



PENTASHIVA INFRAVENTURES PVT. LTD.

An ISO 9001:2015 Company | CIN: U45309DL2018PTC330315

IN ASSOCIATION WITH



AN ISO 9001-2015 COMPANY

Serving the Dairy, Fruit & Vegetables, Grain processing & Packaging, and Edible Oil Packaging through Technology and Quality Assurance



About Us

Company Overview

PENTASHIVA INFRAVENTURES PVT. LTD. provide full suite of services from concept to commissioning which includes design engineering, and services. We offer comprehensive EPC projects on turn key basis and provide consultancy in sector such as Infrastructure, Agriculture, healthcare, Energy & Power, Information Technology

ZEUZER INDIA has a 21 years of vast experience in serving the dairy and food industries through scientific innovation and technology. They provide custom made solutions to our clients, with latest technology and expertise, for fulfilling their requirements. We are leading among the very few process manufacturing companies that manufacture own plates for Plate Heat Exchangers (PHE) which meets ISO 9001:2008 TUV certified system standards.

“We are a dairy processing machine manufacturer, aims at total customer satisfaction through quality manufacturing, efficient service, time bound commitments and cost effective technology.”

- Holistic approach
- Have highly qualified engineers and trained staff
- Cater to all almost all needs of dairy industry
- Our products are highly energy efficient, enhancing more savings
- Work within quality standards and sure that policy is understood and implemented at all levels.

Mission & Values :

We believe in doing sustainable engineering in the right way. We aim to propagate the brand in a way to provide complete solutions in dairy manufacturing industry by enhancing the customer satisfaction.

We are committed in supplying in right quantities, the quality products, time bounded, efficiently and effectively.

OUR SERVICES

- Total engineering and design solutions to any process industry from conceptual stage to Commissioning as per global standards.
- Our Team ensures you with efficient and safe erection and commissioning of plant. Our
- service engineers will make sure that your operators are trained properly for handling the
- machine.
- Our service team are highly qualified, that they will give same level of care, precision and responsibility that we apply to our manufacturing.
- We help our customer in boosting their production capacity or reducing energy consumption. We also do introduction of new equipment and technology for our clients.
- We understands customer challenges and requirements at every step during the project.
- We provide turnkey projects, right from problem analysis, suitable plant layout and equipment finalization as per the process and also installation to commissioning of the project which guarantees the smooth and trouble-free operation of your plant, as
- a whole.
- Our standard spare parts are available at short notice. The materials used being from stainless steel 304/316 and titanium (Special application).

QUALITY ASSURANCE

- Striving for total customer satisfaction through rigid quality assurance at each stage.
- Stringent inspection of materials from reception, fabrication and finishing stages.
- Rigorous adherence to quality through procedures and operational manuals.
- Testing facilities with pressure testing up to 6 to 8 kg/cm², chemical analysis are in place. In-house facilities for special testing specified by customers and provision of customer support through R&D.
- Sophisticated inspection facilities for hydraulic testing of any specification from the customer. Availability of all the equipment of optimum ratings required for any chemical process industry.

A. Turnkey Projects

Our main expertise in the dairy processing industry has made us capable in manufacturing, supplying and designing of processing equipments and lines for the processing of raw milk and its bi-products such as ghee, butter, ice-cream, yogurt, Greek yogurt, paneer/cottage cheese, milk powder and condensed milk by meeting all the needs of the customer and their demand for the products as per market requirement. We design the plant with efficient utilization of energy, where the product losses and energy losses are considered. We design the plant with hygiene, food safety and quality standards.



B. Automation

We know how to optimize your process in smart production control. We provide our customer with total control of plant operations in all the sections of the dairy industry by achieving top performance with our complete automation solutions.

When it comes to food industry, hygiene is the most important part to be considered.

Our automation solution not only helps you in achieving the performance of the plant operations and adding value to the production, but also helps in enhancing your quality standards in your products.



C. After sales services

The services we provide is for both product and turnkey project for a complete new start up dairy who is looking for an opportunity to grow in the food industry. We give you our complete support by installing and commissioning of the plant as well as training services to your operators for operating the dairy plant by maintaining the dairy standards and quality of your product.

The following services we provide to our customers:

- design and installation of the plants
- spare parts
- expertise solutions
- expansion of plants
- training services
- technology support



Products:

1. Processing Plant

HTST (high temperature short time) processing plant is designed as per the customer requirements for their standardization of milk. It is the simplest process to pasteurize the whole milk by killing the unwanted micro-organisms and bacteria without any damaging on product. The consumers can use the pasteurized milk for their milk products made from milk and cream, even the cultured products are included in this for the better shelf life.



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Salient Features:

- Low Fouling
- Cost Effective
- Corrosion Resistant
- High Heat Transfer Coefficient
- Regeneration Efficiency: 90-93%
- Easy Maintenance

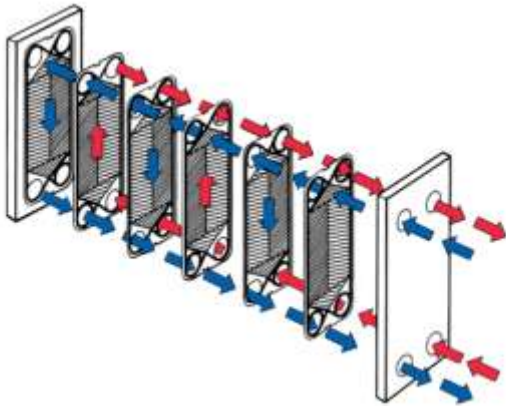
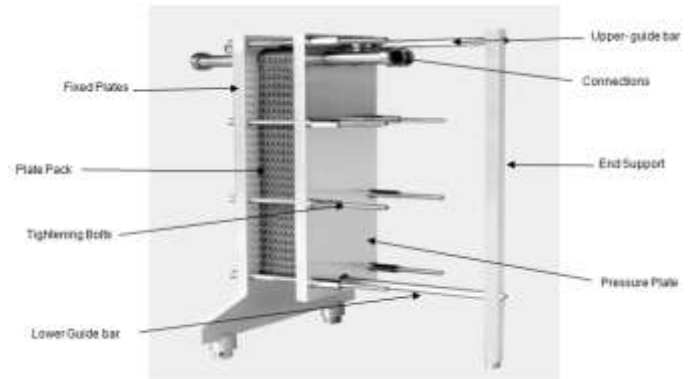


2. Plate Heat Tube Exchanger

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Construction:

- Pressure Plate & Frame Plate
- Plate Pack
- Gasket
- Carrying Bars
- Tightening Bolts
- End Support
- Connections



3. Heat Transfer Plates

Plates are designed to achieve the efficient heat transfer area and corrugated patterns which ensures increase in strength. Furthermore, the corrugation creates high turbulence and thereby achieve high heat transfer coefficient. The fouling factor in the plates are also less. The plate consists of passage hole on each corner and it is tight-sealed with a gasket fitted in its peripheral groove.



4. Tubular Heat Exchanger

We supply tubular heat exchanger with corrugated tubes or straight. It is manufactured with fully welded design, smaller diameter corrugated tubes aligned in parallel within a larger diameter outer shell. Because of the number of tubes within a shell, this design maximizes heat transfer surface in a given volumetric space. It is suited for heating or cooling of lower viscosity products or products like juice cells or pulp in this regeneration is indirect.



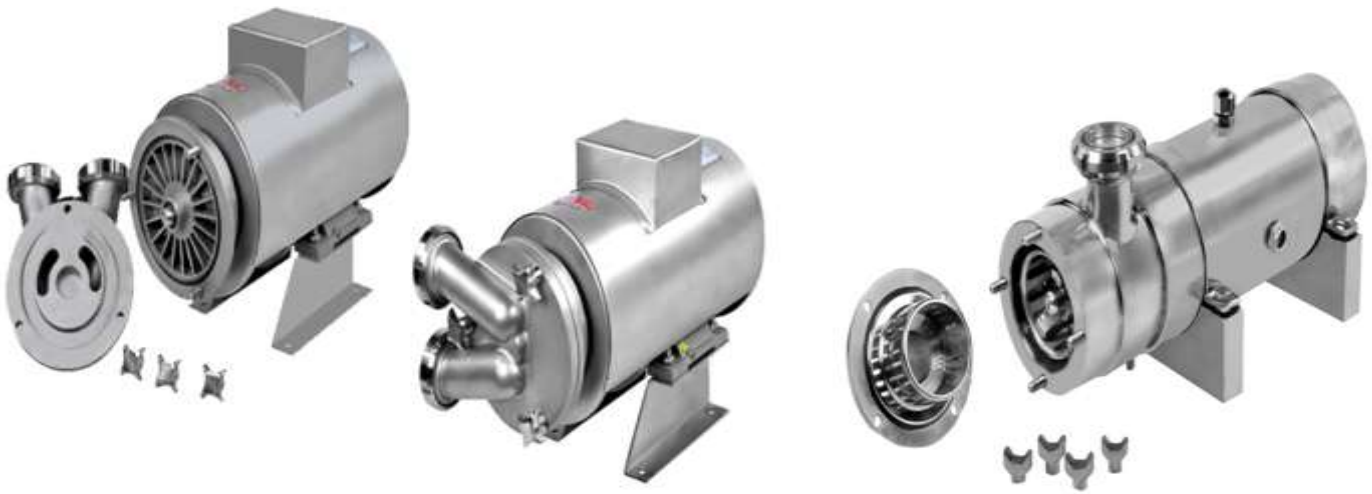
Salient Features:

- High Efficiency
- Optimum Heat Transfer Area
- Optimized Heat Recovery
- Increases Turbulance Flow
- Easy Maintenance
- Cost Effective

Application: Dairy and Beverage Industry

1. Pumps

Pumps covers wide range of applications in dairy, food, beverages, sugar/confectionery, brewing, alcoholic & non-alcoholic, chemicals and pharmaceuticals. The pump is designed as per the application bases of product for transfer, evaporation, inline mixing, filtration, extraction, heating, fermentation, bottling and cip.



Applications: Dairy, Beverages, Food Industry, Chemical & Pharma Industry

Features :

- Casing and Front Cover
- Impellers
- Shaft
- Seals
- Connections
- Electric Motors

1. Mixing

Powder Mixer/Venture has an ability to blend the powder quickly, and mixing immediately with the water by giving refine quality of reconstitution milk. The Powder mixer consist of Shear mixing and Self-priming pump and can be used in-line for the continuous batch processing. The handling is portable and ergonomically designed. It can be used for various application gum, sugar, etc.

Salient Features:

- Reduces Process Timing
- Consistent Process Batches
- Ergonomic and Safe Designing
- Capacity : 1000-20000lph



Applications : Dairy, Food, Beverage's, Pharmaceutical and Other Industry.

Paneer/Cheese VAT are designed as per the production and parameters which can be defined by the customers or as per the requirements set by us. This equipment can be used in various applications such us Paneer, Cheese, curd, whey, etc. We will provide all the other accessories as per the process line design. Capacity : 500 – 2000lph Applications :Dairy industry.



Condensing Plant & Dryer

Fluidized Spray Dryer is a combined drying operation at which the feed is accepted in a fluid state and converted into a dried particulate by the atomizing process of the fluid into a hot drying medium. The atomization process is done as per the required particle size and properties of the dried product, by using high pressure nozzle and its feed is conveyed through the nozzle by high pressure pump. The heating of the drying air is done by steam radiator or thermic fluid air heater as per the service conditions



Salient Features:

- Highly Efficient
- Negligible Power Loss from Dryer
- Easy Maintenance
- Low Power & Steam Consumption



2. **Cleaning-In-Place**

Clean-in-place system (cip) is one of the product which is installed in india and abroad countries. The product has its own stand in the processing industry. we also design and fabricate custom cip systems, cip tanks and cip units based on the customer unique requirements. Process control can be achieved through existing plcs, self-supporting control systems or manual operations.

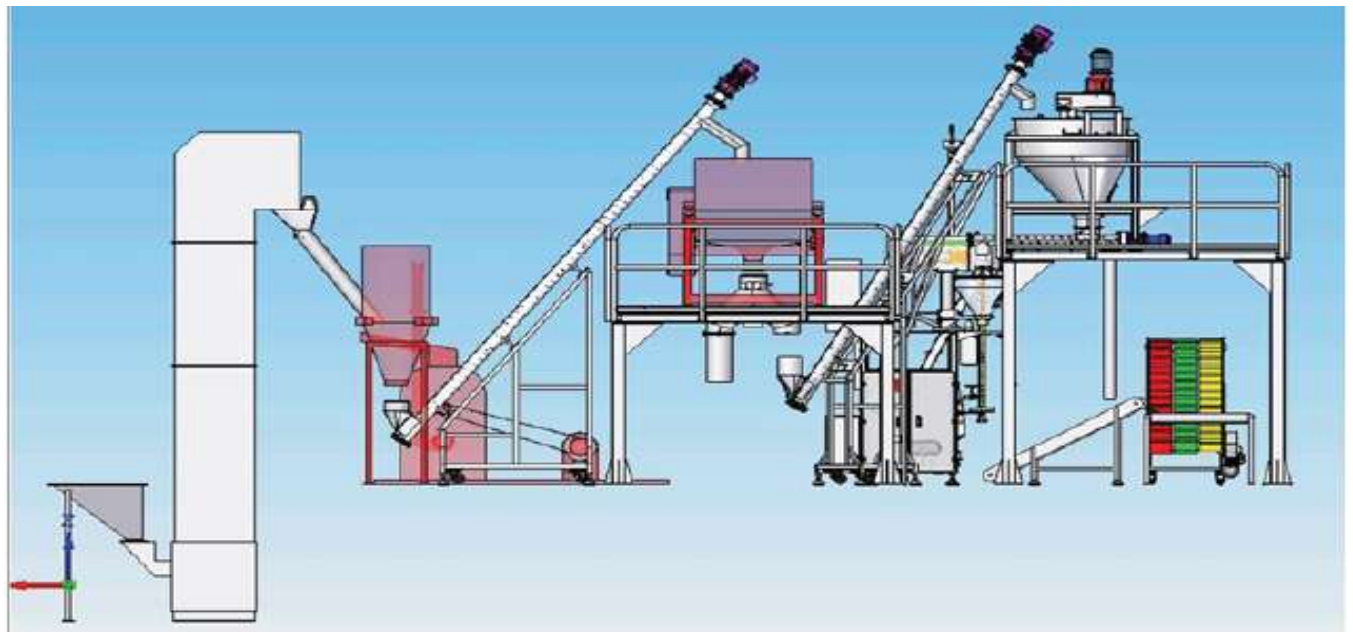


Features:

- High hygiene and cleaning efficiency
- Enhance product quality, recovery and purity
- Automated systems
- Reduces pollution and production cost



PROJECT INTEGRATION SOLUTION FOR GRAINS, EDIBLE OIL, BEVERAGE & SPICE SECTORS



Equipment offered for Raw material, handling, processing, blending Intermediate storage & primary packaging are Bucket/Z elevator , Conveying systems, Pre cleaner ,Vibro sieve, Blenders, Storage Silos, Primary packaging , Sachets filling machines for liquid, solid and viscous products. Bottle, jar, tin filling line for liquid , powder products.



SOME OF OUR ESTEEMED CLIENTS



DS GROUP



Contact Us

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