

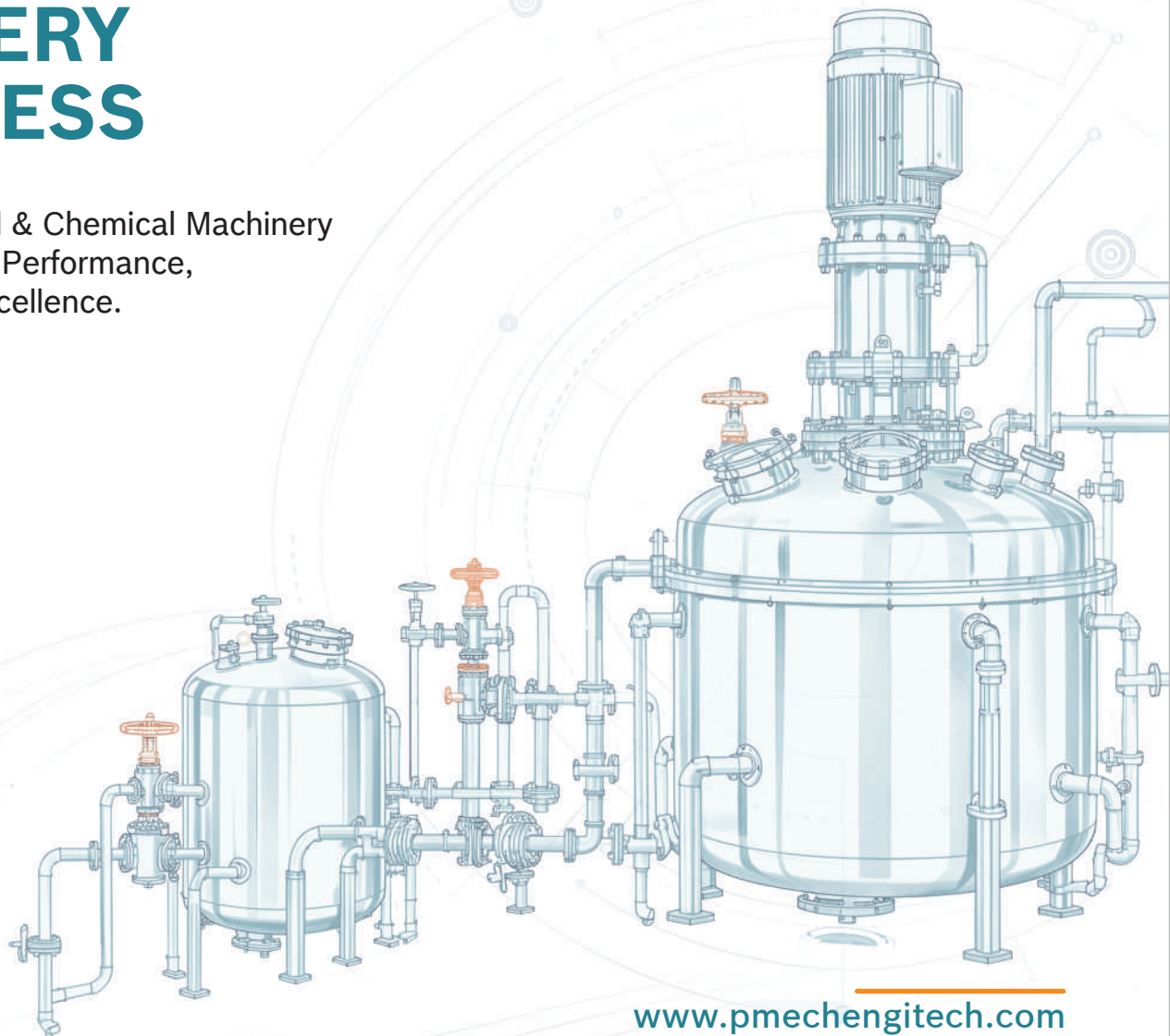


PMECH
ENGITECH PVT. LTD.

"Your Vision, Our Engineering"

PRECISION IN EVERY PROCESS

Pharmaceutical & Chemical Machinery
Engineered for Performance,
Reliability & Excellence.



www.pmechengitech.com

Established
in
2022



PMECH
ENGITECH PRIVATE LIMITED

| ABOUT US

PMECH ENGITECH PVT. LTD. is an ISO 9001:2008 company established by a team of skilled and passionate technocrats with over 10 years of experience in the industry. With the core belief that only the best can produce the best, we introduce ourselves as one of the leading manufacturers catering to a wide range of industries like pharmaceutical, bulk drug, resin, adhesive, petrochemicals, dyes, paint & Pesticides specialty and fine chemical industries.

Our aim is to make a substantial contribution to the worldwide pharmaceutical & Chemical industry and healthcare with our innovative products as we grow in the commercial market. At **PMECH ENGITECH**, our goal is to create a helpful influence on society. Our constant quest for technological superiority and firm dedication to quality demonstrate our commitment to enhancing worldwide health and promoting a brighter future for everyone.

| INFRASTRUCTURE

Our 25,000 sq. ft. manufacturing facility in Rajkot, Gujarat, India, is designed to deliver high-quality Process equipment crafted from various grades of stainless steel, special alloys such as Hastelloy, Nickel, Monel, and other exotic materials. We are equipped to produce vessels with a gross volume of up to 100,000 Liters and weights up to 25 tonnes, handling lots of domestic & International Projects on currently.



Reactors, Fermenters & Pressure Vessels

At **PMECH ENGITECH**, we design and manufacture high-performance Reactors, Fermenters, and Pressure Vessels for the API, pharmaceutical, biotech, and chemical industries. Our equipment is available in both standard configurations and custom-engineered designs, tailored to meet unique process needs. Each unit can be integrated with advanced heating and cooling systems and customized agitators, specifically designed for sanitary, antiseptic, and sterile processing environments.

Types:

- cGMP/Non-GMP jacketed or Limpet coil pre-insulated reactors.
- Single & Double Start Limpet coil type Reactor.
- Reactor With inside coil type.
- High Speed Reactor.

Features:

- Capacity from 50 liter up to the limitation of road transport.
- Design range from full vacuum up to 30 bar.
- Design Temperature from -50°C up to 300°C.
- Heating/cooling by double jacket, Single/double start limpet coil, & dimple jacketed.
- Agitator available with axial flow, radial or combined double flow.
- FAT, SAT, DQ, IQ & OQ documents.
- RPM Range 10 To 2880 RPM.
- Custom MOC options: SS304, SS316L, Hastelloy, Monel, Titanium and other materials as per process requirements.



Heat Exchanger

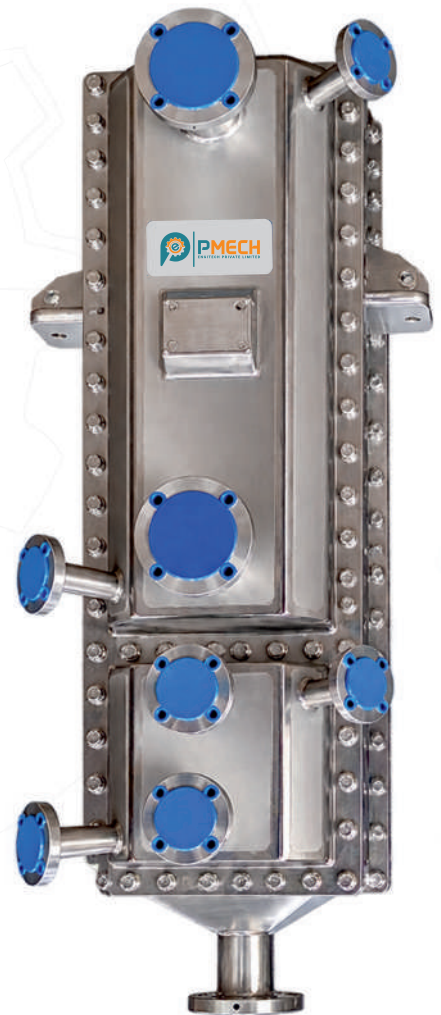
At **PMECH ENGITECH**, we design and manufacture all types of tailor-made heat exchangers to meet the specific thermal and mechanical requirements of our clients. Each unit is engineered in accordance with international mechanical design codes such as ASME, TEMA, IS, and DIN, using advanced design and simulation software.

Types:

- Shell and tube heat exchanger.
- Box type Heat Exchanger.
- Evaporators & Reboilers.
- U-bundle type heat exchanger.
- Finned type heat exchanger.
- Coil type heat exchanger.

Features:

- Versatile heat exchanger product range for various industries.
- Leakage-proof & High-quality design and construction with increased efficiency and durability.
- Availability of custom designs based on applications and specific process requirements.
- Scheduled quality assurance testing for every heat exchanger manufactured to ensure the products function properly and meet the clients expectations.
- Custom MOC options: SS304, SS316L, Hastelloy, Monel, Titanium and other materials as per process requirements.



Storage Tanks & Receivers

At **PMECH ENGITECH** designs and builds all types of tailor-made Storage tanks & Receivers, in accordance with international mechanical design codes such as ASME, IS, and DIN. Using advanced design software and following the specific technical and operational requirements of each client, we ensure precise engineering and robust performance.

Types:

- Vertical/Horizontal dishend storage tanks.
- Vertical conical roof flat bottom storage tanks.
- Storage receiver with limpet coil/jacket.
- Under Ground PESO Tanks.

Features:

- Petro Chemicals.
- Custom MOC options: SS304, SS316L, Hastelloy, Monel, Titanium and other materials as per process requirements.



Distillation & Resin Columns

At **PMECH ENGITECH**, we design and manufacture all types of distillation & Resin columns and evaporators tailored to specific process requirements. Each unit is engineered according to international mechanical design codes such as ASME, IS, and DIN, using state-of-the-art design and simulation software to ensure optimal performance, safety, and efficiency.

Types:

- Tray Type Distillation Column.
- Packed Type Distillation Column.
- Vacuum Distillation Column.
- Batch Distillation Column.
- Continuous Distillation Column.

Features:

- Chemical separation and purification.
- Concentration of liquids and heat-sensitive materials.
- Integrated with reboilers, condensers, and receivers.
- Custom MOC options: SS304, SS316L, Hastelloy, Monel, Titanium and other materials as per process requirements.



Vacuum Tray Dryer

At **PMECH ENGITECH** designs and manufactures high-quality Vacuum Tray Dryer (VTD), ideal for the drying of heat-sensitive materials that are prone to decomposition, polymerization or deterioration under elevated temperature. These dryers are widely used in the pharmaceutical, chemical, food and herbal industries for precise and contamination-free drying of products under vacuum conditions.

Inteded Use:

- Drying of bulk drugs, herbal extracts, crystals, powders, and granules.
- Ideal for materials that are oxidation-sensitive or hygroscopic.
- Used in sterile pharmaceutical processes where contamination control is critical.

Features:

- Suitable for thermal-sensitive materials.
- Drying occurs under low pressure, reducing boiling point.
- Sterilization can be performed before drying
- Designed for cGMP-compliant, cleanroom applications.
- Uniform heat distribution through radiation or conduction heating.
- Fully customizable tray size, number of trays and chamber dimensions.
- Capacity 6 tray to 96 tray.
- Custom MOC options: SS304, SS316L, Hastelloy, Monel, Titanium and other materials as per process requirements.



Air Tray Dryer

At **PMECH ENGITECH** Designs and Manufactures air tray dryer. Air tray dryer is a very precisely built equipment to extract moisture from various materials in pharmaceuticals, chemical & food stuff as well as many more other industries. It is a specially designed chamber/cabinet based dryer which works hot air circulation.

Types:

- Electrically Heated Tray Dryer.
- Steam Heated Tray Dryer
- Combined Electrical & Steam Heated Tray Dryer.

Features:

- Designed for batch drying of powders, granules, herbs, and more.
- Equipped with electrical or steam-based heating systems.
- Ensures uniform air circulation using axial or centrifugal fans.
- Adjustable temperature and time controls for flexible operation.
- Constructed using GMP-compliant materials for hygienic applications.
- Double-walled insulated chamber to minimize heat loss.
- Can be integrated with HEPA filters for sterile environments.
- Capacity 4 tray to 192 tray.
- Custom MOC options: SS304, SS316L, Hastelloy, Monel, Titanium and other materials as per process requirements.



| *Blender*

At **PMECH ENGITECH** Designs and Manufactures blender. Blender is an efficient and versatile blending machine for mixing dry granules homogeneously. It is suitable for pharmaceuticals, chemical, Pesticides and cosmetic product industries.

Types:

- V-Blender.
- Double Cone Blender.
- Octagonal Blender.
- Ribbon Blender.
- Bin / Conta Blender.

Features:

- Capacity 10 Liter To 5000 Liter.
- Suitable for quick and efficient mixing of powders, particulates, and granules.
- Homogeneous mix with gentle tumbling action and specially designed baffle.
- Easy material charging through S.S. bins.
- S.S. octagon body with rectangular central portion top and circular bottom with butterfly valve.
- Limit switch for safety.
- Standard /cGMP model with documentation (IQ, DQ, PQ, OQ) as an option.
- Custom MOC options: SS304, SS316L, Hastelloy, Monel, Titanium and other materials as per process requirements.



Nutsche Filters

At **PMECH ENGITECH** designs and manufactures a comprehensive range of Nutsche Filters for batch processing applications across the pharmaceutical, dye, chemical, and pesticide industries.

Nutsche Filters are designed to efficiently separate solids from liquids in a closed system under vacuum or pressure conditions, ensuring safe, reliable, and efficient processing.

we focus on delivering application-specific Nutsche Filter solutions tailored to your process requirements, material characteristics and industry standards.



Types:

- Pressure Nutsche Filter (PNF)
- Vacuum Nutsche Filter (VNF)

Features:

- Suitable for handling hazardous, toxic, flammable and corrosive materials with appropriate design and safety provisions.
- A single unit can perform multiple operations including filtration, cake washing and in suitable configurations, chemical reactions.
- Capacity Range Available from compact laboratory-scale models to large industrial units designed to handle high slurry volumes and thick filter cakes.
- Standard /cGMP model with documentation (IQ, DQ, PQ, OQ) as an option.
- Custom MOC options: SS304, SS316L, Hastelloy, Monel, Titanium and other materials as per process requirements.



| Our Valuable Clients





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SCAN TO
EXPLORE OUR CAPABILITIES



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