

# Globe Group



Solution for  
**PRECISION ENGINEERING.....**

## Group Structure :



Private Limited companies with 3 Directors

**Established in 1990**

**Manufacture of**  
centreless peeled, Drawn  
& centreless ground steel  
bars .

**Forward Integration**

**Established in 1996**

**Manufacture of precision turned**  
**Automotive components**



GLOBE STEELS (P) LTD.,  
Chennai, India

# GLOBESTEELS PRODUCTS

1. COLD DRAWN STEEL BARS
2. CENTERLESS PEELED AND GROUND BARS
3. ANNEALED COLD DRAWN AND CENTRELESS PEELED BARS
4. HARDENED AND TEMPERED COLD DRAWN AND PEELED BARS
5. HOT ROLLED WIRE RODS AND BARS
6. HOT ROLLED AND FORGED STEEL BARS
7. SPHERODISED ANNEALED, PICKLE PHOSPHATED DRAWN  
COILS

# FACILITIES

- ☐ Cold Draw Benches
- ☐ Coil to bar Drawing System
- ☐ Bar Peeling Machines
- ☐ Centerless Grinding Machines
- ☐ Coil to Coil Drawing Bull Blocks
- ☐ Coil Straightening cum Cutting Machines
- ☐ Bar Straightening Machines
- ☐ Bar Reeling & Polishing Machines
- ☐ Shot Blasting Machines
- ☐ EOT Overhead Cranes
- ☐ Electronic Weigh Bridge
- ☐ Bar Chamfering Machine

# GLOBE STEEL PRODUCT RANGE

- *COLD DRAWN STEEL BARS*
  - Rounds – 6.00 mm to 75.00 mm
  - Hexagons – 8.00 mm to 40.00 mm
  - Squares – 10.00 mm to 38.00 mm
- *CENTERLESS PEELED AND GROUND BARS*
  - 18.00 mm to 75.00 mm dia
- *CENTERLESS GROUND BARS*
  - 6.00 mm TO 75.00 mm
- *HOT ROLLED ROUNDS*
  - *WIRE RODS : 5.50 mm TO 32.00 mm*
  - *BARs : 16.00 mm TO 160.00 mm*
  - *FORGED ROUNDS: 160.00 mm TO 400.00 mm*







# Globe Steels Testing Facilities

- Chemical Analysis:- Spectrovac
- Mechanical Properties:- Universal Testing Machine
- Hardness Testers:- Brinell & Rockwell Hardness
- Crack Detection:- Magnetic Particle Inspection
- Structure:- Microscope
- Measurement Control:- Micrometers & Lobbying Micrometers
- Straightness:- 4 meter Granite Surface Table
- Sorting:- Eddy current Sorter

# List of customers

- LucasTVS & their Vendors
- Brakes India & their vendors
- Sundaram Fasteners, Padi, Pondicherry & SEZ, Chengalpettu.
- Rane (Madras) Ltd., Chennai, Mysore, Pondicherry, Uttarakhand, & Kancheepuram.
- Rane TRW Steering Systems, Guduvancherry, Viralimalai.
- Royal Enfield Motors,
- Mitsuba Sical India Ltd.,
- Madras Engineering Industries (P) Ltd., Chennai.
- Delphi - TVS Diesel System Ltd., Sriperumbudur.

# Standards

- American (AISI & SAE)
- British (EN Series)
- German (DIN)
- Japanese (JIS)
- French (Afnor)
- Russian (GOST)

# Combined Drawing Line 6.00 mm to 26.00 mm



# Chain Draw Bench 16.00 mm – 53.00 mm





# Centreless Bar Peeling 19.00 mm – 60.00 mm








# Globe Steels Contact Details

- Plant-1: No.16 Industrial Area II, Maraimalai Nagar, Kancheepuram-603 209
  - Tel:- +91 44 2745 1172
- Plant-2: A3/A1-2, SIDCO CMDA Industrial Complex, Maraimalai Nagar, Kancheepuram-603 209
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- Web: [www.globegroup.in](http://www.globegroup.in)
- Contact Person:
  - R.Sridhar - Director :- +91 99625 38456
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  - Rahul Modi - Associate Director :- +91 99403 46562





GLOBE COMPONENTS (P)  
LTD.,  
Chennai, India

# Globe Components Profile...

- Total capital Investment : 50 Cr INR
- Total Sales turnover : 150 Cr INR
- Total Number of Employees : 200
- Plant Area : 75000 Sq Ft

# Major Customers

- Rane Group
  - Rane Madras Ltd, Chennai
  - Rane Madras Ltd, Mysore
  - ZF Rane Steering Systems Ltd
- TVS Group
  - Lucas –TVS
  - Delphi TVS Diesel systems
  - Brakes India Ltd
- Royal Enfield Motors Ltd
- Aisin Automotive
- TAFE – Access Limited
- Same - Deutz Fahr Limited
- Visteon , Mexico
- Woosu Automotive Limited

# Manufacturing Facilities...

- CNC Turning Centers –60 Nos
- Vertical Machining Centers – 30 Nos
- Robo Drills – 12 Nos
- Citizen Sliding Heads – 9 Nos
- Gear Hobbing Machines- 5 nos
- Gear Shaving Machine
- Gun drilling Machines- 2 Nos
- Spline Broaching – upto 20 Tons
- CNC Circular Saw Machine- 3 nos
- Polygon Milling Machine- 6 nos.
- Spline Rolling machine-upto 2 modules
- Angular Grinding Machine – 7 Nos
- Cylindrical Grinding Machines- 12 Nos.
- Centerless Grinding – 7 nos
- Thread / Serration Rolling – 2 Machines – 15 tons



# Manufacturing facilities...

- Full fledged Heat Treatment facility with Lab

## **We have dedicated sub-contractors for...**

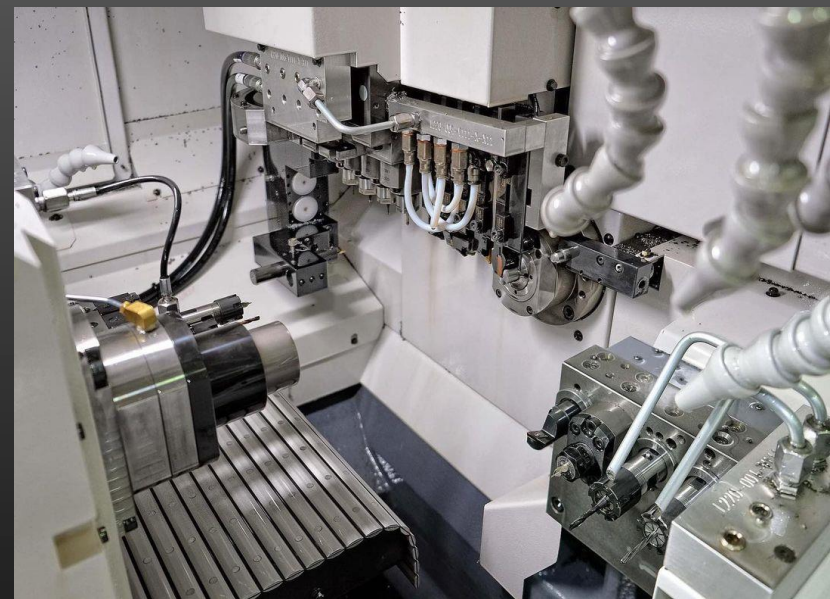
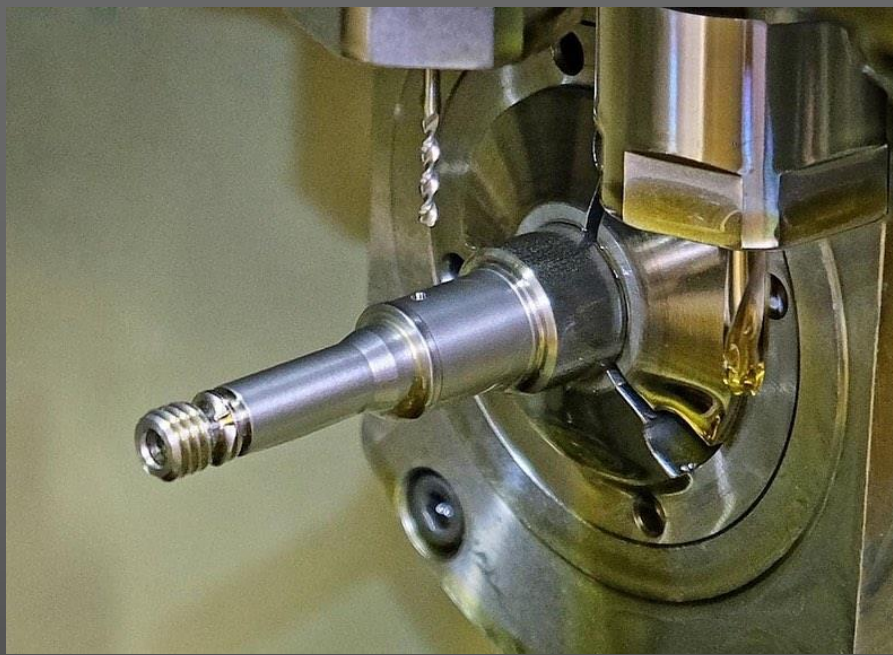
- Hot forging process
- Cold forging

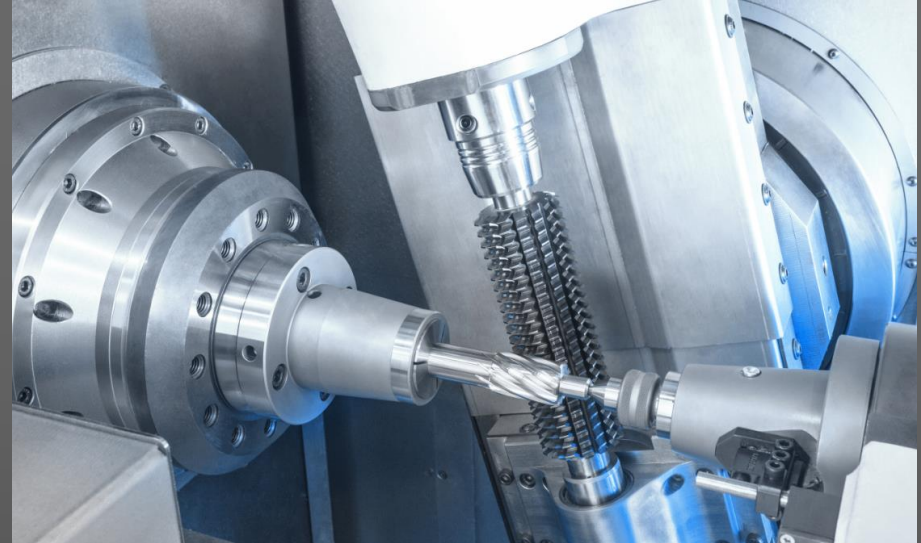
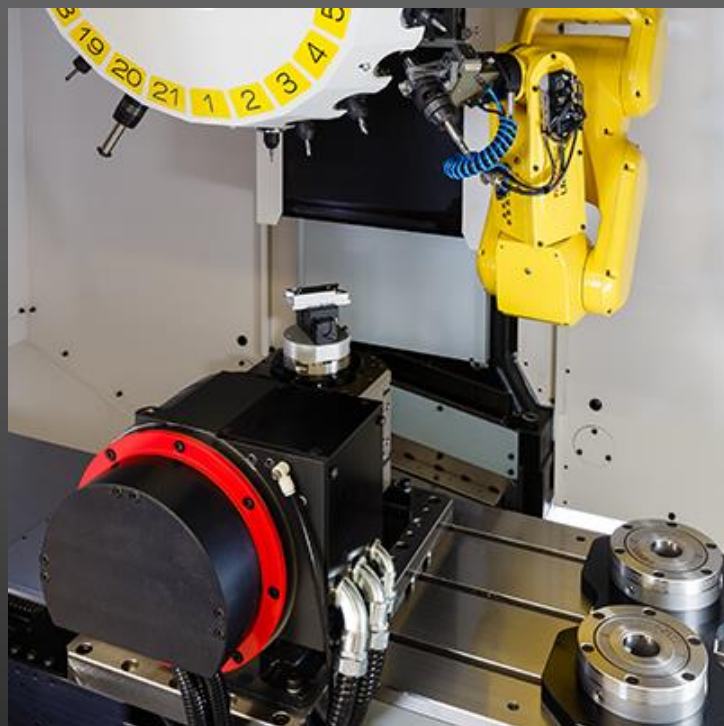




















**PART NAME : VALVE SPOOL**  
**APPLICATION : HYDRAULIC STEERING**



**Critical Dimensions:**

1. Keyway Symmetry
2. Position tolerance 0.10 max for all holes and Keyway
3. Internal Splain form by cold forging process

**PART NAME : PINION**  
**APPLICATION : RACK AND PINION STEERING**



**Critical Dimensions:**

1. Gear Accuracy DIN 8
2. 'P' Point Orientation
3. Gear Straightening 0.02 max by Auto straightening machine

PART NAME : DRIVE SHAFT  
APPLICATION : FUEL INJECTION PUMP



**Critical Dimensions:**

1. Slot and Hole Position tolerance 0.1mm max
2. Slot width tolerance 0.03mm max
3. Keyway inline with slot  $\pm 0^{\circ}20'$

PART NAME : STATOR & ROTOR  
APPLICATION : HYDRAULIC STEERING



**Critical Dimensions:**

1. Spline Orientation tolerance  $\pm 0^{\circ}5'$
2. Gear Class DIN-7



PART NAME : SHAFT OIL PUMP  
APPLICATION : PASSENGER CAR ENGINE

Critical Dimensions:

1. Roundness of the Outer Diameter 0.0025mm
2. Cylindricity of the Outer Diameter 0.0025mm
3. Surface finish Ra0.2max



PART NAME : SHAFT OIL PUMP  
APPLICATION : PASSENGER CAR ENGINE

Critical Dimensions:

1. Roundness of the Outer Diameter 0.0025mm
2. Cylindricity of the Outer Diameter 0.0025mm
3. Surface Finish Ra0.20max



NAME : ARMATURE SHAFT (TWIN)  
APPLICATION : WIPER MOTOR



**Critical Dimensions:**

1. Roundness of all diameters less than 0.001mm
2. Cylindricity of all diameters less than 0.004 mm

PART NAME : SHAFT  
APPLICATION : BLDC MOTOR AUTOMOTIVE SUSPENSION SYSTEM



**Critical Dimensions:**

1. Roundness of outer diameters 0.003mm
2. Cylindricity of outer diameter 0.004mm
3. Outer Diameter tolerance 0.007mm
4. Eccentric Pitch  $\pm 0.03$

PART NAME : SHAFT LH  
APPLICATION : TWO WHEELER ENGINE



**Critical Dimensions:**  
**1.Spline dimensions acheived by**  
**spline rolling**

PART NAME : KICK STARTER SHAFT  
APPLICATION : TWO WHEELER KICKER



**Critical Dimensions:**  
**1.Pawl and Plunger Hole orientation  $\pm 1^\circ$**   
**2.Pawl Profile Milling**



PART NAME : PINION  
APPLICATION : RACK AND PINION STEERING



Critical Dimensions:  
1. Gear Accuracy DIN-8  
2. 'P' Point Orientation  
3. Gear straightening 0.02max by Auto straightening machine

PART NAME : SHAFT RH  
APPLICATION : TWO WHEELER ENGINE



Critical Dimensions:  
1. Cam Gear Geometry achieved by Gear shaving  
2. Deep Hole 136mm done by Gun drill  
3. Taper Gauge Point dimension maintained by Cylindrical Grinding













# QC Facilities...

- Standards Room with In-House Calibration Facilities
- ZEISS Co-ordinate Measuring Machine
- Gear Roll Tester
- Surface Roughness Tester
- Profile Projector
- Metallurgical Lab
- Crack Detection ( MPI with Half Wave DC Unit )



# Best Practices in Place...

- Kaizens
- Quality Circles
- Suggestion schemes
- Nagare Cells
- One – Piece Flow Lines
- 3C – 5S
- Control Charts
- Safety Audits
- OEE Monitoring
- Poka-Yoke
- Full time New Product Development Team for APQP





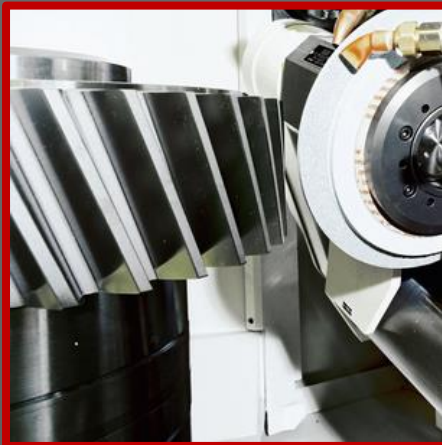
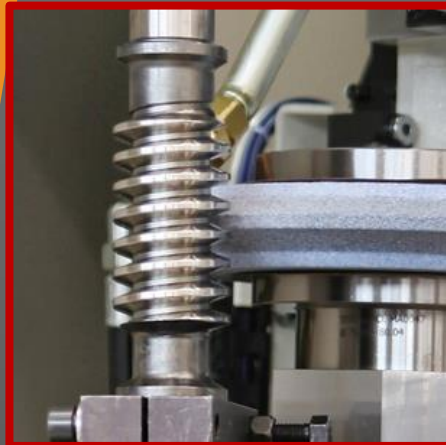


Sep'22

- Horizontal Gear Hobbing Machines
- K 160
- Module range: mm 0.3 - 2.5
- Workpiece dia., max.: 100 mm | 4 in
- Workpiece length, max.: 1,000 mm | 39.5 in

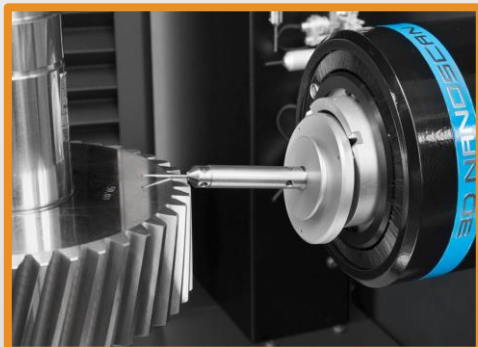






# NEW PROFILE GRINDING MACHINE





Gear Tester

# Our Location...

Unit 1

- SP-85, Ambattur Industrial Estate

Unit 2

- SP-88, Ambattur Industrial Estate

Unit 3

- K-35, Ambattur Industrial Estate

Unit 4

- 64, Rajiv Gandhi nagar, Inambakkam, Chennai-95

HT

- 6/1,6/2, Vanagram Main road, Inambakkam, Chennai-95

Unit 5

- C-5, Ambattur Industrial estate (Group Corp Office)





# Key Contact Persons...

Mr.Padam C Modi  
Managing Director

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