



SHREE VEER ENGG.-FABRICATION

DESIGN & MANUFACTURER OF PROCESS EQUIPMENTS

info@shreeveer.com • www.shreeveer.com

FOOD • DAIRY • BEVERAGE • PHARMACEUTICAL/API • CHEMICAL/ALLIED • WINERY/DISTILLERY





Shree Veer is one of the leading manufacturers, suppliers and exporters of world class pharmaceuticals, Chemicals, Engineering equipments and process equipment.

Product Portfolio:

We offer vast range of high performance industrial process equipments that are made using prime quality raw material such as, stainless steel, alloy steel carbon steel to ensure optimum quality. We also use non-ferrous metals like model, hastelloy and titanium. Our arrey of products comprises of blenders, heat exchanges, pressure vessels, reactors, homogenizer, agitator and storage tanks.

Client Satisfaction:

Even since our inception we are striving to attain maximum clients satisfaction. With the assistance of advance technology and expertise, we have been able to meet the varied needs of our clients in an effective way. Our wide distributions network along with time delivery of consignments has helped us to garner the trust of reputed clients in domestic as well as international market. We offer our clients best business deal with options for easy payments mode.

Why Us

Some of the attributes that have contributed to the incessant growth of our company are as follows:

- International standards of quality
- vigorous research and developments
- customized solutions
- Excellent after sales services
- Timely delivery

Industries We Serve

We consistently try to fabricate qualitative process equipment that are at par with the client's requirements. The list of industries that we cater to is as follows.

- Chemical
- Pharmaceutical
- Food processing

Contact us:

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OUR PRODUCTS



Reactor



Storage Tank



Inline Basket Filter



Ribbon Blender



Heat Exchanger



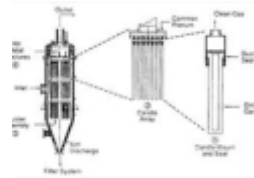
Cartridge Filter



Multi Mill



Mixing Vessels



Candle Filter



Octagonal Blender



Homogenizer



Double Cone Blender



Zero Holdup Filter Press



Vibro Shifter



Paste Preparation Vessels



Single/Multi Bag Filter



Roller Conveyors



Paddel Mixer



Collid Mill



Agitators

STORAGE TANK

Capacity From:
0.5 KL to 100 KL in MS,SS,304,SS316 material.

Application:
Chemical,Pharmaceuticals,Food,Dairy & Other.

We provide full customization on our storage tanke as per specification and requiremant of the clients.We use qualitative raw material to manufacture our storage tanks.These tanks are corrosion resistant and easily withstand various temperature,fluctuations and variations.These tanks have a wide demand in variovs processing industries.

These storage tanks are offered to our clients in following shape.

- Horizontal storage tanks.
- Eliptical shaped storage tanks.
- Corical-hend storage tanks.
- Vertical storage tanks.
- Dished shape storage tanks.





REACTOR

Capacity:

1 KL to 20KL in MS,SS304,SS316 material Jacketed or limpet type.

Application:

Chemical, Pharmaceuticals in GMP & NON GMP models.

Reactor is the equipment which is called as a heart of the complete system in the pharmaceuticals & chemical industry in reactor certain temperatures & pressure through agitator, mixes two kinds of volumes (or greater than two) liquids solids and some times gases promotes its reaction usually with thermal effects. And for the same many times. It requires to function the temperature during and there fore the internal coil or external coil is provided on the equipment.

TYPE OF REACTORS:

LIMPET JACKETED REACTOR

Half-pipe jacketed (limpet) Reactor half-pipe jacketing provides very good heat transfer by allowing high flow rates. It is best suited for high temperature and pressure application utilizing hot oil or other high temperature media. Half-pipe is formed from a continuous coil and is "wrapped" around the vessel exterior in sigle or multiple zones to provide greater latitude for process capabilities. We use a 180-degree half-pipe configuration that minimizes pressure and increases fluid velocity.

DIMPLE JACKETED REACTOR:

Dimple jacketing provides good heat transfer with low flow rates at low temperature and pressures .It is best used with steam for heating or chilled water for cooling. We roll from the dimpled jacket to the vessel radius and "plug weld" the individual dimples to the vessel. This allows for a secure fit.

CONVENTIONAL JACKETS REACTORS:

Also known as open jacket, Conventional jacketing is a secondary external shell wrapped around the primary vessel to provide a space for heat transfer fluids. We add a spiral formed internal baffle to direct the heating media around the vessel from the inlet to the out. Conventional jacketing is best used on smaller diameter vessels.

FEATURES OF REACTORS

- We fabricate in MS SS304L, Ss310, Ss316, SS310L as per customer requirements.
- We undertake design of these reactor.
- We provides Reactor with sealing arrangement as mechanicals seals, stuffing box with/without cooling arrangement and with magnetic drives.
- Reactor are fabricated as per standers, ASME, DIN etc.
- CGMP models are available.



Applications

- Speciality chemical industry.
- Pharmaceutical industry.
- Fertilizers industry.
- Biochemical industry.





HEAT EXCHANGER/CONDENSERS

Ideally heat exchanger is a device built for efficient heat transfer from one medium to another. The media may be separated by a solid wall so that they never mix or they may be in direct contact. They are widely used in space heating, refrigeration air conditioning, powder plants, chemical plants, petrochemical plants refineries. One common example of heat exchanger is the radiator in a car in which the heat source, being a hot engine cooling fluid, water, transfers heat to air flowing through the radiator (i.e the heat transfer medium).

We are fabricating high quality stainless heat exchanger which are in compliance with SS304 or SS316. The stainless heat exchanger are manufactured with TIG welding and mirror or dull buffing finish. These heat exchanger are highly corrosive in nature and other special applications .

We manufacture a full range of heat exchanger that is comprehensively used for the efficient heat transfer from one fluid to another. Classified on the basis of there flow arrangements, heat exchanger are specially designed to maximize the surface area of the wall between the two fluids and minimizes resistance to fluid flow through the exchanger. Available in verious forms and type, heat exchanger finds various applications.

we design and manufacture shell & tube type heat exchanger and U tube type heat exchanger which consist of a series of tubes, through which one of the fluids runs. The second fluid runs over the tubes to be heated or cooled. The tubes can be arranged as per clients requirements.

We deal in an array of high performance heat exchanger that are made of top grade material. Heat exchanger are made as per clients requirements in terms of area, length and type,"for area the heat exchanger are available from 1 sq.m to 500 Sq.m and for length it is available to 8 meter. Heat exchanger in available in two type viz. single pass and multiple pass".The tubes attached to it are expanded or seal welded.





RIBBON BLENDER

Operation:

Ribbon Blender are widely used for homogeneous mixing of dry granules & powder. The blender consists of horizontal "U"-shaped trough with two sets of spiral ribbons, one inside the other. Inner and outer ribbon are perfectly arranged that during rotation, the material reaches each corner of the trough and in parts radial & linear motion to the whole of the material to be mixed. At the same time material is moved from side of the trough to the center and vice versa resulting in thorough mixing across the entire cross section of the blender. The clearance between ribbons outer edge and the trough wall typically range from 3 to 5 mm.

The ribbon blender gives best result for mixing of dry powder & granules due to the design and shape of mixing ribbon and product container. It can be used for pharmaceutical, food, chemical and cosmetic product.

Material should be charge from the top side. There are port/ports should be provided on the top cover to charge the material as well as for air vent. One discharge valve provided at the bottom side at center of the container. The discharge height could be adjust as per the requirements, so that material gets discharge in the other container directly, so that material handling time for discharge is

Optional Feature:

- Jacketed arrangement for heating or cooling applications can be provided.
- Spray nozzles with pressure spraying system for spraying additives in blenders during process.
- Full cover on top side of the container.
- Limit switch can be provided for safe operation so that the machine automatically stop if the cover is opened during the operation.
- Inching facility for stirrer for discharge of material.
- Process control panel with batch timer and cyclic timer for reverse and forward direction of ribbon.
- Discharge height must be adjusted.



Technical Specification

Model	Working Capacity in Kgs	Minimum Batch Size in Kgs	Gross Volume in Ltrs	Working Volume in Ltrs	Trough Dimension (L x W x H)	Bottom Discharge	Powered required in HP	Ribbon Speed (RPM)
RB-10	10	7	15	10	350 x 175 x 250	4"	0.5	Up to 40
RB-50	50	35	75	50	750 x 300 x 400	4"	1	Up to 40
RB-150	150	100	225	150	1200 x 450 x 550	4"	3	Up to 40
RB-250	250	175	375	250	1250 x 600 x 750	6"	5	Up to 40
RB-500	500	350	750	500	1500 x 750 x 900	6"	7.5	Up to 30
RB-750	750	500	1000	700	1700 x 750 x 900	8"	7.5	Up to 30
RB-1000	1000	700	1500	1000	1800 x 850 x 1000	8"	10	Up to 25
RB-2000	2000	1500	3000	2000	2500 x 1000 x 1200	12"	20	Up to 20



OCTAGONAL BLENDER



Operation:

The octagonal blender is an efficient and versatile blending machine for mixing lubrication process of dry granules homogeneously. Two third of the volume of the octagonal blender is filled to ensure proper mixing. The octagonal blender gives best result for granules due to very slow speed and octagon shape of container. It can be used for pharmaceutical, food, chemical and cosmetic products etc.

In octagonalblender the granules comes from all sides due to the octagonal shape of the product container, hence requeement of RPM is less. Suitable mainly for crystalline & granular type material. This type of material gets sufficient continuous movement due to their shape if container have only slow movements and will results in good quality of blending/lubrication of granules.



Special Features:

- Suatable for ry mixing of product in granule form.
- Easy for loading and unloading of material.
- Easy for cleaning.
- All contact part are made out of SS304/SS316 or SS316L quality material as per customer requirements.
- The entire unit is mounted on a sturdy stand, complete with electric motor and gear box.
- The machine provided with control panel board and safety railing.
- It is a slow speed blender and has a removable baffle mounted through a rectangular lid.
- All moving parts are enclosed in guards.

Optional:

- Frame proof drive motor along with flame proof stater.
- VFD
- Charging drum arrangement with mechanical/ hydraulic trolley.



Technical Specfication :

Capacity in Kgs	Capacity in Ltrs	Gross Volume	Motor HP	Gear Box	Output Speed RPM	Discharge Valve	Overall Dimensions L x W x H
100 Kgs	300 Ltrs	375 Ltrs	1.5 HP	22	12	6"	2165 x 1535 x 2585
165 Kgs	500 Ltrs	600 Ltrs	2 HP	30	12	8"	2250 x 1800 x 2700
200 Kgs	600 Ltrs	725 Ltrs	2 HP	30	12	8"	2300 x 1800 x 2800
250 Kgs	750 Ltrs	875 Ltrs	3 HP	35	14	8"	2300 x 1850 x 2800
265 Kgs	800 Ltrs	950 Ltrs	3 HP	35	14	8"	2350 x 1800 x 2800
335 Kgs	1000 Ltrs	1150 Ltrs	5 HP	50	12	10"	2700 x 2100 x 3050
400 Kgs	1200 Ltrs	1300 Ltrs	5 HP	40	12	10"	2700 x 2100 x 3050
500 Kgs	1500 Ltrs	1700 Ltrs	5 HP	50	10	10"	2850 x 2550 x 3120
650 Kgs	2000 Ltrs	2200 Ltrs	7.5 HP	50	10	12"	2800 x 2800 x 3350
850 Kgs	2500 Ltrs	2700 Ltrs	7.5 HP	60	10	12"	2800 x 2800 x 3450
950 Kgs	2800 Ltrs	3500 Ltrs	10 HP	60	10	12"	2800 x 2900 x 3500
1200 Kgs	3400 Ltrs	4000 Ltrs	10 HP	60	10	12"	2900 x 3000 x 3700



DOUBLE CONE BLENDER

Operation:

The double cone blender is an efficient and versatile machine for mixing dry powder and granules homogeneously. All the contact parts made out of stainless steel of required grade by customer. Two third of the volume of the cone blender is filled to ensure proper mixing. It can be used for pharmaceutical, food, chemical and cosmetic product etc.

Salient Features:

- The conical shape at both ends enables uniform mixing and easy discharge.
- All contact parts are made out of stainless 304 or 316 quality material, as required by customer.
- Manual with facility with hand wheel for inching. The same will be provided with SS cover & limit switch. (In 200kgs & above model)
- Suitable size of butterfly valve at one end of the cone provided for material discharge & openable cover provided at other end of cone for material charging & cleaning.
- Cone will be polished from the inside & outside & structure will be matt polished.
- The conical shape is mounted on sturdy stand with bearing blocks & driven through a gear box coupled with motor.
- Panel fabricated from SS304 material with facility of three phase indication, DOL starter, digital timer, AMP. meter.
- Paddle types baffles can be provided on the shaft for better mixing.
- Safety guards made from SS304 pipes provided in front of the machine with limit switch.
- Food grade rubber gasket will be used on both the ends of cone as well as in butterfly valve.



Technical Specification

MODEL	Gross Volume Liters	Working Volume Liters	Motor HP	Overall Dimensions in mm		
				Length	Width	Height
DC5	15	9	0.5	935	450	750
DC10	30	18	0.5	1000	450	850
DC15	45	27	0.5	1060	450	970
DC25	75	45	1	1370	600	1220
DC50	150	90	2	1550	600	1375
DC100	300	180	3	1800	800	1675
DC150	450	270	3	1950	1000	1750
DC200	600	360	5	2150	1000	1950
DC250	750	450	5	2250	1000	2400
DC300	900	540	7.5	2450	1000	2500
DC350	1050	630	7.5	2530	1000	2550
DC400	1200	720	10	2650	1200	2625
DC500	1500	900	10	2750	1200	2750



PADDLE MIXER

Operation :

Paddle style agitator are specially designed to scoop, lift and tumble material in a gentle, but through mixing action. While being mixed, the material travels in a three dimensional "figure 8" pattern, the material is constantly being pulled from the end of the mixer to the middle of the "figure 8" where the most aggressive mixing is taking place. This unique paddle design is ideal for mixing solids or liquids of various particle size, density and viscosity. The gentle scooping action is ideal for blending fragile ingredients such as nuts or fiberglass strands. Paddle mixer work effective when filled to as little as 20% of rated capacity, thus allowing flexibility of batch size. Paddle style agitators allow easier access for cleaning between batch.



Feature of Paddle Mixer:

The paddle are positioned to move the material in opposing lateral directions as well as radially. The paddle design is generally employed where friable are being blended. Paddle Mixer Consists of Several Elements: A centrally mounted horizontal shaft that rotates within a cylindrical container, paddle ploughs or other shaped mixing elements that are attached to centrally mounted shaft, special openings at the top for feeding materials, flush fitting access doors at the front of mixer, a flush fitting discharge valve at the bottom of the mixer, which is pre-matically or manually opened inside a cylinder conduit and a complete drive unit.

Application:

These are horizontal mixer utilized for blending dry material, powder granular, short fibered, moist solids and liquid together with pasty substances up to and including highly viscous masses.

- Powder and semi dry solid mixing
- Cutting fat in to flour
- Addition of oil & liquid in to powder
- Mixing soap
- Extending colours
- Breaking down agglomerates



MIXING VESSELS

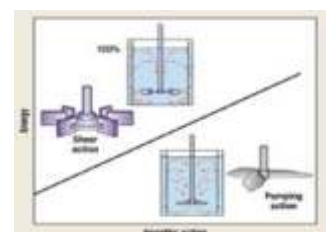
we offer esteemed clients quality mixing vessels that find wide usage in different industries like beverage, food, pharmaceutical and chemical industries. Shree veer manufactures mixing vessels from 1KL to 20KL which can be used for various application with following accessories/ attachments. Jacket for heating / chilling / maintaining the temperature of the product with in vessels. Electrical trace heating of the vessel to mainting product temperture. Cladding in either stainless steel (welded or riveted) or aluminium to maintain internal tempareture. Attaching a mixer/high shear blending unit to vessels.

Dual Agitator Mixing Vessel:

For mixing and blending high viscous fluid with particulate. Our dual mix tank works by providing pumping action to provide product turnover while the counter rotating sweep grms scrape the heat transfer surface and create turbulence.

Turbine Agitator Mixing Vessels:

For mixing and blending powder in to low viscous fluid for particulate suspension, our turbine mix tank works by providing pumping action to provide product turnover and can also create a vortex to entrain powder in to liquid faster than a contemporary prop style mixer.





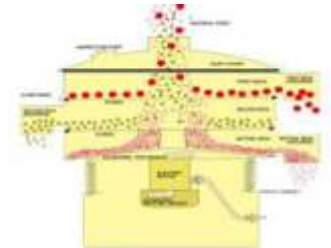
VIBRO SHIFTER

OPERATION :

This vibrating energy screen is unit consisting of circular pretensioned screen mounted on the frame along with vibrating motor. The vibrating motor imparts these plane vibration to the screen due to revolving electric weights. Total assembly is mounted on suitable springs so that it becomes a independent body which vibrates without parting any vibrations to the foundations.

SPECIAL FEATURES :

- High capacity & optimum use of shape.
- Process adaptability.
- Low operating and maintance cost.
- Long screen life.
- Easy for assembly & dis assembly for cleaning & change over of screens.
- Spring amplify the vibrations leading to reduced motor HP, maintance & operational cost.



Technical Specification

Model	12"	30"	36"	48"
Screen Dia	300 mm	750 mm	900 mm	1200 mm
Drive Motor	0.25 HP	0.75 HP	1 HP	2 HP
Output / Hr	2 to 40 Kg	75 to 300 Kg	90 to 300 Kg	100 to 1000 Kg
	Depending upon the material properties and screen size			
Over All Dimension in mm (LxWxH)	400 x 400 x 900	900 x 900 x 1250	1040 x 1040 x 1250	1600 x 1600 x 1260



MULTI MILL

Multi mill used in different functions involving wet & dry granulation pulverisation etc of Pharmaceutical, Chemical, Bulk drug, Cosmetic, Colors, Dyestuffs, food products etc. The industrial Multi Mill consists of stainless steel hopper, processing chamber with beater assembly, Motor, DOL stator, three speed pulley, screen and study body.

FEATURES

- All contact parts made of SS316 as per GMP standard.
- Machine is designed for continuous operation.
- Beaters and scraper blades of Ss316 quality.
- Direction of beaters can be changed by reversible switch.
- All contact parts can be easily and quickly dismantled and cleaned.
- Lab, Model also available



OPTIONAL ACCESSORIES/ATTACHMENTS

- Flame Proof Construction
- VFD
- Dry mechanical seal
- Safe earthing system.



Technical Specification

Rotor Speed	750 to 2500 RPM
Motor	TEFC, 3HP/1440 RPM / 440V / 50 cs / 3ph
Rotor Assembly Dia	260 mm (approx)
Beaters	12 Nos. Knife and Impact edges 2 scraper blades
Screen Dimension	Dia. 265 mm (ID) x Ht. 130 mm (H)
Starter	DOL with reversible switch
Output	50 Kgd. to 200 Kgs. / hour depending upon the product and reduction required in side
Overall Dimensions	885x970x1725mm ht. (for AC drive arrangement ht. is 200 mm)
Material Charging Ht	1450 mm (approx)
Material Discharging	800 mm (approx)



PASTE PREPRATION VESSELS



- Comes with 20 ltrs to 250 ltrs capacity.
- Basically this unit is used for preparation of starch paste. Hemispherical shape ensures that the heating of the starch paste is uniform and gets more surface area.
- The tilting type arrangement ensures ease in unloading the paste into any container or vessel.
- The starch is put in the kettle and water is added to it. The kettle is jacketted and is heated by steam/ electrical till the starch melts and thick paste is achieved.
- The paste will be agitated with the help of an anchor type slow speed agitator which will constantly stir the paste so that there will not be any lumps formation and proper mixing is achieved.
- Mirror polished from inside and outside up to 240 Gritt.
- Product temperature, measuring and controlling facility by means of TIC or PID control.

Salient Features :

- cGMP Construction
- All contact parts of SS 316 grade
- Hemispherical bowl
- Bowl tilting by manual by worm and worm wheel
- Teflon scrapper for scrapping the paste
- Split, hinged top lid
- Excess pressure release valve on jacket for steam
- VFD for stirrer speed variation (Optional)

Technical Specification

Technical Specification	20 Ltr	30 Ltr	60 Ltr	100 Ltr	150 Ltr	200 Ltr	250 Ltr
Product Container	20 Ltr	30 Ltr	60 Ltr	100 Ltr	150 Ltr	200 Ltr	250 Ltr
Batch Capacity	15 Ltr	20 Ltr	40 Ltr	70 Ltr	105 Ltr	140 Ltr	175 Ltr
Motor HP	0.5	0.5	0.5	1.0	1.5	2.0	2.0
Electric Heater	2.0 KW	3.0 KW	4.0 KW	6.0 KW	4x3 KW	6x3 KW	6x3 KW
Steam in Kg / hr at 2.5 kg/cm sq	5-10	10-15	20-25	30-40	40-50	50-60	60-80
Overall dimension in mm (L x W x H)	1150 x 825 x 1500	1150 x 950 x 1500	1175 x 1225 x 1725	1275 x 1250 x 1725	1425 x 1300 x 1975	1425 x 1300 x 1975	1750 x 1650 x 2225



COLLID MILL

TECHNIC Colloid Mill is suitable for Homogenising, Emulsifying, Dispersing, Mixing, Comminuting of liquids to highly viscous products. It is based on rotor-stator principle. It is available in plain as well as Water Jacketted model which is suitable for heat sensitive products. Flame proof electricals can be supplied on demand at extra cost.

Operation :

Product is fed to the operating area of rotor, having a speed of 3000 rpm by specially designed feed device. The product is processed by high shear, pressures & friction between the stator & rotor, & is also subjected to intensive vibration which exert their force on it by means of pressing & releasing actions. due to the slightly deviating tapering of the milling surfaces of stator & rotor, the angular gap becomes narrower towards the discharge section. This processed product continuously leaves the mill through the drain pipe, if required, it can be recirculated.

Silent Features :

- All contact parts are made out of SS. 304 (SS.316 on demand at extra charges). No casting are used for avoiding contamination problems.
- Coupling provided between motor shaft & rotor shaft for ease in maintenance.
- Three oil seals between the Motor & the processing chamber to prevent liquid going in the motor winding, Resulting in the burning of the motor.
- Modified design of semi concave teeth in rotor & stator reduces the motor HP & gives better performance in size reduction without damaging the product.
- Extended bearing housing specially designed to facilitate fine adjustment of bearing clearances or back lash to avoid metal to metal contact of rotor & stator.
- This unique design provides smooth & consistence all round performance & long life of rotor & stator.
- Leak proof neoprene sealing device.
- Three way cock system for draining & recirculation of liquids provided as standard. Extra discharge spout provided as standard for viscous products.
- DOL Starter with over load relay for protection against single phasing & low voltage.
- Contact parts can be easily dismantled for cleaning.
- Special design facilitates adjustments of the grinding gap by an exterior screw by means of handle even during operation.
- Flame proof motor & Flame proof rotary switch can be provided on request at extra cost.



Model	CM-3 (V)	CM-5 (V)
Output ltr / hr	145 to 1400	145 to 1400
Particle Size	5 to 10 micron	5 to 10 micron
Hoper Capacity	20 liter	20 liter
Motor Type	Vertical flange mounted	Vertical flange mounted
Motor	3Hp x 2850 RPM Ac Supply	5Hp x 2850 RPM Ac Supply
Motor Coupling	Direct	Direct
High Cmm	1100	1100
Floor Space	400 x 750	400 x 750
Net Wt (Approx)	145 Kgs	150 Kgs
Gross Wt (Approx)	235 kgs	240 kgs



HOMOGENIZER

Industrial homogenizer are high speed,high shear mixer that reduce sample to uniform-size through maceration, cutting and blending. They are used to process liquids, slurries, or granular substances. Product specifications for industrial homogenizers include media viscosity, capacity. Feedrate motor speed, motor power. Homogenizer cab be used in variety of application including the processing of adhesive, chemical, cosmetics, food. and beverages and pharmaceutical industries.



Operating Principle:

The industrial homogenizer consist of rotor & stator structure inside the chamber. The stronge centifugal forces generated by the high speed rotation rotor absorb the material in to working chamber of the rotor and stator from axial direction. All the material dispersed, sheared and emulssified by the multi layers stator and rotor and then ejected from the axial direction. Stable finished products with high quality are produced after one time or few times circutations. Homogenizer are available in three mounting arrangements.

- Inline homogenizer
- Bottom homogenizer
- Vertical homogenizer

Design & Features:

- High shear to achieve the particle size reductions.
- Stator replaced without disassembling the mixer.
- Different easily interchangeable head models.
- Standerd single sanitary mechanical seal.
- Trolley with/without control panel
- Available in size of 3HP/ 5HP/ 7.5HP/ 10HP/ 15HP/ 20HP





AGITATOR

Shree veer agitator are propularly used for blending, Liquid, solid suspension dissolve solids, disperse or homogenise immiscible Liquis. We design and manufactures variety of refined agitator are available indifferent mounting arrangement depending on application, volume, viscosity and specific gravity.

Geared Drive Verticle Agitator:

This agitator are medium speed vertical agitator with geared motor. This agitator can be used in processes of mixing, dissolution, dispersion of medium or low viscosity product is required in pharmaceutical, chemical, food processing and cosmetics industry.

Operating Principle:

Geared drive agitator are available in different mounting arrangement. This agitator are installed inside the tank eightr centrally with current deflector or offest so that the offsetting it self prevents the rotation of stirred product. The rotation of propeller makes the fluid flow to bottom and then up to surface along the wall of the tank. The effects is promoted if the bottem of tanks curved. In our geared drive agitator comes with latten support with heavy duty bearing housing for long life trouble free performance. Option includes mechanical seal or stuffing box for closed tank application, variety of impeller like axial and radial for different properly of fluid viscosity, specific gravity and applications.

Direct Drive Vertical Agitator:

This is range of vertical direct driven agitator. They cab be used in processes of mixing dissolution and dispersion of low viscosity fluid used in pharmaceutical, cosmetics, chemical and food industry and dairy plants.

Operting Principle:

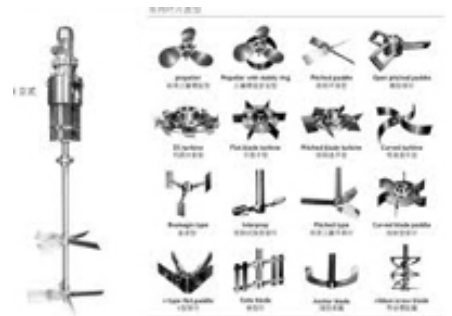
The agitator are normally installed inside the tank eightr centrally with current deflectors or offset so that the offsetting it self prevents rotation of stirred product. The rotation of propeller makes the fluid flow to bottom and then up to surface along the walls of the tank. The effect is promoted if the bottom of tank is curved. Different mixing impellers like propellers, pitch turbine and other axial or redial flow turbines can be fitted for differents properties of fluids and applications.

Bottom And Side Entry Agitators:

The bottom side entry agitator are used in process and storage tank in the application of food processing, chemical, pharma an cosmetic industry. The main application is agitator of low viscosity products like wine, oil, milk, bear and alchole ets. in large volume tanks.

Operting Principle:

These agitator are installed in a slanted position. The rotation of the propellers creates a flow that impellers the product to the bottom of the tank and then raises up to the surface along the wall opposite to the agitator. The effect is promoted if the bottom is curved. The agitator is installed decentralized to enhance the circular flow. Thus complate homogenization of the product is achieved.





ZERO HOLD-UP SPARKLER FILTER PRESS



The horizontal hold up sparkler type filter is the most versatile filtration system for solid liquid separation. It can also be used apart from filtration with the help of filter aids for giving a sparking effect to the liquids filtered. The filters are most suited for the filtration of product for the pharmaceutical, chemical, distillery, beverage, ink, oil and other allied industries. It is available in different output capacities with a variety of pumps to suit individual requirements.

Construction:

The filter are made out of stainless S304, SS316 & SS316L qualities. The cartridge assembly consists of a number of disc type filter plate with perforated support screen, filter media and interlocking cups placed one on top of the other and supported at the bottom by a cartridge plate. The entire assembly is held together with the help of side tie rods which are Of "T" type construction for longer life. The filter together with the pump and interconnecting piping is mounted on a sturdy base clad with s. s sheets and provided with castors for movability. The filter can be supplied without pump, where external positive pressure is available.

Operation:

The liquid to be filtered is passed in to the vessels by means of the pump or other external means. The liquid then passes through the top the filter plates from the holes provided at the side of the plate and on to the filter media. The liquid flow simultaneously and individually through all the member plates. Hence the out put of the filter depends on the diameter and the number of plates. The filter media then retains the impurities in the liquid and the filtered liquid passes through the central channel to the outlet at the bottom. The filter are optionally available with steam jacket for filtration of difficult liquids that solidifies at lower temperatures. These type of filter are generally used for obtaining clear filtrate, but it can also be used to obtain the cake that is retained on the filter media between the plates.

Salient Feature:

- The complete filter is manufactured by cold process.
- The sealing of the filter plate is done by the spinning process for better sealing.
- The cartridge assembly is provided with "T" type side bolts for longer life.
- The filter are provided with gear/ centrifugal/ lobe pumps fitted with mechanical seal as per requirements
- Optionally available with steam jacket for heating of liquids at the time of filtration.
- The complete construction is as per GMP specifications.



ZERO HOLD-UP SPARKLER FILTER PRESS

Types	Dia. Of Plates	No. of Plate	Filtering Area M2	Cake Holding Cap. (Ltr.)	Flow Rate / Hrs	Size Pump	Motor HP
ZH-8	8"	6 Plates	0.217	4.9	600	1/ 2"	1HP
		8 Plates	0.279	6.9	800	1/ 2"	1HP
ZH-14	14"	8 Plates	0.819	24.75	1500	1"	2HP
		10 Plates	1.001	30.25	1700	1"	2HP
		12 Plates	1.183	37.75	1900	1"	2HP
ZH-18	18"	10 Plates	1.65	55	4000	1, ½"	3HP
		12 Plates	1.95	65	4600	1, ½"	3HP
		15 Plates	2.40	80	5500	1, ½"	3HP
		24 Plates	3.75	125	8200	1, ½"	3HP
ZH-24	24"	15 Plates	4.192	144	7000	2"	5HP
		18 Plates	5.035	171	8500	2"	5HP
		24 Plates	6.625	225	12500	2"	5HP





CANDLE FILTER

(For catalyst recovery, carbon removal, bulk drugs filtration etc.)

Candle filter is basically a polishing filter working under pressure. The filter works in surface filtration & clean in place filtration principle. The filter consists of candle shaped filter elements made out of equi-diameter pipe. Each candle is covered with filter hose in polypropylene, polyster, nylon and PTEE. These candle are arranged vertically in a pressure vessel. The number of candle to be fitted depends upon the filtration area. The filtration and cake formation takes place under pressure and the wet or dry discharge is possible by means of blow back. For continuous operation two filter are installed.

Features:

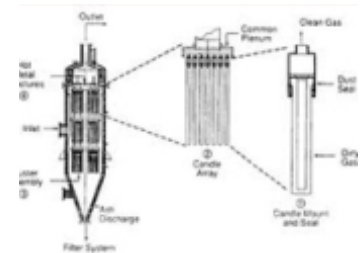
- No moving parts. There fore less maintance and reduced spares parts requirements.
- Leak proof tongue & groove body flange joint. Designed for blowback/backwashing.
- Permanent candle with replace filter medium.
- "Bottom to top" flow for uniform cake formation.
- Completely closed systems.

Advantage:

- Safe and hygienic operations.
- Complete process and operator safety.
- Flexible filtration rating in the same equipment.
- Higher cake holding capacity.
- Least pressure drop, longer run time.
- Zero emission to environments.

Application :

- Recovery of catalysts like Nikel, Platinum, Palladium etc.
- Removal of activated carbon, charocoal in pharma plants.
- Bleaching earth removal in vegetable oil plants.
- Resin filtration.
- All types of polishing applications.



HOUSING	CANDLES	MEDIUM	SIZE	SERVICE RANGE
All grade of stainless steel, Carbon Steel, MSRL, Teflon Coated etc.	All grade of stainless steel, Carbon Steel, P.P., PVC, CPVC etc.	Stainless Steel, P.P., Nylon, Polyster, Cotton, Teflon, Coated, Antistatic Types etc.	0.5m ² to 40m ² in single unit	Up to 30 kg. / cm2 up to 250 deg C. less than 1 micron



SINGLE/MULTI BAG FILTER

Bag filter system is designed for optimum filtration performance. Its range provides filtration solution for a broad variety of fluid application in the process industry. They are particularly useful for filtering large volumes of high viscosity liquids. Bag filter is constructed of filter housing. Filter bags internal cage to support bags, positive sealing arrangement and choice of end connections. The internal support ensure bags will not burst as high differential pressures build up during operations.

Operations:

Unfiltered fluid enters the housing and is distributed evenly around the filter bags. Filtration takes place from inside to outside. Solids are collected on the inside of filter bag for easy removal. The filtered fluid then exits through the outlet pipes.

Feature & Benefits:

- High flow rates.
- Low pressure drop.
- High dirt holding capacity.
- Positive sealing arrangement to avoid bypassing.
- Suitable for PP Collar, Rigid Ring & Snap Band Bags.
- Quick opening triclovers & flynut design.
- Easy to operate & low maintenance.
- Flow rate up to 2000 m³/hr & more.
- Customized design available.
- Housing are permanently pipes.
- Covers are O ring sealed.
- All housing made from SS316L & SS304 are mirror polished to inside and outside.
- Multiple Bag filter/Single bag filter/Duplex bag filter unit designs are available.



Availability Range :

Application:

- Processing chemical
- Food Ingredients
- Vegetable Oils
- Petroleum products
- Paints
- Varnish
- Sugar solutions
- Inks

TYPE	SINGLE BAG			MULTI BAG			
Models	BFH-4141	BFH-7161	BFH-7301	BFH-7164	BFH-7303	BFH-7304	BFH-7306
Bag Size	4" Dia X 14" L	7" Dia X 16" L	7" X 30" L	7" Dia X 30" L	7" Dia X 30" L	7" Dia X 30" L	7" Dia X 30" L
No. of Bags	1	1	1	4	3	4	6
F.A. (m ²)	0.12	0.24	0.48	0.96	1.44	1.92	2.88



CARTRIDGE FILTER

Cartridge filter is made up of two parts:

1. Cartridge-which is filtering device
2. Housing-The cartridge is to be housed in line by proper housing.

Cartridge filter normally used as polishing filter in almost all process industry. Cartridge filter is constructed of filter housing, filter cartridge, tube sheet, positive sealing arrangements for cartridge depending upon type of cartridge & choice of end connections. The number of cartridge are selected on the basic of micron size and flow rate of permissible pressure drop. Different material available for the cartridge are polypropylene, cotton, sintered SS, ceramic etc. Housing are available all grade of stainless steel, alloy steel and teflon, lining on any metal.

Operation:

Contaminated fluid enters the housing and is distributed evenly around the filter cartridge, filtration takes place from outside to inside. Solids are collected on the outside of filter cartridge & clear filtrate is collected at outlet.

Features:

- No moving parts.
- Leak proof tongue & groove body flange joints.
- Designed for easy cartridge fixing.
- Various cartridge options.
- Complete closed systems.
- Housing as per pressur vessel design code.



Advantage:

- Fine filtration, less than ONE micron.
- Simple design for easy cartridge replacements.
- Flexible filtration rating in same equipments.
- Higher cake holding capacity.
- High flow rate up to 2000 m³/hr & more.
- Zero emission to environments.



Application :

- | | |
|--|---|
| <ul style="list-style-type: none"> • Pharmaceuticals • Petroleum Products • Dairy | <ul style="list-style-type: none"> • Processing Chemicals • Paints & Inks • Food & Beverages |
|--|---|

Availability Range :

HOUSING	CANDLES	MEDIUM	SIZE	SERVICE RANGE
All grade of stainless steel, Carbon Steel, Teflon lining on any metal	All grade of stainless steel, Polypropylene Ceramic etc.	Pleated, Sintered, Wound, Multi Layer, Resin Bonded, Wire mesh etc.	As per requirement	As per requirement, less than one microns flow rate up to 2000m ³ /h and more



INLINE BASKET FILTER

(For cost Effective filtration of process liquids on pump suction/Discharge)

Basket filter will permit the straining & filtering of a wide variety of fluid, to retain solids of almost any size. All baskets are easily removable & cleanable. Basket filter elements can be offered in single cylinder, double cylinder, multi cylinder and pleated design depending upon requirements of applications. They are constructed of filter housing, filter elements supported with perforated cage, positive sealing arrangements to avoid any bypass.

Operation:

When filter medium pass through basket filter solid particle are retained in basket filter. While the clean medium pass the basket filter and expel from outlet. When cleaning, turn on plug screw in the bottom, then discharge fluid, remove flange cover, after clean, reinstall it. Basket filter are normally supplied with spring arrangement at the top of filter elements. This will ensure any type of bypassing & confirm position of basket. Even in case of reverse flow, fluid bypass around the basket is prevented by an optional 'O'ring seal between the basket rim and the housing inside diameter.

Features:

- Low pressure drop
- Various basket options.
- Easy to clean
- 'Out to in flow' or 'in to out flow'.
- Large are, heavy duty basket.
- Designed for easy basket removal.
- Housing as per pressure vessel design codes.

Advantage:

- No need to disconnect piping for basket maintenance.
- Complete process and operator safety.
- Simple design for easy basket cleaning.
- Simple installation.
- Zero emission to environments.

Application :

- Pharmaceuticals
- Processing Chemicals
- Petroleum Products
- Paints & Inks
- Dairy
- Food & Beverages

Availability Range :

HOUSING	CANDLES	MEDIUM	SIZE	SERVICE RANGE
All grade of stainless steel, Carbon Steel, Teflon lining on any metal	All grade of stainless steel, Carbon Steel	Welded Wedge Wire, Wire Mesh	As Per requirement	As per requirement, 30 micron and above, flow rate up 2000 m ³ /hr & more





SCREW CONVEYOR



Industrial Screw Conveyors move material either horizontally, on an inclined or vertically. They are used to feed, Distribute, Collect or mix and can be equipped to either heat or cool while performing this transfer. We provide industrial screw conveyors, screw conveyors manufacturers, industrial screw conveyors exporter, screw conveyors exporters. With the Proper cover and gasketing, they are easily made dust or weather tight. Screw conveyor can be available as U-trough, Pipe or can be fit in Hopper.

Specially designed for the Food, Pharmaceutical and other Heavy & voluminous Industry.

- M. O. C.: - S.S.316/S.S.304/C.S.
- Jacketing can be done for the heating or cooling purpose while transferring.
- Special system can be manufacture as per client requirement like for loading system PLC arrangement can be done
- Ease of Cleaning
- Less maintenance

BELT CONVEYOR



We design and manufactured various types of Belt Conveyors, which are classified as stationery, portable & mobile. We also design Special Purpose Conveyor. Our belt conveyors are built to carry maximum load at the maximum inclined. Flat Belt conveyors convey variety of regular & irregular shaped products from light to heavy loads.



ROLLER CONVEYOR



Use to move the material from one place to other on the manufacturing line. Rollers are made up of a carbon steel pipe and galvanized to avoid corrosion and damage of the rollers as well as the material which are moving on it.

Rollers are fitted with bearing on each side of it for the smooth movement of the roller on its own axis. Bearings plays a major role in any system and in the system of roller conveyor it plays a crucial role and hence bearing are selected considering the all design criteria and load moving on it.

- Available in both i.e. Gravity Driven and power driven system.
- Height adjustment arrangement
- Castor wheel can be provided for the mobility



FOOD • DAIRY • BEVERAGE • PHARMACEUTICAL/API • CHEMICAL/ALLIED • WINERY/DISTILLERY



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