



Increase Productivity (Fastest Delivery) in shortest span of time at lowest cost.

Established in the year 1996, “Esteem Engineers”, have carved a strong niche for us in the domain of manufacturing and trading of a wide range of equipments and solutions for various industrial sectors including the chemical, gems & jewelry, seeds and pharmaceuticals industries. Our core industrial products include chemical processing equipment, pipe threading equipment and counting solutions.

At Esteem Engineers, we possess the experience in designing and manufacturing a myriad collection of special purpose machinery for many industries like man-made fiber, cement, rubber and tyres, Soap and Detergent and steel to mention just a few. We have also designed, manufactured and supplied process equipment like mixers, dryers and filters maintaining the highest standard of workmanship and are proud to have a long list of satisfied clientele in India and abroad.

Esteem Engineers has the necessary competence, experience and resources to supply potential customers with engineering services such as basic engineering and detail engineering. Fabrication work is designed in accordance with required codes and various construction materials and technical assistance for plant commissioning/start-up and after sale assistance is provided to the customer’s satisfaction.

We have extended the same professionalism to our new offering- counting machines & solutions through our alliance with **DATA Technologies**, Israel and will cater specifically to industries like gems & jewelry, seeds and pharmaceuticals where counting becomes an integral part of daily operations.

Applications

Feed Industry

- Animal feed
- Mineral premixes
- Aqua / fish feed
- Pet food

Food Industry

- Instant drinks/soups
- Infant milk powder
- Flour/bread/bakery mixes
- Frozen vegetables
- Treatment of spices

Building Industry

- Blended cements
- Tile adhesives/grouting

Chemical Industry

- Detergents
- Color pigments
- Fertilizers
- Explosives

Pharmaceutical Industry

- Vitamin mixes
- Medical mixes

Environmental Applications

- Fly ash conditioning
- Filter dust treatment
- Sewage sludge
- Food waste



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Chemical Mixers

Plough Shear Mixer :-



A wide range of plough shear mixers are highly suited for mixing dry material like powders and granules as well as liquid material like wetting and pastes of low thickness. These mixers are highly efficient for super fast mixing of powders, granules with or without addition of liquids. We manufacture these products using optimum quality raw materials to assure high durability and robust construction. These products are also checked stringently by quality analysts to ensure that defect free range is supplied to our customers.

Paddle Mixer :-



Paddle mixer is used for mixing solids or liquids of various particle size, density and viscosity. These are fabricated using premium quality materials that are tested for its durability and efficiency. They are available in various dimensions according to the requirements of the customers. They are used in various industrial applications for their features like easy to maintain, durability and flexibility.

Cone Screw Mixer :-



Cone screw mixer is widely used in chemical, food, cosmetic and pharmaceutical industries. The floor space required for this type of mixer is very less and they can be started on full load. The material of various densities, sizes and particle shapes are also mixed homogeneously without any degradation. The screw rotates about its own axis and revolves along the walls of the cone. Due to the conical shape the unloading of the material is helped by gravity and is complete without any hold-up.



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Sigma Mixer :-



This mixture consists of twin trough each fitted with a rotating agitator and each one of these agitator is a heavy duty 'z' shaped blade. The product is introduced from the top of the mixture and same access is used to clean the mixture. While in operation the product is loaded up to 40% to 65% of the mixture capacity. The blade can overlap & rotate at same speed or variable speed. In 'z' blade two counter rotating 'z' - blades fold and shear the material quite severely. The close clearance produces a shearing and tearing action that is beneficial to the size reduction of solids. These are seldom used for dry solids, but are used for producing dough & thick viscous paste.

High Speed / Shear Mixer :-



A high-shear mixer disperses, or transports, one phase or ingredient (liquid, solid, gas) into a main continuous phase (liquid), with which it would normally be immiscible. A rotor or impellor, together with a stationary component known as a stator, or an array of rotors and stators, is used either in a tank containing the solution to be mixed, or in a pipe through which the solution passes, to create shear. A high-shear mixer can be used to create emulsions, suspensions, lyosols (gas dispersed in liquid), and granular products. It is used in the adhesives, chemical, cosmetic, food, pharmaceutical, and plastics industries for emulsification, homogenization, particle size reduction, and dispersion.

Agitator :-



An agitator is a device or mechanism to put something into motion by shaking or stirring. There are three main types of agitation machines are as follow :

The washing machine agitator, which rotates back and forth;

The magnetic agitator, which contains a magnetic bar which rotates about a magnetic field;

The manual agitation, such as with a stirring rod.



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Chemical Blenders

Conical Blender :-



Well known for robust construction and smooth operation. Clients can avail a customized range of machines as per their requirement. These machines are highly appreciated for their features like high performance, less power consumption, robust construction and easy maintenance. These machines are manufactured using the advanced technologies and available for nominal price.

Ribbon Blender :-



Ribbon blender comprises of a 'u' shaped horizontal trough and a specially designed double helical ribbon rotating within. Each set having one inner and one outer ribbon. Both the sets are accurately positioned and oppositely pitched on the agitator shaft to prevent localized accumulation and effect good mixing of the products. In the ribbon blender powder is mixed horizontally as well as vertically. Ribbon blenders are suitable for free too cohesive type of powder and can handle varying densities. These ribbon blenders are used for mixing dry granules & powders homogeneously.

V-Blender :-



It produced using superior quality materials. It is mostly used in mixing and lubrication process of dry particles. It is suitable for tablet granulation process. It produces accurate results due to its octagonal shape. It is used in various industrial applications like pharmaceutical, food, chemical and cosmetic products etc.



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Chemical Dryers

Calciners :-



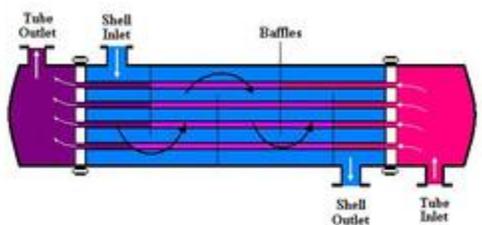
Calcination (also referred to as calcining) is a thermal treatment process in presence of air or oxygen applied to ores and other solid materials to bring about a thermal decomposition, phase transition, or removal of a volatile fraction. The calcination process normally takes place at temperatures below the melting point of the product materials. Calcination is not the same process as roasting. In roasting, more complex gas–solid reactions take place between the furnace atmosphere and the solids. The Some materials that can be processed in calciners are cement, coal and coke, Plastic clays, Urea, Fertilizers, Titanium oxides, etc.

Rotatory Dryer :-



The rotary dryer is a type of industrial dryer employed to reduce or minimize the liquid moisture content of the material it is handling by bringing it into direct contact with a heated gas.

Heat Exchangers :-



A heat exchanger is a piece of equipment built for efficient heat transfer from one medium to another. The media may be separated by a solid wall to prevent mixing or they may be in direct contact. They are widely used in space heating, refrigeration, air conditioning, power plants, chemical plants, petrochemical plants, petroleum refineries, natural gas processing, and sewage treatment. The classic example of a heat exchanger is found in an internal combustion engine in which a circulating fluid known as engine coolant flows through radiator coils and air flows past the coils.



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Autoclave :-



An autoclave is a device used to sterilize equipment and supplies by subjecting them to high pressure saturated steam at 121 °C for around 15–20 minutes depending on the size of the load and the contents.

Autoclaves are widely used in microbiology, medicine, podiatry, tattooing, body piercing, veterinary science, mycology, dentistry, and prosthetics fabrication. They vary in size and function depending on the media to be sterilized.

Drum Granulator :-



Mainly used in Fertilizers industry for mixing various chemicals. We have carved a niche for ourselves in this domain by offering Fertilizer Drum Granulator. Designed with utmost precision, the offered machines are manufactured using optimum quality material and advanced technology. In addition to this, our offered products undergo various tests under the supervision of quality controllers, in order to ensure their flawlessness. Besides, these machines are available as per client's specifications.

Reaction vessel :-



Reaction vessels are at the heart of a chemical plant. They are where the chemical changes and reactions take place. The capacity of reaction vessels can range from 50 liters to 250,000 liters and they are generally made from stainless steel, glass lined steel, glass or ceramics.

The ingredients for the chemical reaction are called the reactants. These raw materials can be loaded into the reaction vessel in a variety of ways. Measured amounts of reactants may be pumped into the vessel through pipes attached to inlet valves. Powders or liquids may be poured into reaction vessels using large funnels, called hoppers, connected to the top of the vessel.