



**SAIRAM ENGINEERS**



• **DESIGN & MANUFACTURERS OF** •

## **PROCESS EQUIPMENTS & TURNKEY PROJECTS**

Ribbon Blender | Reactors | Storage Tank | Silo | Mixing Tank | Heat Exchanger  
Pressure Column | Condenser | Screw Conveyor | Underground Tank  
Limpet Reactor | Limpet Vessel | Jacketed Reactor

### Welcome To Sairam Engineers

Established with a vision to deliver excellence in engineering solutions, Sairam Engineers has emerged as a trusted name in the industry. We specialize in the design, manufacturing, and supply of high-quality industrial equipment and components tailored to meet the diverse needs of our clients. Our commitment to innovation, precision, and reliability has positioned us as a preferred partner across various sectors.

We are dedicated to meeting and exceeding customer expectations by delivering high-quality products tailored to their specific needs. Our commitment to excellence is reflected in every stage of our operations—from design and production to delivery and support.

At Sairam Engineers, we uphold strong ethical business practices and maintain complete transparency in all our dealings. We believe in building long-term, trustworthy relationships with our clients by consistently providing reliable solutions and exceptional service.



### Our Mission

To dedicate ourselves in achieving success for our clients, employ our industry-wide experience and expertise, and offer the highest quality of solutions to become the leading choice of our clients.

### Our Vision

To become the world's leading manufacturing company admired by his core values, innovations, and customer-oriented solutions.

## From Director Desk :

At Sairam Engineers, our journey has always been fueled by a passion for innovation, precision, and quality. Since our inception, we have committed ourselves to delivering engineering excellence through robust solutions that cater to the evolving needs of our clients.

We believe that true progress lies in continuously improving and adapting to the latest technologies while maintaining our core values of integrity, commitment, and customer satisfaction. Our team of dedicated professionals strives to uphold these values in every project we undertake.

As we move forward, we remain focused on expanding our capabilities, nurturing long-term partnerships, and delivering value-driven solutions that make a difference. Thank you for your trust and continued support.



### Key Features & Benefits :

- Versatile Mixing
- Homogeneous Mixing
- Efficient Design
- Gentle Operation
- Customizable Blades
- Wide Industry Use
- Flexible Configurations
- Enhanced Functionality Options
- User-Friendly
- Reliable Performance

## Reactors :

Reactors are essential vessels used in chemical processing industries to carry out controlled chemical reactions. Typically made from stainless steel, carbon steel, or special alloys, they are designed to withstand pressure, temperature, and corrosive environments. Reactors come in various types such as batch, continuous stirred tank reactors (CSTR), plug flow reactors (PFR), and packed bed reactors, each suited for specific applications.

Key features include agitators for uniform mixing, jackets or coils for heating or cooling, and instrumentation for monitoring parameters like pressure, temperature, and pH. In industries like pharmaceuticals, chemicals, petrochemicals, and food processing, reactors play a critical role in synthesizing products efficiently and safely.

### Technical Specification :

Material used for reactors	316 stainless ,304 stainless and MS.
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### Key Features & Benefits :

- Material Construction
- Multiple Types
- Efficient Mixing
- Thermal Control
- Process Monitoring
- Industry Versatility
- Design Optimization
- Automation Ready
- Nuclear Applications
- Safety Focus



### Key Features & Benefits :

- Durable Construction
- Wide Range of Types
- Versatile Applications
- Custom Capacity & Design
- Corrosion Protection
- Compliance with Standards
- Safety Features
- Precision Manufacturing

## Ribbon Blender :

Ribbon Blender is mostly used for Plastic, Pharmaceutical , Chemical, Paints and Food Industries.

The Ribbon Blender does homogenous mixing of powder and semi wet material of different densities.

The ribbon blades of different designs are used to suit the need of different material. The blender consist of a semi-cylindrical shell inside which rotates a shaft fitted with spiral inner and outer ribbons.

### Technical Specification :

Available size	100 Ltr. To15000 Ltr.
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## Storage Tank :

We manufacture and supply a various range of storage vessel. That find application in various industries. These pressure vessels are steel reaction vessels manufactured using quality raw material and latest technology, that ensure in them excellent durability and efficiency.

A storage tank is a large container designed to hold liquids, gases, or other materials for short- or long-term storage. Commonly used in industries such as oil & gas, chemical processing, water treatment, and food production, these tanks are vital for operational efficiency and safety.

### Technical Specification :

Available size	100 Ltr. To15000 Ltr.
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## ▶ Key Features & Benefits :

- Premium Material Options
- Bulk Storage Capability
- Variety of Types
- Efficient Material Handling
- High Strength & Durability
- Versatile Applications
- Hygienic & Easy to Clean
- Optimized Loading & Unloading

## ◆ Silo :

We offer a wide range of storage silos made from different types of stainless steel. We use stainless steel 304 (L) and 316 (L), duplex, super duplex, depending entirely on the customer's needs. Stainless steel is a very strong and maintenance-friendly material. Cleaning the silo is well possible with this material and it is highly resistant to various weather conditions and mechanical damage. Silo used to storage of bulk quantity material.

A silo is a large, vertical structure used for storing bulk materials such as grains, cement, fly ash, plastic pellets, or other powders and granular substances. Silos are commonly used in agriculture, food processing, chemical, and manufacturing industries.

They come in various types, including tower silos, bunker silos, and bag silos, depending on the application and storage needs. Constructed from materials like steel, concrete, or fiberglass, silos are designed to provide protection from moisture, contamination, and spoilage.

## ◆ Mixing Tank :

We manufacture pharmaceutical and chemical mixing tank. Our tanks are widely used in mixing vessel, chemical, glue, resin, silicone, sealant, food, gum candy, cosmetics and many more. A quality standards and are greatly appreciated in a variety of different markets. Mixing tanks are manufacture as per requirements.

A Mixing Tank is an essential industrial container used to blend, mix, or combine various liquids, powders, or chemicals to achieve a homogeneous mixture. These tanks are commonly used in industries such as pharmaceuticals, food and beverages, chemicals, cosmetics, and wastewater treatment.

Constructed from materials like stainless steel, mild steel, or plastic, they are available in a range of capacities and configurations depending on the application.



## ▶ Key Features & Benefits :

- Versatile Applications
- Durable Construction
- Enhanced Process Control
- Hygienic Design
- Custom-Built Designs
- Efficient Mixing
- Pressure & Vacuum Compatibility
- Wide Capacity Range



## ▶ Key Features & Benefits :

- Proven Design
- Efficient Heat Transfer
- Material Flexibility
- Customizable Designs
- High-Pressure Capability
- Versatile Tube Configurations
- Wide Industry Applications
- Energy Efficient

## ◆ Heat Exchanger :

The shell and tube heat exchanger is a class of heat exchanger designs. It is the most common type of heat exchanger in oil refineries and other large chemical processes, and is suited for higher-pressure applications.

A heat exchanger is a mechanical device designed to efficiently transfer heat between two or more fluids—liquid, gas, or both—without mixing them. It plays a vital role in various industries such as HVAC, power generation, chemical processing, refrigeration, and automotive systems.

The primary objective of a heat exchanger is to either heat or cool a fluid by utilizing the thermal energy of another.

Common types include shell and tube, plate, air-cooled, and finned tube heat exchangers. Materials used depend on application needs and include stainless steel, copper, aluminum, and titanium.



## ◆ Pressure Column :

We manufacture and supply a various range of pressure column .The pressure on a fluid column is the greatest at the bottom of the container that the fluid is stored in. The volume of fluid exerts pressure at the bottom of everything underneath it, and this pressure always falls perpendicular at any specific point of the fluid.

A Pressure Column is a vertical vessel used in industrial processes, particularly in chemical, petrochemical, and refining industries, for distillation, absorption, or stripping operations under pressure. It is designed to withstand internal pressures greater than atmospheric pressure, enabling more efficient separation of components with close boiling points. The column is typically constructed from high-grade stainless steel or alloy materials to resist corrosion and high temperatures.

Inside the column, trays or packing materials are installed to enhance contact between vapor and liquid phases, improving mass transfer efficiency. Operating under pressure allows the system to reduce equipment size and energy consumption while achieving high-purity separation.

### ▶ Key Features & Benefits :

- High-Pressure Capability
- Robust Construction
- Energy & Space Efficiency
- Custom-Engineered Designs
- Industrial Applications
- Efficient Separation
- Safety Features
- Versatile Performance

## ◆ Condenser :

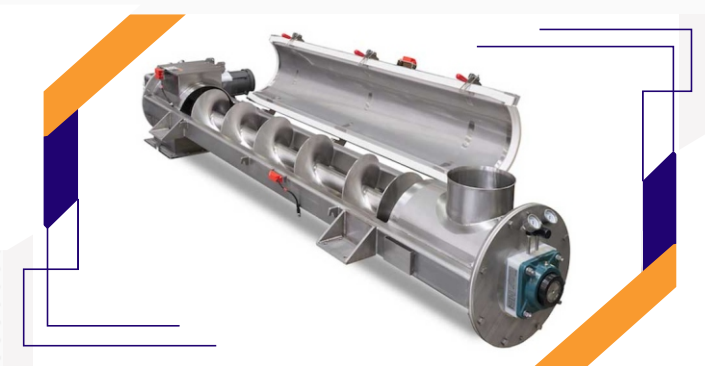
Condenser is heat exchanger which have various design and come in many sizes ranging from rather small to very large industrials-scale units used in plant processes. Condenser is mostly used for condensation of vapors in distillation process. Its mounting can be horizontal or vertical. In system involving heat transfer, condenser is a device or unit used to condense a substance from its gaseous to its liquid stage by cooling it.

A condenser is a crucial component in thermal systems used to convert vapor (typically steam or refrigerant) into liquid by removing heat. It functions based on the principle of heat exchange, where the vapor passes through tubes or coils and is cooled by air or water flowing around it.



### ▶ Key Features & Benefits :

- Efficient Phase Change
- Multiple Configurations
- High Thermal Conductivity
- Enhanced Power Plant Efficiency
- Versatile Applications
- Flexible Mounting
- Industrial Scalability
- Durable & Corrosion-Resistant



## ◆ Screw Conveyor :

U -through screw conveyors are ideal for horizontal or slightly inclined runs where product containment/sterility is not critical. Simple and robust in design, with easy access for routine , maintenance ,U through screw conveyer provide cost-effective, Versatile conveying capability for the widest range of bulk solids handling applications.

A Screw Conveyor is a mechanical device used to transport bulk materials horizontally or at a slight incline. It consists of a helical screw blade, known as a flighting, mounted on a rotating shaft within a tube or trough. As the screw rotates, it pushes material along the conveyor.

Screw conveyors are ideal for handling a variety of materials, including grains, cement, food waste, and more, making them suitable for industries like agriculture, manufacturing, and food processing.

### ▶ Key Features & Benefits :

- Versatile Material Handling
- Robust Construction
- Enclosed & Dust-Free
- Easy Maintenance
- Flexible Configurations
- Cost-Effective Solution
- Customizable Design
- Handles Varied Material Types



## ◆ Underground Tank :

Our company specializes in the design, manufacturing, and installation of high-quality underground tanks, tailored to meet diverse storage needs across residential, commercial, and industrial sectors. Engineered with precision, our underground tanks are built using durable materials such as RCC, HDPE, or FRP, ensuring long-term performance, structural integrity, and corrosion resistance.

These tanks offer space-efficient, secure, and environmentally compliant solutions for storing water, fuel, chemicals, and wastewater. With a focus on safety, customization, and regulatory compliance, we provide end-to-end support from consultation to commissioning.

An underground tank is a storage container installed below the earth's surface, commonly used for storing water, fuel, chemicals, or wastewater. These tanks are typically made from materials like reinforced concrete, polyethylene, or fiberglass, offering durability and resistance to corrosion.

### ▶ Key Features & Benefits :

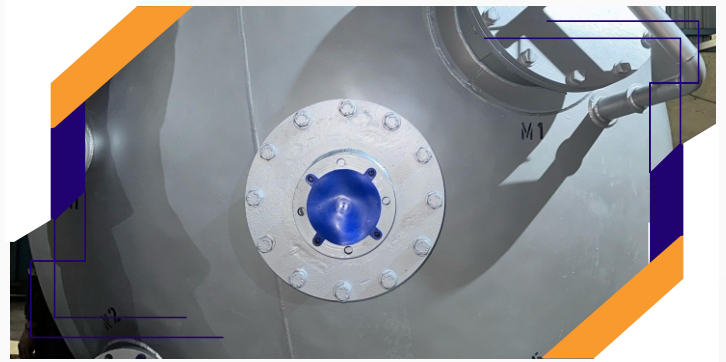
- High-Pressure Capability
- Robust Construction
- Energy & Space Efficiency
- Custom-Engineered Designs
- Industrial Applications
- Efficient Separation
- Safety Features
- Versatile Performance

## ◆ Limpet Reactor :

We specialize in manufacturing and supplying high-performance Limpeted Reactors designed for efficient heat transfer and temperature control during chemical processing.

Our reactors are equipped with robust external limpet coils (half-pipe or full-pipe) for effective heating or cooling using steam, hot oil, or chilled water. Engineered from premium-grade materials like SS304, SS316, or carbon steel, our reactors ensure corrosion resistance, durability, and compliance with industrial standards.

A Limpet Reactor is a type of chemical reactor widely used in industries such as pharmaceuticals, chemicals, and petrochemicals. It features a jacketed or external coil design, commonly referred to as a "limpet coil," which is welded to the outer wall of the main vessel.



### ▶ Key Features & Benefits :

- Efficient Temperature Control
- Durable Construction
- High Thermal Conductivity
- Enhanced Power Plant Efficiency
- High Thermal Efficiency
- Versatile Applications
- Industrial Scalability
- Durable & Corrosion-Resistant



## ◆ Limpet Vessel :

We specialize in the design and manufacturing of high-performance Limpet Coil Vessels, engineered for efficient heat transfer in various industrial processes. Our vessels are widely used in industries such as chemical processing, pharmaceuticals, food and beverage, petrochemicals, and dyes & intermediates.

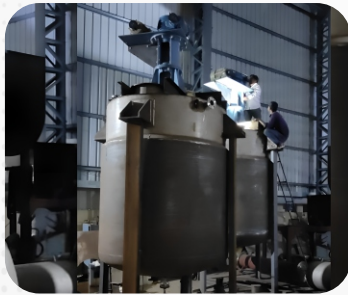
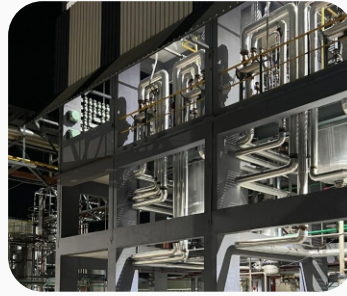
These vessels are equipped with external or internal helical coils (limpet coils) that allow precise temperature control using steam, hot oil, or chilled water circulation. The limpet coil design ensures uniform heating or cooling, which is crucial for temperature-sensitive reactions.

A Limpet Coil Vessel is a specialized type of pressure vessel equipped with external coils, known as limpet coils, which are used for heating or cooling the vessel's contents. These coils are typically welded to the outer surface of the vessel and allow fluids such as steam, water, or thermal oil to circulate, providing temperature control during chemical or industrial processes.

### ▶ Key Features & Benefits :

- Versatile Material Handling
- Robust Construction
- Enclosed & Dust-Free
- Easy Maintenance
- Flexible Configurations
- Cost-Effective Solution
- Customizable Design
- Handles Varied Material Types

# GALLERY



## Our Clients



MALVE CHEMICALS (INDIA) PVT. LTD.



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SOLVENTS



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BIOCYLL

**THERM-X**  
THE TEMPERATURE SPECIALISTS



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SAINT-GOBAIN



& Many More...



SAIRAM ENGINEERS

### CONTACT US

- +91 9923312021
- sales@sairamengg pune.com [www.sairamengg pune.com](http://www.sairamengg pune.com)
- Address: Sairam Engineers, Midc Sector No 10 Plot No 211, Bhosari, Pune - 411026, Maharashtra, India



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