



Forgings



Forgings



Aluminium Castings



SG Iron Castings

About Us

Established in 1992, Turbo Group is a flourishing mechanical engineering company with diverse interests in the fields of Agriculture & Forestry, Automotive, Railways, Wind Energy, Power Transmission, Hydraulics, Fastening industry, Scaffolding & Formwork, Heavy industrial fabrications, Light Engineering, Mining and Post Tensioning Products.

With the manufacturing base at Ludhiana, India - it has 2 state-of-the-art production units spread across 100,000 Sq. Mts.

Turbo employs over 1800 people who are committed towards continued development in all the areas. The Group comprises of three companies involved in varied product manufacturing and service extensions of the same.

Today, Turbo Group is known for producing specialized engineering products with strong focus on the quality.

Vision

To be a preferred Supplier of Hot Forgings, Cold Forgings, Green Sand Castings/Investment castings, Pressure Die Castings, Gravity Die Castings, Customized Fasteners, Precision Machined parts, Press Stamping and Welded Fabricated Assemblies to OEM's worldwide.

Group Companies

- Turbo Industries Pvt. Limited- India
- Turbo Tools Pvt. Limited-India
- Turbo Technik Pvt. Limited- India

Certifications

Over the years, Turbo Group has emerged as a solution provider with a strong focus on business processes and quality. Owing to this, it has successfully attained numerous certifications:

DIN EN ISO 9001:2015 Certification from TÜV SÜD

ISO 14001:2015 Certified from TÜV Rheinland

ISO 45001:2018 Certification from TÜV Rheinland

IATF 16949:2016 Certification from TÜV Rheinland

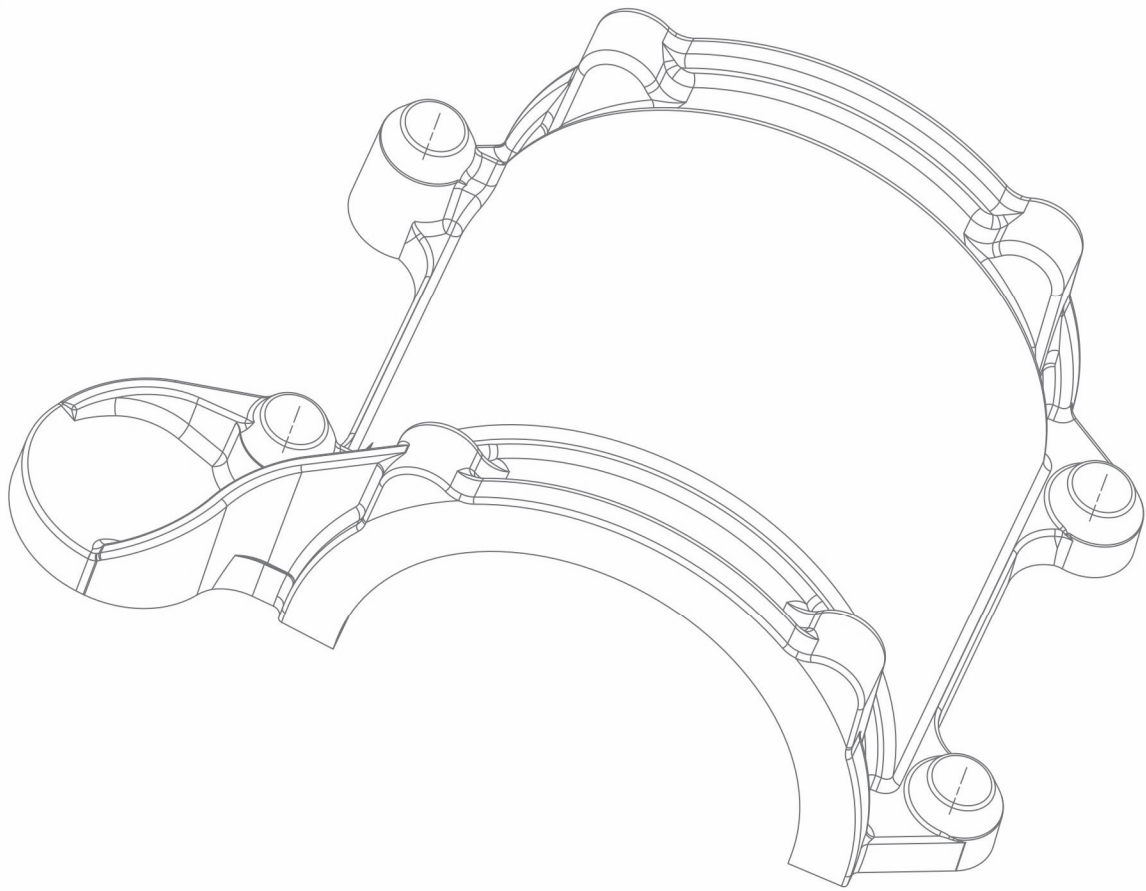
EN 1090-1 Welding Certificate from TÜV Rheinland

EN 1090-2 Welding Certificate from TÜV Rheinland

Product Range

- Hot Forgings
- Cold Forgings
- Green Sand Ductile Iron Casting
- Investment Casting (Duplex Stainless Steel, Carbon Steel, Aluminium, Brass & Copper)
- HPDC/GDC (Aluminium,)
- Customized Fasteners
- Precision Machined Parts
- Pressed Stamping
- Welded Fabricated Assemblies. (Steel, Stainless Steel and Aluminium)





Design & Development

Turbo provides integrated in-house services: Tooling & Prototyping for the product development.

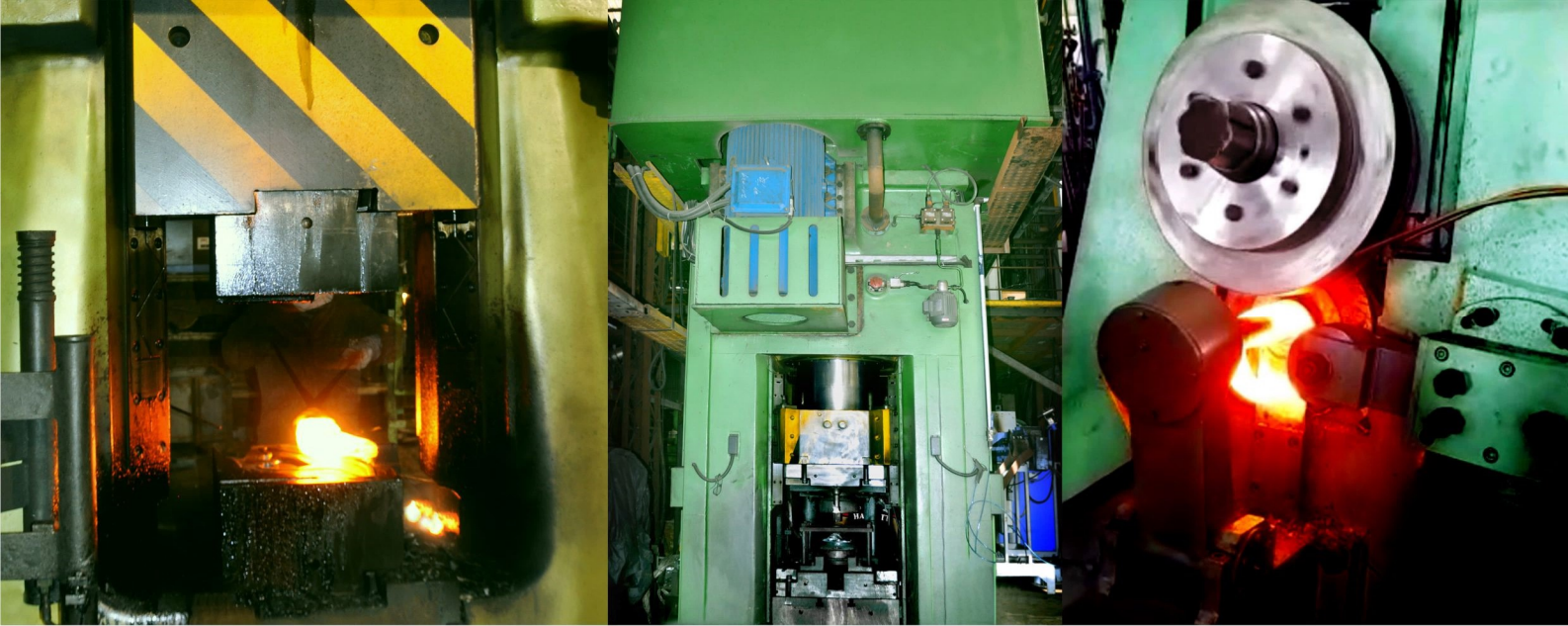
The design team works on Advanced Software setup: CAD/CAM Unigraphics UG NX (version 2027), Solidworks, AutoCAD Inventor, AutoCAD and Simulation Software for designing, modeling and tool manufacturing.

Laboratory

Turbo Group has a high-tech laboratory and testing setup for conducting Chemical, Physical, Metallurgical and Radiographic Tests.

Turbo setup is equipped with:

- » X- Ray 450 KV – Yxlon, Germany
- » CNC CMM – Carl Zeiss, USA
- » Contour Measuring M/C – Mitutoyo Japan
- » Spectrometer – Spectro A.I. GmbH & Co., Germany
- » XRF Machine – XDLM 237 Fischer, Germany
- » 3D BlueLine Scanner (FARO)
- » Other Equipments: Micro Structure Analyzer, Micro Hardness Tester, Hardness Tester, Profile Projector, Roughness Tester, Microscope for Welding Penetration, Impact Testing Equipment, UTE (100T, 60T, 5T), Sand Testing Laboratory, Salt Spray Test and Sub-Zero Testing Chamber (-80°C), Gloss Meter, Elcometer etc.



Forgings

The Forging shop is equipped with:

- 2 Nos - 63KJ CNC Hydraulic Hammers
- 1 Nos - 40KJ CNC Hydraulic Hammer
- 1 Nos - Screw Forging Press 1000T (CNC Controlled)
- 2 Nos - Screw Forging Press 630T (CNC Controlled)
- 1 Nos - Screw Forging Press 300T (CNC Controlled)
- 1 Nos - Ring Rolling Machine 80-250mm(CNC Controlled)
- 2 Nos - 1.5T Belt Drop Hammers
- 4Nos - 1.0T Belt Drop Hammers
- 1 Nos - 300T Friction Screw Press
- 1 Nos - 100T Friction Screw Press

Simulation Softwares are used for Forging Die design to maintain right grain flow structure.

Forging Weight Range 10gm - 25kg

Steel Forging



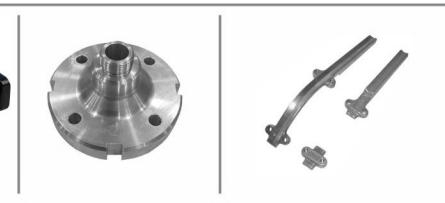
Steel Forging



Steel Forging



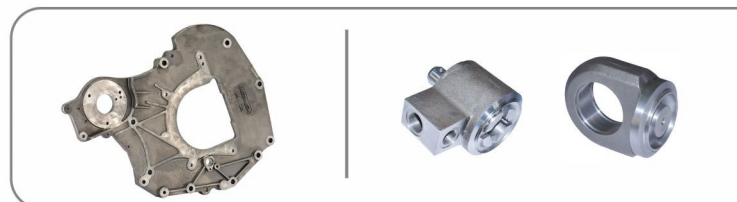
Aluminium Forging

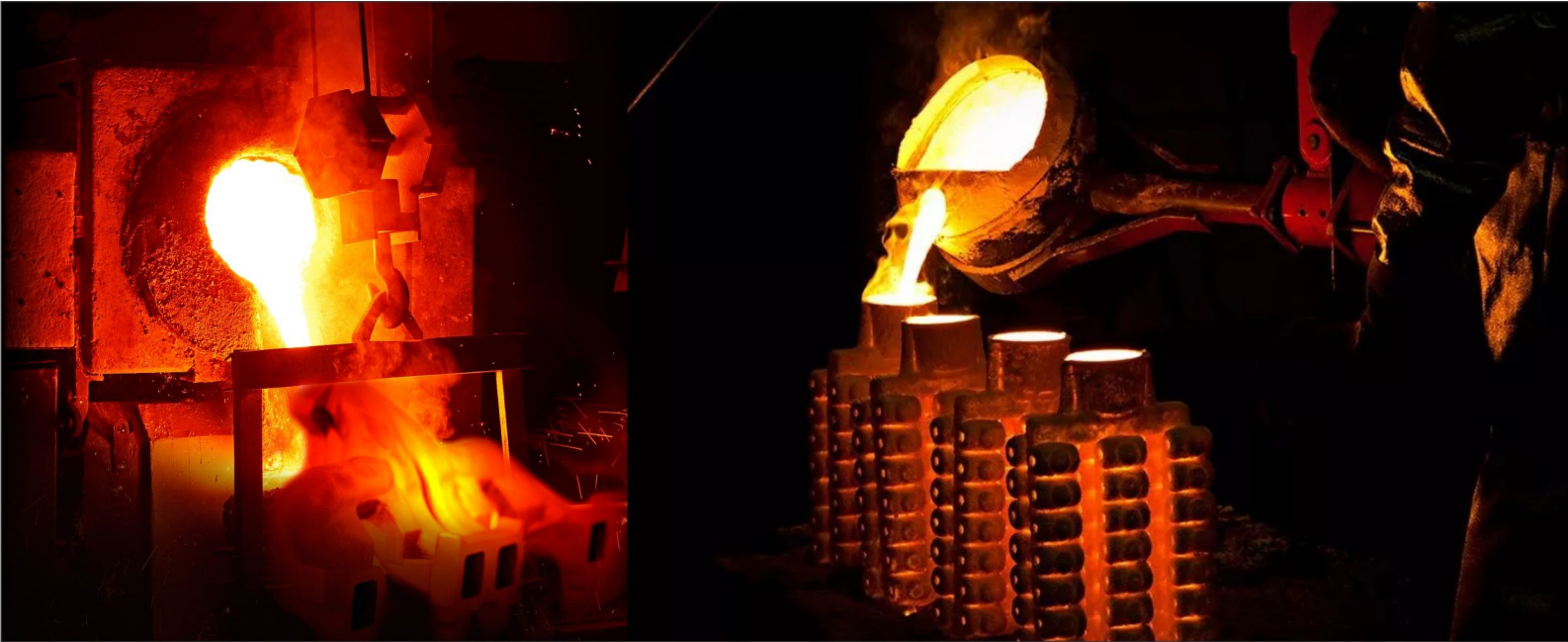


CNC Machining

Turbo Group has an Advanced Machining Facility consisting of 150+ CNC machines

- Horizontal Machining Centers
- 5 Axis Machining Centers
- Vertical Machining Centers
- Vertical Machining Centers with 4th Axis
- Drill Tap Centers
- Turn Mill Centers
- Turning Centers
- Vertical Turning Centers
- Vertical Balancing Drilling Machine
- Horizontal Balancing Milling Machine
- Horizontal Balancing Drilling Machine
- Honing Machines
- Table up broaching Machine 30T
- Vertical Surface broaching machine 18T
- 7 Axis CNC Hobber for Spline / Teeth cutting





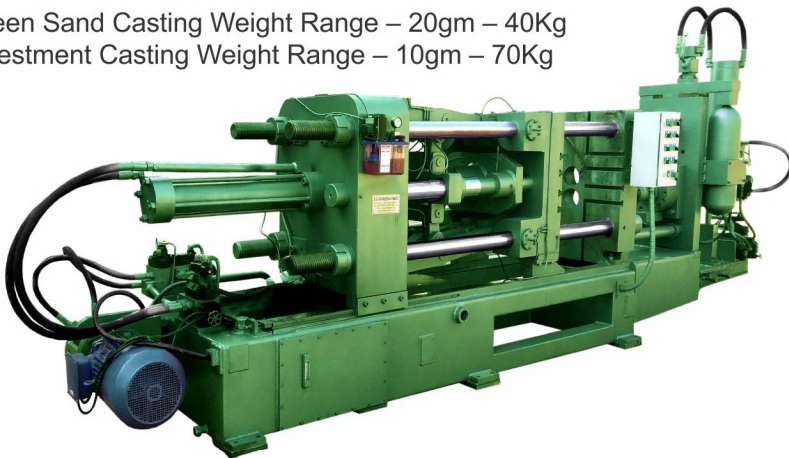
Green Sand Castings & Investment Castings

Our Green Sand Foundry & Investment Casting specializes in Ferrous & Non Ferrous Castings:
Spheroidal Graphite Iron, Grey Iron, Alloy Steels, Medium Carbon Steel, Duplex stainless steel, Aluminium Alloys, Brass & Copper Alloys

We are equipped with:

Two nos. Inductotherm make Coreless Dual Track Induction Furnaces with installed capacity of 3000 TPA and treatment ladles.
Two nos. of DISA molding lines to make 72 molds per hour and Automatic Sand Plant with capacity to prepare 30 tons sand/hour.

Green Sand Casting Weight Range – 20gm – 40Kg
Investment Casting Weight Range – 10gm – 70Kg

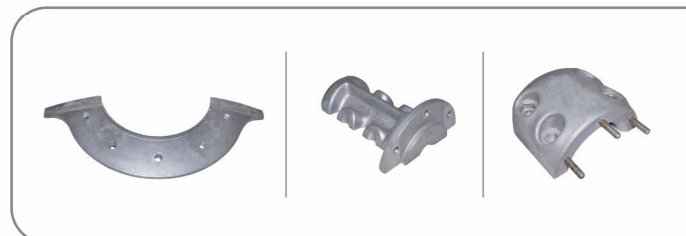


Aluminium-High Pressure Die Castings & Gravity Die Castings

HPDC Machine 250 Tons with Platen Size: 500x550 and Die mounting plate size: 800x850.
Casting weight range – 20gm to 3Kg

Gravity Die Casting setup has an array of Machines with following bed sizes:

- 1 Nos - 1200mm x 1200mm (90° Tilttable)
- 1 Nos - 750mm x 1000mm (90° Tilttable)
- 6 Nos - 600mm x 600mm (Vertical pouring)
- 8 Nos - 200kg Electric Aluminium Melting & Holding Furnace
- 4 Nos - 300kg Electric Aluminium Melting & Holding Furnace
- Casting weight range – 20gm to 20Kg
- We can Cast and Heat Treat all the available grades according to International Standards.
- Presently we are casting LM6, LM9, A1Si10, A1Si12, A1Si10Mg.
- Drop Quench & Tempering Furnace for Heat Treatment.





Welded Fabrications

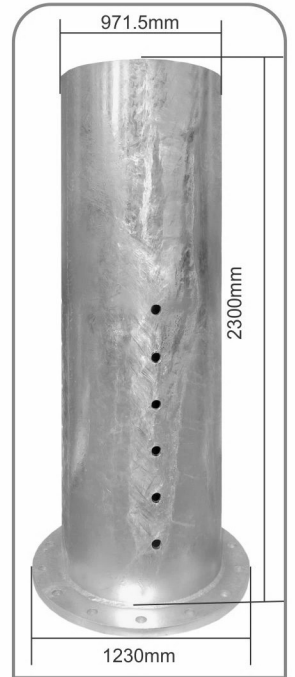
Our Fabrication setup is EN 1090 Certificate from TÜV Rheinland undertakes complex jobs for Railways, Scaffolding, Formwork, General Fabrications in Steel, Aluminium & Stainless steel.

We are equipped with:

- 16 Nos - Robots for MIG Steel Welding
- 5 Nos - Robots for MIG Aluminium/Stainless Steel Welding
- 25 Nos - Certified Welders

Scaffolding and Scaffolding Ladder (Aluminium & Steel)

Pole Foundations



Stainless Steel Fish Tray

Livestock Fabrication(Steel)

Cylinder Body

Tighten Drawer Attachment

3 Point Quick Attach Frame



Hot, Cold Forged & CNC Machined Fasteners

M6-M100 (Customized Special Fasteners)

Turbo Group is an acclaimed name in complex engineering technologies. We have latest technology 6 Station Part Former, 4 Station Bolt Former, 5 Station Nut Former, 7 nos. of Bolt Heading Machines, Hot Forging Presses to manufacture M27 - M100 Bolts & Nuts.



M72



M64



M56



M48



M48



M56



M64



M72



M80



Heat Treatment

- 1 Nos. Continuous Normalizing, Isothermal Annealing, Quenching & Tempering Line (Gas - Fired)
- 1 Nos. Continuous Normalizing and Quenching Line (Gas - Fired)
- 4 Nos. Electric Gas Carburizing & Nitro Carburizing Batch Type Hardening & Tempering Furnaces
- 1 Nos. Drop Quench Furnace & Tempering Furnace for Aluminium Parts
- 2 Nos. Bell Type Furnaces for Normalizing / Annealing
- 1 Nos. Shaker Hearth, Electric, Quenching & Tempering Furnace for Fasteners
- 1 Nos. Induction Hardening : 100KW/ 30KHz Dual Spindle with 600mm Vertical Scanner
- 1 Nos. Induction Hardening : 60KW/ 40-30KHz Dual Spindle with 600mm Vertical Scanner
- 1 Nos. Seal Quench & Tempering Machine is under installation



Pressing

Turbo's Pressing Division consists of Stamping Presses from 10T to 300T, Guillotine Shear Presses with maximum capacity 16mm x 4mtrs and Press Brakes with maximum capacity 340T x 4mtrs.

With the support of Robotic, Manual and Projection Welding Stations, Turbo precisely takes care of Complex Pressed Assemblies.

Surface Finishes

In house facility for

- Hot Dip Galvanizing
- Painting
- Powder Coating
- Auto Black
- Electro Galvanizing
- Electropolishing of Stainless steel
- Electrophoretic Deposition Coating
- Vibro Polishing
- Zinc Nickel Alloy Plating
- Zinc Flake Coating (Atotech)
- Zinc Phosphating





- ★ Manufacturing Facility
- Clientele

Manufacturing Unit-1

Turbo Tools Pvt. Limited

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Manufacturing Unit-2

Turbo Industries Pvt. Limited

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Manufacturing Unit-3

Turbo Technik Pvt. Limited

Behind Sua Road, Industrial Area C,
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