

(An ISO 9001 : 2015 Certified Company)



PHARMA MACHINERY

Manufacture & Exporter Pharma machinery &
Chemical Equipments

**WE PROVIDE 100%
SATISFACTION IN
Pharmaceutical
Equipments**



Profile

"Quality Which Is Never Ending Quest"

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We are pleased to introduce ourselves as engaged in manufacturing and marketing a wide range of machinery & equipments for pharmaceutical, food, cosmetics and chemical industries. The quality and proven performance of the machines manufactured by us and supplied to our valued customers has earned a good patronage.

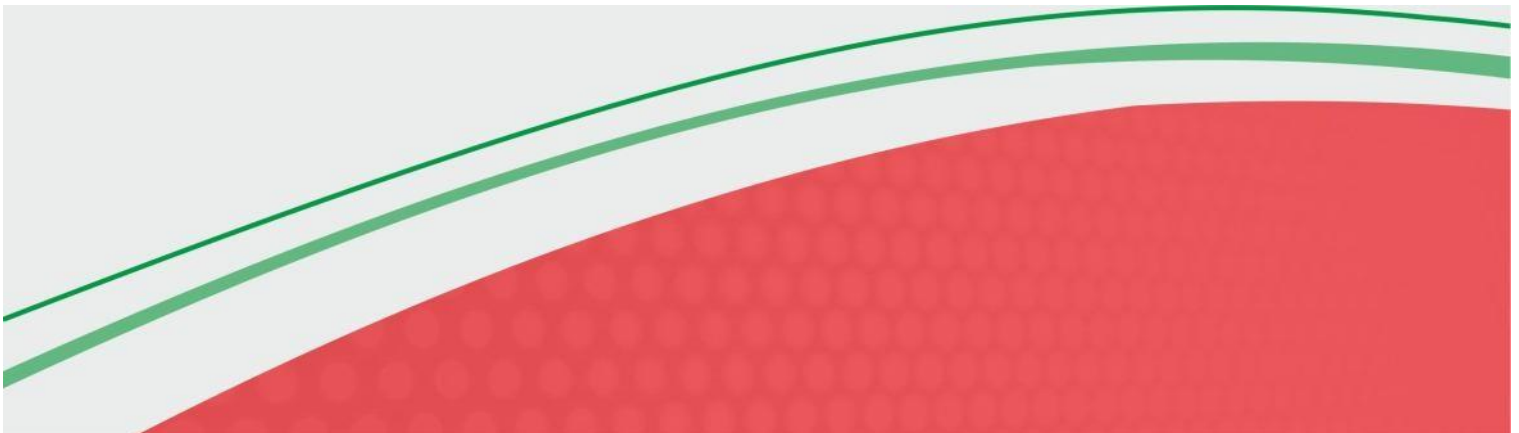
We strive for customer satisfaction with a reasonable price and quality machines is our motto. Our ambition is to grow with the upcoming pharma industry by enhancing our innovation and implementing new technologies to produce CGMP machines in India. So we would like to work closely with the pharma industry and to share our common experience and to frame appropriate machines under CGMP guidelines for India expeditiously.



Quality Control emphasizes testing and blocking the release of defective products.

Quality Assurance is about improving and stabilizing associated processes to avoid or at least minimize issues that led to the defects in the first place.

However, QA does not necessarily eliminate the need for QC : Some product parameters are so critical that testing is still necessary just in case QA fails.





PHARMA MACHINERY

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❖ **RAPID MIXER GRANULATOR (RMG)**



❖ **SALIENT FEATURES :**

- Capacity 5 Ltrs 1000 Ltrs
- Dual Speed Impeller And Chopper
- Suitable For Efficient & Fast Mixing Of Granulation Of Ingredients
- Material Handling System Is Provided For Loading Of Material
- CIP System Will Be Provided With Pump As Optional
- M.O.C. S.S. 304/316/316L
- Consistent Quality In Each Batch
- Fully Hygienic Mixing.
- Option -Arrangement For Binding Spray
- Machine With PLC System As An Optional
- CGMP Model With Documentation (IQ, DQ, PQ, OQ) -As Option

Due to constant up gradation in design and manufacturing all dimension & specification are subject to change and alteration without prior notice.



PHARMA MACHINERY

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❖ FLUID BED DRYER (FBD)



❖ SALIENT FEATURES :

- Very Versatile Process Equipment For Uniform And Efficient Drying Of Products.
- Fully Automatic Operation Based on PLC Control / Without PLC Control
- Minimum Handling And More Hygienic
- Lifting & Tilting Device Of Product Container For Easy Handling
- Capacity Available From 5 Kgs to 500 Kgs.
- FLP Models Available As Option
- MOCS.S. 304/316/316L
- Option - Steam Heated Or Electric Heated Blower
- CGMP Model With Documentation (IQ, DQ, PQ, OQ) - As 500 Option

Model	15	30	60	120	200	250	300	500
Container Volume: Litres	18	100	200	380	65	800	980	1700
Batch Capacity : in Kg	5-8	30-40	60-75	120-140	200-225	250-280	300-300	500-500
Drying Temp C	50-80	50-80	50-80	50-80	50-80	50-80	50-80	
Motor H.P.	3	5	10	15	20	25	30	60
Heating Load: KW for Electrical Heating Approximately Steam	9	18	36	54	Electrical Heating not recommended			
Consumption Kgs./hr at Steam pressure 3 Kg/cm ²	15	25	50	100	160	200	250	430

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❖ MULTI MILL



❖ SALIENT FEATURES

- Suitable for Granulation/Pulversing/shredding & Chopping of Materials
- Multi Seed Drive for various Product Grading.
- Easy Dismantling & Cleaning.
- Output 20kg To 400kg / HR Depend upon Machine Model Characteristic of Product & the Screen Size.
- Easy maneuverability with the help of Castor Wheels.
- Beaters 8 to 12.nos. with Knife/Impact Edge & 2 Scraper Blades.
- Rotor Speed – 750 / 1500 / 2100 / 3000 RPM Approx.

MULTI MILL is designed to utilise the principle of variable force swing beaters having both knife and impact edges rotating within a selected screen to control the particle reduction. Material fed in to the processing chamber moves to the periphery and passes through the screen radially and tangentially. Finally the processed material gets collected in to the container kept below the processing chamber.

Technical Specifications

Drive Motor : 3HP / 1440 rpm / 3 Phase / 440V / AC. D.O.L. starter provided with reversible switch.

Rotor RPM : 750 / 1400 / 2200 / 2800 (approximate).

Blades 12 Nos. with Knife & Impact Edges & 02 Nos. Scraper Blades.

Output: Depending upon the products and the reduction required in sizes.

Foundation not required. Castor wheel mounted base.

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❖ COLLOID MILL



❖ SALIENT FEATURES :

- Unique for Grinding , Homogenizing , Emulsifying , Dispersing , Mixing and Extracting.
- Versatile Machine for Homogenizing and Milling Upto 5 to 10 Micron Particle.
- Three way Cock System for Draining and Recirculation of the Liquids Provided as Standard. Extra Discharge Sprout Provided as a Standard for Viscous Products.
- Modified Design of Semi Concave Teeth in Rotor and Stator Reduces Motor H.P. and Gives Better Performance in Size Reduction without Damaging the Product.
- Contact Parts Can Easily Dismantled for Cleaning.

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PHARMA MACHINERY

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❖ VIBRO SIFTER



❖ SALIENT FEATURES :

- Ideal For Gradation & Separation Of Dry Powder, Granules And Semi Solids/ Liquids.
- Models 20", 30", 36", & 48"
- Modular Design Of Decks With Easily Fitted Clamps
- Suitable For Widest Range Of Material
- Less Power Consumption, Variable Flow Pattern
- Dust Free Arrangement, Lead Free Sieves
- Easy Dismantling And Cleaning
- Output 80 to 200 Kgs/hr Depend Upon Characteristic Of Material
- M.O.C.S.S. 304/316/316L
- Rubber Moulded Sieve As Optional
- Ball Tray Arrangement (For Chocking Of Sieves)
- Freed Tray Arrangement (for Smooth Flow Of Materials)
- CGMP Model With Documentation (IQ, DQ, PQ, OQ) -As Option

Model	12"	20"	30"	36"	48"
Screens	SS 316 / 304	SS 316/ 304	SS 316 / 304	SS 316/304	SS 316/ 304
Screen Dia.	335mm.	520mm.	750mm.	950mm.	1220mm.
Capacity/Hour*	20 to 70 kg	20 to 140 kg	30 to 250 kg	80 to 300 kg	200 to 400 kg
Charging Height	1080 mm	1200 mm	1200 mm	1200 mm	1050 mm
Discharging Height	625 mm	750 mm	750 mm	750 mm	500 mm
Electric Motor	0.25 HP special	0.25 HP special	0.5 HP Special	0.5 HP Special	1.5 HP Special
	Vibratory Motor	Vibratory Motor	Vibratory Motor	Vibratory Motor	Vibratory Motor
Net Weight (Approx.)	70 Kgs.	150 Kgs.	1 70 Kgs.	200 Kgs.	225 Kgs.
Machine Dimension	750mmx750mm	1120mmx1120mm	1360mmx1360mm	1550mmx1550mm	1950mmx1950mm
(LxWxH)	1080mm	1200mm	1200mm	1200mm	1050mm

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❖ TURBO/CENTRIFUGAL SIFTER



❖ SALIENT FEATURES :

- Model Available :
- M.O.C.S.S304/316/316L
- It is most suitable for Large Quantum Sifting & Milling.
- It is Portable, Compact in Design and Totally Vibration Free.
- The product feed & Discharge being a continuous process, the entire system can be provided for online Applications with Dust Free arrangements.
- It can be easily dismantled, Cleaned and Assembled in a short duration.
- It need less maintenance & Power consumption than the conventional sifters.
- High Capacity & Optimum use of Space.
- Castors wheels provided in the bottom for easy Mobility.
- GMP model with documentation (IQ, DQ, PQ,OQ).

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❖ **OSCILLATING(GRANULATOR)**



❖ **SALIENT FEATURES :**

- Standard Model, Hopper Capacity 34 Ltrs. The Body of the Machine Is "L" Shaped Structure Screen Area 12.6" X 14.5"
- Drum Size 5.4" Dia X 14.4" Length
- Output 30 To 200 Kgs/hr(App. for Damp. Materials)
- 200 To 500 Kgs/hr (app For Dry Materials) Output Depends On The Characteristic Of Particle Product And The Reductions Required In Size.
- Power Supply- 2hp, 1440 Rpm 440 Volts 3 Phase 50 Cycles A.C. Net Weight 250 Kgs.Approx
- Gross Weight 400 Kgs.Approx
- Overall Dimension -32" x 18"x49" (H)
- Compact & Sturdy Unit
- CGMP Model With Documentation (IQ, DQ, PQ, OQ) -As Option

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❖ TRAY DRYE



❖ SALIENT FEATURES :

- Double Wall Construction.
- Rigid S.S Frame Work.
- Glasswool Insulated.
- Heating Media - Electric/ Steam For Uniform Drying.
- Unit With Air Inlet, Air Filter.
- Adjustable Damper (Outlet).
- Specially Designed Locking System is Provided Easy Tighting of the Door.
- Sophisticated Control Panel With On/Off Push Buttons Indicating Lamps.

Models	TD-12	TD-24	TD-48	TD-96	TD-192
Loading Capacity	12 Trays	24 rays			
No. of Doors	One	One	One	Two	Two
No. of Blowers	One	One	One	Two	Two
No. of Motors / H.P	1 / 0.5 H.P.	1 / 0.5 H.P	1 / 1 H.P	2 / 1 H.P	4/ 1 H.P
3 phase 415 volts	3 phase 415 volts	3 phase 415 volts	3 phase 415 volts	3 phase 415 volts	3 phase 415 volts
Electrical Heating Load for 100C/ 200C / 300 C	3kw/6kw/ 9kw	6kw/9kw/ 12kw	9kw/15kw /18kw	15kw/21kw/ 27kw	36kw/42kw/ 48kw
Steam Heater No. of coils.	2	2	2	2	2
Steam Pressure	3.3 kg / cm2	3.3 kg / cm2	3.3 kg / cm2	3.3 kg / cm2	3.3 kg / cm2
Steam Consumption	25 LBS / hr	45 LBS / hr	60 LBS / hr	80 LBS / hr	120 LBS / hr
Insulation in mm 100C/ 200C / 300 0C	50 / 75 / 75	50 / 75 / 75	50 / 75 / 75	75 / 75	50 / 75 / 75
No of Trolleys	Rack System	Rack System	Rack System	Rack System	Rack System
Tray Size	812 x 406 x 31	812 x 406 x 31	812 x 406 x 31	812 x 406 x 31	812 x 406 x 31
Trolley Dimension	Fixed Racks	Fixed Racks	Fixed Racks	Fixed Racks	Fixed Racks

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❖ VACUUM TRAY DRYER



❖ SALIENT FEATURES :

- Suitable Size Condenser & Receiver in SS 316/304 to Condensate Collection.
- Specially Designed Locking System is Provided Easy Tighting of the Door.
- View Glass is Provided on the Receiver to see Condenser Level.
- Vacuum and Temperature Gauges are Provided.

		Tray on	Water Heating System		Oil Heating System		
Models	Shelves Nos Tray Nos	each self	Heater KW	Circ. Pump	Heater kw	Circ pump	Vacuum pump
VTD 06	6+1 Dummy 6	1	3	0.5	6	0.5	2/3
VTD 12	6+1 Dummy 12	2	6	0.75	9	1	3
VTD 24	12+1 Dummy 24	2	12	0.75	18	2	5
VTD 36	12+1 Dummy 36	3	15	1	24	2	5/7.5
VTD 48	16+1 Dummy 48	3	18	1	36	3	7.5
VTD 96	16+1 Dummy 96	6	30	1 / 2	48	3	12.5/15

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❖ **STARCH PASTE KETTLE**



❖ **SALIENT FEATURES :**

- It is Specially Designed for Preparation of Binder Material.
- Hemispherical Kettle with Jacket Mounted on Trunion Supports with the Help of Shaft.
- The Kettle has a Small Cylindrical top Shell With a Spout for Pouring out Binder Mass.
- Jacket is Provided with Steam Accessories, Pressure Gauge , Safety Valve and Vent Cock.
- The Kettle is also Provided with a Lever with Hand Wheel to Accomplish Tilting Manually.
- The Kettle is Provided with 16 Swg Thick S.S.304 Lined Lid.

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❖ DOUBLE CONE BLENDER



❖ SALIENT FEATURES :

- Capacity 25 Ltrsto 10,000 Ltrs
- Efficient& Versatie Mixer.
- Ideal For Mixing Powders&Homogenous Lubrication OfGranules.
- S.S. Baffles Are Provided.
- Safety Guards Provided With Limit Switch Interlocked To Motor.
- EasrCharging Of Materials Through S.S Bins.

MODEL	GROSS CAPACITY (in Liters)	WORKING CAPACITY (in Liters)	OVERALL DIMENSIONS (in mm)			MOTOR HP
			(L)	(B)	(H)	
VSPM-CB-75	75	53	1000	2000	1500	2.HP
VSPM-CB-150	150	70	1800	2000	1500	3.HP
VSPM-CB-300	300	210	1800	2800	2000	3.HP
VSPM-CB-500	500	350	1800	3000	2200	5.HP
VSPM-CB-750	750	525	1800	3200	2200	5.HP
VSPM-CB-1000	1000	700	2000	3500	2400	10.HP
VSPM-CB-1500	1500	1050	2300	4000	3400	10.HP
VSPM-CB-2000	2000	1400	2500	4300	3600	15.HP

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❖ Rotocon Vacuum Dryer



Application : A rotary cone vacuum dryer is used for drying and mixing raw materials to make a product. This machine can be used in pharmaceutical materials, making insecticides, pesticides, and also for food products and cosmetics.

The connection pipe is turned upwards in the cone and is fitted with a dust filter at its end. Inlet and outlet pipes pass through the outer trunnion for the supply of suitable heating medium to the jacket. A special design of a rotating valve is used for this purpose. One of the trunnions is driven through a

reduction gear and chain drive. Rotation speed will range from 12 rpm for small units to large commercial installations. The Horsepower is varied between 0.5 and 15. The base cylinder diameter is about 1 m to 3m.

The RCVD facilitates enhanced drying efficiency, low temperature operation and economy of process by total solvent recovery. It helps cGMP base working by achieving optimum dust control, while offering advantages of efficient charging and discharging of materials.

❖ SALIENT FEATURES :

ROTATING CONE WITH VACUUM DRYER is high precision low temperature vacuum Drying. The Rotated Double Cone Vacuum Dryer is suitable for drying the material which operates at low Temperature, easily oxidized, poisonous in nature. The drier is advanced in design, simple in inner structure, easy for cleaning, to discharge all raw materials, convenient in operation and improving work environment. Meanwhile raw material is rotating accompanying with the rotating of container; raw materials cannot be accumulated onto the wall of container, so it has high efficiency heat transfer and high speed drying which save energy.

- Granular / pasty wet materials can be handled.
- Low temperature operation is possible.
- Solvent recovery can be carried out.
- System is batch.
- High energy efficient.
- Mode of heating is indirect.
- Conduction drying & Closed operation.



PHARMA MACHINERY

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❖ OCTAGONAL BLENDER



❖ SALIENT FEATURES :

- Suitable For Quick And Efficient Mixing For A Complete Range Of Powders, Particulate And Granular Materials.
- Homogeneous Mix. Gentle Tumbling Action With A Specially Designed Baffle.
- Easy Charging Of Materials Through S.S. Bins.
- Capacity -20 Ltrs. to 10,000 Ltrs.
- MOC-S.S. 304/316/316 L
- Shape Of Container -Polygon Shaped Frustum.
- S.S. Octagon Type Body With Rectangular Central Portion Top And Circular Bottom With A Butterfly Valve.
- CGMP Model With Documentation (IQ, DQ, PQ, OQ)-As Option

MODEL	GROSS CAPACITY (in Liters)	WORKING CAPACITY (in Liters)	OVERALL DIMENSIONS (in mm)			MOTOR HP
			(L)	(B)	(H)	
VSPM-OCB-75	75	53	1000	2000	1500	2.HP
VSPM-OCB-150	150	70	1800	2000	1500	3.HP
VSPM-OCB-300	300	210	1800	2800	2000	3.HP
VSPM-OCB-500	500	350	1800	3000	2200	5.HP
VSPM-OCB-750	750	525	1800	3200	2200	5.HP
VSPM-OCB-1000	1000	700	2000	3500	2400	10.HP
VSPM-OCB-1500	1500	1050	2300	4000	3400	10.HP
VSPM-OCB-2000	2000	1400	2500	4300	3600	15.HP

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❖ **V BLENDER**



❖ **SALIENT FEATURES :**

- Model Available : 15 Litres to 1 500 Litres.
- M.O.C.S.S304/316/316L
- The Blend is Achieved by the Constant Dividing & Intermeshing of particle movement provided by two Connected Cylinders.
- The Particle size reduction is Minimized Due to the absence of any moving blades.
- Suitable for Quick & Efficient mixing for a complete range of Powders, Particulate & Granular Materials.
- Easy Charging of Materials through S.S. Bins.
- Safety guards provided with limit switch interlocked to Motor.
- Option Flame Proof Motor & Control Panel. Mechanical/ Hydraulic Pallet Truck. Variable Frequency Drive (VFD).
- Material Charging Platform. Can be offered for Vacuum Application.
- GMP model with Documentation (IQ,DQ,PQ,OQ).

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PHARMA MACHINERY

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❖ **RIBBON BLENDER**



❖ **SALIENT FEATURES :**

- Ideal for Uniform and Homogeneous Mixing of Dry or Semi - Wet Powder & Granules Where High Shearing Force is not Required.
- Basically an Open Tub with Welded or Bolted end Caps on Each End.
- Shaft Seals Incorporated Into End Caps.
- Bearings Supported by Framework.
- PTFE Gland Mechanism Provided at Shaft Ends to Prevent Outside Lubricants From Entering into the Mixing Chamber and to Prevent Inner Leakage.
- The Drive System is Through a Suitable Worm Gear Motor
- Bottom Discharge Slide Regulated Through Butterfly Valve of Suitable Diameter.

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PHARMA MACHINERY

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❖ **MASS MIXER**



❖ **SALIENT FEATURES :**

- Ideal For Mixing Dry&WetMaterial.
- Paddles Type Blades So Arranged On The Shaft To Give Through Uniform Mixing Of Thick Heavy Material.
- The Drive System Is Through Suitable Worm Gear And Motor.
- Provision For Tilting Arrangement, Reversible Switch And Safety Lock-switch To Stop The Mixer As Soon The Cover Is Opened.
- PTFE Gland Mechanism Provided at Shaft ends to Prevent Inner Leakage.
- The Mass Mixer Is Also Provided With A Lever With Hand Wheel To Accomplish Tilting Manually.



PHARMA MACHINERY

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❖ COATING PAN



❖ SALIENT FEATURES :

- Suitable For Coating Of Tablets & Confectioneries (Sugar/ Film Coat)
- Models Available From 12" To 72"
- Suitable Exhaust Blower Available Heaters & Blower Motor Is Electrically Interlocked
- MOCS.S.304/316/316L
- Angle Inclination Of 45 And Can Be Adjusted As Pre Requirement
- Drive Unit With Reduction Gear Box Provided
- S.S. Structure With Adequate Opening For Easy Maintenance
- CGMP Model With Documentation (IQ, DQ, PQ, OQ)- As Option



PHARMA MACHINERY

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❖ INLINE HOMOGENIZER



❖ SALIENT FEATURES :

- Rotor And Stator Type
- Trolley Mounted, With Pu Wheels And Support For Easy Handling.
- Different Type Of Stator (coarse/medium/fine) for Specific Particle Size Reduction



PHARMA MACHINERY

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❖ ZERO HOLD UP FILTER PRESS



❖ SALIENT FEATURES:

- Complete filtration of the batch without any hold up due to reverse flow of liquid hence large saving in time & cost.
 - Back wash facility can be provided for continuous operations.
 - No scavenger arrangement required.
 - The cake, filteraid & solids remain totally enclosed allowing filtration of toxic, hazardous & explosive liquids.
 - No contamination of internal surface of shell.
- The top dome structure ensures fast & easy removal of cartridge assembly & cleaning of cake.
- Other features same as standard flow type.

Model	Dia. Of Plates	No. of Plates	Filtering Area(m)	Cake Holding Capacity	Flow Rate LTRS/HRS	Size of Pump	Motor HP
VPMZH - 8	8"	6	0.217	4.5	600	0.5"	1 HP
		8	0.279	5.5	800	0.5"	1 HP
VPMZH - 14	14"	8	0.819	22.5	1500	1"	2 HP
		10	1.001	27.5	1700	1"	2 HP
		12	1.183	32.5	1900	1"	2 HP
VPMZH - 18	18"	10	1.65	44	4000	1.5"	3 HP
		12	1.95	52	4600	1.5"	3 HP
		15	2.40	64	5500	1.5"	3 HP
		24	3.75	100	8200	1.5"	3 HP
VPMZH - 24	24"	15	4.192	136	7000	2"	5 HP
		18	5.035	162	8500	2"	5 HP
		24	6.625	213	12500	2"	5 HP
VPMZH - 33	33"	7	4.176	118	7000	2.5"	5 HP
		10	5.736	163	10000	2.5"	5 HP
		14	7.821	222	13500	2.5"	5 HP
		22	12.5	345	20000	2.5"	5 HP



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❖ **MEMBRANE FILTER HOLDER**



❖ **SALIENT FEATURES :**

- Model Available : 142mm & 293mm Dia.
- M.O.C.S.S304/316/316L.
- It is provided with Center and Non Sticky S.S. Perforated Sieve, Silicon 'O' Ring Detachable S.S. Stand and with Inlet Outlet Connection etc.
- Option :
Bubble Test Arrangement.



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❖ IPC Bunker and Bins



❖ SALIENT FEATURES :

- Model Available : 10 Litres to 2000 Litres.
- M.O.C.S.S304/316Quality
- Suitable for Inline Process with Milling, RMG & Sifter
- It helps to Control Containment and Cross Contamination.
- Provided by Butterfly Valve for Discharge.
- Personal Safety.
- Effective Process & Unit Operation Feed.
- Reduction is Segregation.
- Bin with Square tank with 4 leg & Bottom Slope from Body to Valve, Which are required to be use at Blender.
- Bin with Round Shape Tank with 4 legs & Bottom Slope from Shell to Valve, Which are Required to just store & move the Material.
- GMP model with Documentation(IQ,DQ,PQ,OQ).



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❖ Conta Blender GMP



❖ Special Features

- All contact parts are S.S. 316L as per cGMP Standard.
- 0° stopping for easy docking and unlocking of the bin.
- Automatic operation of the blending cycle through pre-set timer.
- Built in butterfly valve for at the bottom for discharge.
- Heavy duty structure with safety railing interlock.
- Entire working area of the blender is protected by railing, if railing will open drive will stop Immediately.
- Short mixing & granulation time.
- Easy to clean design.
- Capacity – 1.ltr's to 1500.ltr's

❖ Advantages

- Processing of different sizes of production in single equipment.
- Dust free operation in solid dosage processing area.
- No risk of defending on extended processing.
- Containerized transfer of processed material avoiding manual scooping.

❖ Lifting and Positioning Device



Lifting and positioning device is designed to lift and position any type of 'in process' container or storage bins. This device is mainly used in solid dosage manufacturing and also for liquid compounding operation. This device is designed to achieve dust free transfer of 'In process' enhancing cGMP standard and eliminates laborious manual operation

Technical Specification :

- Lifter is designed for capacity of 150 - 2500KG
- Lifter arm is made of S.S 304 material
- Main lifting column is made of MS structure and externally claded by SS 304 material with front side covered with PVC bell to prevent powder entering the column area.
- Floor and coding swivel bearing units are completely enclosed with SS 304 Material.
- Hydraulic lifting arrangement comprised of double acting hydraulic cylinder, actuated by gear pump through directional control valve.
- Power Pack -The electro hydraulic power pack consist of reservoir oil level indicator,filter breather,suction stainer, gear pump and electric motor
- Operation Safety -To have safe operation to protect man and machine our lifting unit is provided with various protective arrangements such as non return valve, which prevents lifter coming down incase of hose failure .
- Bin up position locking arrangement be given by means of special stopper arrangement on request.
- . No Chance of any kind of segregation happening during transfer of blend
- Gross Weight - 3000Kg
- Net Weight-2500Kg



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❖ OINTMENT PLANT



❖ SALIENT FEATURES :

- The Automatic Liquid Manufacturing Plant Is Designed To Be Operated Only By One Operator.
- All Material Transfer Are Done By Vacuum Or By Transfer Pumps.
- All The Vessels Are Cgmp (paint Free Construction).
- The Gaskets Used Are Of Silicon (food Grade)
- All Contact Parts Are Of S.s.316 (ss304 Provided On Demand) & Finished To Mirror & Matt Finish.
- The Entry Of Stirrer & High Speed Emulsifier Are From Top. In-line Emulsifier (as Per Customer Choice) Provided On Demand. (optional In Liquid Manufacturing Plant).
- Transfer Pumps Provided To Transfer Ready Product To Filling Line.
- The Entire Plant Is Equipped With Cip & Sip Connections, So That Customer Can Use This Facility, If Have Cip & Sip Equipment.
- All Values Of Temperature & Time Of The Plant Are Indicated Digitally On The Control Panel. Ampere Indicates On Ampere Meters. (automatic Liquid Manufacturing Plant).

Manufacture & Exporter Pharma machinery & Chemical Equipments

❖ LIQUID / SYRUP / ORAL MANUFACTURING PLANT



❖ SALIENT FEATURES :

Capacity from 100 Litres upto 2000 Litres:

- The Automatic Liquid manufacturing plant is designed to be operated only by one operator and one helper.
- All material transfers are done by Vacuum or by Transfer Pumps.
- All the Vessels are CGMP (Paint free Construction).
- The Gaskets used are of Silicon (Food Grade).
- All Contact parts are of S.S. 316 Quality material (SS304 provided on demand) & Finished to mirror finish and crevice free.
- The entry of Stirrer & High Speed Emulsifier are from top. In-Line Emulsifier (As per customer choice) provided on Demand. (Optional in Liquid Manufacturing Plant).
- All Vessels are suitable for internal pressure of 1 KG./SQ. CM. and Hence can be Sterilized.
- All Pipes, Pipe Fittings and Valves are of SS316 / Ss304 (As per customer requirement) Seamless Quality, Internally Electro Polished, with Tri-Clover Ended Joints.
- Transfer pumps provided to Transfer ready product to filling line.
- The Entire plant is Equipped with CIP & SIP Connection, so that customer can use this facility, If have CIP & SIP Equipment.
- All Values of temperature & time of the plant are indicated digitally on the Control Panel. Ampere indicates on Ampere Meters. (Automatic Liquid manufacturing Plant).
- A Micro processor Based Automatic operating Liquid Manufacturing Plant can be Designed as per Requirement (Optional).
- All the Inlet & Outlet connections are provided with Tri Clover joints, which are very easy for cleaning & Replacement.

❖ PRESSURE VESSEL



❖ SALIENT FEATURES :

- Ideal In Injectable Section For Filling Sterile Products.
- Provided With Inlet- Outlet Nozzle And Safety Valve.
- Joints Are Argon Welded.
- A Long Tube Is Provided To Ensure Complete Drawing Out Of The Fluid.
- Working Pressure of 3KG/CM.Square.
- For Air Tight Sealing Silicon "O" Ring is Used.

Manufacture & Exporter Pharma machinery & Chemical Equipments

❖ **STORAGE TANK**



These storage tanks are offered to our clients in the following shapes :

- Horizontal Storage Tanks
- Vertical Storage Tanks
- Elliptical Shaped Storage Tanks
- Dished Shaped Storage Tanks
- Flat Storage Tanks
- Conical Head Storage Tanks
- Stainless steel Tanks
- cylindrical storage Tank
- Vegetable Oil storage Tank
- Chemical storage Tank etc

We hold expertise in offering SS Storage Tanks for meeting the process demand of chemical industry. We use various material of construction such as MS, Stainless Steels, Capacity from : 50 Liter. to 50,000 Liter. in M.S., S.S. 304, S.S.316 Material. Applications : Chemicals, Pharmaceuticals, Food Products, Dairy & others

❖ MIXING TANK



❖ Salient Features:

- Available from 100 Ltrs. to 20000 Ltrs. capacity.
- cGMP construction available on demand
- MOC shall be MS / SS 304 / SS 316 as per clients' requirement.
- Available in different options of top & bottom ends like flat, dished, conical
- Available in plani as well as steam / hot water jacketed.
- Jacketed vessels available in different jacket option i.e simple jacket, limpet jacket, dimpled plate jacket.
- HOT , COLD or HOT & COLD (dual) insulation can be provided as per clients' requirement.
- Different agitator design to suit process requirement.
- Available in LUGS or LEGS mounting position

❖ REACTOR



Reactor is mostly known as Chemical Reactor, Industrial Reactor, Jacketed Reactor, Limpeted Reactor, Pharmaceutical Reactor, Process Reactor, Stainless steel Reactor, Agitated Reactor, Mixing Vessels etc

❖ Technical Specifications

Model	Gross capacity (In Liters)	Working capacity (In Liters)	Shell Dimensions	HP/ RPM (PITCH BLADE)
R - 0.5 KL	600	500	Ø 800 x 1000 HT.	0.6
R - 1 KL	1200	1000	Ø 1060 x 1250 Ht.	1.5
R - 1.5 KL	1800	1500	Ø 1200 x 1500 Ht.	2
R - 2 KL	2400	2000	Ø 1300 X 1600 Ht.	2.5
R - 2.5 L	3000	2500	Ø 1400 X 1800 Ht.	3
R - 3 KL	3600	3000	Ø 1500 X 1900 Ht.	4
R - 3.5 KL	4200	3500	Ø 1600 X 2000 Ht.	4
R - 4 KL	4800	4000	Ø 1650 X 2100 HT.	5
R - 4.5 KL	5400	4500	Ø 1700 X 2100 HT.	5
R - 5 KL	6000	5000	Ø 1800 X 2200 HT.	6
R - 6 KL	7200	6000	Ø 1900 X 2500 HT.	7
R - 8 KL	9600	8000	Ø 2100 X 2500 HT.	10
R - 10 KL	12000	10000	Ø 2250 x 2800 Ht.	12
R - 12 KL	14400	12000	Ø 2400 x 3000 Ht.	15
R - 15 KL	18000	15000	Ø 2550 x 3200 Ht.	18
R - 20 KL	24000	20000	Ø 2800 x 3500 Ht.	24