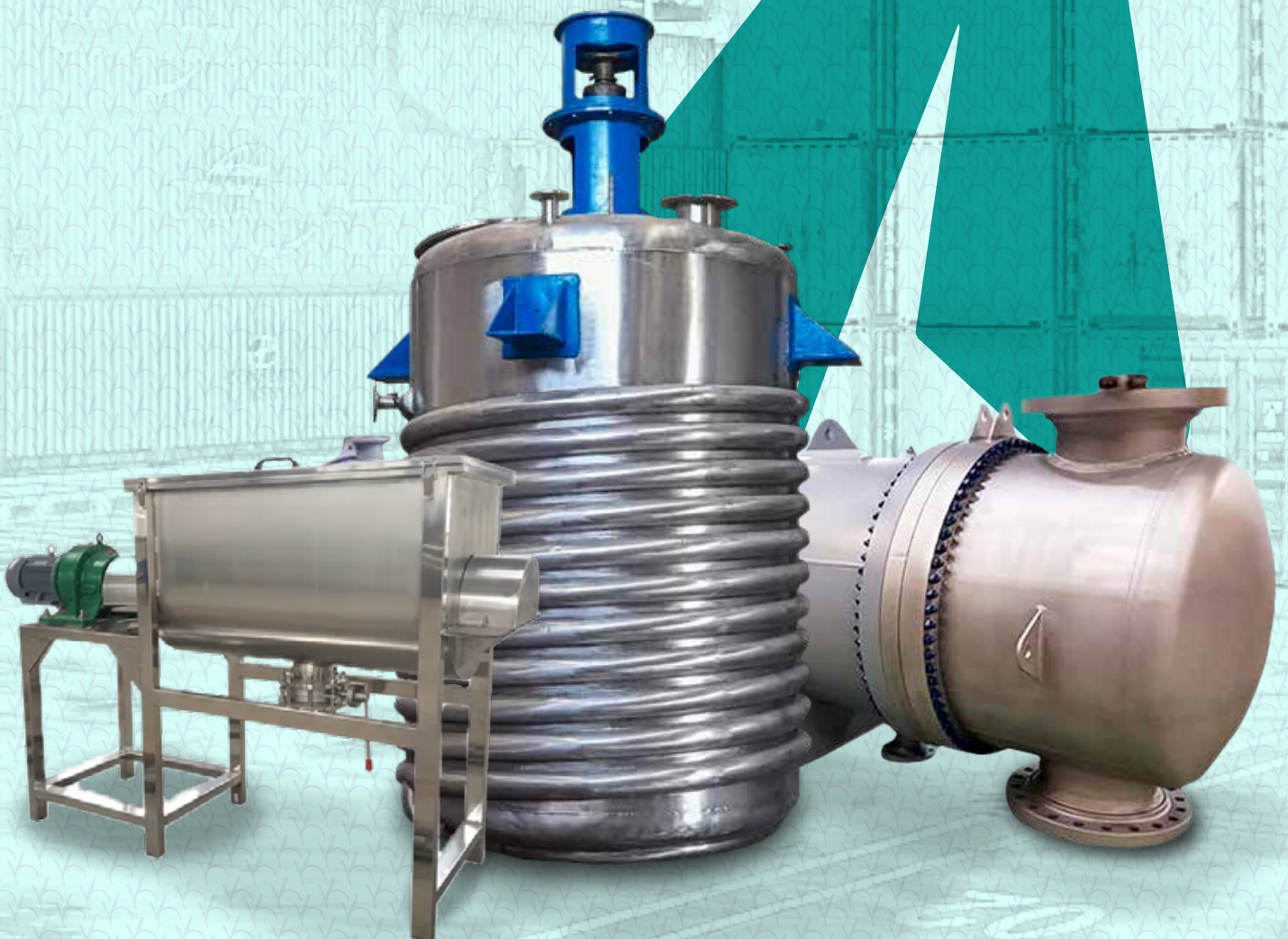




**Kamaksha**  
INTERNATIONAL

**Supplier & Exporter**  
of A Wide Range Of Industrial Machineries





## ► **About us**

Kamaksha International is in the field of Suppling & Exporting of high-quality machinery & equipments tailored to the unique needs of the Chemical, Pharmaceutical, Food, cosmetic, Rubber, Lubricant Industries.

Our Product range includes Reaction vessels (50 Litre To 50,000 Litre), Jacketed Vessels, Limpet coil Vessels, Condenser & Heat Exchanger (1sq meter to 200 sq. meters), Storage tank, Ribbon Blender, Ball Mill and Resin plant. We undertake turnkey project for Alkyd Resin Plant, Polyester Resin Plant.

We also undertake development of various equipments as per customers drawing, design and specifications.

## ► **Our mission**

Our mission is to provide top-tier products that meet the highest standards of quality and reliability. We aim to create value for our clients through innovative solutions and dedicated customer service, ensuring that we exceed expectations at every opportunity.

## ► **Our Vision**

Our vision is to be a pioneering force in Engineering field, setting benchmarks for quality, reliability, and innovation. We aim to expand our global footprint while maintaining the highest standards of integrity and professionalism.

**“Unlock Potential, Achieve Success”**

01

# SODIUM SILICATE VESSEL



- ▶ The sodium silicate reactor is primarily used in the manufacturing process of sodium silicate, also known as water glass.
- ▶ It facilitates the reaction between sodium carbonate (soda ash) and silica sand (silicon dioxide) in the presence of water to produce sodium silicate solution.
- ▶ The reactor typically operates at high temperatures and pressures to optimize the reaction kinetics and yield of sodium silicate.
- ▶ Once the reaction is complete, the resulting sodium silicate solution can be further processed or used directly in various industrial applications such as detergents, adhesives, coatings, and as a binder in foundry molds.

# LIMPET COIL VESSEL



- ▶ In limpet coil reactor, half pipe is welded on shell to provide steam, thermic fluid circulation etc.
- ▶ This limpet coil can be made of Mild steel or Stainless steel as per the application of the user.
- ▶ The design of Limpet coil can be of two type .i.e. Single Pass or Double Pass.



# OPEN REACTION VESSEL



- ▶ OPEN REACTION VESSEL are manufactured using mild steel or stainless steel as per the requirement of our customers.
  - ▶ These products are available at competitive market prices.
  - ▶ These product are fully tested hydraulically by our experts, to ensure high standards of quality.
  - ▶ These products are known for their unique design and dimensional accuracy.
- Drive:**
- ▶ Complete drive unit consist of tapered Roller Bearing, Bearing Housing with bearing, Flexible coupling Stufng, Box with gland pulling arrangement, Lanturn Bottom tripod with teflon bush.

# JACKETED VESSEL



- ▶ In Jacketed reactor, a jacket is welded on the shell to provide steam, thermic fluid circulation etc. This jacket can be made of Mild steel or Stainless steel as per the application of the user. The design of jacket can be of two type i.e. Single stage or Double stage. A stiffener is welded on shell to withstand the pressure developed in the jacket and it also helps in proper distribution of steam and oil.
- ▶ Reaction vessel drive is specially designed for Maintenance and trouble Free Performance. The drive consists of Bearing Housing with TOP Tapered Roller Bearing for High Accuracy and resistance to impact load & vibratory load and tapered roller Bearing at the bottom for smooth rotation. Stuffing Box is provided with Jacket for cooling arrangement to give long life to Gland rope. Gland pusher is provided with Gunmetal Bush Bearing thus ensuring Minimized Friction giving longer life to the Gunmetal Bearing. Bearing Housing and Lentern Assembly are steel Fabricated made from M.S. Plates of suitable strength.
- ▶ Reaction vessel consist of stirrer, these stirrer are of different type depending upon the application. Anchor type stirrer, paddle type stirrer, propeller type stirrer, turbine type stirrer, gate type stirrer depending on the application of use.

# RESIN MANUFACTURING PLANT MACHINERY



- ▶ We offer a wide range of alkyd resin plant, long oil alkyd resin plant etc. that is used mainly in the manufacturing of the enamel paints. We can offer long oil, medium & short oil. We manufacture resin plant from 50 liters to 20 ton, batch on solid base. We also have the facility to offer multipurpose oil alkyd resin plant and long oil alkyd resin plant where in the plant can run on solvent process or by fusion process.
- ▶ The Finished product of alkyd is double than the solid base 50% solution. If the plant is 5 ton capacity; the finished product will be 7.5 ton to 10 ton depending on percentage of solid base.
- ▶ Raw Materials which are used Pthalic anhydride, Penta, Oil / DCO (dehydrated cast oil; sunflower or soya oil). Rosin, lithium hydroxide etc



# BALL MILL



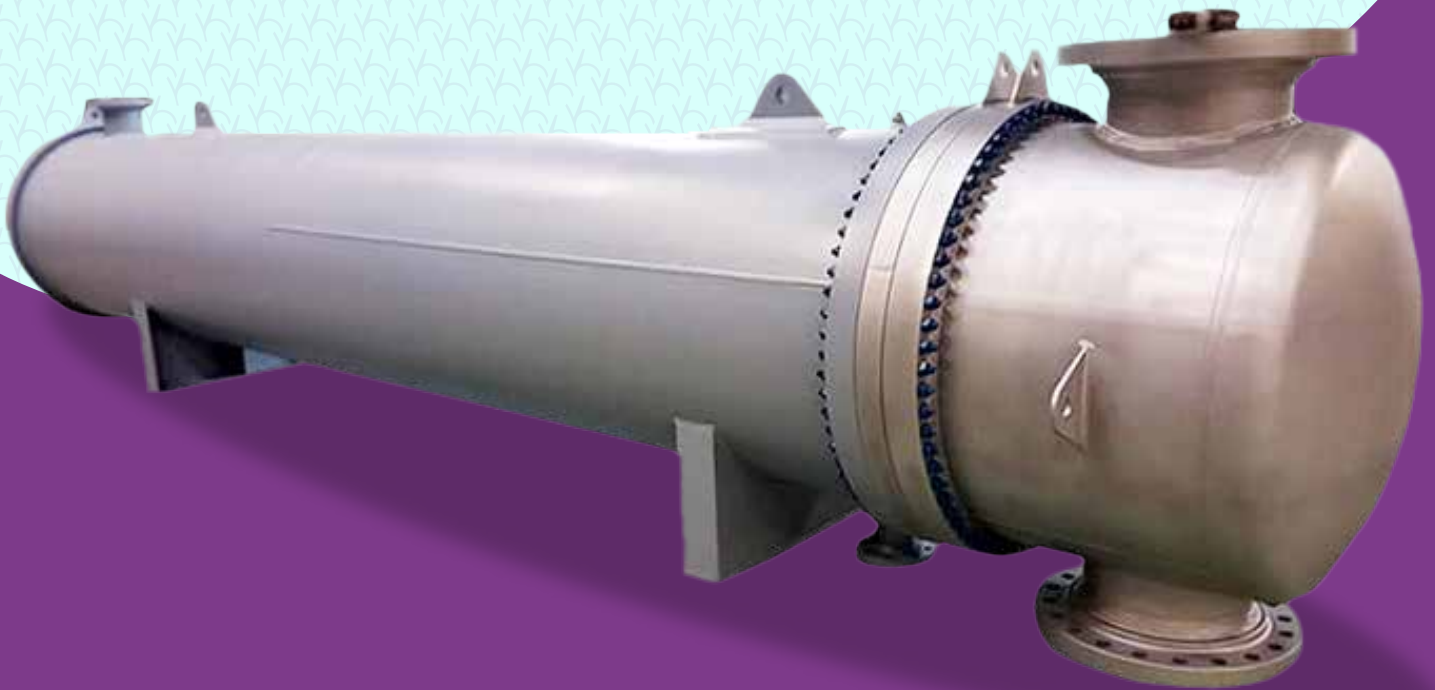
- ▶ Ball Mills offered is suitable for dry and wet grinding of colors and paints and can be provided in different working capacities and specifications.
- ▶ As a cylindrical device, it is preferred for grinding/mixing of material like chemicals, ores, enamels & primers, powder distempers and cement paints. Further, acting as grinding machine, it helps in bringing reduction in sizes of particles. Available in different working capacities, it is ideally suited for grinding and reducing size of feldspar, quartz, China clay for formation of slurry in ceramic industry.

## **Applications:**

- Pharma Industry
- Food Industry
- Ink Industry
- Construction Industry
- Chemical Industry
- Resin Industry
- Cosmetic Industry



# TUBE HEAT EXCHANGER



- ▶ Condenser is a device or unit used to condense a substance from its gaseous to its liquid state, typically by cooling it.
- ▶ In so doing, the latent heat is given up by the substance, and will transfer to the condenser coolant.
- ▶ Condensers are typically heat exchangers which have various designs We strategically design and manufacture a wide range of heat exchanger and condenser.
- ▶ The capacity ranges from 1sq meter to 200 sq. meter.

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# RIBBON BLENDER



## Application

- ▶ Ribbon Blender is widely used to mix pharmaceuticals, foods, chemicals, fertilizers, plastics, pigments, cosmetics, etc powde materials

## Working Principle of Ribbon Blender

- ▶ Ribbon Blenders consist of a U-shaped horizontal trough and a specially fabricated ribbon agitator. A ribbon agitator consists of a set of inner and outer helical agitators. The outer ribbon moves materials in one direction and the inner ribbon moves the materials in the opposite direction. The ribbons rotate and moves materials both radially and laterally to insure thorough blends in short cycle times. Ribbon agitators are used for blends that will be between 40 and 70% of the rated) capacity of the blender.
- ▶ The agitator rotates with minimum wall clearance in a U-shaped vessel. The mixing rotor consists of an inner and outer ribbon which effects a counter flow mass movement with random motion in radial and axial directions.

# TRAY DRYER



- ▶ A tray dryer is a type of drying equipment used in various industries to remove moisture from materials or products. It consists of a series of trays or shelves stacked vertically within an enclosure. The trays are usually perforated to allow air to circulate freely.

# STORAGE TANK



- ▶ We fabricate Storage Tank from 500 Liter to 75,000 Liter.
- ▶ Storage Tank can be made of Mild Steel or Stainless Steel as per application of the user.





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