

VACUUM TRANSFER SYSTEM

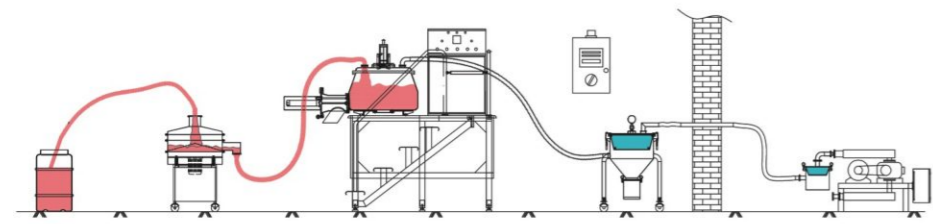


Vacuum Transfer System has been proved to be a better way to move numbers of free flowing materials and a huge step over manual handling. System will be designed to meet the needs of bulk material handling systems for industries like; Pharmaceuticals, Plastics, Foods, Chemicals, etc. The System will be designed to transfer the material from a particular source to its destination.

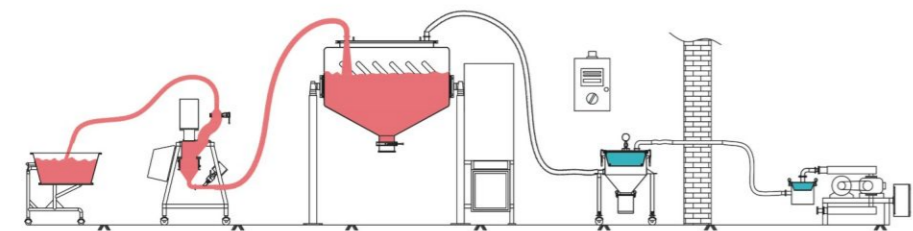
SALIENT FEATURES

- Contact parts SS 316 & Non contact parts SS 304
- System with GMP norms.
- Dust free material transfer system
- 50 Feet Food Grade Hose pipe
- Faster transfer of large volume with less time
- Low cost system with high productivity
- Easy to commission, operate and clean
- No moving component hence less maintenance

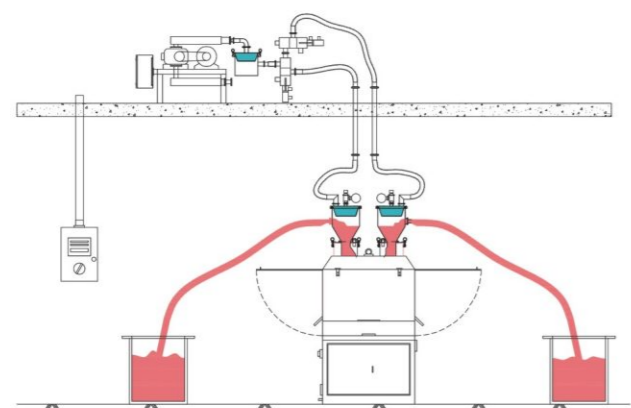
Capacity	100 to 3000 Kg/hr Transfer Rate
Vacuum Source	Specially Designed Blower
Filter Cleaning	Electro Pneumatic Pulse Jet System
Material of Construction	Contact Parts SS 316
Material of Construction	Non Contact Parts SS 304
System Control	Sequential Timer or PLC Based



High Shear Mixer Granulator (RMG) Loading with Inline Sifting



Blenders Loading with Inline Milling



Tablet Press Loading

Manufacturer & Exporter of Pharmaceutical Machineries



TABLET DE-BURRING & DE-DUSTING



Tablet De dusting always comes first and counts first, before coating or packing process. This is a highly efficient elevating type De-Dusting & De-burring machine capable of removing dust from all shapes of tablets accurately.

SALIENT FEATURES

- Contact parts SS 316 & Non contact parts SS 304
- Noiseless and maintenance free design
- Single phase power consumption
- Height adjustable suitable for tableting machine outlet

TECHNICAL SPECIFICATION

Model	FALCON DD
Output *	5,000 to 2,50,000 tablet / Hr.
Main Electric Motor	0.25 Hp. / 1440 RPM / 3 Ph.
Max. Tablet Diameter	25 mm
Min. Tablet Diameter	5 mm

* Depending upon tablet shape & size.

LIFTING & POSITIONING DEVICE (LIFTER)

Material handling device will be used for loading of Sifter, High Shear Mixer Granulator (RMG), Blenders, and Tablet Compression Machine etc. It is made of mild steel pillar covered with SS 304 with a suitable arm of required Intermediate Product Container for lifting & positioning.



SALIENT FEATURES

- Contact parts SS 316 & Non contact parts SS 304
- System with GMP norms.
- Dust free material handling system
- Arm suitable for IPC
- Hydraulic Power Pack for lifting of IPC bin

INTERMEDIATE PRODUCT CONTAINER (IPC BIN)

Generally IPC bins are used for material storage with different shapes & sizes.



SALIENT FEATURES

- Contact parts SS 316 & Non contact parts SS 304
- Square/Round Design for proper storage of material
- Fix/Detachable trolley design
- PU Castor wheel
- Customized Design on request



FALCON PHARMA SYSTEM

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SIFTER



Sifting is a first process of formulation, better sifting is an optimistic sign for potential process that can be achieved through Vibro Sifter. Vibro Sifter is with specially designed vibro motor. Basic design of sifter is with principle of vacuum design for inline sifting process. We can also provide sifter with double deck design as an optionally.

SALIENT FEATURES

- Contact parts SS 316 & Non contact parts SS 304
- Basic design of Sifter is suitable for manual loading as well as suitable for inline Sifting Process with the help of Vacuum Transfer System.
- Main Structure is radial type and is on PU castor wheel for ease of movement.
- Specially designed Vibro Motor for better material movement.
- Manual loading hopper along with sifter
- Silicon moulded lead free design of sieve

TECHNICAL SPECIFICATION			
Model	12"	30"	36"
Screen Dia.	300 mm.	750 mm.	900 mm.
*Capacity/Hour	10 to 40 Ks.	50 to 200 Kg.	100 to 300 Kg.
Charging height	800 mm	1250 mm	1250 mm.
Discharging height	450 mm.	750 mm.	750 mm.
Main Electric Motor	0.25 HP	0.5 HP	1.0 HP

*Varies according to product characteristic and screen type.

PASTE KETTLE (PASTE PREPARATION UNIT)



Paste preparation unit is used for paste / binder to develop wet granulation for High Shear Mixer Granulator (RMG)

SALIENT FEATURES

- Contact parts SS 316 & Non contact parts SS 304
- Mounting on SS structure
- Top mount drive unit
- Variable Frequency Drive is part of machine for aspeed control
- Discharge through tilting
- Inbuilt Steam/Electrical heating elements

Optional Accessories

- Documentation
- Insulation Jacket on Steam Jacket
- Steam
- Electrical Heater
- Flame Proof Construction

Model

- Paste Kettle 10 Ltr
- Paste Kettle 25 Ltr
- Paste Kettle 50 Ltr
- Paste Kettle 100 Ltr
- Paste Kettle 150 Ltr
- Paste Kettle 200 Ltr

LAB HIGH SHEAR MIXER GRANULATOR (RMG)



Lab High Shear Mixer Granulator (**Interchangeable**) has been developed for mixing of ingredients used for wet granulation process for R & D. Multi-blade impeller & chopper design is for better floating and tumbling of material for dry & wet mixing; it forms a uniform wet granules.

SALIENT FEATURES

- Contact parts SS 316 & Non contact parts SS 304
- Three or Four blade impeller (customized) design
- Four blade chopper design
- Special design air purging facility as an option
- Manually operated discharge
- Structure MS & Covered with SS 304
- Manual operated push button control
- PLC based operating panel can be provide as an option
- Inter changeability design for lab model up to 15 litre

TECHNICAL SPECIFICATION					
Model/Size	2.5	5	7.5	10	15
Gross Volume (Litres)	2.5	5	8.0	10	15
Working Volume (Litres)	2.0	4.0	6.4	8.0	12.0
Impeller Motor kW/HP	1.0	1.0	1.0	1.0	1.0
Impeller Blade RPM	15 to 150	15 to 150	15 to 150	15 to 150	15 to 150
Chopper Motor kW/HP	0.5	0.5	0.5	0.5	0.5
Chopper Motor RPM	150 to 2800	150 to 2800	150 to 2800	150 to 2800	150 to 2800

HIGH SHEAR MIXER GRANULATOR (RMG)



High Shear Mixer Granulator has been developed for mixing of ingredients used for wet granulation process. Multi-blade impeller & chopper design is for better floating and tumbling of material for dry & wet mixing; it forms a uniform wet granules. The equipment will be design for suitable of Vacuum Transfer System for material loading.

TECHNICAL SPECIFICATION						
Model/	25	50	100	150	250	400
Gross Volume (Ltrs)	25	50	100	150	250	400
Working Volume (Ltrs)	20.0	40	80	120	200	320
Impeller Motor kW/HP	2.0/3.0	5.0/7.5	5/7.5	10/15	20/30	30/40
Impeller Blade RPM	75/150	75/150	75/150	75/150	75/150	75/150
Chopper Motor kW/HP	0.75/1.0	1.0/2.0	3.0/3.0	3.0/3.0	5.0/5.0	5.0/7.5
Chopper Motor RPM	1500/3000	1500/3000	1500/3000	1500/3000	1500/3000	1500/3000

SALIENT FEATURES

- Contact parts SS 316 & Non contact parts SS 304
- Three OR Four blade impeller (customised) design
- Four blade chopper design
- Special design air purging facility
- Pneumatically operated discharge
- Heavy duty structure with platform & staircase
- Manual operated push button control
- PLC based operating panel can be provide as an option
- Inter changeability design for lab model up to 15 litre

FLUID BED DRYER (FBD)



Fluid Bed Dryer works on the principle of fluidised to dry the material of wet granules with the help of hot air and that will creates turbulence while flowing through it.

SALIENT FEATURES

- Contact parts SS 316 & Non contact parts SS 304
- Uniform drying with quickly exchange the granules
- Single piece retarding chamber
- Heating media steam or electrical heater
- Auto shaking filter bag arrangement
- Container / Filter Bag / Inlet locking through inflatable gasket
- Inbuilt on/off damper
- Exhaust Blower
- Online sampling port

TECHNICAL SPECIFICATION						
Model / Size	5	10	30	60	120	160
Container Volume (Liters)	18	35	115	215	410	475
Working Volume (Kg)	4.0 to 6.0	8.0 to 12.0	20 to 30	45 to 60	100 to 120	140 to 160
Blower Motor HP	3	5	7.5	12.5	25	25
Drying Air Temperature	45-85° C	45-85° C	45-85° C	45-85° C	45-85° C	45-85° C
Steam Consumption (Kg/Hr)	15	25	45	65	90	120
Electrical Heating (kW)	10	15	25	45	60	65

MULTI MILL



Principal of Cone / Multi Mill is to generate the required size of granules by precise interchangeable perforated sieve (Screen) around move backwards and forwards of impeller blades. Design of Cone Mill is suitable for Vacuum Transfer System. Cone Mill is suitable for interchangeable of Multi Mill impeller.

TECHNICAL SPECIFICATION		
Model	Multi Mill	Cone Mill
*Output	50 to 200 Kgs./Hr.	50 to 200 Kgs./Hr.
Sieve	Multi Mill type	Conical type
Impeller Speed	750 / 1500 / 2300 / 2880 RPM	Variable through drive
Motor HP	3 HP. / 2880 RPM / 3 Ph	5 HP. / 2880 RPM / 3 Ph.
Starter	On / Off & Forward / Reverse	On / Off & Forward / Reverse

*Varies according to product characteristic & and screen type.

CONE MILL



SALIENT FEATURES

- Contact parts SS 316 & Non contact parts SS 304
- SS Trolley mount design with PU castor
- Direct top drive unit
- Cone Mill is suitable for inline milling process.
- Variable Frequency Drive is part of machine for speed control of impeller
- Four speed drive for Multi Mill
- Documents

OCTAGONAL BLENDER



Octagonal blender is multi talented blending equipment for mixing of dry granules and dry powders for proper homogeneously. Blenders mounted with two different legs. One is driving and second will supporting end. Discharge will be through manually operated butterfly valve. Double cone blender will be design with angle and shape for proper mixing. Both the blenders are suitable for Vacuum Transfer System for loading of material.

SIZE AVAILABLE

- Lab Model from 5 Liter to 25 Liter with interchangeability
- Capacity from 50 Liter to 5000 Liter

DOUBLE CONE BLENDER



SALIENT FEATURES

- Contact parts SS 316 & non contact parts SS 304
- Basic design of blenders are suitable for vacuum for loading of material
- Structure will be made of SS 304
- Variable frequency drive for desired RPM
- Self positioning sensor for particular discharge position
- Manually operated butterfly valve at discharge
- Tri clover based adaptor at discharge for safe guard of material
- Belt / Chain drive arrangement provides for minimum slippages and maximize load bearing capacity.

TABLET COATING MACHINE



Tablet Coating Machine will be designed leak proof doors provided on left and right sides. Variable Frequency Drive control the perforated coating pan to utilizes of air flow system for maximum drying equality and minimum time process. Air flow through the inlet duct and is absorbed down to the product bed. The air exits under exhaust plenum located at tablet bed. Require solution pump and spray nozzles to minimize the coating process.

SALIENT FEATURES

- Contact parts SS 316 & Non contact parts SS 304
- Indian make spray nozzle (On request will provide imported spray nozzles)
- Solution Tank, Peristaltic Pump are the part of the machine
- Inlet and Exhaust blower
- Wet scrubber
- SS 304 Air Preparation Unit
- PLC based control panel as an option

TECHNICAL SPECIFICATION								
MODEL	12"	18"	24"	30"	36"	42"	48"	60"
Pan Dia (mm)	300	450	610	750	900	1050	1200	1500
Capacity in Kg.	01	05	15	30	50	75	120	300
Motor HP	1.0	1.0	2.0	3.0	3.0	5.0	5.0	7.5