

## Pressure Vessels: Customized in terms of size, capacity, service and performance

For almost two decades Grand Prix has been manufacturing Pressure Vessels suitable to meet customized requirements in terms of size, capacity, service & performance. Grand Prix enjoys an enviable position and reputation in the market place as a quality conscious Pressure Vessel manufacturer with one of the modern manufacturing facilities in India. Grand Prix can in-house design, manufacture & test Pressure Vessels upto 130 MT a piece, upto 30 meters in length, 6.0 meters in diameter, and with thickness upto 100 mm in CS and 50 mm in SS, DSS and Alloy Steel.

Our motto '*Partners in Progress*' go in sync with our policy of continuous commitment towards quality and customer service thereby forging long term partnership with several of our renowned clients.

Today, keeping in focus the same motto, we have made in-roads in the international markets too.

### Design & Engineering Services

Grand Prix has in-house design & engineering capabilities with all drawing preparation on AUTO CAD by our experienced & well qualified staff.

Grand Prix submit to their clients, on demand, complete mechanical design calculations including wind analysis, seismic analysis, WRC analysis (for nozzle loads) for ASME Code Sec VIII Division 1 and Division 2 Coded Pressure Vessels with reports generated on some of latest and widely acceptable software viz. PV Elite and Compress.

### Fabrication Process

Grand Prix manufactures a wide range of Pressure Vessels each customized to match client's requirements for both onshore and offshore application. Pressure Vessels manufactured by us include but not be limited to:

- Flare Knock Out Drums
- Test Separators
- Filter Separators
- Feed Surge Drums
- Columns
- Stripper Drums
- Reflux Drums

- Activated Carbon Filters
- Scrubbers
- Volume Bottles
- Air Receivers
- Deaeration Columns
- Slug Catchers

In our most modern manufacturing facility spreading over 60,000 sq. feet with inside truck & trailer access, the heavy metal fabricating services we offer includes:



### Plate Bending

Our fully hydraulic, 3-Roll Double Pinch Plate Bending Machines can cold roll plate up to 2" thick in CS and 1.25" thick in SS. Width may vary up to 2.5 meters.



### CNC Plasma Profile Cutting

Our CNC Plasma Profile Cutting machine with a rail span & trail length of 4 m & 14 m respectively offers high accuracy, changeover support for plasma & oxy-fuel cutting in the same torch suspension, upto 4 torch suspension for oxy-fuel cutting and fully automatic operation for dry plasma.

### Plate Shearing

Our fully hydraulic Plate Shearing Machine accurately shear CS and SS plates of thickness up to 13 mm and 10 mm respectively. This process demand high level of accuracy and quality of the sheared plate products that could only be achieved in the hands of experienced craftsmen.

## Pressure Vessels



**HEAT TREATMENT FURNACE**



**GRIT BLASTING ROOM**



**PAINTING ROOM**

### Heat Treatment

Grand Prix offers Post Weld Heat Treatment (PWHT)- Stress Relieving Services in-house on vessels up to

4 meters in diameter and 10 meters in length. It helps in relaxation of residual & thermal stresses, tempering (softening), offers much greater dimensional stability, potential of stress induced cracking reduced, metallurgical structure is improved and strength of the material and life of the equipment is enhanced.

### Surface Preparation & Protection

Grand Prix provide Grit Blasting, a surface preparation process prior to painting or coating. Dry abrasive like steel grits are bombarded on the contaminated surface through jet nozzle thus producing a clean uniform satin-like finish surface. It cleans the surface from corrosion, dirt, grease, oils, paint and other films.

### Painting Room

Grand Prix provide in-house painting facility for vessels up to 4 meters in diameter and 10 meters in length. Special coatings, linings and fireproofing work can also be organized on request.

## Features: Design & Construction Advantages

### Mechanical Features

- Vessels as per ASME, Section VIII, Div.- 1 & 2. ASME Code Stamps include U & U2
- National Board/IBR certified
- Carbon Steel Vessels with HIC Tested Plates, glass flake lining and fireproofing
- Vessels also made in SS/DSS/Alloy Steel
- Cladded vessels manufactured by weld overlay method using submerged arc process

For more information on other Grand Prix products viz. Strainers, Cartridge Filters, Dry Gas Filters, Cyclone Scrubbers, Gas Separators, Filter Separators, Silencers and Skid Mounted Packages contact:

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