

Ergo Engineers

Non-ferrous Forgings

Electrolytic Copper, Copper Alloys, Brass, Aluminium, and Bronze



- **Ergo Engineers Pvt. Ltd.** (formerly known as Ergo Plast Pvt. Ltd.) specialises in producing high-quality precision-crafted components using forging and machining as per client's drawings and specifications.
- Process of forging involves shaping and compressing metals under extreme pressure to create parts with exceptional structural integrity.
- Forged parts have superior material properties, exceptional strength and durability. They are designed to withstand mechanical stresses, vibrations, and temperature variations commonly encountered in electrical equipment.
- Forging is often used to produce components with intricate and complex geometries. One can use combination of forging and machining to create components that perfectly match the requirements of specific equipment.
- Forging process enhances the metallurgical structure of the materials, leading to improved mechanical properties such as higher tensile strength, toughness, and fatigue resistance.
- Forged components play a crucial role in ensuring reliability, safety, and efficiency of various electrical rotating machines and other electrical equipment.

Ergo Engineers

Company

- Ergo Engineers Pvt. Ltd. has been serving clients in India and abroad for more than thirty-five years.
- Focused on industrial and engineering products made to customer's designs and specifications.
- We have served clients across the globe.
- Dynamic technically qualified management team.
- Trained and experienced manpower.

Manufacturing Facilities

- Factory – 15,000 sq. ft.; ISO 9001:2015 Certified
- Massey Forging Hammer ~400kg
- Closed Die Forging Press ~250T
- Ring Rolling Machine OD 1200 mm
- EOT Crane cap. 10 tons; clear lift height of 8m



Product Range

- Copper forged & machined – 25g to 3Kg
- Aluminum forged & machined – 25g to 3Kg
- Brass forged & machined – 25g to 3 kg
- Sub-assemblies

Testing Capabilities

- Mechanical testing (tensile-yield-elongation)
- NDT Testing (dye penetrant, UT, radiographic)
- Hardness, Conductivity, & Grain Size Analysis
- Chemical composition analysis (Outsourced)



Raw Materials

- Copper Rods & Bars for electrical purposes as per IS-613
- Forging quality high tensile brass rods, bars & sections as per BS: 2874/69-CZ-115 & IS-6912
- Electrolytic Copper Billets as per EN 1976:2012
- Extruded and Drawn Electrolytic High Conductivity Copper Flat as per IS-1897

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Offerings for Different Industries

Traction Motor

✚ **Short Circuit Rings – OD max. 1200 mm**

✚ **Rotor Bars**

- ✓ Manufactured as per customer's requirements.
- ✓ Inhouse facilities for Forging, Extrusion, Ring Rolling, Heat Treatment, Machining, Testing, etc.
- ✓ Checked for ultrasonic soundness, Electrical Conductivity & Hardness.



Traction Control Gear

✚ **Contact Blocks for Reverser**

✚ **Terminal Block**

✚ **Cable Terminals**

- ✓ For Diesel and AC Locomotive Reverser.
- ✓ Made from high conductivity Copper alloys.
- ✓ Made as per client drawings and specifications.

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Transformer

- ✚ Primary Terminal Stem for Current Transformers
- ✚ Top and Bottom End Plates
- ✚ Contact Rollers
- ✚ Fittings, Fasteners and Contact Shoe
- ✓ Components in copper, brass and aluminium.



Switchgear

- ✚ Moving & Fixed Contacts
- ✚ Contact Fasteners
- ✚ Arcing Contacts
- ✓ Made from oxygen free copper alloys.
- ✓ Also manufacture Copper / Chromium Copper using Closed Die Hot Forging.
- ✓ Fully machined.

Industrial Control Gear

- ✚ Arcing Horns
- ✚ Contact Supports
- ✚ Arcing Contacts
- ✓ Made from high quality brass.
- ✓ Precisely engineered.
- ✓ Compliance with international quality standards.



Electric Vehicle

- ✚ Driveshaft
- ✚ Yoke & Suspension Components
- ✚ Leg Brace; Hubs.
- ✓ Lightweight forged aluminum components.

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Other Products Offered by Ergo Engineers

- ✚ Louvers for Air Cooled Heat Exchangers & Condensers
- ✚ Parts and sub-assemblies for Air Cooled Heat exchangers & Condensers
- ✚ Custom-made engineering products

Ergo Engineers Pvt. Ltd.
is registered as an Exporter with Govt. of India.
We have exported to various countries and are
always looking for export opportunities.
We welcome inquiries for long-term relations.

Ergo Engineers Pvt. Ltd.

(Formerly known as Ergo Plast Pvt. Ltd.)

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