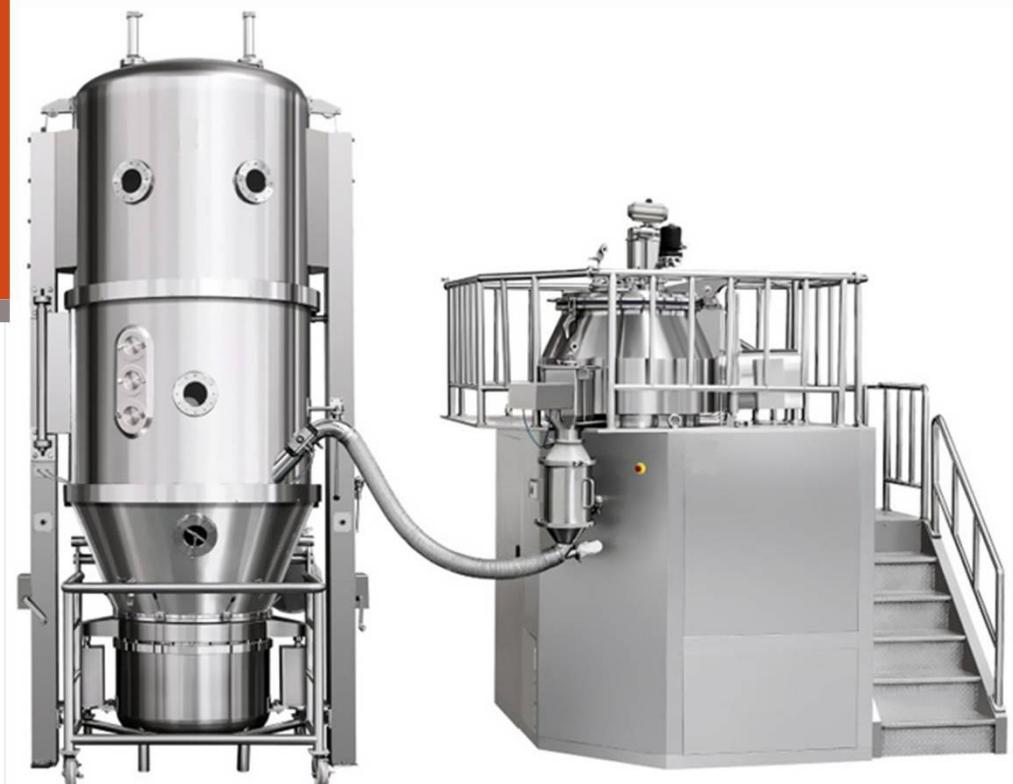


Manufacture and designer of Pharmaceutical Machineries ..



FLUID BED DRYER (FBD)

- Compact Design: The equipment is designed with minimized equipment sizes.
- High Drying Rate: The Fluid Bed Dryer offers a high drying rate.
- Turbulent Motion and Uniform Drying: As the air flows through the bed of material, the powder particles start a turbulent motion
- Operation : PLC + HMI for machine control in manual and automatic mode, with recipe editing.
- High performance AHU unit with sandwich panel for energy efficient.
- cGMP construction with contact parts SS316/SS316L and non-contact SS304



RAPID MIXER GRANULATOR (RMG)

- The machine is designed as per standard of Current Good Manufacturing Practices cGMP.
- Vessel cylindrical design with conical top for optimum mixing quality and wide utilization range
- Chopper and impeller Tangentially attached for Effective compaction of granules and breaking up of lumps
- Minimum bottom and wall clearances for maximum product yield
- 21-CFR part 11 compliance for data integrity and storage (Optional)
- Equipped with direct Cone Mill attachment for high efficiency



TRAY DRYER (12 TO 96 TRAY)

- Versatile designed to provide uniform drying throughout the material being dried.
- Tray dryers are easy to operate, and the drying process can be controlled with precision.
- Special design of the Blower maintains homogeneous air circulation
- cGMP construction with contact parts SS316/SS316L and non-contact SS304
- Flame-proof construction with explosion flaps, non-sparking metal combinations
- Heating can done through Electric heater/steam/Thermic fluid
- In-built inlet blower with pre-filter and exhaust filter.



VACUUM TRAY DRYER (12 TO 96 TRAY)

- Vapors condensation unit and receiver aids solvent recovery
- Provision for Explosion Vent / Rupture Disc on body & Validation Port on Body after Drying due
- The manifold connection position inhibits product contamination
- Tunnel type dryers wherein trolleys can be placed one behind the other and loading-unloading through the double door.
- Steam / thermic fluid heat exchanger tested at 20 Kg/cm² hydraulically
- cGMP construction with contact parts SS316/SS316L and non-contact SS304.
- Complete Automation w/ PLC controls (Optional)



ROLL COMPACTOR

- Very compact design available in Plain, Water Jacketed or Flameproof Model.
- Compacting rolls are driven through specially designed twin gearbox. This ensures perfect synchronizations of the roll with a steady torque loading.
- ELNP (Electroless Nickel Plating) or Hard chrome plated with mirror finished compacting rolls made of tools steel.
- Conical predensifier screw is supplied. The screws are cylindrical at base to enable accurate metering.
- Feed screw is sleeplessly driven through variable frequency controlled speed drive
- All contact parts are made of SS304 / SS316. All covers are designed to obtain dust-free operation
- Jacket feed hopper and jacked side wall (Optional)



ROLL COMPACTOR

SPHERONIZER CUM EXTRUDER

- Pre-densifier screw comprises of cylindrical or conical shape, which is well polished and made of AISI SS-316 quality material
- The feed screw assembly can be lifted by hand-operated hydraulic pump. This facilitates ease in cleaning.
- Various mesh sizes possible depending on the design of extrusion
- Complete flexibility in choosing the right equipment for product and process due to a vast range of extrusion equipment
- Win spheroinizer with bucket assembly is fitted below the extrusion module
- All contact parts are made of SS304 / SS316. All covers are designed to obtain dust-free operation
- Forming of extrudes / pellets between 0.4 mm and 3 mm diameter.
- Capacity up to 50 To 200 kg/hr



SPHERONIZER CUM EXTRUDER

PILLAR CONTA BLENDER

- Design is cGMP – Current Good Manufacturing Practices compliance.
- Interchangeable different capacity of IBP Bins can be used on same machine used for mixing
- Interlocked clamping and blending for 100% fail-safe operation
- PLC & HMI based operating console
- Obtainable Capacity for 25 kg to 1200 kg batch size and Custom Design Available.
- All Product contact parts AISI 316 & non contact parts AISI 304.
- Safety reeling provided for rotating area of product container.
- Vacuum conveying system used for powder transfer (Optional)



**LIFTING &
POSITIONING DEVICE**



OCTAGONAL BLENDER



DOUBLE CONE BLENDER

CO-MILL

- High speed milling, granulating and size reduction by rubbing process.
- Uniform size reduction of wet material with Cone blade with cone type sieve for size reduction.
- Heat generation in co mill is comparatively very low as it works on forced pressure
- S.S. Perforated Screen for Co-Mill 10mm,6mm,4mm,2mm & 2.5mm
- All Product contact parts AISI 316 & non contact parts AISI 304.



MULTI MILL

- Product Capacity: 50 Kg/h To 250 Kg/hr
- Contact parts SS 316, Non contact parts SS 304 with Mirror/Mat polish
- Design is cGMP - Current Good Manufacturing Practices compliance
Easy Dismantling & Cleaning and change over
- Multiple combination of Perforated Screen, Speeds, Number of blades.
- 12 nos. beater with knife edges, impact & 02 nos. scrapper blades
- AC Frequency and Beltless drive & online granulation model available



VIBRO SIFTER

- Design is cGMP -Current Good Manufacturing Practices compliance.
- All contact parts AISI 316 & non contact parts AISI 304.
- Powerful vibration by gyratory motion by special Vibro motor.
- Lead free and Silicon seal sieve.
- Output capacity 50To 500 KG/HR



FBD FINGER BAG WASHING MACHINE

- Fully-automatic FBD finger washing machines with touch operating screen
- Front load provision with pre define recipe
- Auto water filling, washing and drainage cycle.
- All Product contact parts AISI 316 & non contact parts AISI 304.
- High performance and easy operate



AUTOMATIC DUCT CLEANING SYSTEM

- The most effective automatic duct cleaning technology.
- Auto movement of hi pressure nozzle through the duct
- Effective cleaning with Hi Pressure @ 150 Bar
- Compact unit easy to move from place to another place
- Interlocking with low water level and low water pressure



HI PRESSURE JET CLEANING SYSTEM

- Automated Hi pressure jet cleaning systems design to clean and sanitizes more effectively and consistently than manual cleaning
- Optimization of the uses of cleaning agent and water
- Hi pressure pump design @ 170 Bar for effective cleaning where hard to clean (Equipment/Area)
- Available in SS 304 and SS 316





STORAGE VESSEL



MANUFACTURING TANK



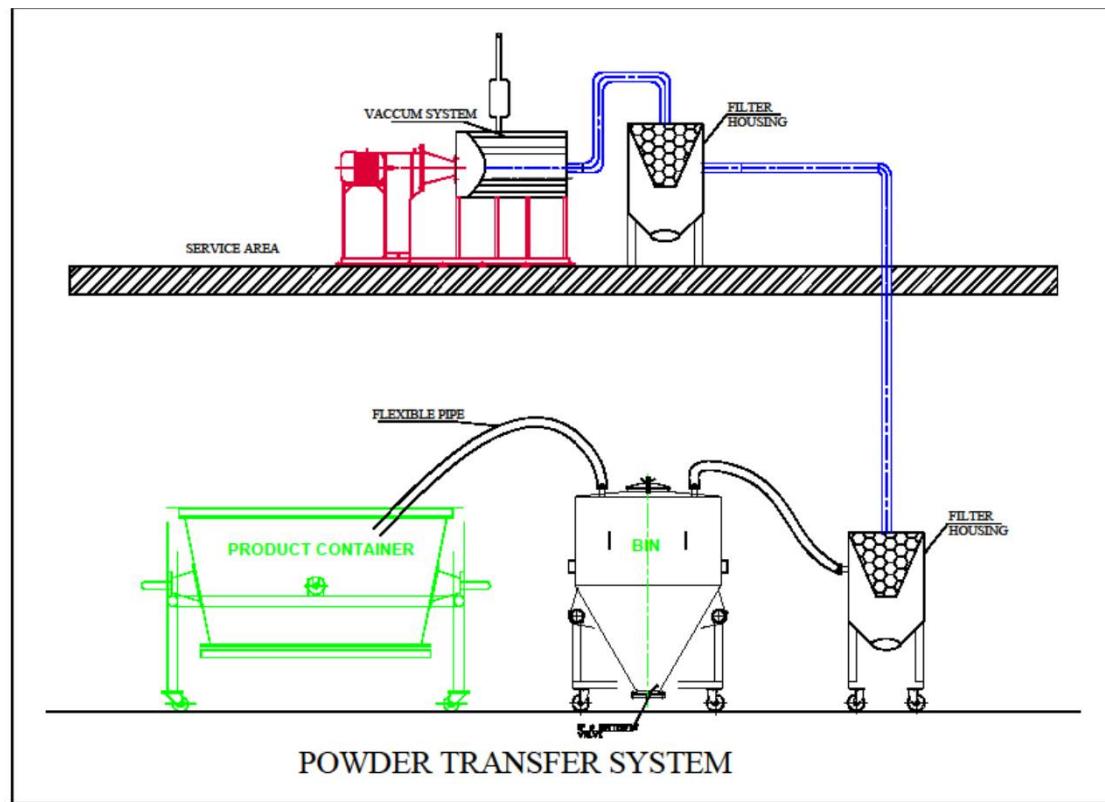
INPROCESS CONTAINER-IPC



BLENDER BIN

POWDER TRANSFER SYSTEM (PTS)

- Fully automatic system, with timing controls and automatic air pursing system for filter cleaning.
- Design is cGMP – Current Good Manufacturing Practices compliance.
- Option for Inline Milling, Sifting with Blender and Loading material to RMG, Tablet press& Vessel.
- Can be used for transfer of products having bulk densities up to 1.0gm/cc.
- Vacuum Blower and cyclone filter can be installed in service area
- All contact parts AISI 316 & non contact parts AISI 304
- Capacity available 100 Kg to 5000 Kg/hr.



SPARE PARTS



CONE MILL SCREEN



MULTIMILL SCREEN



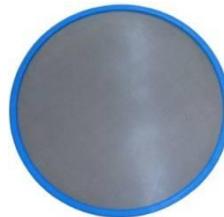
CAD MILL SCREEN



MULTIMILL BLADE SET



MULTIMILL BLADE



SIFTER SIEVE



SIFTER DISCHARGE CHUTE



MULTIMILL HOPPER



SIEVE INSPECTION HOOD



POWDER DISCHARGE CHUTE



DISCHARGE VALVE



PU CASTER WHEEL

MILLENNIUM PHARMATECH

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