



FABON

Engineering for life...

FABON PHARMATECH

Manufacturer | Suppliers | Services



Engineering for life...

Engineering for life...



COMPANY PROFILE

FABON Pharmatech Pvt. Ltd. Nashik years of accumulated know-how and its innovative strides for the highest quality and level of technical development makes the company an expert to cater pharmaceutical machine industry.

It has international advanced technology for the development and production of a broad range of pharmaceutical machines to enable it to serve the global pharmaceutical market.

Our in-house engineering experts from pharmaceutical manufacture industries focus on customer's needs and satisfaction to supply the best solutions to improve their production in a cost effective manner.

We not only emphasize to provide our customers with the best products but also ensure impeccable service after sale.

A combination of both will not only fulfill the customer's requirements but also give them a supplier they can trust! Quality Control emphasize testing and blocking the release of product with minutest defects. Quality Assurance policy ensures improving and stabilizing associated processes to avoid or at least minimize issues that leads to the defects in the first place. 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.

FLUID BED PROCESSOR (FBP)

Capacity : 25 to 1500 Litre. (Customized as per client requirement.)

Fluid Bed Processor is specially designed unit for agglomeration and simultaneous drying for top spray granulation, conforming to the international quality norms and with all latest features incorporated. Built with a working pressure of 2 Bar at 80 degree C. The drying capabilities of our FBDs are enhanced by 18 - 20%, resulting in lesser drying time and uniform fluidization. Air Handling System is specially designed for evenly distribution of Heat to the material to be dried in order to supply the latent heat required for vaporization of the moisture. The fully automated system is designed to achieve robust formulation and stringent cGMP compliance.

Features :



- ◆ 'State of Art' FBD with all latest features
- ◆ Easy operations
- ◆ Faster and uniform drying
- ◆ Easy maintenance
- ◆ Overcomes typical problems associated with drying, such as, Improper drying, Fine generation, Excessive drying time
- ◆ High quality and better shelf life of the product
- ◆ Suitable for granulation and drying for accurate process parameters
- ◆ Online charging from RMG into FBP using vacuum.
- ◆ Inlet feed port with SS gas tight pneumatic actuated valve
- ◆ Closed loop discharged system from FBE into mill using pneumatic conveying systems
- ◆ Temperature control with a +/- 1°C (process accuracy)
- ◆ Humidity control over entire operating range @5% (process accuracy)
- ◆ Technical support in critical areas of validation at different levels of scaleup
- ◆ Process accessibility for selection on critical parameters such as inlet air temperature in drying and product temperature in top spray granulation
- ◆ Specially designed Conidur mesh for mechanism of Vortex formation ensuring uniform core drying.
- ◆ All filters provided with DP gauges with Integration with HMI for HEPA, Fine filter,
- ◆ Product container and Finger bag
- ◆ Inlet / Exhaust Location with several alternatives to suit individual customer requirements
- ◆ Specially designed explosion flaps
- ◆ Inflatable Silicon Seals used in the system
- ◆ Pneumatic Cylinder - For Bag Up and Down movement and for Impact Bag Shaking
- ◆ Sampling provision of inline analysis of granulation profile such as moisture content and particle size analysis
- ◆ Fully automated system for quality by design to correlate statistically
- ◆ Specially designed system for light sensitive products
- ◆ View port in filter housing and in expansion area of machine tower and product container
- ◆ Inlet and exhaust system provided with a Quick acting safety valves (optional) valve to isolate the supporting
- ◆ ductwork and ancillary equipment should a deflagration in the machine tower occur
- ◆ Tri level filtration in Inlet AHU using 10 micron for Pre Air filtration, 3 micron for
- ◆ Secondary Air filtration and 0.3 micron for Final Air filtration using HEPA (99.997 efficiency)
- ◆ Humidification and dehumidification system to enable better control on RH (5% to 80%)
- ◆ Double skinned SS 304 AHU with a built in Face and --By Pass damper for 10
- ◆ Temperature control
- ◆ Specially designed anti-static anti sparking blower
- ◆ High static high efficiency FLP blower installed
- ◆ Completely Tool less AHU
- ◆ Broken bag detector system to indicate broken bag fault with a provision for adjustable sensitivity
- ◆ Filter bag unit with rapid doping control to avoid the personnel injury during the assembling and disassembling of filters
- ◆ Food grade gaskets with test certificates

RAPID MIXER GRANULATOR (RMG)

Capacity : 25 to 1500 Liter (Customized as per Client requirement.)



IMPELLER BLADE



CHOPPER BLADE



DISCHARGE



OVERDRIVEN CO-MILL



WIP PRAY

The mixing bowl is circular with a large diameter and flat base, Top portion of the bowl is conical in shape to assist mixing of cohesive powders.

A high speed Granulator (Chopper) is located so as to assist blending of powder and to break the product to granules of required size. The Granulator rotates at two speeds - 1500 / 3000 RPM. The Granulator head is of highly polished stainless steel and is easily removable for cleaning. The Granulator shaft where it enters the bowl incorporates AIR PURGED SEAL. The motor is provided with a removable stainless steel shroud which covers it to meet cGMP norms.

The online Co - Mill is provided on the discharge port to reduce the oversized lumps, resulting in reduced drying time by approximately 20%. As the lumps are small the product can be uniformly dried at lower temperature, thus giving it a longer shelf life beside eliminating caseing & capping of tablet due to improper drying.

It is provided on the side of the bottom, operated by a S.S. Spindle connected to a pneumatic cylinder. In closed position, the gate is flushed with the contour of the bowl. A cover with removable silicone rubber seal gives unrestricted access into the chute for easy cleaning. A safety lock in the form of a limit switch is provided at the discharge port to prevent the valve or the motors to start during the cleaning operation. The pneumatic cylinder is covered by a stainless steel shroud to meet cGMP standard.

Silent Features

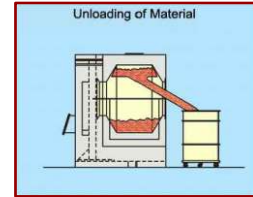
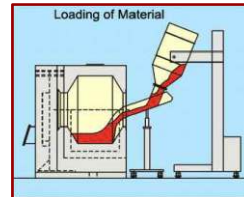
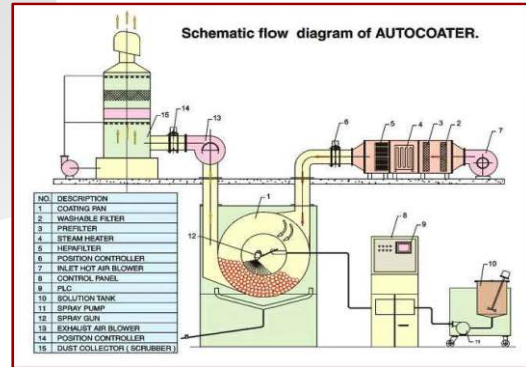
- ◆ Uniform distribution of all formulation ingredients.
- ◆ Short mixing and granulation time.
- ◆ Useful working capacity of upto 80% to 40% of bowl volume.
- ◆ Uniform granules by gentle processing. Wide range of applications.
- ◆ Easy scale up & Scale down between machine sizes.
- ◆ Bowl shape designed to have no dead spaces.

Optional

- ◆ Jacketed Models
- ◆ Vacuum Charging
- ◆ Gravity Charging
- ◆ Mechanical Seals
- ◆ Binder Spraying Systems
- ◆ CIP / WIP Systems
- ◆ Vacuum Drying

AUTO COATER TABLET (AC)

Capacity : 0.5 to 450 kg (Customized as per Client requirement.)



TAC Coaters are used for processing different shapes of tablets, capsules and pellets. The coating process can be divided into three sub-processes: spraying of Liquid to be coated, drying of the tablets and mixing of the tablets. The TAC coater series optimizes all three sub-processes. The totally perforated drum with a free surface enables a maximum air flow. The mixing elements ensure the uniform and gentle mixing, even with variable filling degrees: most important condition for best uniformity of coating. The optimized nozzle arm guarantees the perfect adjustment of the nozzle position to the table bed — in this way, it is always possible to set the best spraying distance and angle. Directly under the spraying zone, the heated inlet air is led to the tablet bed and ensures the quick drying of the wet surfaces. The air exhausts through the tablet bed.

Your Vision our Engineering...

Features: Up to 1000 Kg per lot (which we cover in only 6 models) Filling Ration 25% -100% without Changing Pan or Baffles Large sized hinged side panels for easy accessibility to the plenums for the purpose of inspection and dismounting. Unique Pan Geometry with effective mixing elements that ensures a gentle product movement and Criss-Cross movement during rotation. Higher opening percentage that will facilitate faster drying and in turn increased spray rates. Spray boom adjustment in two axes wherein optimum spraying distance and angle can be set. Guaranteed 100% discharge without any tools or any additional fitments. Nozzles for best coating uniformity. Inlet air from the side and direct onto the wet tablet bed. Option of Inline sampling through vacuum suction. Faster Coating due to high performance air technology and by nozzles distances and number of nozzles. Special type Duct Joint 100% leak proof with easy dis-mountable type.



ANTI BEARDING SPRAY GUN



SUGAR COATING NOZZLE



RABBIT EAR Baffle



MULTI HEAD PUMP



SOLUTION TANK WITH STIRRER

CONTA BLENDER (COB)

Capacity : 0.5 to 450 kg (Customized as per Client requirement.)

FABON Pharmatech Pvt. Ltd. Team, the Conta Blender represents a major advance that enables dust free transfer of powders and granules from Drying to Compression / Filling equipments with reduced material handling. The unique design ensures rotation in a diagonal axis and in an eccentric plane resulting in a homogeneous blend within a short time. It finds varied applications across multiple industries.

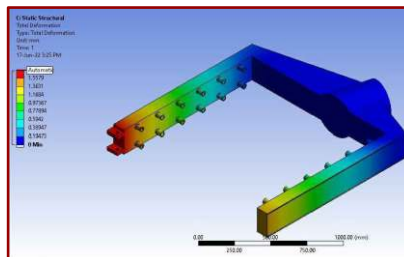


Features:

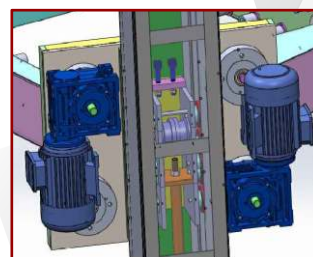
- ◆ Designed for dust free blending and transfer of powders and granules
- ◆ 0° stopping for easy docking and undocking of the bin
- ◆ Fencing around the cage with an entry point for the bin on detachable trolley
- ◆ Limit switch on entry door to prevent accidental operation of the cage
- ◆ Flexibility of accepting variable bin sizes providing wide range of batch volumes
- ◆ cGMP construction with cladded polished S. S. Sheets
- ◆ Containers of Varying size for varying batch size
- ◆ Built-in Butterfly valve (150 mm dia) at the bottom for discharge
- ◆ Suitable leak proof vent on top
- ◆ Single step transfer from Drying to Compression / Filling equipments
- ◆ Superior mixing efficiency
- ◆ Reduced material handling
- ◆ Highly effective for low volume active blending with as low as 1% active
- ◆ Processing of different sizes of production batches with scale up data
- ◆ Dust-free operation
- ◆ No risk of segregation on extended processing
- ◆ No Cleaning down time as the product container is mobile



INTERCHANGEABLE BIN



HEAVY DUTY STURDY ARM



BLENDING DRIVE UNIT



CYLINDER FOR LIFTING

UNDERDRIVEN CO MILL (UCML)



Under Driven Cone Mill meets all your requirements for achieving uniform size reduction, sieving, de-agglomeration, dispersion and mixing of dry and wet products, with optimum process efficiency and product consistency. It offers all the benefits of **FABON Pharmatech Pvt. Ltd.** under driven Cone mill with additional advantages including inline integration and can be used in multiple industries for higher outputs.



Round bar Impeller



Square bar Impeller



Round hole Sieve



Square hole Sieve

Features

- ◆ Uses Centrifugal force for both Milling and Sifting
- ◆ Gentle grinding action with close particle size distribution
- ◆ Minimal fines generation
- ◆ Charging of material- either gravity fed or vacuum transferred
- ◆ Increased throughput with 50% more capacity than conventional mills
- ◆ Adaptable & flexible design with interchangeable Cone mill and Rotary sifter and through the wall design
- ◆ Customized options for feeding and handling
- ◆ Readily available scale up from lab to production scale
- ◆ Material of construction : SS 316 / SS 316L / Food grade materials
- ◆ Easy to clean
- ◆ High efficiency
- ◆ Multi-purpose utility as Cone mill or Rotary sifter
- ◆ Uniform sized output
- ◆ Suitable for milling dry, wet, fatty or sticky materials
- ◆ Low heat generation, low noise and low dust levels
- ◆ Easy maintenance
- ◆ Versatile application in varied industries



Starch Paste Kettle

Models available (in Liter): 25 to 250

The Starch Paste Kettle conforms to cGMP norms and comprises of a jacketed hemispherical bowl with all necessary steam accessories.

Bottom discharge with flush bottom ball valve. Mechanical tilting with worm / worm wheel arrangement. Motorized drive mechanism for tilting as an option. Detachable Agitator with Anchor blades and Teflon scrapers. Hydraulic lifting and lowering arrangement as an option.

Contact parts made of SS 316 / SS 316L.

MULTIMILL

Models available 20 kg/hr.(Lab Model),50 kg to 200 kg/hr.

The Multimill is used for granulating, pulverising, shredding and chopping of materials.

Odd-size crystalline material/ granules can be reduced to the required size by fitting interchangeable perforated screens around the swinging hammer blades

SALIENT FEATURES

- ◆ Contact parts made of SS316 / SS 316L.
- ◆ Compact, easy to operate and dismantle for cleaning.
- ◆ Variable frequency drive for speed variation as an option.
- ◆ Height of discharge can be made to suit different capacity IPC height.



VIBRO SIFTER

Models available 12" to 48"

SALIENT FEATURES:

- ◆ Deal 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



Tipper for Product Container

The Lifter and Tipper Unit is a standalone unit allowing minimum manpower with cGMP concept for Lifting and Tilting of the FBD bowl.

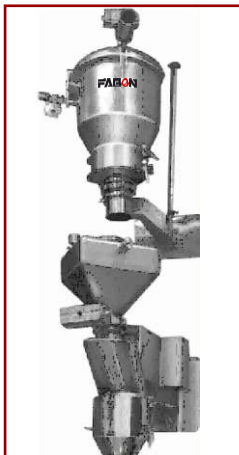
Silent Features :

Ideal for faster operation with minimum dust generation. Tilting head integral with lifting head and housed on the yoke with horse shoe shaped SS lifting cradle. Tilting degree of the cone provided by double action hydraulic cylinder through specially designed rack and pinion assembly. Hydraulic Power Pack operated through custom built panel with push button station for Raising / Lowering & Tilting with limit switches for controlling the UP/DOWN movement.

Lifter for Bin :

Elevator operates by engaging the container to a semicircular single hook / fork type / platform, lift arm attached to a column. The container is then raised or lowered by hydraulic system with built in safety parameters. The four point contact bearing on the column base with a low resistance factor makes it possible to position loaded container by hand radially, to discharge the contents in the process equipments.

- ◆ Closed Column construction with floor and ceiling fastening
- ◆ Also available in self standing pivoted execution
- ◆ Material of construction is SS clad MS column/SS column
- ◆ Adjustable mount stop
- ◆ Double acting in-house manufactured Hydraulic Cylinder with 3 stage Fail safe seals
- ◆ Cylinder designed for an operating pressure of 100 BAR & has a Hose burst protection system
- ◆ Solid Machined trolley made out of 30 MM Machined Frame
- ◆ 2 no's 8 MM Ø SS 304 Wire ropes instead of chain
- ◆ Lift Lock for safety provided
- ◆ Imported Mono Block Power Pack
- ◆ Control Cabling and rigid piping included
- ◆ CE Certified meeting 19 EN specifications
- ◆ Built-in provision for the Vibratory Sifter/ Mill to be electrically connected
- ◆ Mechanical & Pneumatic locking for Safety.



Vacum Transfer System :

- ◆ Pneumatically operated transfer system for powder and granules
- ◆ Closed system for dust free operations
- ◆ Buffer vessel provision to avoid choking & assist in continuous feeding of product
- ◆ Considerable reduction or elimination of operator exposure
- ◆ Reduction in manpower required for charging
- ◆ Improved agitation and thus reduced batch time, through controlled material addition
- ◆ Reduces solids handling and eliminates hoists and handling equipment
- ◆ Easier to clean than conventional vacuum conveying equipment; CIP available
- ◆ Automatic pulse filter cleaning mechanism for improved process efficiency Integrated
- ◆ HIM system for automated process
- ◆ Multiple options available for different applications: Fixed, Mobile & Wall mounted
- ◆ Existing process steps can be linked to each other



OCTAGONAL BLENDER :

Models available (in Liter): 5 to 6000

The Octagonal Blender with its octagonal shaped mixing bin and built-in baffles ensures efficient blending.

Octagonal blender is supplied with a bin charging system or can be designed for vacuum charging.

Ideal for gentle blending of dry granules or powder.

Removable baffle mounted through a rectangular openable lid. Bin charging system can be incorporated with dust free closed system for charging and discharging.

Contact parts made of SS 316 / SS 316L.

Double Cone Blender

Models available (in Liter): 5 to 2500

The Double Cone Blender with its Double cone shaped bin ensures efficient blending suitable for specified user's requirement.

Conical shape at both ends enables uniform mixing and easy discharge.

Cone statically balanced to avoid any excessive load on the gearbox and motor. Discharge through a Mucon valve or butterfly valve.

Paddle type baffles can be provided on the shaft for better mixing.

Flame-proof motor can be supplied as an option.

Contact parts made of SS 316 / SS 316L.



V - Blender

Models available 5 to 2500

The product containers have "V" shape so it crated continuously split and recombines of the material with more tumbler and friction effect to the material for fast and homogenizing mixing. It can perform homogeneously dry mixing of free flowing powders, granules requiring low shearing force, mixing and blending of particles with rapid intermixing of particles irrespective of varying specific gravities. The material is loaded into the "V" shape blender drum.

Design is cGMP with product contact parts AISI 316.

'V' shape product container for ideal dry mixer for lubrication of granules and homogenization mixing.

Fixed baffles provided for lumps breaking.

"A" type rigid structure with enclosed gear motor drive. Charging hole with hinged lid & discharge with butterfly valve. Electric controls panel with cycle time.



Tray Dryer

Models available 12 to 192 trays

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.

Vacuum Tray Dryer

Models available 6 to 96 trays

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.



COATING PAN

Models available 12" to 72"

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 Per 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

OUR PRODUCTS

- ◆ FLUID BED PROCESSOR (FBP)
- ◆ RAPID MIXER GRANULATOR (RMG)
- ◆ AUTO COATER TABLET (AC)
- ◆ CONTA BLENDER (COB)
- ◆ UNDERDRIVEN CO MILL (UCML)
- ◆ STARCH PASTE KETTLE
- ◆ MULTIMILL
- ◆ VIBRO SIFTER
- ◆ TIPPER FOR PRODUCT CONTAINER
- ◆ LIFTER FOR BIN
- ◆ VACUM TRANSFER SYSTEM
- ◆ OCTAGONAL BLENDER
- ◆ DOUBLE CONE BLENDER
- ◆ V - BLENDER
- ◆ TRAY DRYER
- ◆ COATING PAN



: CONTACT US :

📍 Sr.No-153, Ambad-Gavalana Road,
Behind D-Mart, NH-03, Pathardi,
Nashik - 422010

☎ +91 93249 24350

🌐 <https://www.fabonpharmatech.com>

<https://www.fabonpharmatech.com>

✉ fabonpharma@gmail.com