



BrilliantTM

Process Machinery Pvt. Ltd.

Leaders in Process Machineries



The Name of Quality & Service...

Mfg. of Machineries for

Pharmaceutical | API & Bulk Drugs | Cosmetics | Chemical | Food & Beverage Industries

www.brilliant-process.com



An ISO 9001:2015 Certified company

Company Profile

BRILLIANT PROCESS MACHINERY PVT. LTD. (BPM) is one of the leading manufacturer of pharmaceuticals and chemical processing machineries from last 18 years.

BPM is ISO 9001-2015 certified company our quality system is as per ISO 9001-2015 Standard and comply with WHO, GMP, MCA, MCC and international FDA guidelines, process equipments are also fabricated under international code like ASME, DIN, TEMA, in material of construction are S.S.316/L, S.S. 304/L.

The outstanding track record of BPM is provided its success in meeting the customer needs in the rapidly evolving and specialized field of processing machineries. (BPM treats its positions the best reward accorded by its commitments).

Facing the challenges we have been able to withstand the test of time and marched ahead with success. The success based on efforts of our team ,active participation of our customers, who have acknowledge our products, our team felt that we need to have a brand name . which has been created by our quality products made with precision. A brand name came into existence as 'BPM' for the quality products manufactured by us.

We believe that company's value is not solely determined by its turnover or its assets size, but mostly by its director and employee's determination to success and fulfill their customers' needs.

We also believe that our success and achievements are due to the confidence and trust of our valued customers.

BPM has exported machine in USA, Australia, South Africa, East Africa, Nepal, Malaysia, Syria, U.A.E. and Many more.

Vision & Mission	To became a Top Most Organization by innovating Value for money product and services
Values	Never compromise in quality and brilliant is a Second name of trust in Our industries
B.H.A.G. (2016-2026)	Our company must be No.1 in Pharma Machinery Industries with Turnover of More Than 200cr.
Brand Promise	Value for money Product





BRILLIANT'S SVP / LVP MIXING VESSEL

SALIENT FEATURES:

CAPACITY : 20 Ltrs. to 10000 Ltrs.

Complete vessel design as per ASME Code.

Instrumentation & connections comply with BPE & EHEDG guideline.

Zero dead leg Aseptic design Flush Bottom Outlet diaphragm valve.

Vessel design & fittings are designed for CIP / SIP able.

Volume monitoring by Load Cells, PH conductivity.

No stagnant point to avoid bacterial growth.

It is polished to high degree of finish and electro polished to the Ra value of 0.4.

Provided with Nitrogen purging system and 0.2 μ Vent filter

Magnetic drive, so no seals, no shaft, thereby eliminating contamination



Zero Dead Leg Valve with Sampling Port



Sampling Valve with CIP Port



Magnetic Mixer



Light & Sight Glass



Spray Ball CIP / SIP



Filter Housing



Sterile Flanges



Pneumatic operated Sterile Diaphragm Valve



Load Cell



PRESSURE & FILLING VESSEL



MEMBRANE FILTER



WFI STORAGE VESSEL

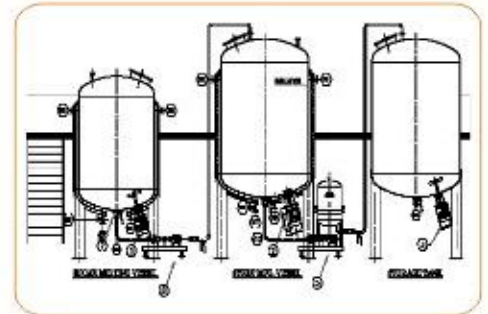


MULTI-COLUMN
DISTILLATION PLANT



BUNG WASHING

BRILLIANT'S AUTOMATIC LIQUID ORAL / SYRUP MFG. PLANT



Model Available : 1000 Ltr to 50000 Ltr capacity

The plant is designed to be operated by one operator and one helper, saving on precious man-power costs. Sugar syrup and manufacturing vessels are provided with Jacket for heating and cooling, designed for internal vacuum to facilitate transfer of sugar directly from stores to sugar syrup vessel.

Sugar syrup is transferred to manufacturing vessel through online sugar syrup pre-filter by vacuum. Entry of all propeller agitators are from bottom through a specially designed cartridge mechanical seal with TC/TC seal face.

The advantage of the bottom propeller agitator over the conventional agitator is that there are no vibrations of shaft, no couplings in the drive assembly, leading to lower maintenance cost.

Pipes, pipe fittings and valves are of SS 316, seamless, internally electropolish with TC unions and silicon Gaskets.

Manhole of all the vessels are equipped with davit fitting and the cover of the manhole slides instead of being lifted.

BRILLIANT'S PROCESS CONTROL

Values like current product temperature are displayed digitally on the electrical control panel. The mechanical seal is equipped with a water circulating system and has a water detection sensor which trips the motor, if the water circulation to the seal is interrupted.

Load Cell & PLC System also provided on Client Request



REACTOR



STORAGE TANK



INLINE HOMONIZER



TRIPLE LAYER INLINE HOMOGINIZER

ZERO FILTER PRESS

REVERSE FLOW ZERO HOLD UP TYPE Here the direction of flow of liquid is exactly opposite to the flow in standard filter i.e. the impure liquid to be filtered enters the filter from the bottom into the center channel & goes to the top of each plate. The clear filtrate flows out from openings on side of plates to the shell & then to the outlet. This flow ensure almost 100% filtration of the liquid.

Silent 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.
- The top dome structure ensures fast & easy removal of cartridge assembly & cleaning of cake.



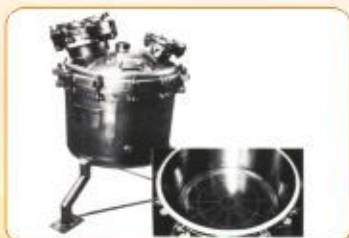
MANUFACTURING VESSEL

MIXING VESSEL: Suitable for manufacturing pharmaceutical Syrup, suspensions, gels etc. The vessel is manufactured from S.S. 316L quality. The joints are argon arc welded comply with ASME standard. The vessel is provided Special Designed Stirrer.

Model Available : 10Ltr. Capacity to 50,000Ltr. Capacity

UNIQUE FEATURES OF THE FACILITY :

- Sugar syrup and manufacturing vessels are provided with M.S. / S.S.304 Quality Jacket will be claded by S.S.304 sheet for heating and cooling,
- Values like current, product temperature are displayed digitally on the electrical control panel.
- No stagnant points which will promote bacterial growth.
- All surfaces are crevice less and having high degree of finish.
- 50mm thickness Rockwool Insulation with full SS welded sheet and jacket provided on the tank will minimize heat loss.
- All the surfaces coming in contact are made of SS 316L quality.



NUTSCHE FILTER



SEMI-AUTOMATIC FILLING MACHINE



R.B.W & TURN TABLE



LIQUID FILLING & CAPPING MACHINE

BRILLIANT'S FLUID BED DRYERS



Capacity Available : 5kg. to 500kgs.

Fluid-Bed technology offers several advantages such as, no product lump formation/caking, no particle overheating/cooling, a well defined product residence time, uniform product quality, better energy economy due to lower specific heat requirements etc. In 'Fluid-Bed' the material is suspended in an upward moving hot-air and the mass behaves like a boiling fluid after "Fluidization".

FBD TECHNICAL SPECIFICATION

MODEL	LAB-5	FBD-15	FBD-30	FBD-60	FBD-120	FBD-200	FBD-300	FBD-400	FBD-500
Container Volume (Ltrs)	18	46	71	142	288	475	650	875	1110
Batch Size (kg) Min. & Max. *	2 to 5	5 to 10	15 to 30	30 to 60	60 to 120	120 to 200	200 to 300	300 to 400	400 to 500
Blower Motor HP*	1.5	3	5	10	15	20	25	30	40
Air Flow (CFM)	270	429	706	1059	1882	2588	3235	3824	4412
Air Flow(m3/hrs)	460	730	1200	1800	3200	4400	5500	6500	7500
Static Pressure (mm of water)	600	600	600	600	800	800	800	900	900
Steam Pressure (kg/cm sq.)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Steam Consumption (kg/hr)	29	36	50	72	144	216	250	288	344

RAPID MIXER GRANULATOR

Capacity Available : 5Ltr. to 1000Ltrs.

BRILLIANT Pharma 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 hygienic standards within the highest GMP norms

RAPID MIXER GRANULATOR: TECHNICAL SPECIFICATION

GROSS CAP LTRS	WORK CAP LTRS	MAIN MOTOR 750/1500	GEAR BOX	CHOPPER MOTOR 1500/2880	SPACE REQUIRED L X B X H MM
25	20	3/5	3.5"	1.5/2	1200 X 650 X 1600
100	80	10/15	5"	2/3	2000 X 1700 X 1900
150	120	10/15	5.5"	3/5	2200 X 2100 X 2300
250	200	25/30	7"	3/5	2500 X 2100 X 2350
400	320	30/40	8"	5/7.5	2800 X 2400 X 2500
600	480	40/50	10"	7.5/10	2900 X 2500 X 2650
1000	600	63/85	12"	10/15	3200 X 2750 X 2900



MULTI MILL



VIBRO SHIFTER



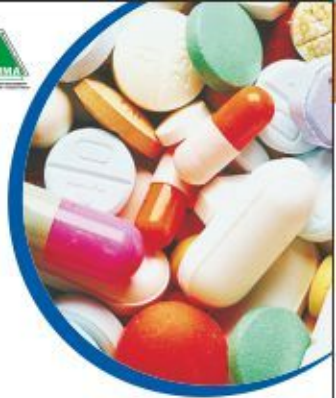
FRITZ MILL & CONE MILL



GRANULATOR



LIFTER & TIPPER



OCTAGONAL BLENDER

SALIENT FEATURES:

Capacity 10 Ltr. to 10000 Ltrs.
Contact parts in stainless steel 316.
Baffles provided for ease of mixing / blending.
Manhole with gasket is provided to fix baffles and for ease of cleaning the Main pan.

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 as an optional.



AUTO COATER

Capacity Available : 6" to 72"

All the product contact parts are made from Stainless Steel corresponding to 316

Pan speed 1 to 15 RPM, The pan speed is variable and can be changed from the control panel.

Perforated pan with more than 55% opening for better quality finish.

Pan speed control via variable frequency AC Drive

The coating pan along with the drive system, hot air plenum, exhaust plenum, pan washing sink, washing pipe line etc. are housed in a stainless steel cabinet

CIP System Including High Pressure Pump And Jet Nozzles

PLC based control panel with colour touch screen HMI and 80 column printer



VACUUM TRAY DRYER

Capacity	12	24	36	48
Tray Size	812 x 406 x 31mm in SS 304 / 316 quality			
No. of Shelves	6+1	8+1	12+1	16+1
Tray / Shelves	2	3	3	3
Chamber Thickness	6	6	6	8
Condenser)	0.75m ²	1m ²	1.5m ²	25m ²
Receiver (Ltrs)	50	75	100	150



COATING PAN



RIBBON BLENDER



PASTE KETTLE



TRAY DRYER



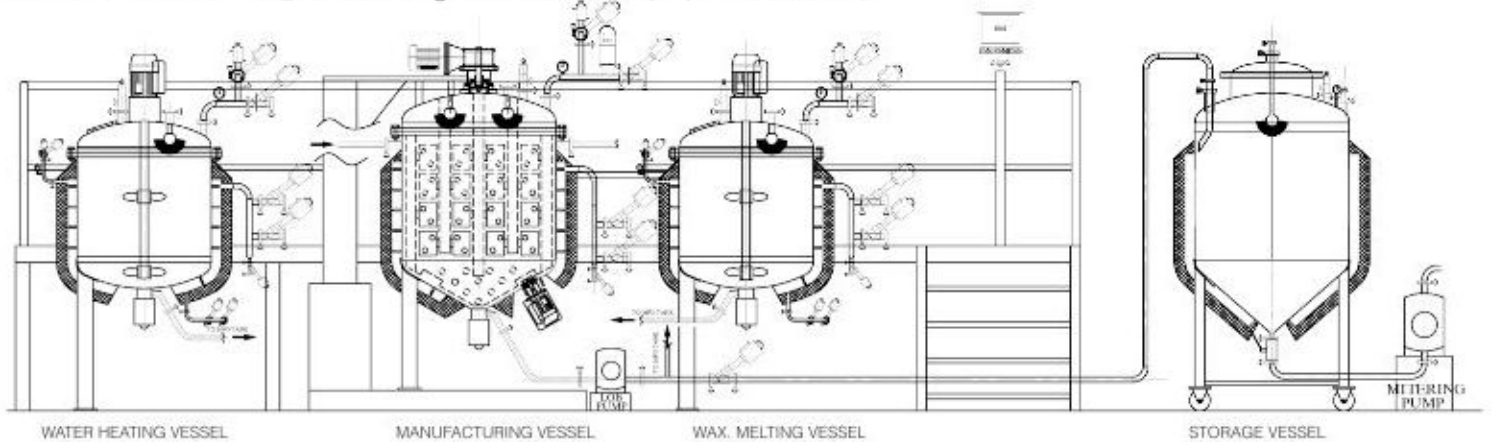
BIN BLENDER

BRILLIANT'S Automatic Multimix Ointment Cream Mfg. Plant



BRILLIANT'S SPECIAL DESIGN

Model Available : 10kgs. to 5000kgs. Batch Capacity. (GMP MODEL)



OINTMENT PLANT COMPROMISES FOLLOWING COMPONENTS

Manufacturing vessel and agitators are made out of AISI SS 316 fitted with flush bottom valve. Wax/water phase vessel with side mounted fast speed stirrer, flush bottom valve and conical filter. Manufacturing vessel with variable speed anchor and fast speed emulsifier fitted with mechanical seal. Jacket is AISI SS 304 / mild steel with rock wool insulation & AISI SS 304 cladding. Lifting hydraulic for manufacturing vessel. Spray ball install on top cover for cleaning main vessel. Monitoring of the product temperature, PT 100 probe with digital indicator on panel. Electric control panel board with all necessary controls. Optional item Load cell, PLC, Contra Type agitator for calcium based toothpaste



PLANATORY MIXER



COLLOID MILL



SHAMPOO MFG. VESSEL



HOMOGINIZER