



# Grover Forgings

**The Forging Connoisseurs since 1969**

*Alloy Steel Forgings, Stainless Steel Forgings, Copper & Brass Alloy Forgings, Aluminium Alloy Forgings, Monel Forgings, Inconel Forgings, Titanium Forgings, Incoloy Forgings, Hastelloy Forgings*

**"All Under One Roof"**



### **Introduction:**

Grover Forgings, Mumbai is a leading manufacturer of Closed Die Forgings in India.

Our service is so closely tailored to the needs of each individual customer that there is almost no limit to the things we do.

The company was set up about four decades ago. Initially, ancillary to Amforge India Ltd, the company made products for TELCO, Bajaj Auto, Bharat Gears Ltd, TENGL, Ashok Leyland and most prominent Engineering units of that time, when India was on the threshold of industrial revolution.

Gradually, the company diversified into it's own product range, serving clients like Atlas Copco (I) Ltd, BHEL, Cummins, L & T and several other export oriented units. It has over the years built up an excellent track record by following the policy of customer satisfaction.

We are one of the few Forging units in India that manufacture all types of Forgings under one roof. At Grover Forgings, we are involved in the manufacture of closed Die Forgings for all industries. Our service is so closely tailored to the needs of each individual customer that there is almost no limit to the things we do.

### **Products Manufactured:**

1. Manifold T Type & H Type ( 3 Way T Type, 5 Way T Type, 3 Way H Type, 5 Way H Type, 5 Way Special T Type, 3 Way Special T Type Manifold Forged Body )
2. Y Pattern Body & Bonnet & Bonnetless Body
3. 6 mm, 10 mm & 20 mm Orifice Forged Body
4. Screwed Bonnet Body, Bolted Body & Bonnet
5. Forged Fittings ( Tees & Elbows from 12 mm A/f Hexagon upto 70 mm A/f Hexagon )
6. Y Type Strainer Body
7. OS&Y Type Body & Bonnet ( 15 nb 800# to 1500#, 25 nb 800#, 50 nb 800# )
8. Angle Valves & Needle Valves & Angle Type Needle Valves
9. Key Blocks
10. Double Bleed & Block Valves
11. Monoflanges
12. Weldolets
13. Thermowells
14. Integral Bonnet Needle Valve
15. Steel Gear Blanks and Levers,
16. Hooks, Brass Valves and Forgings, Bronze Synchroniser
17. Aluminium Lugs
18. Rings and Starter Pinions for Air Compressor, Oil Engine, Automobile, Scooter, Refrigeration, Transmission and Gear Box manufacturers



## Forging Capacity and Equipment used:

- Ferrous Forgings : 200 gm to 70 Kg
- Brass & Copper Forgings: 100 gm to 80 Kg
- Aluminium Forgings : 50 gm to 20 Kg
- 400 T Friction Screw Press ( USSR )
- 600 T Friction Screw Press ( German )
- 1 T Drop Forging Hammer ( British - Massey )
- ( 2 x Power C Press. ( Indian ) + 1 Power Press ( Ukraine )
- Gas Fired Furnaces & Induction Heating Furnaces ( Green Energy )
- Air compressors ( Indian )
- Bandsaw cutting machines & CNC Lathes
- State of the art inspection & testing facility

## Raw Material Grades we can Forge as per your requirements:

- Carbon Steels ( ASTM A105 / ASTM A350 Gr. LF2/LF6 )
- Alloy Steel Grades ( EN-8/EN19/4140/EN-24 )
- Stainless Steels ( 316/316H/316L, 316Ti, 304/304H/304L )
- SMO/F44/6Mo
- Duplex Steels ( ASTM A182 Gr. F51/F53/F55/F60 )
- Flange Steels ( ASTM A182 Gr. F11/F22/F91/F92 )
- Exotic Metals ( Monel 400/ Inconel 625/ Inconel 825/ Hastelloy C-276 )
- Other Exotic Grades ( Titanium Grade Ti6Al4V, Aluminium Bronze, Nickel Aluminium Bronze etc.)
- Maraging Steel C-250
- Brass & Copper Alloys
- Aluminium Alloys ( 6061/6082/7075 )

## Certifications Acquired:

- NORSOK M-650 Ed. 4 for ASTM A182 Gr. F44 ( i.e. 6 Mo/ SMO )
- Pressure Equipment Directive ( PED ) Certificate of Compliance PED/2014/EU
- ISO 9001:2015







# Grover Forgings

## Test Facilities Offered:

- Chemical Analysis ( Spectrometer )
- Mechanical Analysis ( Tensile, Elongation, Reduction, Hardness )
- Impact Testing at Minus temperatures
- Microstructure
- Intergranular Corrosion (IGC Practices A, C & E)
- Any other Tests can be conducted upon request

All our tests are carried out at NABL Accredited Laboratories only.

## Heat Treatments Offered:

- Normalize & Temper
- Quench & Temper
- Solution Heat Treatment
- Age Hardening / Precipitation Hardening
- Hardening & Tempering
- Any other Heat Treatment as required

## Machining Facilities:

We have state of the art CNCs & VMCs & years of experience. Whatever your requirement is, no matter how complex, we can undertake the job.

Additional Capabilities/Specialist Areas.

- Manufacture Forgings of special alloys such as Hastelloy, Stainless Steel, Monel, Inconel. Specialize in Brass & Aluminium Forgings.
- Capable of Manufacturing very intricate and precision engineered Forgings.
- SOFTWARE APPLICATIONS:

With the aid of PRO/E ( Pro Engineer ) we obtain maximum mechanical accuracy and perfection. We have trained staff for this application.

## Industries Served:

Railways, Defence, Electrical, Dredging, Oil & Gas, Agriculture Industry, Industrial Vehicles, Fluid Valves, Industrial Valves, Mining, Refrigeration, Pneumatic tool equipment, Automobile, Orthopedic, Heavy Lifting, Engines, Instrumentation, Electric Cables, Parachute, Pharmaceutical & Surgical.





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