



SOLUTIONS FOR YOUR MANUFACTURING PROCESSES

We are among the leading organization involved in manufacturing and supplying pharmaceutical, chemical & cosmetic machinery.



ESTABLISHED IN THE YEAR 2021, WE SHREE TECHNO MECH, ARE AMONG THE LEADING ORGANIZATIONS INVOLVED IN MANUFACTURING AND SUPPLYING PHARMA AND CHEMICAL MACHINERY.



ABOUT US

Shree Technomech Engineering is a Certified manufacturer and consultant and exporter of machineries and process equipment for pharmaceutical, Nutraceutical, cosmetics, food, Allied Chemical Industries in India and across the globe with its head office at Ankleshwar, Gujarat.

We are constantly striving ourselves to design, innovate and develop our products that will overcome the modern dynamics and advanced technology in coordination and meeting the customer demand and requirements of various allied industries with our commitment to exceptional quality standards and innovation.

We are a team of highly skilled passionate professionals pursuing excellence at every level of work. Our Technical Expertise with innovative approach prioritising international standard of quality control and Current Good Manufacturing Practice(GMP)

The Company is equipped with high end infrastructure includes sophisticated machineries, specialized art of engineering and assembly department, quality and testing department and administrative office with global connectivity.

VISION

Our Vision is to endeavour and explore our efficiency in all ways to provide the exceptionally best product maintaining outstanding quality standards, prompt delivery around the world and lowest price to our Client's from wide range of Selection. We also look forward to be a leading engineering company worldwide.

MISSION

Our mission is to serve worldwide customers with uniquely designed products equipped with modern dynamics and advanced technology to meet our client's expectations. We are continuously on the path of enhancing and evaluating our Machineries.



CERTIFICATION



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CHEMICAL REACTOR

We are leading manufacturer and supplier of Chemical Reactor, Pharmaceutical reactor in India.

FEATURES

- ✦ All components in contact with the product are made of SS 316 and non contact with the product is made of SS 304.
- ✦ We provide agitator as per client specific requirement.
- ✦ Stainless steel reactors are available in 50 Lit to 50 KL capacity.
- ✦ These reactors are well treated before their supply in the market.
- ✦ Customized nozzle orientation as per customer requirement.
- ✦ Suitable for pressure, normal and negative pressure.
- ✦ Marking on a baffle for volume measurement.
- ✦ Available with limpet coil, inside coil and jacketed coil.
- ✦ We provide complete technical documentation package as per GMP guidelines.



HYDROGENATION REACTOR

We are manufacturer and supplier of automated and manual high pressure reaction reactor in various capacity ranges from lab to commercial application as per client specific requirement which are compatible for high pressure and temperature reactions.

FEATURES

- ✦ All components in contact with the product are made of SS 316 and non contact with the product is made of SS 304.
- ✦ Can be used up to 25 Kg/cm² working pressure.
- ✦ Provision of standard safety tools.
- ✦ 295 rpm speed for homogeneous reaction.
- ✦ Double external limpid coil for proper heat transfer generated during reaction.
- ✦ Provision of disc impeller.
- ✦ We provide complete technical documentation package as per GMP guidelines.



CHEMICAL RECEIVER TANK

We are manufacturer and supplier of receiver tank storage of Chemicals, solvents and air receiver tank with moisture trap for pharmaceutical, biotechnology and food processing industries.

FEATURES

- ▶ Wide capacity range from 100 ltr to 10000 ltr.
- ▶ All components in contact with the product are made of SS 316, SS 304 & MS (As per customer requirement).
- ▶ Jacket & Limpet jacket provision as per requirements.
- ▶ Level indicator provision as per the requirement.
- ▶ Valves, Gauges and Instruments of the reputed makes ensure trouble free service.
- ▶ We provide complete technical documentation package as per GMP guidelines.



CHEMICAL STORAGE TANKS

FEATURES

- ▶ All components in contact with the product are made of SS 316, SS 304 & MS.
- ▶ We provide in vertical or horizontal shape as per client specific requirement.
- ▶ Valves, Gauges and Instruments of the reputed make.
- ▶ Vent filter and cleaning ball provision.
- ▶ Pressure build vaporiser – standard supply.
- ▶ Valves and gauges provided at convenient locations for easy operations.
- ▶ Jacket & Limpet jacket provision as per requirements.
- ▶ Level indicator provision as per the requirement.
- ▶ We provide complete technical documentation package as per GMP guidelines.



We are one of the leading manufacturer and supplier of Storage Tank is our biggest tank manufacturing category. We provide in range from 100 ltr to 50000 ltr capacity.



DELUMPER CRUSHER

Delumper is designed to handle through processing applications in varied industries including, chemical, plastics, food, nutraceuticals and pharmaceutical industry. It is a versatile size reduction equipment suitable for wet, dry, hard, soft, resinous, brittle or sticky material that renders them free flowing.

FEATURES

- ▶ cGMP compliant design
- ▶ Enables cost-effective, rapid de-agglomeration of variety of material
- ▶ Easy to operate, clean and maintenance
- ▶ Cost effective, rapid de-agglomeration for varied industries
- ▶ Ultra sanitary design for Pharmaceutical and Nutraceutical applications
- ▶ Handles homogeneous or heterogeneous materials, dry powders, resinous, hard or soft agglomerates without degrading the product or overheating the product or producing fines
- ▶ Engineered to fit into open or close systems
- ▶ Powerful crushing capabilities, with option of increasing shaft length and number of blades
- ▶ Material loading by gravity or integrated with vacuum transfer line for cost efficient high throughput
- ▶ Specially designed delumper blades driven using cantilevered drive to execute positive once-through chopping action
- ▶ Eliminates blockages in further processing of material.
- ▶ Highly polished surfaces
- ▶ Can be installed on a platform or mobile structure



HEAT EXCHANGER (TUBE, SHELL & BOX TYPE)

We are one of the leading manufacturer and supplier of Heat Exchanger (Tube and Shell Type) which are used in main chemical, petrochemical, food and processing industry. We offer in 2.5m² – 2000m² range surface area.

FEATURES

- ▶ All components in contact with the product are made of SS 316L and non-contact with the product is made of SS 304.
- ▶ Working pressure up to 40 bar.
- ▶ Working temperature up to 400 C.
- ▶ Design for uniform Heat transfer for better efficiency.
- ▶ We provide complete technical documentation package as per GMP guidelines.



DISTILLATION COLUMN

We are one of the leading manufacturer and supplier of Distillation Column for Chemical and Pharmaceuticals. We provide bubble caps, sieve trays, random packing and structured packing distillation column for batch and continuous distillation.

FEATURES

- ▶ All components in contact with the product are made of SS 316L and non-contact with the product is made of SS 304.
- ▶ Column design as per client requirement.
- ▶ We provide complete technical documentation package as per GMP guidelines.



AGITATED NUTSCHE FILTER-DRYERS



We are one of the leading manufacturer and supplier of Agitated Nutsche Filter-Dryer (ANFD) for Chemical and Pharmaceuticals industries. We offer from 100 ltr to 10000 ltr capacity ANFD.



FEATURES

- ▶ All components in contact with the product are made of SS 316 and non-contact with the product is made of SS 304.
- ▶ VFD controlled agitator for clockwise and anti-clockwise motion with direct drive system.
- ▶ Bottom heated filter plate for uniform heat transfer during drying.
- ▶ Customized nozzle orientation as per customer requirement.
- ▶ Designed to work under vacuum and under pressure.
- ▶ Side discharge pneumatic valves for unloading.
- ▶ Cleaning in place provision
- ▶ Unique S blade agitator
- ▶ We provide complete technical documentation package as per GMP guidelines.

ROTOCONE VACUUM DRYER (RCVD)

We are one of the leading manufacturer and supplier of Rotocone Vacuum Dryers (RCVD) for Chemical and Pharmaceuticals industries. We provide in different capacity range as per client requirement.



FEATURES

- ▶ All components in contact with the product are made of SS 316 and non-contact with the product are made of SS 304
- ▶ Dust filter is provided to trap solid particles.
- ▶ Suitable size condenser & Receiver are provided for solvent recovery.
- ▶ Cyclone separator to recovery the solid particle.
- ▶ Control of Vacuum, temperature & rpm.
- ▶ HMI display to monitor the process parameters.
- ▶ Cleaning in place provision
- ▶ We provide complete technical documentation package as per GMP guidelines.



VACUUM TRAY DRYER

We offer a precision engineered range of tray dryer specially designed for wet cake drying. Available in different models with options for 12, 24, 48 and 96 trays.



FEATURES

- ▶ All components in contact with the product are made of SS 316L & non-contact with the product are made of SS 304
- ▶ Design for uniform utility circulation in the base plate.
- ▶ NRV provision to retain the vacuum during power failure.
- ▶ Inspection glass provision to monitor inside the VTD.
- ▶ Control & display of vacuum, time & temperature.
- ▶ Cleaning in place provision
- ▶ We provide complete technical documentation package as per GMP guidelines.

AIR TRAY DRYER

We offer a precision engineered range of tray dryer specially designed for uniform circulation of hot air in the drying chamber. The sturdily built unit is fitted with thermostatic temperature control up-to 100 degree. Oven is equipped with dry air inlet and wet air exhaust. Available in different models with options for 12, 24, 48 and 96 trays.

FEATURES

- ▶ All components in contact with the product are made of SS 316L and non-contact with the product are made of SS 304.
- ▶ Design for uniform circulation of hot air in the drying chamber.
- ▶ Heating cold and fan motor having electrical inter locking for safety of heating elements.
- ▶ Electric / Steam / Thermic Fluid heating system.
- ▶ Fresh air inlet and outlet air flow can be adjusted with damper control Valve.
- ▶ We provide complete technical documentation package as per GMP guidelines.



FLUID BED DRYER

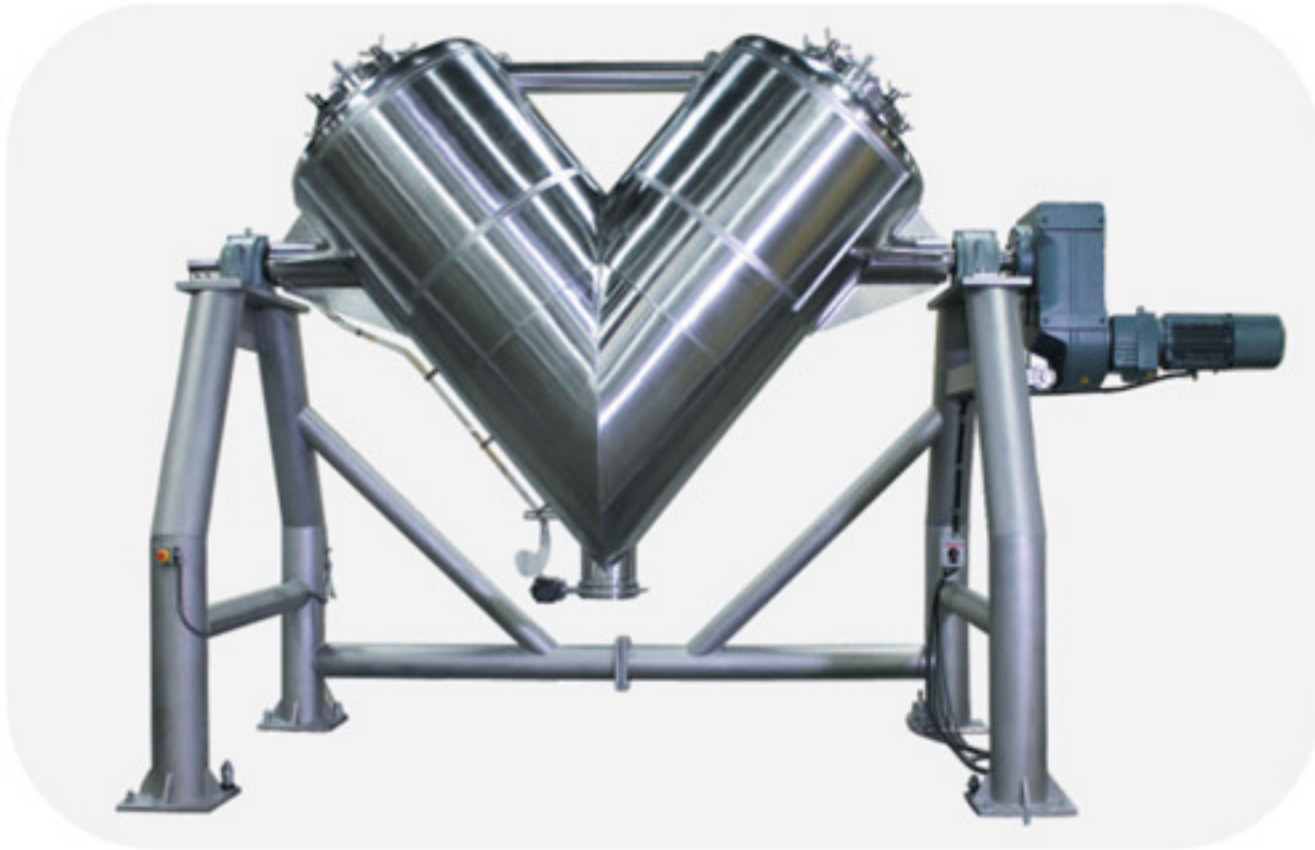
We are one of the leading manufacturer and supplier of Fluid Bed Dryer (FBD) for Chemical and Pharmaceuticals industries. We provide the FBD in different capacity range as per client requirement.



FEATURES

- ▶ All components in contact with the product are made of SS 316L and non-contact with the product is made of SS 304.
- ▶ Variable Air handling equipment from the basic, compact pre-filter & heater to the system
- ▶ These equipment provide complete control of the condition of the processing air uniform drying and reduction in drying time.
- ▶ Involves low man power input to reduce overall operating cost.
- ▶ To prevent any fine dust to pass through the product, the atmospheric inlet air is filtered by means of single / multi stage filters of 20 microns.
- ▶ Steam Coil made out of 1" dia. SS 304/316 finned tube
- ▶ The steam coil is specially designed to get pressure of around 3-4kg /cm²
- ▶ Working pressure 3 kg/cm²
- ▶ A digital temperature indicator cum controller enables in indicating the inlet and outlet air temperature as well as to control the present inlet air temperature
- ▶ To control the inlet and outlet air flow air suction and discharge dampers are provided
- ▶ To prevent static charge in the machine, an explosion safety flap of adequate capacity at therear end of the dryer and an positive earthling point timer is provided that sets the process time cutting off the motor supply after pre-set time period.
- ▶ We provide complete technical documentation package as per GMP guidelines.

V BLENDER



We are one of the leading manufacturer, supplier & Exporter of V Blender in India.

The "V" BLENDER is an efficient and versatile blending machine for mixing and lubrication process of dry powders homogeneously. Approximately two third of the volume of the Blender is filled to ensure proper mixing. The "V" Blenders gives best result for powders due to suitable medium speed and "V" shape of container.

FEATURES

- ▶ All components in contact with the product are made of SS 316L and non-contact with the product are made of SS 304
- ▶ Control of time & RPM with HMI.
- ▶ We provide complete technical documentation package as per GMP guidelines.

OCTAGONAL BLENDER

We are one of the leading manufacturer and supplier of Octagonal Blender. Due to its octagonal shape is designed to process to larger volume of material.

FEATURES

- ▶ All components in contact with the product are made of SS 316 and non contact with the product are made of SS 304
- ▶ Octagonal shaped with rectangular centre, conical discharge frustum and rectangular top frustum.
- ▶ Baffles provided in the shell
- ▶ Manhole with gasket is provided to fix baffles and for ease of cleaning the shell.
- ▶ Charging and discharging is through a butterfly valve. A conical adaptor can be provided for fixing charging drum after butterfly valve.
- ▶ Unit can be provided with bin charging arrangement.
- ▶ All moving parts are enclosed in guards.
- ▶ A safety railing with a limit switch is provided for operator safety.
- ▶ Manual Inching arrangement can be provided.
- ▶ Flame – proof motors with flame – proof push button stations can be provided.
- ▶ HMI display with time & rpm controlling feature.
- ▶ We provide complete technical documentation package as per GMP guidelines.

It occupies less space compared to other similar blenders like 'V' and Double Cone. Power consumption is also less, the blending takes place at low speed during operation. It is well balanced even in higher capacities.



PADDLE MIXER BLENDER

FEATURES

- ▶ Design is in compliance with cGMP.
- ▶ All contact parts AISI 316 & non contact parts AISI 304.
- ▶ High mixing technology provides the ideal environment for effectively mixing a wide distribution of particle size and bulk densities without segregation.
- ▶ Available in Capacity 50 kg to 4000 kg. model.
- ▶ Fluidization assures homogeneous mixes independent of large range of particle size, shape or density.
- ▶ It has ability to mix in approximately 30-60 seconds for dry applications so increased production capacity and consumed energy is potentially 80% less for any given batch.
- ▶ Paddle agitator for center discharge.
- ▶ Inner & outer paddles on the triple action multi-zone rotor.
- ▶ High Speed stirrer up to 60 RPM.
- ▶ Extremely gentle with fragile ingredients.
- ▶ Minimal heat generated due to internal friction & High particle movement.
- ▶ Fast, even liquid addition and coating by spraying system.
- ▶ Ideal for agglomerating and No over mixing.
- ▶ Direct drive gear box with motor.

We are one of the ideal mixing equipment where the uniform or homogenous mixing of wet and dry materials is required. Used in many industries like pharmaceutical, food and cosmetics, chemicals, Agrochemicals, and many others. An even blend of material is obtained by the fluidized action.

HOMOGENOUS MIXTURE OPTIONAL FEATURES

- ▶ AC Frequency Drive with Variable speed.
- ▶ Plough Type Mixing Blade.
- ▶ Cylindrical shell.
- ▶ Chopper Blade assembly.
- ▶ Liquid Spraying system.
- ▶ Jacketing for heating & Cooling.
- ▶ Vacuumized operation.
- ▶ PLC controls with HMI Touch Screen.
- ▶ Flame Proof Electrical.

SAFETY FEATURES

- ▶ Total drive transmission system enclosed.
- ▶ Limit switch installed in the top lid ensure lid is closed.
- ▶ Air pressure switch installed to ensure pressure is in limit.
- ▶ Limit switch installed at discharge to ensure product container underneath of discharge.
- ▶ Overload relay Protection and Emergency stop button.



VERTICAL BLENDER

We are one of the leading manufacturer and supplier of Vibro Sifter for Chemical and Pharmaceutical industries. This series mixer is asymmetrically cantilevered with single helix. The helix will make self-rotation and the screw arm will revolve to complete convection, cutting and diffusing to achieve the purpose of mixing.

Vertical Blender can be applied in the mixture, reaction, drying and cooling of powder to powder (S-S), powder to liquid (S-L), and liquid to liquid (L-L) in the chemical, medicine, pesticide, dye, petroleum, metallurgy and construction material fields.

FEATURES

- ▶ All components in contact with the product are made of SS 316L and non-contact with the product are made of SS 304
- ▶ Available in 100 Kg to 10000 Kg capacity.
- ▶ Control of time & RPM with HMI.
- ▶ We provide complete technical documentation package as per GMP guidelines.



DOUBLE CONE BLENDER

We are one of the leading manufacturer, supplier & Exporter of Double Cone Blender in India. The Double Cone Blender is an efficient and versatile machine for mixing dry powder and granules homogeneously.



All the contact parts are made of stainless steel. The effective volume for optimum homogeneity is between 35-70% of gross volume. The SLANT double cone design eliminates dead spots, which occasionally occur in conventional double cone mixer. It can be used for pharmaceutical, food, chemical and cosmetic products etc.

FEATURES

- ▶ All components in contact with the product are made of SS 316L and non-contact with the product is made of SS 304.
- ▶ Flame proof motor can be supplied as optional.
- ▶ Capacity available 20lts to 3000 Liters.
- ▶ The working capacity can be exchanged to 80% of gross capacity by validated study depending on the product.
- ▶ 'Slant' designed (off centre Double Cone Blender is also available.)
- ▶ We provide complete technical documentation package as per GMP guidelines.

CAGE BLENDER

We are one of the leading manufacturer, supplier & Exporter of Cage Blender in India. The Cage Blender system is a fourth Generator system designed as an integral cycle system from formulation to utilisation. It involves mixing and batch identification of the product during intermediate steps inside the same hermetically sealed container. This system allows that the cGMP. is followed as closely as possible (no cross contamination, no position of the environment).

S. S. BINS

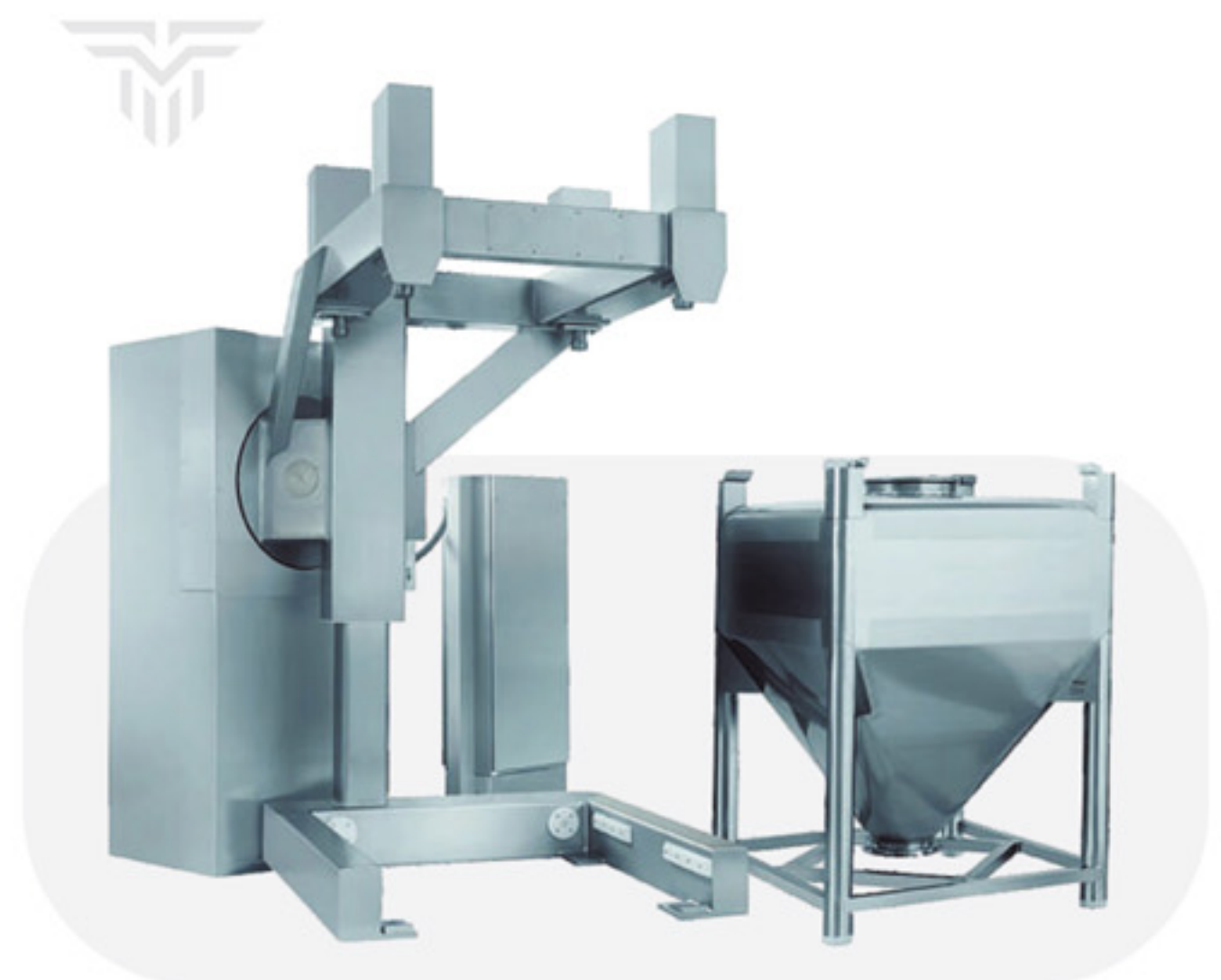
- ▶ The material of construction will be SS-304/SS 316.
- ▶ The bins are shakable one over the other and shall have complete stability.
- ▶ The bins can be lifted stacked and transported by Fork Lift Trucks.
- ▶ The charging hole with cover is provided on top with quick opening & closing arrangement.
- ▶ Each bin has a built-in butterfly valve 200 mm dia at the bottom.
- ▶ Suitable for powder discharge.
- ▶ The bins are highly polished from inside & outside.

FEATURES

- ▶ All components in contact with the product are made of SS 316L and non-contact with the product is made of SS 304.
- ▶ We provide complete technical documentation package as per GMP guidelines.

THE CAGE

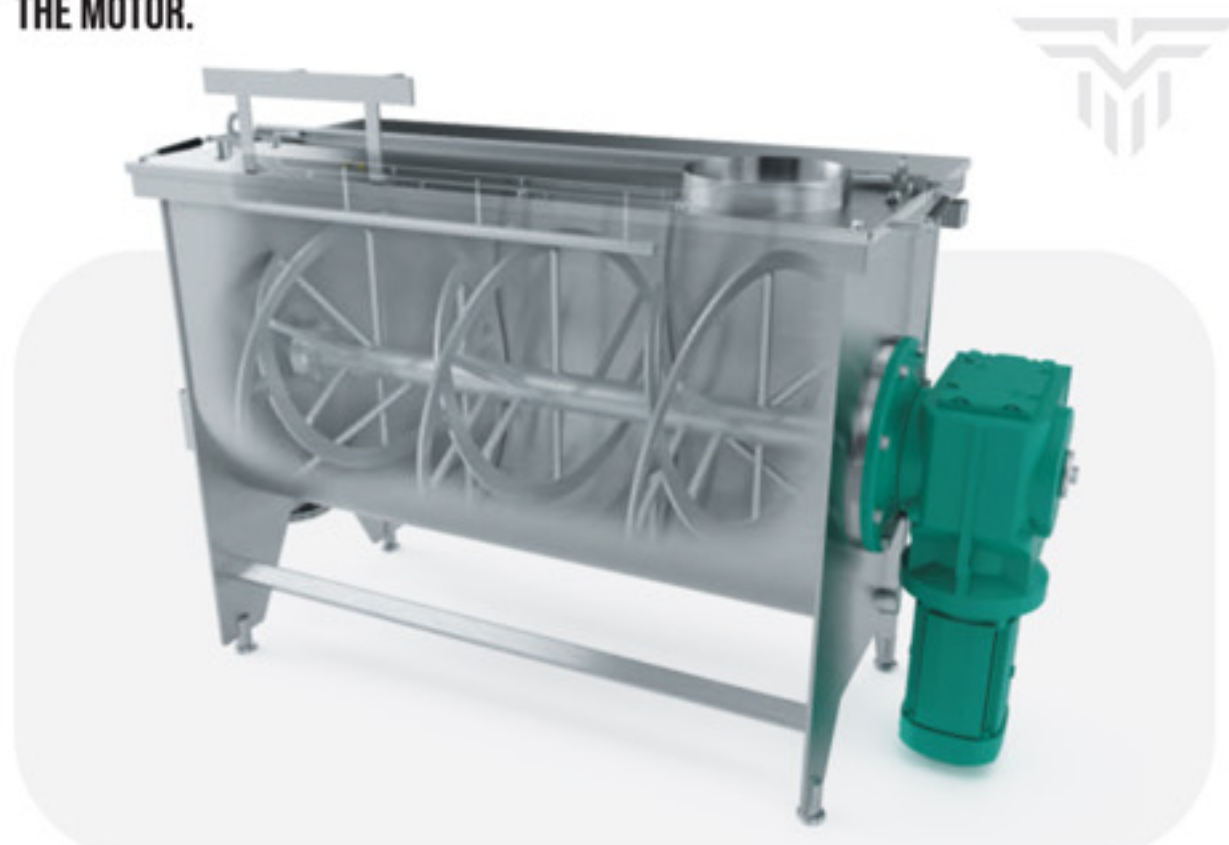
- ▶ A MS/SS Fabricated structures with 1 shaft mounted on bearing housing, it is coupled to the drive consisting of motor and gear box as per the requirement.
- ▶ Manual inching arrangements to bring the cage in position is provided.
- ▶ The provision of locking arrangement for the door & clamping of bins firmly is completely tool proof.
- ▶ A suitable fencing around the cage is provided with an entry point for the fork list. A limit switch is incorporated in the electrical circuit to prevent the operation of the cage when the door is open.



RIBBON BLENDERS

We are one of the leading manufacturers, suppliers & Exporters of Ribbon Blenders in India. The RIBBON BLENDER is an efficient and versatile blending machine for mixing of dry granules & powders homogeneously.

PANEL PROVIDED WITH FOLLOWING FACILITIES IN 500 LITERS & BIGGER MODEL. IN SMALL MODEL ONLY D.O.L. STARTER PROVIDED FOR ON-OFF OPERATION OF THE MOTOR.



FEATURES

- ▶ All components in contact with the product are made of SS 316 and non contact with the product are made of SS 304
- ▶ The shape of container and mixing stirrer gives sufficient continuous movement to the powder / granules result in good quality.
- ▶ Maximum care has been taken to ensure safe operation of the unit.
- ▶ Inching facility for stirrer for discharge of material.
- ▶ Discharge height can be adjusted, if confirm with order.
- ▶ Operating panel provided for safe operation of blender.
- ▶ Centrally located material discharge valve. (Butterfly / Sliding Valve)
- ▶ Dust proof top cover with window provided.
- ▶ General structure completely made out of mild steel and painted in
- ▶ standard Model & the same is cladded with SS304 in GMP model.
- ▶ Safety Guards and Covers made out of SS304 in GMP Model & made out of mild steel in Standard Model.
- ▶ Legs made out of MS and painted in Standard Model & same will be cladded with SS304 in GMP Model
- ▶ Control of Vacuum& rpm HMI display.
- ▶ We provide complete technical documentation package as per GMP guidelines.

RAPID MIXTURE GRANULATOR

Rapid Granulator Mixer is designed to meet special needs of tablet manufacturing technology. This is achieved by reducing processing time, more homogenous mixing, Uniformity of Granule size and above all maintaining improved hygiene compliant to GMP norm.

FEATURE

- ▶ All components in contact with the product are made of SS 316 and non contact with the product are made of SS 304
- ▶ The powder / granules feed through closed bin through docking system and powder / granules loading by gravity or by vacuum.
- ▶ The product bowl is designed with no dead zone for mixing and cleaning. It has a wide curvature radius on the bottom that prevents the sticking of product.
- ▶ The impeller has three blades with a little wing on each tip. It provides the appropriate movement to achieve the highest mixing and agglomeration efficiency.
- ▶ The impeller has scrapers on the bottom of every blade to assure the minimum tolerance from the bottom of the bowl to prevent product sticking and maximize product yield.
- ▶ The chopper is horizontal, located on the side wall of the bowl with a horizontal shaft and runs at variable speed, counter directional to the impeller to prevent lumps forming.
- ▶ The discharge valve is located on the side wall of the bottom of the bowl and has a GMP design to facilitate discharge operation.
- ▶ The pneumatic circuit is suitable for the system, thus preventing dangerous conditions and adding a further level of safety to the operator.
- ▶ Easy to wash in place and has full access for inspection.
- ▶ The online Co - Mill is provided on the discharge port to reduce the oversized lumps, resulting in reduced drying time by approximately 20%.
- ▶ Binder charging through peristaltic pump with required accessories and integrated with PLC. Capacity of pump within 15 to 45 LPM
- ▶ We provide complete technical documentation package as per GMP guidelines.

STANDARD PROCESSING DURATION

- ▶ Dry Mixing approx 3 – 5 Mins
- ▶ Wet Mixing approx 5 – 10 Mins
- ▶ Wet Granulation approx 5 – 10 Mins
- ▶ Discharge approx 1-15 Mins
- ▶ Above time may vary from material to material

RAPID MIXTURE GRANULATOR (RMG) IMPROVED PROCESSING

- ▶ Uniform distribution of all formulation ingredients. Short mixing and granulation time.
- ▶ Useful working capacity of upto 80% to 40% of bowl volume.
- ▶ Uniform granules by gentle processing.
- ▶ Wide range of applications.
- ▶ Easy scale up & Scale down between machine sizes.
- ▶ Bowl shape design to have no dead spaces.
- ▶ PEW's Granulator Mixer can be offered in 10Ltrs. R&D & 25Ltr. / 50Ltr.
- ▶ For R&D or pilot plants. The process parameters derived in the Lab/ Pilot scaled up into production machines. These machines can also be offered with PLC'S



Model	RMG-50	RMG-100	RMG-150	RMG-250	RMG-400	RMG-600	RMG-1000
Gross capacity (ltrs.)	50	100	150	250	400	600	1000
Working capacity (lts.)	40	80	120	200	320	480	800
Batch Size in Kg.	15	30	60	100	150	250	400

STARCH PASTE KETTLE

We are one of the leading manufacturer, supplier & Exporter of Starch Paste Kettle in India. The Starch Is put in the kettle and water is added till desired thickness is achieved. The Kettle is jacketed & is heated till the starch melts a thick paste is achieved.



FEATURE

- Design is in compliance with cGMP.
- All components in contact with the product are made of SS 316L and non-contact with the product are made of SS 304
- Semi hemispherical bowl ensure that entire bowl can be emptied by rotating the worm wheel
- Hemispherical bowl with either steam, electrical or oil heating options available as per user specification
- Options available for with / without agitator.
- Built In Stirrer Arrangement with Lifting and Lowering Device.
- Simplified construction enables ease of operation. Easy to operate and clean
- When used with stirrer / anchor the movement of anchor is forward and reverse using cyclic timer
- Mixing stirrer with VFD control.(Optional)
- Digital temperature controller and digital timer(Optional)
- Tilting provided for ease in unloading of final products.
- Higher capacity models available without tilting but with bottom outlet.
- Capacities available from 25 Ltrs. To 1500 Ltrs.
- We provide complete technical documentation package as per GMP guidelines.

CENTRIFUGE



We are one of the leading manufacturer and supplier of Centrifuge for Chemical and Pharmaceuticals industries. We offer from lab model to 60" size commercial centrifuge. Our team of qualified, trained and hardworking professionals enables to manufacture, supply and export Single Point Scale Centrifuge. Single Point Scale Centrifuge designed in accordance with international quality standards.

FEATURES

- All components in contact with the product are made of SS 316 and non-contact with the product are made of SS 304
- Halar coating for highly acidic material.
- VFD provision for Multi speed operation.
- RPM Display for monitoring.
- Break system for safety
- Low maintenance and power consumption
- We provide complete technical documentation package as per GMP guidelines.

PLOUGH SHEAR MIXER

Consists of a cylindrical drum containing plough shaped mixing elements that are mounted on a horizontal shaft. It creates a mechanical fluidized bed mixing action. The mixing tools project and hurl material away from the wall into free space in a crisscross direction, and inversely back again. The plow separates and lifts the product into three-dimensional motion, while the number and arrangement of the tools insure agitation back and forth along the length of the vessel. When required, the mix action is assisted by high speed chopper devices— independent high-speed motors with customized blades for adding shear to the product mix.

MACHINE IS DESIGNED FOR HEAVY DUTY BLENDING OF BOTH DRY AND WET MATERIALS

APPLICATION

- ▶ Dry powder mixing
- ▶ Paste mixing
- ▶ Mixing of wet slurries
- ▶ Wet granulation
- ▶ Liquid coating of powders and granules
- ▶ Fat and oil incorporation
- ▶ Vacuum drying

FEATURES

- ▶ Design is in compliance with cGMP
- ▶ All contact parts AISI 316 & non contact parts AISI 304.
- ▶ High speed and homogenous Mixing
- ▶ Short Mixing time
- ▶ Easy to operate and clean
- ▶ Avoid agglomeration
- ▶ Normal Temperature and Pressure inside mixer
- ▶ Gear Reducer Motor
- ▶ Gland Packing Seal + Air Purge Seal
- ▶ Pneumatic Operated Outlet Valve
- ▶ Multiple design for plough shovel (plough with teeth, end scraper)
- ▶ Batch size based on 70% of blender volume.
- ▶ Cross Contamination is completely eliminated by mounting
- ▶ Bearings on lanterns out of mixing zone Plough Shovels bolted on sockets are easily removable providing easy accessibility to all inside parts of the mixer
- ▶ Feeding through a charging port mounted on top of the mixer.
- ▶ Inspection Doors with safety interlocks.
- ▶ Reduced material handling due to bottom discharge facility of processed materials.
- ▶ Choppers provision as an optional feature.
- ▶ Fully welded plough shovels can also be provided on request.



MULTI MILL

We are one of the leading manufacturer and supplier of Multi Mill for particle size reduction in Chemical and Pharmaceuticals industries. It operates on the principle of variable force swing beaters having both knife and impact edges rotating within a selected screen to get the required size reduction.

FEATURE

- ▶ All components in contact with the product are made of SS 316 and non contact with the product are made of SS 304
- ▶ cGMP construction with easy dismantling of product contact parts for ease in cleaning.
- ▶ Designed for continuous operation.
- ▶ Cylindrical screen for higher output.
- ▶ Castors provided for mobility.
- ▶ Flame Proof or direct driven machine with VFD can be provided upon request.
- ▶ Direction of beaters can be changed by reversible switch from knife to impact forward and vice-versa.
- ▶ SS 316 beaters and scraper blades.
- ▶ We provide complete technical documentation package as per GMP guidelines.



COLLOID MILL

FEATURE

- ▶ GMP Model
- ▶ All metallic product contact parts shall be SS 316L and non-metallic product contact part if any shall be food grade.
- ▶ MOC of all visible product non-contact parts shall SS 304 and incase use of SS 304 is not feasible, for such either consider other non-reactive material or required cladding with SS 304.
- ▶ Particle reduction 2 to 5 Micron
- ▶ Starter switch to prevent motor
- ▶ Castor wheel for easy movement
- ▶ 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.



VIBRO SIFTER

We are one of the leading manufacturer and supplier of Vibro Sifter for Chemical and Pharmaceutical industries. Vibration is generated in three different planes along the vertical axis by means of a specially designed vibratory motor having off centred weights at the top and bottom end of the motor shaft.

FEATURE

- ▶ All components in contact with the product are made of SS 316L and non-contact with the product are made of SS 304
- ▶ Double and triple deck unit with different screens can be provided.
- ▶ Easy to dismantle for leaning screens. Noiseless, maintenance free unit.
- ▶ We provide complete technical documentation package as per GMP guidelines.



CONTRA ROTARY MIXTURE

We are engaged in the manufacture of Contra Rotary Mixture used for the manufacture of ointments. The mixture contains double contra rotary blades that create a laminar thinning of the material to ensure uniform mixing.

The design of the Contra Rotary Mixture is perfect to withstand the vacuum created during the process of mixing. Further, these also eliminate air entrapment to prevent the foaming agent from forming suds. Mixer is provided with jacket for cooling or heating as per the application. Contra Rotary Mixture, Manufacturer, Supplier and exporter of Contra Rotary Mixture.

FEATURES

- ▶ All components in contact with the product are made of SS 316 and non-contact with the product is made of SS 304.
- ▶ Vacuum application provision.
- ▶ Agitation provision
- ▶ Jacketed suitable for Steam heating
- ▶ We provide complete technical documentation package as per GMP guidelines.



PLANETARY MIXTURE

We are one of the leading manufacturer, supplier & Exporter of Planetary Mixer in India. Although new technologies like single-pot processing are becoming more and more important in pharmaceutical industry, the planetary mixers are still using for basic operations of mixings and blending.

We offer a complete range of Collette planetary mixers, from lab-scale to large production machines, with all features and options that are required for flexible production. Our range of planetary mixers are in strict compliance with cGMP standards. These industrial planetary mixers are designed to be used in the pharmaceutical, food and fine chemical industries.

FEATURE

- ▶ Stainless steel product contact parts 304 or 316.
- ▶ Easy bowl removal without removal of mixing arm.
- ▶ Bowl trolley for easy transport.
- ▶ Special safety ring prevents injury to hands between bowl & lid.
- ▶ Bowl cover incorporates filling aperture & inspection window.
- ▶ Planetary movement provides very intensive, quick, homogeneous & dead-spot-free mixing.
- ▶ Bowl height sufficient for recipient container to be placed underneath.
- ▶ Top driven design eliminates contamination through packing & seals.
- ▶ Crank case design prevents oil leakage into bowl.
- ▶ Removable bowl design and arm interchangeability allow easy cleaning and quick changeover.
- ▶ Machine supplied as a complete unit only requires leveling and connection to electrical & air supply.
- ▶ We provide complete technical documentation package as per GMP guidelines.



OINTMENT PLANT / CREAM MANUFACTURING PLANT

We are one of the leading manufacturers, supplier & Exporter of Ointment Manufacturing Plant in India. We offer Ointment Manufacturing plants that are ideal for the preparation of ointment cream.

Our high-quality Ointment Plant offers easy cleaning and completely untouched process that reduces the chances of contamination. It comes with pre-mixing wax and water phase vessels along with the main manufacturing vessel. Moreover, our Ointment manufacturing plant vessels are made of SS316 and designed in compliance with cGMP norms.

EQUIPMENTS USED IN OINTMENT PLANT

- ▶ Wax heating Vessel.
- ▶ Water Melting Vessel.
- ▶ Manufacturing vessel.
- ▶ Storage vessel.
- ▶ Interconnecting pipeline.
- ▶ Pumps -Lobe Pump and metering pumps.
- ▶ Integrated automatic control panel.
- ▶ Working Platform.

FEATURE

- ▶ All contact parts are constructed of SS 316 L and all Non- contact parts are constructed of SS 304
- ▶ Control of temperature & mixing time
- ▶ Pneumatic valves for addition of water & other solvents
- ▶ Automatic control valves to operate the utilities.
- ▶ Load cell for weighing
- ▶ Recipe creation and storage
- ▶ Use specific IDs & passwords
- ▶ Print out of batch report / alarm report & audit trail report.
- ▶ We provide complete technical documentation package as per GMP guidelines.



SYRUP PLANT

We are one of the most experienced Syrup Plant manufacturer, supplier and exporter. We offer syrup manufacturing plants that are best suitable for the production of oral liquids or syrup. Equipped with an electrical control panel with digital temperature indicators and digital timer, it is one of the best options available today.

Syrup plant, also known as Syrup Machine, is most suitable for the pharmaceutical industry for the production of syrups. This high tech machine is equally user-friendly and it can be easily operated by centralised operating panel by one operator.

The syrup manufacturing plants are ideal tools for the pharmaceutical industry and food industry for the production of oral liquids. Ideal solution to the pharmaceutical industry for the production of oral liquid. The process consists of sugar syrup preparation. Ingredient mixing and storage with product distribution piping.

Range of plant covers from 100 L to 20,000 L with various options in top and bottom entry agitators for mixing and homogenizing of syrup & suspensions. Product contact parts are SS 316 with option of jacketed vessels and heating system suitable for steam as well as electrical.

EQUIPMENTS USED IN OINTMENT PLANT

- ▶ Sugar Melting vessel with mixing stirrer
- ▶ Basket Filter & Transfer Pump
- ▶ Syrup manufacturing vessel with stirrer
- ▶ Inline homogeniser
- ▶ Zero hold up filter press
- ▶ Storage tank with stirrer
- ▶ Interconnecting Pipelines
- ▶ Transfer pumps
- ▶ Integrated Automatic Control Panel

FEATURE

- ▶ All contact parts are constructed of SS 316 L & Non- contact parts are constructed of SS 304
- ▶ Control of temperature & mixing time
- ▶ Pneumatic valves for addition of water & other solvents
- ▶ Automatic control valves to operate the utilities.
- ▶ Load cell for weighing
- ▶ Recipe creation and storage
- ▶ Use specific IDs & passwords
- ▶ Print out of batch report / alarm report & audit trail report.
- ▶ We provide complete technical documentation package as per GMP guidelines.



TECHNICAL DOCUMENTATION PACKAGE

Equipments come along with all documents like

- ✦ Operational manual along with print screen.
- ✦ Installation, operation and maintenance manual.
- ✦ Electrical and control wiring diagram for panel.
- ✦ Material of construction certificates.
- ✦ Piping & Instrumentation Diagram.
- ✦ Calibration certificates
- ✦ GA Drawings.
- ✦ List of Equipment/Instrument/Mechanical Component/
Electrical component
- ✦ Brought-out items certificates.
- ✦ Spare parts List.
- ✦ Calculated product contact surface area along with
drawing of each calculated part.
- ✦ Instrument calibration certificate
- ✦ Hardware documentation (User manuals).
- ✦ Software manual of the control software.
- ✦ Disaster recovery system and documentation.
- ✦ PLC input / output details
- ✦ PLC validation documents
- ✦ List of all possible alarms and failures.
- ✦ Lubricant lists with lubricant schedule.
- ✦ Utility list.
- ✦ DQ, FAT, IQ, OQ, PQ documents



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