

Special Equipment

PANTAN
صنایع پنتان شیمی

Vision



We want to be the best company throughout the region for “Mass Transfer and Separation Technologies” demanded by the market.

Mission

PANTAN is a pioneer and knowledge-based company in designing, manufacturing, installation, and related services by utilizing cutting-edge technologies at a world-class level focused on “Mass Transfer and Separation Technologies” in Oil, Gas, and other process industries.



PANTAN is a complete solutions provider in mass transfer and separation systems for Oil, Gas, Refining, Petrochemical and other Chemical Process Industries. We offer a comprehensive and efficient range of products and services for Distillation, Absorption, Adsorption and multiphase Separation Processes.

Today, the company is leading specialist in process vessel internals and modular separation systems (as turnkey process packages) for the chemical process industries in Iran's market.

Based on highly skilled professional experts, innovation & research center and modern production facilities, PANTAN is operating as "one-stop solution provider" for wide range of process applications.

Thanks to its creative and tailor-made products and services, PANTAN is a proficient and innovative partner for its customers.



Business Segments

- 1) Equipment for Mass Transfer & Separation Systems
- 2) **Special Equipment**
- 3) Process Technologies
- 4) Field Services

During its history, PANTAN has vast experiences in designing and manufacturing of special items for Petrochemical, Oil, Gas, Refining, Food, Medical and Steel Industries. Some of the equipment are :

Silencers

The equipment to damp high noise levels bring about the venting of high-pressure steam to atmosphere during plant operations.



Ejectors

Ejectors use a fluid (Liquid or Gas) known as primary or motive fluid instead of moving parts to suck another fluid known as secondary fluid. In an ejector, a relatively high-pressure motive fluid, like steam or water, expands through a nozzle. then expanded fluid converts that pressure or potential energy to velocity or kinetic energy. The jet of high-velocity fluid entrains the secondary fluid to be evacuated or pumped in the suction of the ejector. The resulting mixture enters the diffuser where



Static Mixers

These are devices without moving parts which are inserted directly into the pipe with flanges allowing mixing two or more fluids, getting homogenize the mixture and reducing radial differences in concentration, velocity and temperature.



Strainers

These equipment arrest pipeline debris such as scale, rust, jointing compound and weld metal in pipelines, to protect equipment and processes.





Small/Medium Size **Pressure Vessels**

Pressure vessels with internal/external such as mixing devices, heating/cooling cyclones, rotating drying, cooling drum and heat exchangers used in fabrication of process packages like scrubbers and spent caustic treatment.

This equipment is available to manufacture individually or as a part of process packages.



Certified Welding

Our certified welders and inspectors use the latest technology to ensure that every product meets our quality standards. Our equipped facilities allow us to control the delivery time as well as the fabrication possibility of any small to medium size vessels.

- Large database of PQR, WPQ, WPS
- Welding processes:
 - SMAG
 - MIG(FCAW & GMAW MIG-pulse, Pulse-on-Pulse, Power Mode, Rapid- Arc, STT)
 - TIG (GTAW)
- Welding engineers (IWE)
- Welding specialist (IWS)



NDT Testing

In-house NDT testing facilities as below :

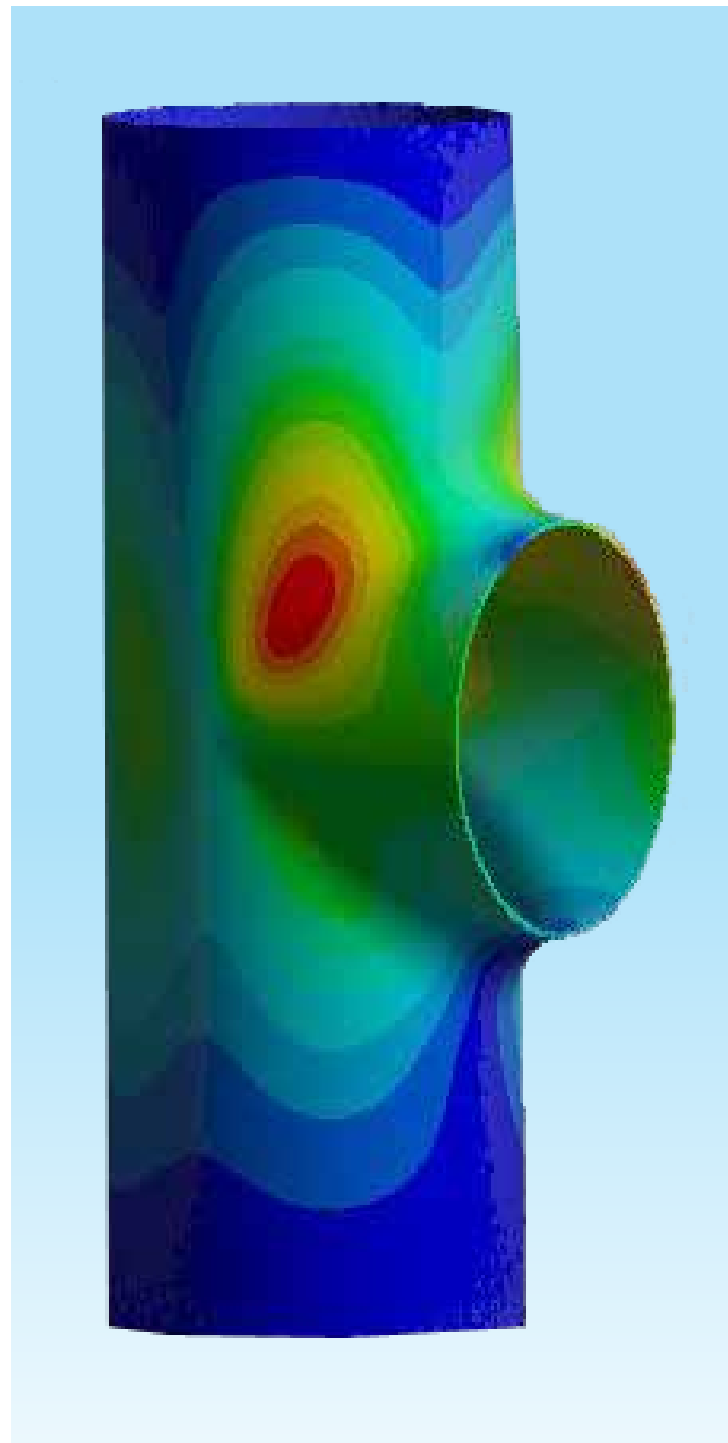
- Radiography
- Ultrasonic testing
- Magnetic particle testing
- DP testing, etc.



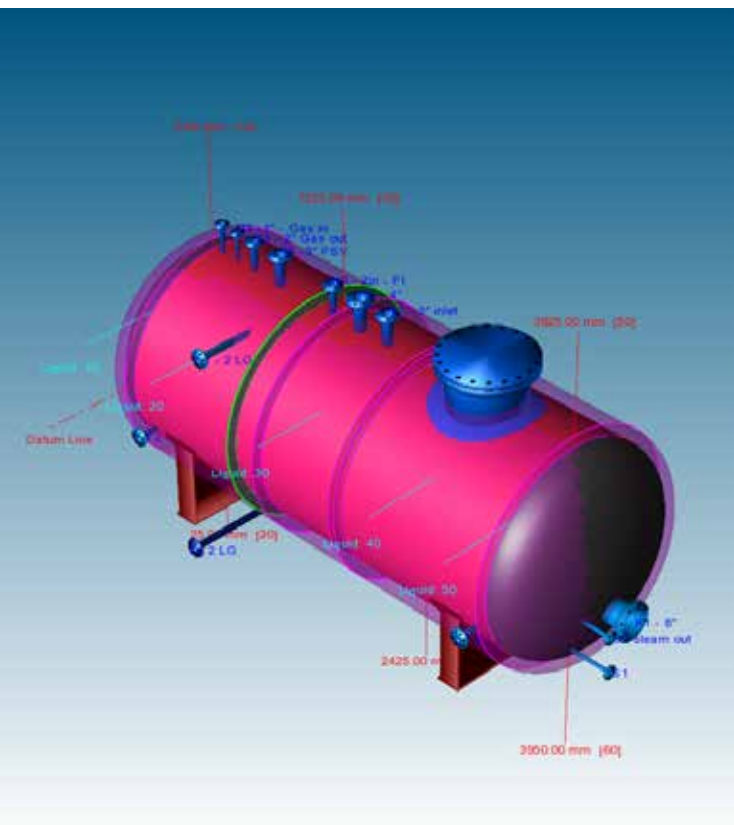
Inspections, Quality Assurance and Document Management

Fabrication quality program is based on ASME Section VIII, Division 1, Pressure Vessel Code requirements such as :

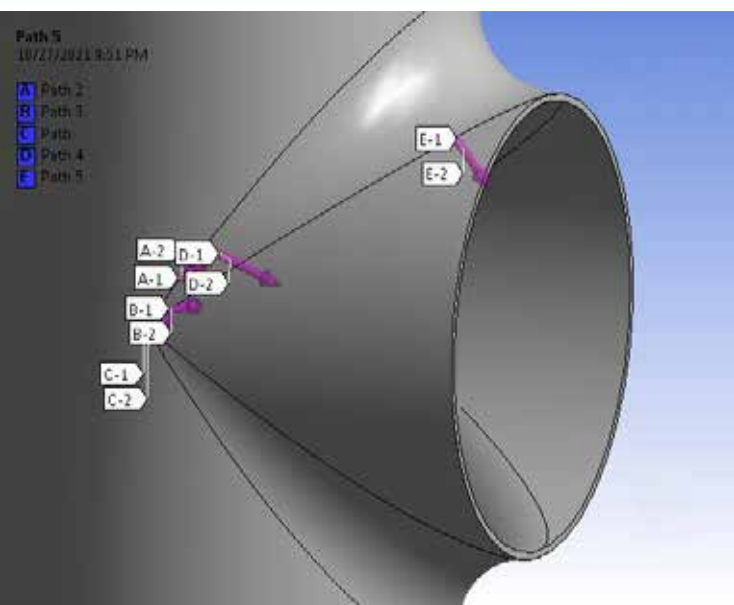
- Authorized inspector requirements
- Design engineering and drawings
- Material control
- Weld procedures, certification of welders, weld log
- Non-destructive examination
- Documentation
- Repairs and alterations in accordance with National Board Inspection Code



Engineering, **Calculation and Design**



- CAD design software 2D and 3D
- Calculation software for pressure vessels and equipment (PV-Elite)
- Software for calculation of nozzle loads (Nozzle Pro)
- Other calculations, if necessary, by external partners (design by analysis - FEA)





Catalyst Support Grid

Excellence in design

Process Technology

Engineered to Innovate

One Stop Solution Provider

Spent Caustic Treatment

Catalyst Support Grid

Packed Tower Internals



Reactor Internals

Static Mixer

Wedge Wire Screens

Liquid Diffuser & Outlet Collector

Vapor/Liquid Distributor

Separator Internals

Special Equipment

PANTAN - Your Specialist

for Mass Transfer and Separation Technologies

Engineered Smarter

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