

**HI-TECH**

**METAL COMPONENTS**



## FLEXIBLE METAL BELLOWS

Flexible metal elements are used whenever flexible components must be sealed in a pressure, temperature and media resistant manner, when deformations of tube systems caused by changes in temperature or pressure must be compensated, when vibrations occur in piping systems, when media must be transported under pressure or when a high vacuum must be sealed. They include e.g. metal bellows, diaphragm bellows, metal hoses or expansion joints....



Hi - Tech offers Stainless metal Flanges in various grades and sizes. A flange is a forged or cast ring of steel designed to connect mechanically sections of pipe or join pipe to a pressure vessel, pump, valve or any other piece of equipment.



## SS PIPE SPOOL



Pipe Spool, 32" NB Dia in 8 mm thick, SS304 L, with 100% X-ray of all weld joints, appr Length 10 Mts, including mitered bends.

## TEE STRAINER



Strainers: S.S. Strainers for Plate Type Heat Exchanger fabricated out of 3 mm thick, perforated sheets having 4 mm dia holes on 8 mm pitch, 40 mesh wire mesh riveted from inside. More than 30 nos. (ranging from 10" dia to 20" dia) have been supplied.

## HEAT EXCHANGERS

**HI-TECH** has good strength in Process Design of heat exchangers, supported by reputed Software Packages. various types of Heat Exchangers are

- Shell and Tube : Fixed Tube Sheets / Removable Tube Bundle / U Tube Bundle/ Condenser / Reboilers / Vaporizers.
- Plate Type
- Double Pipe Type
- Finned Tube Type
- Helical Coil Type



### RE-TUBING OF SHELL & TUBE HEAT EXCHANGERS:

HI-TECH Systems can carry out re-tubing of large Heat Exchangers in Refineries, Fertilizers, and Petrochemical complexes at site, with tubes. The tubes are removed with Special Tube Puller machines enabling speedy completion of major jobs involving few thousand tubes. Experienced and expert Welders carry out expansion of Tubes, Argon Welding of Tube to Tube sheet Joints.

### RE-GASKETING OF PLATE HEAT EXCHANGERS:

Hi-TECH can carry out re-gasketing / maintenance of all reputed makes of Plate Type Heat Exchangers in the world.

## MIXING TANK

Hi-TECH specialises in selection, design, power calculations, mechanical design, fabrication of Mixing Tanks with performance guarantee..

Selection of type of Agitator and RPM depends upon various parameters like physical properties and result expected / application, solid-liquid-liquid mixing etc.

Suitable type of Impeller design is chosen after careful studies of application. Detailed calculations are done to arrive at correct Horse Power for the application.



After finalizing the Mixing Tanks details, Fabrication Drawing is finalized, approval is taken from the customers and the fabrication is carried out.

## DAIRY / FOOD EQUIPMENTS

Hi-TECH specialises in selection, design, power calculations, mechanical design, fabrication of Mixing Tanks with performance guarantee. All Fabrication / Piping is carried out by ARGON ARC method.



**Application :** Flavour Storage Tanks, SS 316L



**Application :** Tooth Paste Feeding Vessel, SS 316L

### Equipments include:

- Storage Tanks
- Plate Type Pasteurizers / Chillers
- Trolleys
- Storage Tanks with Mixing arrangements
- Erection and Piping of Dairy /Food equipment's

All Stainless Steel Surfaces have 2 B finish and all weld joints are ground smooth and given mirror finish. Capacity of Storage Tanks ranges from 100 Liters to 50,000 Liters. Tanks are insulated with SS cladding from outside having Hairline finishes. All equipment's are designed In-house. Detailed drawings are made on AutoCAD and then equipment's are fabricated.

### CASTING PRODUCT RANGE

- Pressure Die Castings
- Aluminum Sand Castings
- Gravity Die Castings
- Zinc Castings
- Motor and Valve Parts
- Automotive Parts
- Oil and Rigs Parts
- Forgings
- Telecom Components

## BRASS COMPONENTS AND NOZZLES

We Introduce Brass Components such as Brass Anchor Fitting, Brass Terminal Blocks Fittings, Cable Glands, DC Tape Clips, Brass W Shape Hinges and Panel Board Accessories. Along with this, Male Barb Nipple, Compression Male Branch Tee, Brass Hose, Nipples Fittings etc



The Brass Components and Nozzles are manufactured by the use of high- grade basic Brass Material, which is procured from the established vendors of the industry. Designed through effective technology, this range confirms to the defined parameters of the industry.

**Brass Industrial Fittings**  
**Brass Fittings Hex Nipple**  
**Brass Fittings**  
**Ball Valve**  
**Compression Union Elbow**  
**Female Tee Fittings**  
**Pipe Elbow**  
**Brass Pipe Fittings**  
**Brass Fittings Tee Male 3 Ways**  
**Brass Plug**  
**Brass Fittings Elbow Male**  
**Swivel Fittings**  
**Brass Compression Union Fittings**  
**Barb Brass Elbow Fitting**

**Brass Electrical Components**  
**Brass Earth Bars**  
**Brass Electrical Plugs**  
**Brass 4Way & 8 Way Earth Block**  
**Brass Terminal Blocks &Fittings**  
**Brass Terminal Neutral Blocks**  
**Brass Terminal Inserts**  
**Brass Electrical Pins**  
**Brass Neutral Link**  
**Brass Electrical Components**  
**Brass Terminal Bars**

Brass components are made from a Range of 1.0mm to 250.0mm in turning Outer Dimension, or Customized as per customers request. The threading can be offered as BSP, BSPT, NPT, UNF, UNC, UNS, Metric etc. Raw Material could be as per customer's Required Grade and finish with Nickel, Chrome, Zinc, Tin, Copper etc.



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