
- India Pistons Limited
Edge grinding machine

- Dia 70 mm to Dia 150 mm
- Grinding of edges
- 2 station work head spindle
- Adjustable grinding edge angle
- Adjustable grinding stroke
- PLC system

Customer:
- Federal-Mogul Goetze India Ltd
- India Pistons Limited
3 - Station Ring Mounting Machine

- Dia 50 mm to Dia 110 mm
- Piston Ring assembly
- PLC system

Customer:
- MAHLE Engine Components India Pvt Ltd
- Abilities India Pistons and Rings Ltd
Piston Ring Assembly Inspection System

- Camera based inspection
- OMRON make camera with controller
- Inspection for proper assembly of piston rings
- Inspection for the presence of Circlip in pin hole
- OK / NOT OK Marking
- Servo Indexing

Customer:
TVS Limited, Hosur
Bimetal Bearing / Bush Machining Line
Auto Height Broach

- Brg dia range Dia 38 - 75 mm
- Brg width 16 - 63 mm
- Wall thickness 1.6 - 4.0 mm
- Parting line taper - 25μ over 25mm
- Surface finish - Rz 8
- Input and output conveyors
- Siemens PLC system
- HMI display
- Cycle time - 3 secs / piece

Customer:
Federal-Mogul Bearings India Ltd
Hydraulic Wall Broach

- Brg dia range Dia 38 - 75 mm
- Brg width 16 - 63 mm
- Wall thickness 1.6 - 4.0 mm
- Material range - AT bearing
- Wall tolerance - 6μ
- Taper - 2.5μ over 25 mm
- Surface finish - Rz 2
- Load magazine
- Output conveyor
- Siemens PLC system
- HMI display
- Cycle time - 40 pcs / min

Customer:
Federal-Mogul Bearings India Ltd
Lip mill, c' sink & corner chamfer for bimetal bearings

- Brg dia range Dia 56 - 95 mm
- Brg width 16 - 63 mm
- Wall thickness 2.0 - 4.5 mm
- Auto loading and unloading
- Input and output conveyors
- Siemens PLC system
- HMI display
- Production capacity of 30 pcs / min.

**Customer:**
Federal-Mogul Bearings India Ltd
Lip Punching Machine for Bimetal Bearings

- Brg dia range Dia 38 - 96 mm
- Brg width 16 - 63 mm
- Wall thickness 2.0 - 4.5 mm
- Load magazine
- Output conveyor
- Hydraulically operated
- **Siemens** PLC system
- HMI display
- Production capacity of 30 pcs / min

**Customer:**
Federal-Mogul Bearings India Ltd
Bush Boring Machine

- Bush dia range Dia 20 - 100 mm
- Bush width 16 - 63 mm
- Wall thickness - 4.0 mm max
- Wall tolerance - 20μ
- Taper - 2.5μ over 25 mm
- Surface finish - 0.8 Ra max.
- High speed spindle
- Hydraulic feed with rapid / feed
- **Siemens** PLC system
- HMI display
- Production capacity of 5 pcs / min for a bush length of 25 mm

**Customer:**
Federal-Mogul Bearings India Ltd
Miscellaneous...
Hot Plate Welding Machine

- For Brake fluid reservoir welding
- Pneumatic / Servo operated
- Variable welding pressure
- Variable heating time
- Variable welding time
- Temperature controller with Indication
- MMI / Touch Panel operation

Customer:
- Southern Polymers
- Brakes India Limited
CNC Drilling SPM for FORD Sprocket

- Multi hole drilling
- 8 Station with Hydraulic Rotary Indexing Table
- 5 Axes CNC System
- Auto Loading & Unloading
- Drill breakage sensors

**Customer:**
Sundram Fasteners Ltd - SEZ
7 - Axis CNC Differential Case Machining SPM

- Differential case machining - Spherical machining, End facing, Drilling and Reaming.
- 7 Axis CNC System
- Manual Loading & Unloading

Customer:
Sakthi Auto Component Ltd - Coimbatore.
Twin station drilling and reaming machine

- For Clutch shoe
- Independent operation
- Hydraulic drilling head
- Hydraulic reaming head
- Pneumatic clamping
- Auto door opening / closing
- PLC system

**Customer:**
Exedy Clutch India Limited
Double end boring machine

- For front axle
- Hydraulic feed slides
- Hydraulic clamping
- Rotating fixture for boring on other side of front axle
- Pneumatic clamping
- Auto door opening / closing
- PLC system

Customer:
Surin Automotive Pvt Ltd