WE PROVIDE 100%

SATISFACTION IN

Pharmaceutical

Equipments



(An ISO 9001:2008 Certified Company)



Profile

"Quality Which Is Never Ending Quest"

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.





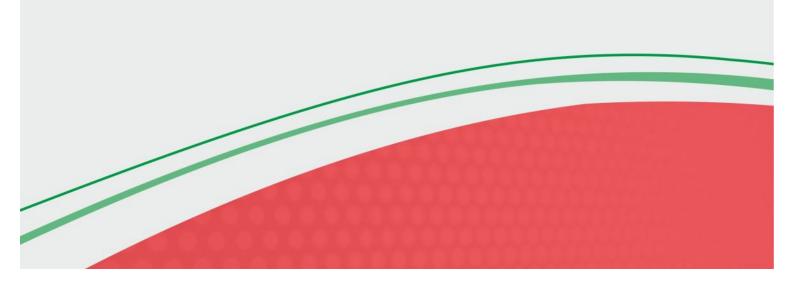
Quality Control emphasizes testing and blocking the release of defective products.



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.





STARCH PASTE KETTLE



- 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 Cylndrical 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 Loses Lid.







- · Capacity 25 Ltrs to 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
- · Consistant 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



MULTI MILL



SALIENT FEATURES:

- Suitable for Dry Granulation / Pulversing / Shredding & Chopping of Materials.
- Multi Speed 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 Scrapper 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.

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 Vibratory Motor	0.25 HP Special Vibratory Motor	0.5 HP Special Vibratory Motor	0.5 HP Special Vibratory Motor	1.5 HP Special Vibratory Motor
Net Weight (Approx.)	70 Kgs.	150 Kgs.	170 Kgs.	200 Kgs.	225 Kgs.
Machine Dimension	750mmx750mm	1120mmx1120mm	1360mmx1360mm	1550mmx1550mm	1950mmx1950mm
(LxWxH)	1080mm	1200mm	1200mm	1200mm	1050mm

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



FLUID BED DRYER (FBD)



- 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
- MOC S.S. 304/316/316L
- · Option Steam Heated Or Electric Heated Blower
- CGMP Model With Documentation (IQ, DQ, PQ, OQ) As Option.

Model	15	30	60	120	200	250	300	500
Container Volume: Litres	18	100	200	380	650	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	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/cm2	15	25	50	100	160	200	250	430

TRAY DRYER





- Double Wall Construction.
- Rigid S.S Frame Work.
- · Glasswhool 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 Trays	48 Trays	96 Trays	192 Trays
No. of Doors	One	One	One	Two	Two
No. of Blowers	One	One	One	Two	Four
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. each
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 100°C / 200°C / 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				
Steam Consumption	25 LBS / hr	45 LBS / hr	60 LBS / hr	80 LBS / hr	120 LBS / hr
Insulation in mm 100°C / 200°C / 300°C	50 / 75 /75	50 / 75 /75	50 / 75 /75	50 / 75 /75	50 / 75 /75
No of Trolleys	Rack System	Rack System	One	Two	Four
Tray Size	812 x 406 x 31				
Trolley Dimension	Fixed Racks	Fixed Racks	840 x 960 x 1780	840 x 960 x 1780	840 x 960 x 1780



VACUUM TRAY DRYER



- Suitable Size Condenser & Receiver iIn 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.

Madala Chakusa Nas		Tray Nos	Tray on each self	Water Heating System		Oil Heating System		
wodels	Models Shelves Nos			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

DOUBLE CONE BLENDER





- Eficient & Versatie Mixer.
- Ideal For Mixing Powders & Homogenous Lubrication Of Granules.
- S.S. Baffles Are Provided.
- Safety Guards Provided With Limit Switch Interlocked To Motor.
- Easr Charging Of Materials Through S.S Bins.



OCTAGONAL BLENDER



- 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 4000 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

RIBBON BLENDER

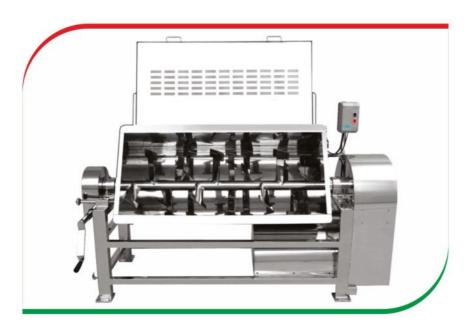




- Ideal for Uniform and Homogeneous Mixing of Dry or Semi Wet Powder & Granules Where High Shearing Force is not Required.
- Basically an Open Tub with Welded or Botled end Caps on Each End.
- Shaft Seals Incorporated Into End Caps.
- Bearings Supported by Framework.
- PTFE Gland Mechanism Provided at 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 Ear and Motor
- Bottom Discharge Slide Regulaed Hrough Butterfly Valve of Suitable Diameter.



MASS MIXER



- Ideal For Mixing Dry & Wet Material.
- 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.

OSCILLATING GRANULATOR





- 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 Weigh 400 Kgs Approx
- Overall Dimension 32" x 18" x 49" (H)
- · Compact & Sturdy Unit
- CGMP Model With Documentation (IQ, DQ, PQ, OQ) As Option



COLLOID MILL



- 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 Perfomance in Size Reduction without Damaging the Product.
- Contact Parts Can Easily Dismantled for Cleaning.

INLINE HOMOGENIZER





- 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.



ML CATCH POT



- Suitable For Transer Of Liquid From Centrifuge Outlet.
- The Entire Assembly Complete With Catcha Pot, Transfer Pump, Magnetic Float, Non-rerurnable Valve, Ball Valve, Pressure Gauge, Piping Connection & Control Panel, Mounted On A Suitable S.S. Trolley With Handle.

PRESSURE VESSEL





- 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.



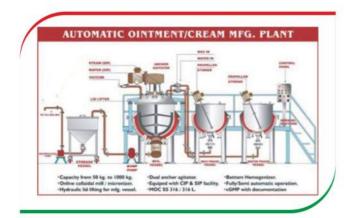
COATING PAN



- 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

OINTMENT PLANT







- 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 Equpment.
- All Values Of Temperature & Time Of The Plant Are Indicated Digitally On The Control Panel. Ampere Indicates On Ampere Meters. (automatic Liquid Manufacturing Plant).



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	Dai. of Plate	No. of Plates	Filtering Area (m²)	Cake Holding Capacity	Flow Rate LTRS / HRS.	Size of Pump	Motor HP
BPZH-8	8"	6	0.217	4.5	600	0.5"	1 HP
		8	0.279	5.5	800	0.5"	1 HP
BPZH-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
BPZH-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
BPZH-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
BPZH-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

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

DRY POWDER FILLING MACHINE





SALIENT FEATURES:

- · Easy to maintain and simple to operate
- Automatic powder level maintaining system for maintaining constant level of powder to facilitate minimum weight variation.
- · Minimum space requirement.
- Present revolution control with digital display for quick setting of fill weight.
- No mechanical settings, hence can be set and operated by unskilled operator.
- · Instant Brake mechanism for precise fill weight.
- Weight variation within ± 2%
- Table Model compact and easily moveable from place to place.
- · Versatile, can handle dry syrup powder filling.
- Quick interchangeability in minutes for changeover of product.
- All powder contact parts are made of stainless steel 316 or non Contact Parts are made from stainless steel 304 quality as per customer's requirements.

Technical Specifications

Power

Main Drive:

0.5 HP Motor 415 Volts, 3 Phase, 50 Cycles, 1400 RPM

Feeder Drive:

Bonfiglioli gear box & Motor

Electromagnetic Clutch / Brake:

24 Volts DC Supply



TURBO / CENTRIFUGAL SIFTER



- Model Available: 3HP & 5HP.
- 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).

DRUM MIXER





SALIENT FEATURES:

- The capacity of the drum is 200 Litres, and it can mix 50 to 80 kgs. of Material.
- M.O.C.S.S 304/316/316L
- The mixer is supplied complete with 1no. Stainless Steel 316 Drum having an Airtight LID, with quick closing & Opening Clamps.
- The machine work on 1.5HP 440 volt Motor with Teduction Gearbox.
- Safety Guards provided with Limit Switch Interlocked to Motor.
- Option:

Flame Proof Motor & Control Panel.

Mechanical / Hydraulic Pallet Truck.



V BLENDER



SALIENT FEATURES:

- Model Available: 15 Litres to 1500 Litres.
- M.O.C.S.S 304/316/316L
- 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).

IPCBIN





- Model Available: 150 Litres to 1200 Litres.
- M.O.C.S.S 304/316 Quality
- · 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).



POWDER FILLING MACHINE FOR FOOD INDUSTRIES



- Filling Range: 20grams to 1Kg.
- Production Output: 50 to 1000 Pack per hour (Depend on Material Charasteristic & Fill Volume).
- Suitable for any kind of Powder of Granules.
- · Continuous Stirring During Operation.
- Weighing System with Foot Switch Operated.
- Weight Variation within ± 1%.
- All powder contact parts are made of Stainless Steel 316 Quality. (304 Optional).
- Provided with PU Coated Wheel for easy mobility of Machine.
- Quick Interchangeability in minutes for Changeover of Product.
- GMP model with Documentation (IQ,DQ,PQ,OQ).

MEMBRANE FILTER HOLDER





SALIENT FEATURES:

- Model Available: 142mm & 293mm Dia.
- M.O.C.S.S 304/316/316L.
- 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.



HYDRAULIC PALLET TRUCK



SALIENT FEATURES:

• Lifting Capacity: 1000Kg/2000Kg

• M.O.C. S.S. 304 Quality.

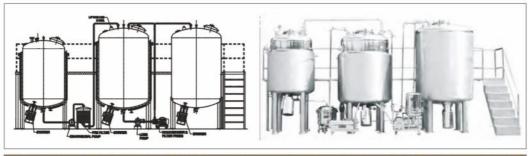
• Lifting Height: 85 to 200 mm

• Fork Length: 1220 mm

- High Quality Hydraulic Lifting Cylinder is Durable, Reliable.
- No Oil Leakage, Easy Handling, Easy Lifting.
- With and Overload Relief Value to Avoid Misuse Due to Overloading.









SALIENT FEATURES:

Capacity from 500 Litres upto 5000 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 us this facility, If have CIP & SIP Equipment.
- All Values of temperature & time of the plant are indicated digitally on the Controal 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.



OUR CLIENTS







































































OUR CLIENTS











































































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