Committed to Quality & Performance

pneuCONVEYOR systems & engineers

Manufacturers of Vacuum Powder Transfer System, Pneumatic Powder Conveying system (Dense/Dilute phase), Tubular Chain Drag Conveyor, Screw Conveyor (Flexible/Fixed), Sifting, Milling, Drying, Mixing & Blending Equipments, Big bag loading/ unloading, Silo Storage Systems & Weighing Batching systems

EXPERIENCE IN MOTION

We are a reputed company specialists in plant and process automation systems for all types of ingredients handling, processing of integrated and automated powder processing system as per GMP norms for pharma/ bulk drug/ food /chemicals/ cement/ paint / plastic/ fertilizers and other industries.

For complete customized solutions in

- # PRODUCT TRANSFER / CONVEYING / CHARGING
- # PRODUCT STORAGE
- # MILLING & SIFTING
- # MIXING / BLENDING
- # BAG/DRUM WEIGH FILLING
- # WEIGHING & BATCHING SYSTEM
- # DUST CONTROL

Applications :

- # PHARMACEUTICALS
- # BULK DRUG
- # FOOD
- # CHEMICAL
- # CEMENT
- # PAINT
- # FERTILIZERS
- # DYES

SPECIALIST IN AUTOMATION PLANT # PROCESS AUTOMATION SYSTEM # SPECIAL PURPOSE MACHINES

Excellent Engineering - Committed to Quality & Performance

COMPANY PROFILE :

pneuCONVEYOR – began its activities in the year 2010 in the field of Pneumatic Conveying system & Mechanical Conveying Systems. The company has specialized since its origins in the production and use of Pneumatic conveying & related machineries and then, over the years, extended the products & range of machinery such as Pneumatic Dense Flow conveyor (Ash conveyor / Cement Conveyor). Vacuum powder transfer system, Powder Mixers, Power Blenders, Weighing, Batching & Bagging Machinery, Mechanical Conveyor such as (Tubular Drag Conveyor / Flexible Screw Conveyor).

These services cover all activities involved in a project right from concept to commissioning.

pneuCONVEYOR systems & engineers – with its head office at Mumbai, is fast becoming one of the leading groups in India with operational experience in execution of turnkey projects in the field of bulk Powder (fine/Coarse) conveying system for Chemical Industry, Food Industry, Pharma Industry, Dairy Industry, Glass Industry, Floor Mill, Coal based Power plants, Cement Industry, Pesticides Industry, Paper Industry, Plastic Industry, Paint Industry, Foundries & other core sectors.

pneuCONVEYOR has extensive experience in execution of complete Powder / Granules / Fly Ash / Bulk solids Handling System in medium to large sectors on turnkey basis. This includes design & engineering, manufacture & supply, site fabrication & erection & associated structural works.

INFRASTRUCTURAL FACILITIES :

Our office is located in Mumbai (Maharashtra) heart of India, having factory At Bhiwandi (Mumbai-Thane) & GIDC sarigam (Bhilad) Gujarat.

Our office as well as manufacturing works are well equipped with latest computers, scanners & printers along with server connected to all the computers having E-mail facility, enabling fast, accurate communication with client / vendor.

Why Us?

Quality Assurance:-
Infrastructure: The backbone of our organization is our sophisticated infrastructure, which enables us to manufacture top quality products in bulk, as per client's requirements and in time. Banking on our modern infrastructure, we efficiently design and manufacture impeccable range of Powder Handling Machineries & Equipment related to various industries. We are well versed with global trends & challenges in the industry, hence we have developed a strong distribution network in India and around the world. We have clients across the country and globe.

Our fair business deals and professional attitude has helped us to satisfy clients with varied needs from all over the world. We successfully meet the deadlines set by our clients and deliver them on time. We strive to build a long lasting relationship with our clients. We have association with some of the big names in the industry and our objective is to further expand our business horizon by venturing into the key international markets.

PRODUCTS :

POWDER HANDLING SYSTEMS :

POWDER CONVEORS :

PRODUCTS :

POWDER HANDLING SYSTEMS :

SIFTING & MILLING :

BLENDERS & MIXERS :

Committed to Quality & Performance

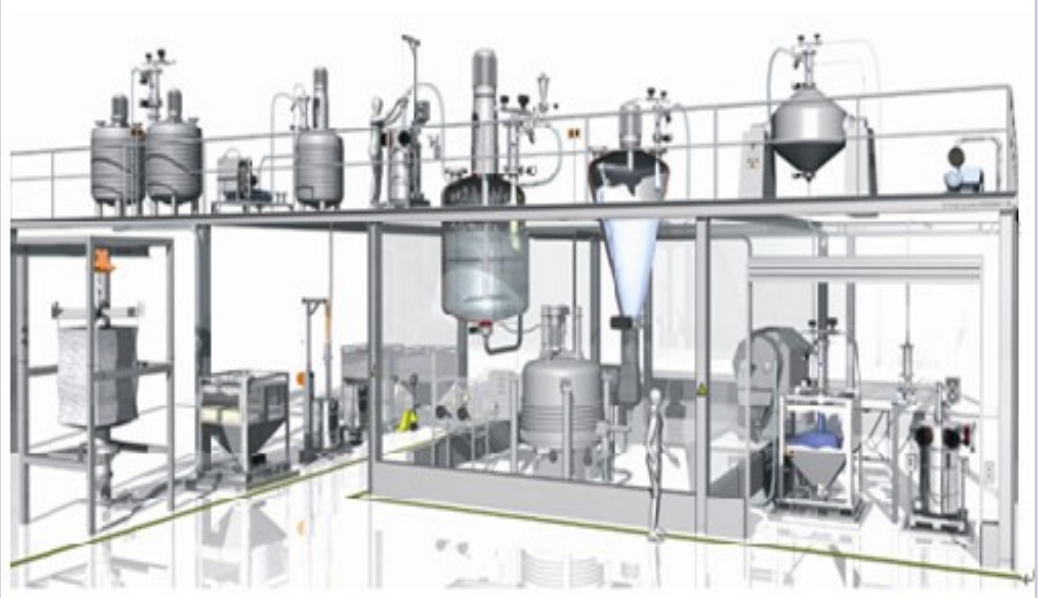
pneuCONVEYOR systems & engineers

Manufacturers of Vacuum Powder Transfer System, Pneumatic Powder Conveying system (Dense/Dilute phase), Tubular Chain Drag Conveyor, Screw Conveyor (Flexible/Fixed), Sifting, Milling, Drying, Mixing & Blending Equipments, Big bag loading/ unloading, Silo Storage Systems & Weighing Batching systems

POWDER HANDLING SYTEMS:

POWDER CONVEYORS :

PNEUMATIC POWDER CONVEYOR



pneuCONVEYOR is a manufacturer of custom pneumatic conveying systems and support equipment for conveying, vacuum conveying, batching, and weighing materials. With a pneuCONVEYOR- pneumatic conveying system on site, your company's product can move gently and quickly from point to point, with nothing in the way to impede the efficiency of its movement.

pneuCONVEYOR, specializes in the design & mfg. of complete integrated systems for pneumatically conveying & handling dry materials. the food & pharmaceutical industry demands equipments that will handle material with almost cleanness least possible degradation & minimum segregation.

pneuCONVEYOR offer many advantages over other means of handling Pharma powders, chemical powders, granules, food product, grain, fertilisers, paint powder etc. pneuCONVEYOR is an operator-friendly, sanitary pneumatic conveyor. Featuring simple, adjustable “air logic” controls, a rugged mechanism with auto cycle and self-cleaning filter (backwash), the pneuCONVEYOR is ideal for today’s processing environments.

DENSE PHASE CONVEYING SYSTEM

Dense phase conveying is a highly reliable pneumatic conveying system with a low velocity and a high product/air ratio, suitable to convey powders and granule. With Dense Phase Conveyors the product is introduced into the conveying line through a pressure vessel and is suitable to convey products from a single point to one or more receiving points.

Dense phase conveying System: Dense phase conveying is a highly reliable pneumatic conveying system with a low velocity and a high product/air ratio, suitable to convey powders and granule. With Dense Phase Conveyors the product is introduced into the conveying line through a pressure vessel and is suitable to convey products from a single point to one or more receiving points.

The system has following features :

- The material inlet valve provided with the system has a special inflatable rubber seal which is inflated with the help of air pressure on closure of the inlet valve, thus eliminating any chance of air leakage from the transporter top ensuring a 100% sealing at the vessel inlet.
- In our standard equipments & design range bends provided are of converging diverging type i.e. wherein bend area decreases (thus thickness increases) at the segment outlet, which keeps the material floating and unsettled, thus eliminating the chances of choking in the bend section.
- The transporter is fitted with fluidizing nozzles, which produce a swirling air phenomenon, thus helping in prevention of bridging problem from fine power & adhering problem by hygroscopic elements.

DILUTE PHASE (LEAN PHASE) CONVEYING SYSTEM

Dilute phase pneumatic conveying systems operate on the principle that the solids will be suspended in the conveying line air stream. This is achieved by feeding material in controlled quantity into a air stream. Generally velocities are greater than 20 mtrs per second and material to air ratios are up to .10 to 1. Material conveyed will be separated from air stream through Cyclone & Bag filter.

pneuCONVEYOR – Dilute Phase (Lean Phase) Pneumatic Conveying systems

Dilute phase pneumatic conveying systems operate on the principle that the solids will be suspended in the conveying line air stream. This is achieved by feeding material in controlled quantity into a air stream. Generally velocities are greater than 20mtr per second and material to air ratios are up to .10 to 1. Material conveyed will be separated from air stream through Cyclone & Bag filter.

Commonly Conveyed produts : Products commonly conveyed in Dilute phase systems include Pharmaceutical Powder, speciality chemicals powders, flours, resins and compounds, ground feeds, and granular and pelletized products. In many cases, the product needs to be evaluated based on process needs to final system selection to ensure the desired results can be achieved.

PORTABLE VACUUMISED POWDER CONVEYOR

Product Description:-

Intrdouction: Vacuum feeder, also known as vacuum conveyor, is a kind of dust-free airtight pipeline conveying equipment which transfers particles and powder materials by means of vacuum suction. It uses the difference of air pressure between vacuum and environment space to form gas flow in the pipeline, and drives the movement of powder materials, so as to complete powder conveying.

The basic principle of pneumatic conveyor is to move the suspended material such as tablet, capsule, other powder & granular material in a relatively uniform stream from a feed station or supply source to a delivery point. The vacuum generated by a vacuum pump or blower creates a high enough air velocity and low enough solids to air ratio to effectively move the materials.

Our vacuum conveyor range from PC-VC1 to PC-VC7 with capacity up to 3 tons per hour and suitable for transport in bulk bag unloading, dosing, milling, pelleting, screening and batch feeding of process tanks, mixers and other process equipment.

Application :

# Food Processing	# Pharmaceutical	# Powder and energy
# Petrochemical	# Chemicals	# Mining and minerals
# Feed processing	# Plastic	

Main Features:-

1.Dust free conveying and low maintenance
2.Clean easily between batches
3.Move material in any direction
4.Reduce labour cost
5.Made by AISI 304 or 316L to meet GMP sanitary standard
6.No tools needed to change the filters

Technical Data:-

Model	Power(Kw)	Pressure(Mpa)	Capacity(Kg)
PC-VC1	1.5	0.4-0.6	200
PC-VC2	2.2	0.4-0.6	400
PC-VC3	3.0	0.4-0.6	600
PC-VC4	5.5	0.4-0.6	1200
PC-VC5	5.5	0.4-0.65	1500
PC-VC6	7.5	0.4-0.65	2000
PC-VC7	11	0.4-0.65	3000

Note :

The capacity mentioned above is calculated on the basis of 0.5 density Powder & and 3 meters conveying distance! For exact capacity of conveying system, please contact us via the bottom contact information!

POWDER TRANSFER SYSTEM

VACUUMISED POWDER CONVEYING / TRANSFER SYSTEM

Easy dust free Conveying with inline process

Application & Process : pneuCONVEYOR is a manufacturer of custom pneumatic conveying systems and support equipment for conveying, vacuum conveying, batching, and weighing materials.

The Vacuum transfer system is unique dry material transfer system for dust free and avoid human touch. The Vacuum transfer system is used in Pharmaceutical, Food, Bulk Drug, Agro chemical, Sugar Industries and other organic & Inorganic chemicals. The system is used for inline milling, sifting, blending, loading and unloading.

The principle of Vacuum transfer system has been proven to be a better way to move many types of material and a giant step over manual handling. The technology exists for moving virtually any material that can be pulled through a hose or tube. The system is consisting of Blower, Vacuum receiver system with filter, cyclone filter and Pipe.

The Vacuum transfer system designed specifically for the direct charge loading of blenders, mixers, sifter, milling, reactors or any vessel capable of withstanding a vacuum, A Powder loader is provided for machines & vessel not capable or facilitate to create vacuum. The vacuum system can be provided mobile type with lifting provision to move one room to another room for loading and unloading any machine.

Preferred applications: For reliable feeding of free-flowing powders and granular bulk material to processing machines in the Pharmaceutical, Bulk drug, food, plastic and chemical industry. The material can be picked up from e.g. sacks, drums, container or silos. The type pC- receivers are used as individual receivers, with a separate blower each, in discontinuous vacuum, low-velocity vacuum and dense-phase conveying systems. They are mounted on the batch hopper of the processing machines where they serve for separating of the bulk materials.

Functional principle: When switching the blower on, a vacuum is generated causing the product to be transferred when switching the blower on, a vacuum is generated causing the product to be transferred via the conveying line from the pickup point to the receiver. When the conveying phase has ended, the outlet valve opens and the product is discharged. A new conveying cycle starts when the level control in the outlet requests more product. The filter is purged by automatic compressed air pulses after each conveying phase, and the air escapes via the vent filter. The sequence of the operating cycles is controlled by a freely programmable or an electronic control system. The actual operating state is displayed at the electronic control.

Special advantages:

- Stainless steel construction
- Sturdy and perfected design
- Generously dimensioned filters ensure dust-free continuous operation
- Suitable for continuous operation due to compressed air purging of the filter
- No production stoppage due to a device indicating that the product supply at the feeding point is running low
- High functional reliability through electronic control and monitoring
- Can be completely dismantled for cleaning without tools
- Simple filter inspection via a swivelling device at the cover.

Typical advantages of conveying system:

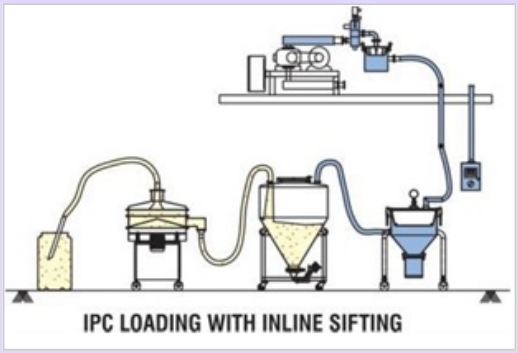
- SUITABILITY : Emptying or filling process equipment (reactors, dryers, blenders / mixers / centrifuges, etc.).
- DUST FREE : Material can be drawn directly from drums, Bags, storage containers, process.vessels- no messy dumping or manhandling. Charging of powder directly into closed vessels, including those under vacuum or pressure, preventing the formation of dust and the introduction of oxygen. Charging also possible in the presence of solvents.
- System can be completely sealed, any leakage in system will be inward- no noxious or hazardous materials discharged into work area.
- VERSATILE : Conveying lines can be routed between floors, through partitions, aroundmachinery- can easily be re-routed to accommodate process modifications. Adaptable to many process operations- easily integrated & automated.
- SANITARY:Materials of construction & finishes selected for the products being handled. Easily disassembled modular design facilities cleaning.
- ECONOMICAL : Lower service / Lower cleaning costs / Minimum maintenance / few moving parts.

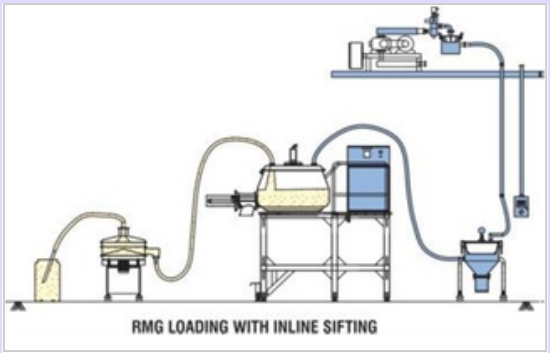
SPECIFICATIONS SHEET : POWDER CONVEYING SYSTEM

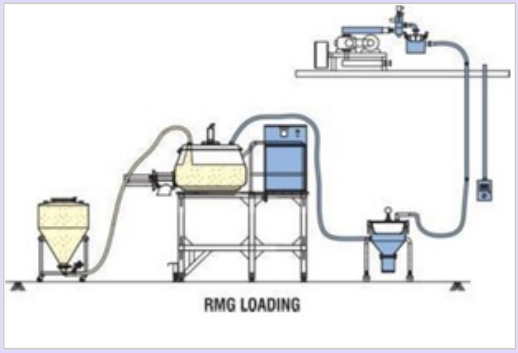
MODEL	LOADING CAP KGS	MAT. LINE DIA	VACUUM LIND DIA	QTY. OF FILTERS	DIMENSIONS L X W X H
pC-PCS15	150	¾"	¾"	3	550 X 230 X 230
pC-PCS20	200	1"	1"	4	675 X 250 X 250
pC-PCS30	300	1½"	1½"	6	780 X 250 X 250
pC-PCS60	600	2"	2"	9	760 X 350 X 350
pC-PCS120	1200	2"	2"	12	950 X 400 X 400
pC-PCS200	2000	2½"	2½"	12	1100 X 450 X 450
pC-PCS300	3000	2½"	2½"	16	1350 X 450 X 450
pC-PCS400	4000	2½"	2½"	16	1450 X 500 X 500
pC-PCS-500	5000	3"	3"	24	1650 X 550 X 550

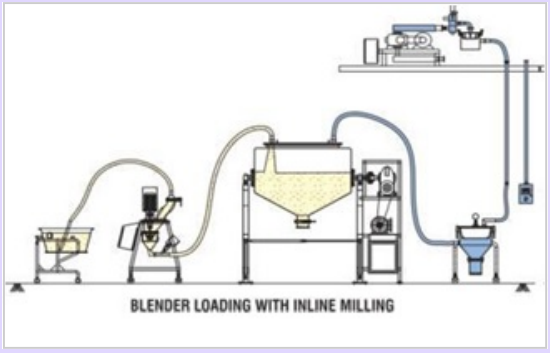
Salient Features:-

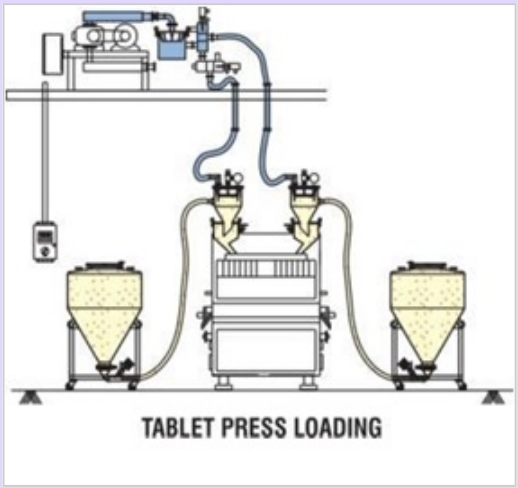
- Used to transfer material having bulk density upto 1.0gm/cc.
- Smooth surfaces, electro polished or mirror polished.
- Dust-free and gentle material handling / High-standard filters for pharma applications.
- Safe for operation with ignitable materials and for the use inside explosion zones.
- Minimum of residual material inside the conveyor.
- Easy disassembling & cleaning of the conveyors.
- Manual or automatic suction processes / Lightweight and mobile systems available.
- All contact parts SS304/ SS316/ SS316L & all gasket /seal-Silicone.
- Capacity available: Up to 5000 Kg/ hr.

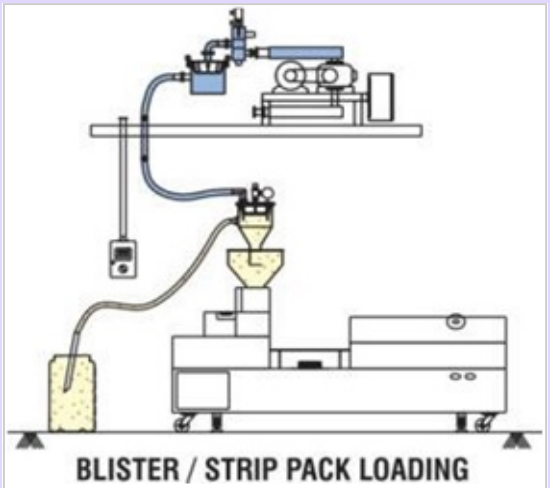

IPC LOADING WITH INLINE SIFTING


RMG LOADING WITH INLINE SIFTING


RMG LOADING


BLENDER LOADING WITH INLINE MILLING


TABLET PRESS LOADING


BLISTER / STRIP PACK LOADING

PHARMACEUTICAL APPICATION: Inline Sifting/ RMG Loading/ Inline Milling/ Blender Charging/ IPC Loading/ Tablet Press Loading/ Auto Coater Loading/ Unloading/ Blister/ Strip Pack Loading/ Tablet-Capsule Transferring/ Auto. Drum/ Bag Filling & weighing system / Other application can be designed on demand.

FOOD APPLICATION : Flour/ Granulated Sugar/ Dextrose/ Coffee/ Tea/ Milk Powder/ Peanuts/ Salt & Many more.

CHEMICAL APPLICATION : Talcum Powder/ Aerosol/ Sodium Sulphate/ Gelatin & many more

PLASTIC APPLICATION : P E Granules/ P V C Powder/ PVC Blend/ L.D.P.E./ Calcium

REACTOR POWDER CHARGING SYSTEM

(Contained Vacuum Powder Transfer)

Salient Features :

- System ability to charge toxic & hazardous products safely.
- Closed system provides a dust free environment, substantially reducing equipment and facility clean-up.
- System ability to charge to vessel under pressure or vacuum, or with liquids (including solvents) present in the vessel.
- Reduction/elimination of operator exposure/injury (especially back injury caused by lifting heavy bags to dump in manual operations).
- Reduction in manpower required to charge vessel.
- Reduces solids handling and eliminates hoists.

- Much easier to clean than mechanical equipment.
- Fully enclosed system reduces the necessity of using expensive personal protective equipment.
- Elimination of exterior contaminants.
- Powder Transfer rate can be varied and controlled.
- Controls reaction energy vs. HTM capacity Operator and Environmental Health and Safety
- Cleanliness of Plant and Equipment.

CUSTOMIZED VACUUM POWDER TRANSFER

Conveying systems designed to fit almost any process application.

pneuCONVEYOR–designs customized pneumatic conveying equipment based on the specifications and requirements of their industrial process.

Our design and engineering office can offer specific solutions for your pneumatic conveying applications based on our technical experience and the specific requirements of your manufacturing needs.

CONTAINMENT SYSTEMS :

- No dust formation
- Powder can be transferred into a reactor without opening a manhole, retaining the vessel's inert atmosphere
- Powder can be charged into a reactor under pressure or vacuum or with solvent already present in the vessel .

VACUUM POWDER CONVEYING SYSTEMS

Flow rate from 500Kg to 6000 Kg/hr

MOC— SS304 / SS316 / SS316L construction

The technology makes the Reactor Powder Loading an ideal solution for controlled material addition. Suitable for the transfer of raw, intermediate or finished products, it is a versatile work horse for the chemical and pharmaceutical industries, as well as other industries with various powder / solid handling needs.

The Reactor vessel is installed in a room with several other vessels with limited space for local bulk powder charging. So the best solution is to install a contained powder loader to convey the powder to the reactor using an integrated vacuum transfer system

.The SS316 Loader unit is mounted directly on the Top of the Reaction Vessel; the outlet of Loader is connected to a Pump installed in the nearby areas. The inlet suction of Loader is connected with PVC non toxic, transparent food grade SS wire braided hose duly fitted with SS316 suction nozzle at the other hand. The suction nozzle further provided with protective grill at the inlet of the nozzle to suction only powder from the bag or hopper.

A dilute phase vacuum powder transfer takes place, powder is sucked into the Powder transfer unit until it reaches a pre-set level, at this point the inlet valve is closed and the bottom outlet valve is open to allow the powder to discharge, under gravity, into the reactor. The discharge is also aided by a pulse of high pressure nitrogen through the PPF filters. The discharge valves then close and the cycle is repeated until all of the powder has been transferred.

The Powder Transfer system is nitrogen inerted and designed to comply with ATEX regulations.

The system is operated via a touch screen HMI and incorporates interlocks to ensure operator safety. (Optional).

TECHNICAL SPECIFICATIONS :-

MODELS	PC VPC -01	PC VPC -02	PC VPC-03	PC VPC -04	PC VPC -05
HT. OF THE LOADER	850	1150	1310	1450	1580
FLOW RATE IN TONS/HR	500-1 TON	1–2 TONS	2-3 TONS	3–4 TONS	4-6 TONS
DIA. PIPE	38	50	62	76	101
DIA. PRODUCT OUTLET	200	200	250	300	300

TABLET PRESS LOADING SYSTEM (SINGLE / DUAL)

Single/Dual Tablet Press Loading System : (with Trolley based complete Vacuum system & Control accessories)
Multiple Tablet Press Loading System – (with centralized vacuum System & Control accessories.)

Description : Vacuum tablet press loading systems are furnished as complete, ready-to-operate systems for mounting on customer's presses. Available for single / dual hopper & multi hopper tablet presses

Pneumatic conveying system consisting of Pneumatic conveying device with product separator, filtration chamber with Cartridge filter having filter blowback system with the help of compressed air. The system is designed in such a way to dismantled & assembled in minimum time. Further the filter cleaning system is auto. Operated with the help of cyclic timer & remote on/off switch. All the contact surface material designed & used will be SS316L & non contact surface area in SS304 in accordance with FDA requirements.

The system automatically conveys tablet granulations from drums to surge bins over 6 to 8 tablet presses in individual rooms. The Programmable control panel and vacuum pump are located in an adjacent room. The Automatic control panel, with or without PLC based microprocessor, is the nerve center for the system and has reserve capacity to handle a total of 6 to 8 presses. Vacuum is applied to the material receivers over all 6 to 8 presses by one vacuum pump.

The loader eliminates manual scooping of product and messy dumping or mishandling. Draw material directly from drums, boxes, storage containers, process vessels.

Salient Features:

- Compact design receiver package with rates of 100-300 Kg. per hour.
- USFDA accepted, Sanitary construction. Available in SS316 (Optional SS316L).
- Easy to clean. Four quick-acting heavy duty clamps facilitate disassembly for cleaning and service. No tools required.
- Automatic pulse jet filter cleaning system ensures accurate operating performance. Level sensor automatically stop the conveying cycle once material level reaches high level in tablet press hopper & again starts conveying cycle when material level reaches low level.
- Powered by high efficiency positive displacement electric motor or air-operated venturi power unit.
- Very minimum maintenance – few moving parts.
- Full slide opening discharge valve assures complete discharge of material.
- Vibrator is provided on outlet to ease in discharging.
- Dust-tight connection of receiver to press hopper provides maximum cleanliness and product integrity.
- Complete package includes: receiver, power unit, vacuum, hose, conveying wand, and control panel.

Technical Specifications (Tablet Press Loader) :-

Product Output	100 to 300 Kg/Hour transfer rate (depends on mesh & product characteristics)
Vacuum Source	Specially Designed Blower
Filter Cleaning	Air Blasted pulse jet system
Discharge	Full Opening
Level Sensing	Through level sensor
Material of Con-struction	Contact Parts SS 316
Material of Con-struction	Non Contact Parts SS 304
Systems Control	Sequential timer or PLC based

Pneumatic Conveying System's Features:

¨ Meets cGMP standard.

¨ Dust free transfer in enclosed environment.

¨ Faster conveying of larger volume.

¨ Maintains unique production environment.

¨ Vacuum transfer is at low cost process to handle the material.

¨ Reduce the man power and increased the productivity.

¨ Less space required.

¨ Easy to Installed, operate and clean.

¨ No moving components so less maintenance

Optional Accessories:

¨ Documentation.

¨ Filter Bag for Convey Receiver.

¨ Filter Bag for Secondary Filter.

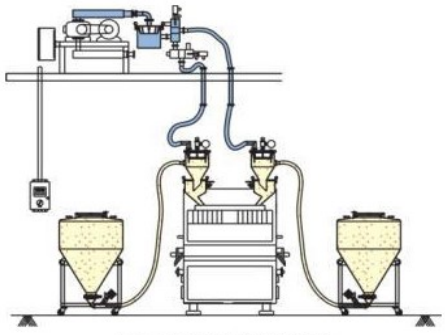
¨ Flame Proof Construction.

¨ Flexible Hose Pipe.

¨ Secondary Filter at Volume Source.

¨ Variable Frequency AC Drive.

¨ PLC Control Panel



TABLET PRESS LOADING

CAPSULE LOADING SYSTEM :

Description :

Specifically for empty or filled capsule transfer, the empty capsule conveyor provides a simple method of unloading of capsules and maintaining a supply to any make of capsule filling system.

The pneuCONVEYOR is a proven system in the transfer of hard-shelled gelatin capsules. Designed and built to overcome the problems associated with

The pneuCONVEYOR is ideal for the automatic loading of high-speed capsule filling machines. Empty capsules are manually loaded into a large diameter, low-height capsule storage-hopper.

A 250-litre storage-hopper has been designed to accommodate a full, standard sized box of capsules. When in operation, a tangentially positive airflow from a multistage fan is forced through a air blower. The empty capsules in the storage hopper are gradually picked up by the suction created by the venturi and gently conveyed in a low- pressure, high-volume airflow through the conveying pipe work to the receiving hopper on the top of capsule-filling machine.

A fully adjustable optical sensor controls the level of capsules in the receiving hopper on the capsule filling machine, by automatically starting and stopping the convey cycle.

Salient Features :

- Low charging height.
- High transfer rate with 100% transfer of capsules.
- Level sensor mounted on the filling machine Hopper for low/high fill protection.
- No change parts required for different sizes of capsules.
- Simple control and 220V single phase power supply

DIRECT CHARGING VACUUMRATED BLENDERS / MIXERS

DESCRIPTIONS :

The principle of vacuum transfer has been proven to be a “better way” to move many types of material and a giant step over manual handling.

The technology exists for moving virtually any material that can be pulled through a hose or tube.

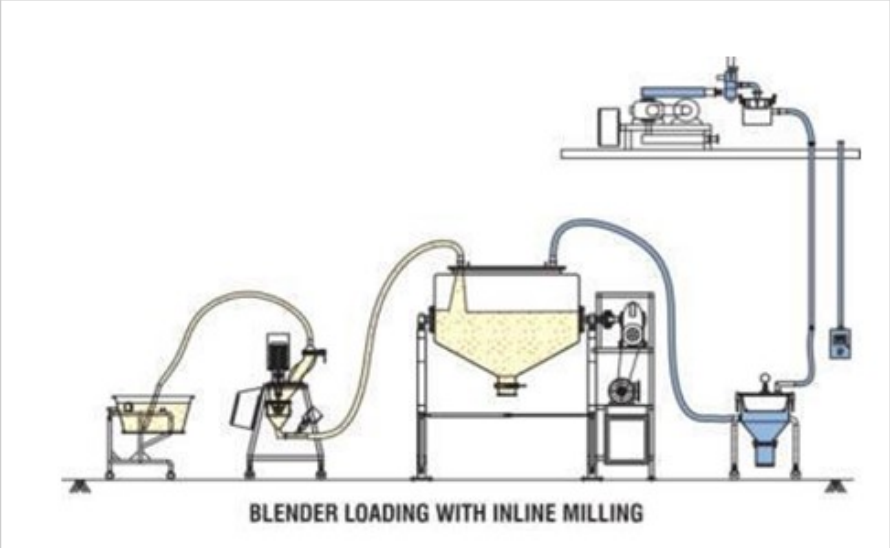
A unique adaptation of vacuum transfer is “direct charge blender loading”, when a vacuum tight process vessel becomes the primary vacuum receiver for material being charged into it. The system is designed in such a way to dismantled & assembled in minimum time. Further the filter cleaning system is auto. Operated with the help of cyclic timer & remote on/off switch.

All the contact surface material designed & used will be SS316L & non contact surface area in SS304 in accordance with FDA requirements.

Pneumatic conveying system in the lean phase vacuum conveying mode which achieves material transfer by introducing the material in to moving stream of air at desired rate. Conveying is achieved automatically and continuous till the material reaches its final destination. Being operated on a vacuum principle the system is intrinsically dust free as any leaks in the system will cause air to be drawn inwards, whilst the material will be protected within the equipment.

The airflow is promoted by creating negative though out the system using root type vacuum blower. pneuCONVEYOR has pioneered this technique and now offers new, exclusive packaged conveying systems designed specifically for the direct charge loading of blenders, mixers, reactors or any vessel capable of withstanding a vacuum.

With existing blender or mixer as the primary receiver, pneuCONVEYOR provides the rest of the system i.e. power source, filters, controls, adapters and most important technical knowledge.



BLENDER LOADING WITH INLINE MILLING

ADVANTAGES :

- All contact parts – SS316 ; Rest – SS304
- Transfer is completely automatic, eliminating the manual handling of the material.
- Systems are packaged with timing controls and automatic pulse filter cleaning. Controls and vacuum pump can be remotely located.
- Avoids contamination & product waste. Material is drawn from floor level through clean hose or tubing.
- Transfers all the material into the process without spills, waste.

TECHNICAL SPECIFICATIONS :

• Capacity	100-2500 Kg./Hr.
• Vacuum Source	Vacuum Blower or direct Air-powered venturi.
• Filter media	Filter Cloth – nonwoven type
• Receiver Capacity	50 Ltrs. / 100 Ltrs. / 150 Ltrs.
• Inlet Size	2″dia. / 2.5”dia. / 3″dia. / 4″dia.
• Material of construction	316 stainless steel (Optional 316L)
• Filter Cleaning	Automatic reverse pulse-jet
• Electrical Voltage	220 Volts, 50/60 Hz., 3-phase

GRAIN CONVEYING SYSTEM

Product Description:

Bulk Grain Loading Flexible Plastic Hose Pipe Screw Conveyor is one kind of vehicle mounted bulk grain inhaling conveyors and used for truck loading purpose. It is mainly applied for collecting or truck loading of bulk grain such as wheat, corn, paddy, cereal, and any other similar granules etc.

Main Features :-

- It has the feature of small volume, large power, convenient to carry.
- The power source can adopt the single phase which is applied for home use.
- The best saving ideal machine for truck loading.
- Running in a high automatization and intellectualization, no pollution.
- Customized length is supported (6meters, 8meters, 10meters is available).

JUMBO BAG LOADING SYSTEM

DESCRIPTION : pneuCONVEYOR –Jumbo Bag Fillers insure fast, dust free and precise filling of Jumbo Bags.

Available in a variety of configurations this ruggedly constructed filler allows its operators to easily insert, fill and remove bags.

From simple volumetric filling to calibrated weighing, the pneuCONVEYOR – Jumbo Bag Filler is the unit that is custom built for your application.

Contact / Frame Materials:

- Carbon Steel
- 304 Stainless Steel
- 316 Stainless Steel

DESCRIPTIONS:

pneuCONVEYOR – has designed a number of jumbo bag loading frames for different applications and will aggressively respond to all bulk bag loading opportunities. The frames from pneuCONVEYOR are simple, sturdy frames of square tubular construction with four legs and permitting a great number of loading options, including the supports for these.

A simple bungee cord bag neck damp offers a major advantage in being able to seal any bag neck from 13 inch diameter to 24 inch diameter without changing the bag neck spout. An inflatable cuff, which is common on competitive units, is offered as an option.

The disadvantage of this device is that a single size cannot accommodate a wide range of bag necks. The versatile and simple single venturi power unit with venturi discharge provides a source of low pressure air for bag inflation. A filter for the air displaced from the bag is standard. Adjustment for different size bags is accomplished by raising or lowering the deck of the weigh frame.

FEATURES:

- Heavy duty square tubular frame with welded top section and bolted legs.
- Internal weigh frame with four load cells.
- Sturdy welded tubular steel frame.
- One piece fill spout.
- Inflatable inlet spout seal with regulator.
- Vibrating platform for consistent filling.
- Adjustable height bag loop supports.
- Adjustable width bag loop supports.
- Dust connection vent.
- Pallet stops.

Optional

- Adjustable height frame.
- Load cells with isolation pads..
- Partial or fully automated operation.
- Bag inflation system with butterfly valves.
- Inline air filter / regulator with local shut off valve.
- Dust collection system.
- Pneumatic vibrator.
- Inlet flow control valve.

JUMBO BAG UNLOADING SYSTEM

PneuCONVEYOR – JUMBO BAG UNLOADING STATION

Specifications : The pneuCONVEYOR Bulk Bag Unloading System, also known as bulk bag dischargers is specifically designed to provide an easy, clean and economical way to discharge the entire contents of bulk and semi-bulk bags, especially when the material is less than free-flowing. Bulk bags can be placed in the bulk bag unloader by fork lift, hoist or crane from floor level. Standard arrangement includes a bag frame to which the suspension loops of the bag can be attached while the bag is resting on the floor. The bag frame is then raised and positioned so the hooks on the frame engage a counter-balanced suspension frame in the superstructure of the unloader. When lowered, the bottom of the bag rests on a sealing ring in the unloader bed and the tension on the bag loops keeps the bag upright.

Optional : A pneumatically operated actuator petals massage the lower portion of the bag to promote material flow toward the centre of the bag.

The outlet piece of the big bag is fitted over the inlet piece and fixed in place by manually or pneumatically lowering the clamping disc. Then the tie-up string is undone and the big bag slightly lifted by the chain hoist to tension the outlet of the big bag. Safe discharge into the downstream process can start. For flow-resistant bulk material, the big bag supporting table is equipped with an additional vibration device or big bag massager. If desired, the big bag dumping station can be fitted with a low-level detector to enable quick change of the big bag.

Material can discharge by gravity into storage, a process vessel or a conveying system for transfer to another location. Modular construction of the discharge portion underneath the bed facilitates the use of a wide range of devices such as screw feeder, rotary valves, lump breakers, etc. pneuCONVEYOR Bulk Bag Unloaders can be used with Pneumatic Conveying Systems, Flexible Screw Conveyors.

Typical *features of Big Bag Discharge Station :*

- Convenient big bag lifting from transport pallet into dumping station.
- Reliable dumping of bulk materials into closed production systems.
- For flow-resistant bulk materials, the dumping station will be equipped with vibration support or flexing device.
- Even in applications of with low throughput rates, big bags are expedient as environment-friendly means of transport and storage.
- Suitable also for big bags with insert, optionally available with insert winding device.

TECHNICAL SPECIFICATIONS:-

Material of construction: stainless steel, mild steel or combination of both. Drive, vibrating bottom: 1pcs.Ele. motor, HP = 1HP / 0.75kW. Capacity: approx. 15-20 Big-Bags/hr. (depending on product properties).

Dimensions of Big-Bags (standard unit):

Max. height: 1000-1900 mm.

Max. width: 1000 mm.

Max. length: 1000 mm.

Max. weight: 1250 kg.

Diameter outlet spout: 300 mm.

Length outlet spout: 500 mm.

Options:

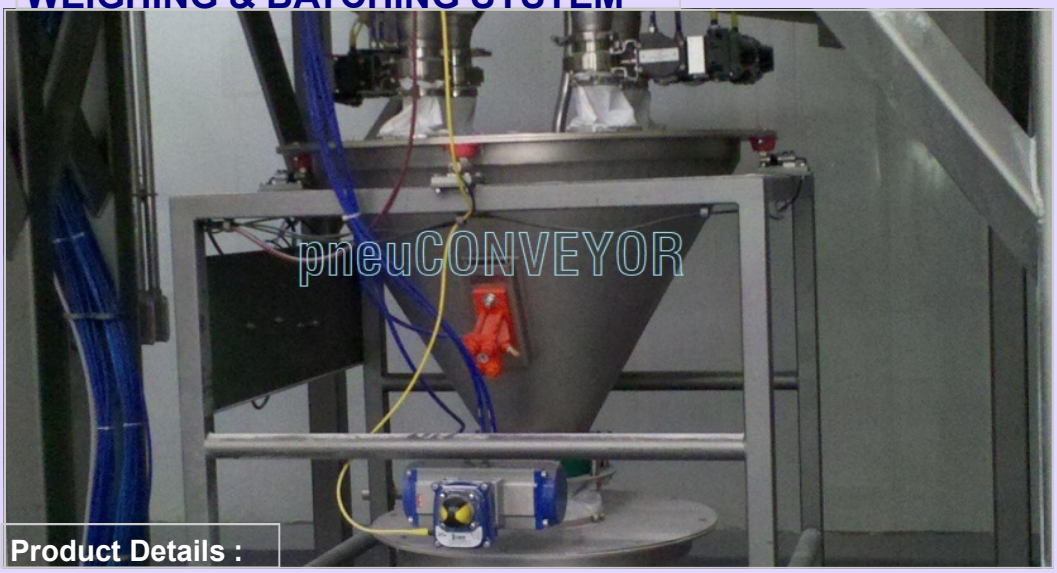
– Clamping system; to achieve a dustproof connection of the outlet spout (very suitable for hygienic application and to form a vacuum in the emptied Jumbo / Big Bag)
– De-dusting unit; multiple types and sizes available, attuned to the product.
– Product discharge system; metering screw conveyors, slide or rotary valves.
– Closed housing/chamber; for toxic or very dusty powders.
– Powder diverter valve to avoid contamination of the product by dust/dirt at the outside of Jumbo/Big-Bag.
– Vacuum suction/Discharge of rests; by connection to a pipe with integrated control valves, there will be a vacuum on the Big-Bag.
– Modified vibrating bottom; to activate very bad flowing products additionally
– Feeding roller conveyor (automatically); for Big-Bags on pallets (incl. pallet stacker)
– Weighing system; to monitor the product flow
– Explosion-proof design.
– Control sifting; with our centrifugal sifter machine.

Note : Due to Process of Continuous product improvement, design & specification may be modified or upgraded without notice.

TECHNICAL SPECIFICATIONS :-

Model	L x W (mm)	Specification of hoist	Power of dust collection fan (KW)	L (mm)	W (mm)	H (mm)
PC800	800X800	1T	1.1	2000	1530	3650
PC1000	1000X1000	2T	1.1	2270	1530	4200
PC1400	1400X1400	2T	1.1	2500	1930	4500

WEIGHING & BATCHING SYSTEM



Product Details :

- Automated, semi-automatic, and manual batching controllers as well as custom-tailored material transfer control strategies to meet specific needs.
- Fast, accurate, and always reliable, our controllers can be combined with high performance scale bases, weigh modules, or measuring cells to provide the complete solution for any batching application.
- The design and performance of this batching solution is based on the sector-specific requirements.

The pneuCONVEYOR- Batch-Weigh consists of a receiving hopper designed to suit the application, a hopper slide gate to contain the batch quantity, load cells, and the heart of the system, the control panel. The controls incorporate the latest electronic technology in AC Inverter drives and Programmable Logic Controllers (PLC's). Addressing the system is simply a push of a button on the front panel mounted keypad, with assistance through a menu-oriented LCD display. Weighing accuracies of greater than 99% of full scale are typical with the Batch-Weigh. Components are selected to suit any operating environment, including explosion hazard areas.

In a formulation of a typical batch, many processes are required but the fundamental one is that of creating a mechanism to bought together precise quantities of different kinds of ingredients to make up a specific batch or formula. Which further involves metering materials individually into a weigh hopper, using a metering device such as a screw feeder, air lock or butterfly valve etc.

In addition of this, through years of experience pneuCONVEYOR – has developed an unique kind of scale control package which has been designed specifically for bulk materials. Since different kinds of ingredients have varying speed, it can be fast or slow so to formulate a specific kind of batch with accuracy; we have developed automatic target weigh set, with auto log feature.

The electronic batching controls which we are manufacturing currently have been custom designed for ease of operation and to provide a much needed flexibility of utilization. So, in nut shell, we are providing multitude of options to our clients, as far as batching systems are concerned. And if you are searching for a genuine supplier of top quality batching systems which predominantly include weigh batching systems which falls in the purview of a fully fledged batching system then only we manufacture / supply this on such a large scale and provide this to our customers at very competitive rates.

BIN ACTIVATOR / DISCHARGER

Bin Activators have been proven worldwide to give a continuous, but controlled flow of difficult-to-handle materials from bulk storage silos, through the controlled use of vibration.

pneuCONVEYOR – solves the difficulty by cutting off the lower cone section of the bin and replacing it with a Bin Activator consisting of a relatively flat dished head and baffle.

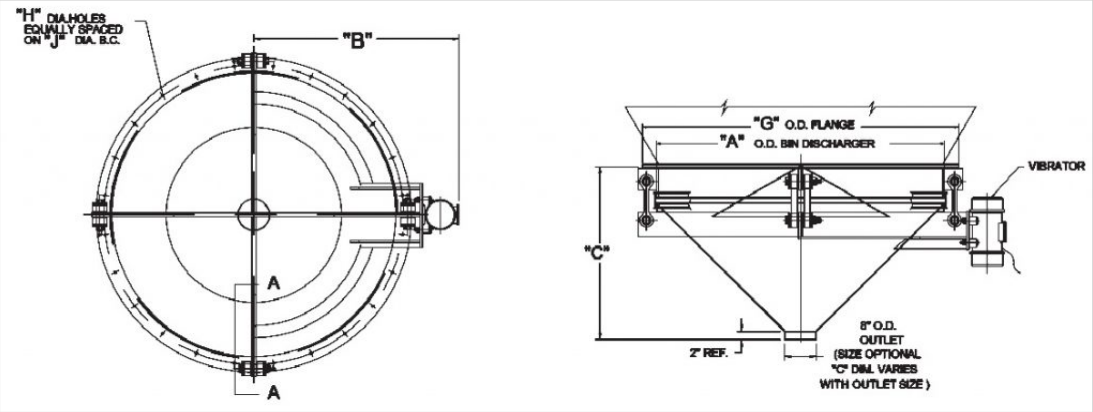
These flat support surfaces carry the overhead load without permitting the additional compression that occurs in a conical bottom.

The Bin Activator is flexibly hung from the upper bin by rubber-bushed forged steel hangers. An elastic sleeve of reinforced rubber seals the small gap between the main bin and movable bottom. An integral baffle relieves head load over the outlet.

pneuCONVEYOR – Bin Dischargers are ruggedly built, simple to install and come with pneuCONVEYOR's – unconditional performance guarantee. Our Bin Discharger's simple, compact design incorporates all of the important features customers have come to expect from pneuCONVEYOR. It has been established that under vibration the shear strength of the product in a storage vessel decreases. The action of the Bin Activator is to break down the shear strength and thus induce flow. When the Activator is switched off the material shear strength is restored and product once again ceases to flow.

By careful design, the Bin Activator eliminates rat holing, degradation and segregation of products within the silo, ensuring an even flow of material on a mass-flow basis (the first-in, first out principle).

Bin Activators are ideally suited to a cylindrical vessel, but can be successfully applied to square or rectangular bins. Their low profile allows for a substantial reduction in the silo height and its associated building costs.



Technical specifications : (Dimensions)

SIZE	A	B	C	F	G	H	J	HP	KW	WT
2 FT	610 MM	720 MM	495 MM	76 MM	760 MM	17 MM	710 MM	0.75	0.55	153 KG
3 FT	915 MM	875 MM	620 MM	76 MM	1065 MM	17 MM	990 MM	0.75	0.55	190 KG
4 FT	1220 MM	1050 MM	775 MM	76 MM	1375 MM	17 MM	1295 MM	1.5	1.1	230 KG
5 FT	1525 MM	1200 MM	925 MM	90 MM	1700 MM	19 MM	1600 MM	1.5	1.1	380 KG
6 FT	1830 MM	1410 MM	1100 MM	90 MM	2000 MM	19 MM	1900 MM	2	4	540 KG

OTHER APPLICATIONS

CHAIN DRAG CONVEYOR

TUBULAR DRAG CHAIN CONVEYOR

PneuCONVEYOR – Tubular Chain Design acts as a universal joint during product transportation in the pipe which enables a single conveyor to achieve directional changes in multiple planes, including 90 degree turn.

pneuCONVEYOR – Tubular Chain Conveyor system includes many accessories such as Brush Assembly or Chain Knockers for cleaning of the chain, Drop Bottom or Slide Gate Valves for immediate discharge of the product, or a Turn Station which replaces 90°elbows to reduce wear and tear on the discs & chain. The Tubular Chain Conveyor is the best solution for material handling applications.

Available in 4”, 6”, 8”, 10” & 12” diameter. Available in Carbon Steel Construction, Stainless Steel Construction, and Clean-In-Place Systems for

Widely used in pharmaceuticals, Chemicals, Food, Snacks, Minerals, Dyestuff, Pesticides, Fertilizers, Plastics, Pint and other industries, the tubular drag chain conveyor can be equipped to handle highly abrasive or hot materials also, meet sanitary requirements for transferring foods and pharmaceuticals, and safely convey potentially explosive materials — all at a much lower operating cost than that of a comparable pneumatic conveyor.

Descriptions:- The tubular drag chain conveyor (also called a tubular drag link-chain conveyor) provides gentle, enclosed continuous transfer of bulk solid materials, including fine powders, granules, pellets, and moist sludge's, at any angle, in any plane, and around any obstacle. The chain links in the conveyor's chain-and-disc conveying mechanism function like universal joints, enabling the conveyor to simultaneously move material in multiple directions and planes. The conveyor also has a low-profile, flexible design that allows it to fit into tight spaces around existing plant equipment.

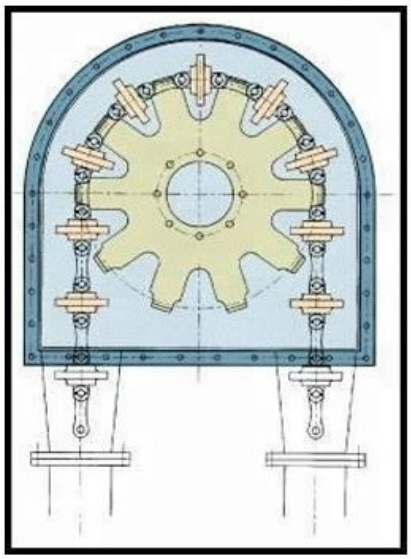
How the conveyor works :- Components : The tubular drag chain conveyor consists of a tubular housing enclosing a continuous chain mounted with solid circular discs (or flights), often called a chain-and- disc assembly, The housing can include straight and curved sections constructed of carbon steel or stainless steel pipe with a typical nominal diameter of 2 to 12 inches. The housing forms conveying and return lines that can be arranged in multiple configurations, including complex loops with several turns, to suit the application layout.

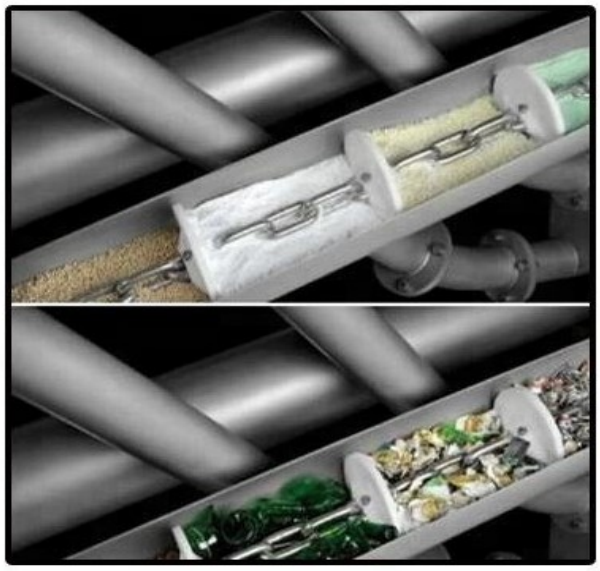
A drive sprocket engages the chain-and-disc assembly at the turn at the conveying line's end. A shaft-mounted motor, often equipped with a variable speed drive, powers the drive sprocket; the drive sprocket and motor form the drive assembly. An idler assembly (sometimes called an idler stationer tension station) is located at the end of the conveyor's return line. The idler assembly consists of a housing enclosing an idler sprocket or other rotating mechanism and, in some cases, a chain-tensioning device.

A conveyor with a complex loop arrangement can have a combination of several 90-degree turn assemblies (also called turn stations) and less-than-90-degree elbows, which allow the chain to turn and bend with minimal friction. Each turn assembly contains a sprocket or other rotating mechanism, which can be a powered or idler mechanism, the elbows don't require a rotating mechanism. Brushes or other devices can be located at the drive assembly and at various points inside the conveyor housing to clean material off the chain-and-disc assembly and prevent carry back in the return line.

The conveyor can have one or multiple material inlets and outlets. When it has one inlet, the inlet is located near the idler assembly; additional inlets can be located along the conveying line. When the conveyor has one outlet, the outlet is located at the drive assembly; additional outlets can be located along the conveying line prior to this point.

where it falls by gravity out of the conveyor. As the drive assembly turns, the chain moves continuously through the housing, around the drive assembly, along the return line, and through the idler assembly and any turn assemblies. The powered or idler turn assemblies assist the chain movement through the bends, which reduces frictional drag and the conveyor's power consumption. The close clearance between the discs and pipe walls prevents material from building up inside the conveyor.

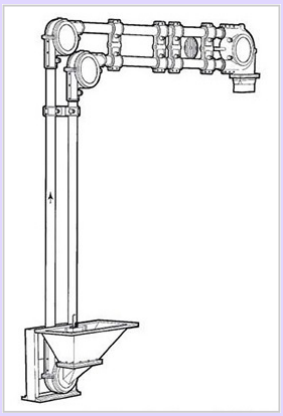
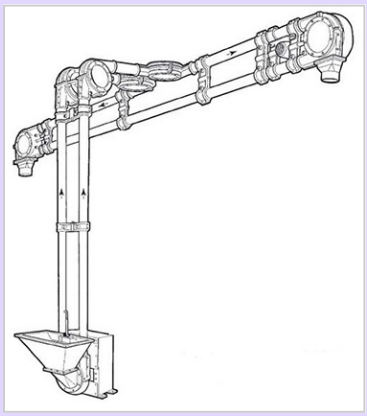
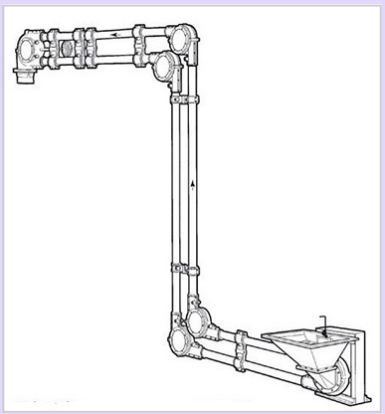
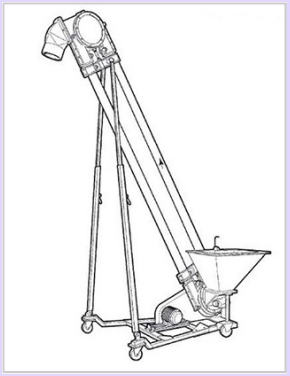
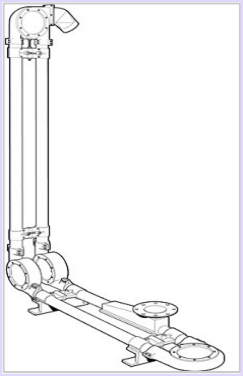
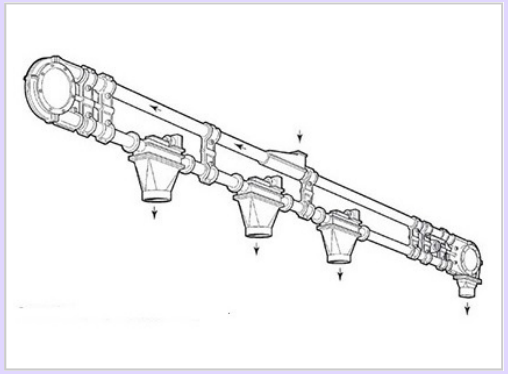




Speed and capacity:- When the conveyor is equipped with a variable-speed drive, the chain speed can typically be adjusted over a range from 5 to 90 fpm. This allows the conveyor to handle a range of materials at various capacities without degradation or segregation. The conveyor can also start under full load after shutdowns. Conveyor capacity typically ranges from 85 to 2,800ft3/h, depending on the material's bulk density and the conveyor's pipe diameter and chain speed.

Configurations:- One tubular drag chain conveyor can typically move material up to 180 feet horizontally and up to 120 feet vertically. Several conveyors can be arranged in series to provide longer horizontal and vertical conveying distances. Multiple conveyors are also commonly used to move materials from different sources, such as storage vessels, bulk bags, and manual bag dump stations, to one destination, Most tubular drag chain conveyors have modular construction with interchangeable components, allowing the conveyor to be expanded or modified to handle changing production requirements.

Power consumption:- The tubular drag chain conveyor consumes relatively little electrical power because it typically uses one low-horse power motor and doesn't require ancillary equipment such as a filter-receiver and rotary valves,

Application details:- The tubular drag chain conveyor's gentle handling makes it ideal for moving friable and other delicate materials without degradation and for transferring blended materials with minimal segregation. When properly equipped, the conveyor can handle highly abrasive or hot materials and safely transfer foods and other sanitary materials. The enclosed conveyor reliably contains dusty and hazardous materials. The enclosed design also enables the conveyor to resist internal pressure build up caused by explosions and to contain propagating flame, making the conveyor suitable for handling potentially explosive materials.

The tubular drag chain conveyor isn't suitable for handling a material containing rocks larger than 1.5 inches in a vertical conveying arrangement or in a configuration with multiple turns.

- More about the components Chain- The chain can be constructed of carbon steel or stainless steel. Several chain designs are available to suit various material characteristics and operating requirements. Individual links in the chain function like universal joints, allowing the chain-and-disc assembly and the material it conveys to bend and move through multiple directions and planes.

- Discs- The discs are mounted at regular intervals along the chain by various methods and can be made of ultrahigh molecular-weight polyethylene (UHMW-PE), polyurethane, cast iron, or other materials to suit the application. The disc design can also be adapted to the application. For instance, some discs have a cost-saving split design with two semicircular halves, allowing maintenance workers to replace only the bottom (material contact) half when the discs are worn. UHMW-PE discs for food-grade applications can be moulded to stainless steel chain to form an integral part of the chain. Other discs are available in oversize diameters or with squeegee-type edges to promote full cleanout of sticky materials from the conveyor.

- Chain-tensioning mechanism- The conveyor is equipped with some type of chain- tensioning mechanism to take up slack in the chain and adjust for tension changes caused by friction, flow rate changes, variations in air and material temperatures, chain and disc wear, and other factors. Keeping the proper chain tension minimizes wear to the conveyor's chain, discs, and housing, reducing production downtime and maintenance costs. Depending on the conveyor manufacturer, the chain-tensioning mechanism can be a manually adjusted take up located near the drive or idler assembly, or it can be an automatic device incorporated into the idler assembly, which then serves as both an idler and an automatic, continuous chain tensioned. Some take ups and the automatic tensioning device also keep the chain in the return line under slight compression (that is, slightly loose) to facilitate cleaning material off the chain and to eliminate frictional drag on the chain's return line, which reduces wear on the chain and discs.

Available options :- The tubular drag chain conveyor can be operated under pressure or vacuum. To handle a potentially explosive material, the conveyor can be purged with inert gas, such as nitrogen, and it requires less inert gas for this purpose than a pneumatic conveyor of comparable size.

The conveying pipe can have an abrasion-resistant lining, such as basalt, to handle highly abrasive materials. The pipe can also be fitted with jacketting that circulates a heat exchanging fluid to cool hot materials during conveying.

The conveyor can be designed for frequent wash down in clean-in-place applications, such as transferring foods and pharmaceuticals, with components such as quick-disconnect joints, FDA-approved Teflon / UHMW-PE discs moulded directly to a stainless steel chain, and stainless steel sprockets or other rotating mechanisms. Various clean-in-place components and drying-air supply systems to minimize cleaning downtime and labour.

Technical Specifications :

Model	Conveying capacity (m^3/h)	Sprocket speed (r/m)	Chains speed (m/s)	Power of motor hp(kw)
PC80	4	20	0.29	5(3.7)
PC100	8	18	0.31	7.5(5.5)
PC150	16	15	0.31	10(7.5)
PC200	28	12	0.3	15(11)
PC250	48	10	0.3	20(15)
PC300	60	8	0.28	25(18.5)

SCREW CONVEYOR

Description: Screw Conveyor is a general type conveyor. It's mainly used for conveying granule, powder and compound material. Two models as your choice: – Horizontal Screw Conveyor and Inclined Screw Conveyor. According to customer's different requirements and industry, we can do special design for your company.

This machine is mainly used in conveying powder, particles of ascension, suitable for pharmaceutical, chemical, food and other industries, or with tablet compression machine hopper charging, sachet filling machine hopper charging, fully automatic, semi-automatic of injected powder packaging machine, form linkage, reduce the intensity of production operation and ensure accuracy of packaging, as a corollary equipment of choice. Compared with other transportation equipment, screw conveyor with the machine section size small, reliable sealing performance is good, smooth operation, screw and feeding tube adopts new structure of subsection and demountable facilitate transport clean and safe operation, convenient maintenance, etc.

Working Principle:

pneuCONVEYOR – series screw-driver feeder adopts one screw for feeding. Once the Power switch is opened, the screw begins to rotate and feed, so that material can be lifted up to the material outlet. The machine will stop working automatically when the level-sensing the device indicates that material is full, and starts working again after several minutes later when the material level decreases. (The delay time is depended on your choice)

The screw conveyor has many advantages over other types of bulk material handling equipment. Some of the advantages are:

- Screw conveyors are capable of handling a great variety of bulk materials from sluggish to free-flowing.
- Screw conveyors can have multiple inlet and discharge points. Bulk materials can be conveyed and distributed to various locations as required. Slide gates or valves can be added to control the flow into and out of a screw conveyor.
- When a screw conveyor is used as a metering device, it is considered a screw feeder. Screw feeders are used to initiate a material process by metering product from a bin or hopper.
- Screw conveyors are very compact and adaptable to congested locations. Screw conveyors do not have a return similar to a belt or drag conveyor.
- Screw conveyors are totally enclosed to contain the product and prevent spillage. Screw conveyors can be utilized in the horizontal, vertical or any inclined position depending upon the characteristics of the product being conveyed.

- Screw conveyors can be used for mixing various products together and for breaking up large lumps.
- Screw conveyors can be designed without a center pipe. This type of conveyor is called a shaft less screw conveyor & is designed for conveying wet, sticky, sluggish products such as industrial sledges and bio solids.
- Screw conveyors can be used to cool, heat or dry products in transit. Depending on the heat transfer requirements, a screw conveyor can be jacketed, or a hollow-flight design utilized to provide the necessary heat transfer for the application.
- Screw conveyors can be designed to be vapor-tight or hold an internal pressure. This is very important when conveying toxic or hazardous products such as those in the chemical industry.
- Screw conveyors can provide an air lock between upstream and down stream equipment.
- This product is widely used in Pharmaceuticals, Chemical, Bulk Drug, Food, Milk powder feed, Plastic, Paint, Pesticides, Cement and building materials.

Technical Specifications :-

Model	SC100	SC120	SC140	SC160	SC200	SC250	SC300	SC400
Diameter of screw (mm)	90	115	135	163	185	237	285	362
Rotary speed of main axis (r/ min)	300	300	300	308	260	200	170	170
Diameter of main case (mm)	108	133	159	194	219	273	325	402
Max capac-ity (t/h)	7	10	15	25	40	60	90	120
Max Length of convey-ing length L (m)	8	10	12	15	18	25	25	25
Working angle (degree)	0°~60°	0°~60°	0°~60°	0°~60°	0°~60°	0°~60°	0°~60°	0°~60°
M O t O r	SC100	SC120	SC140	SC160	SC200	SC250	SC300	SC400
	≤ 5 M 1.1kw	2.2kw	3kw	5.5kw	7.5kw	11kw	18.5kw	18.5kw

Note :- All technical parameter above is just for your reference, screw conveyor in our company can be customized by your special requirement, e.g. wear resistant, corrosion resisting, heat retaining.

FLEXIBLE SCREW CONVEYOR

For Powders/ Granules/ Blends/ Crystals / Flakes and a wide range of other Materials.

Comply with USFDA, UKMCA & cGMP norms & manufactured under International Code like ASME Section VIII/Div-I

GENERAL DESCRIPTION: pneuCONVEYOR Flexible Screw Conveyor is designed to handle bulk dry powders & granular materials, also able to deliver bulk product at desired rate & elevation. Typical application for the 'pneuCONVEYOR' Flexible Screw Conveyor is to have the main drive motor hanging from the ceiling, locating the discharge point at a specific location & elevation. 'pneuCONVEYOR' Flexible Screw Conveyor can be set up to operate intermittently, running only when it receives a signal from the low level sensor controller in the receiving hopper. Once a signal is received it pulls the bulk product from the lower hopper at a designed rate of speed.

'pneuCONVEYOR' Flexible Screw Conveyor is design for easy removal of the screw. Remove the access doors from the discharge head & the main hopper. Remove two bolts from drive shaft & the screw will easily slide out the back of the main hopper & is also design so that different size screws can easily be changed out. By removing a few bolts, the flexible tube couplings can be changed out to different sizes. Capacity :- 50Kgs. to 3000Kgs. per batch.

ADVANTAGES :

* Low Cost	* Low Maintenance	* Only one Moving Part
* Easily Installed	* Easily Cleaned	* No Air & No Vacuum
* No Internal Bearings	* Rugged Construction	* Quick Disassembly
* Dust-Tight	* Flexible	* Quiet

CONSTRUCTION FEATURES

- It is available in carbon steel with durable industrial coatings or in stainless steel with industrial or sanitary finish
- F.D.A. / U.S.D.A. Approved abrasion resistant U.H.M.W. Polyethylene outer tubes
- Heat Treated Spirals (Round/ Flat/ Knife) Heavy Duty Construction.

FSC– MATERIAL HOLDING HOPPER

- Material of Construction: SS316/ SS304/ Mild Steel
- Size : Suitable for Loading, As per Standard.
- Fixed Type OR Mobile Type (Movable).
- Optional: Vibrator (Pneumatically OR Electrically) / Agitator / High

CONTROL PANEL & ELECTRICALS

- MOC: SS316/ SS304/ Mild Steel.
- Mounting: Fitting on the Machine OR Wall fitting.
- Optional: Flameproof Construction.
- Flameproof Main Drive Electrical Motor.

Mobile Conveyors

Conveying from Hopper to Process

Flexible Screw Conveyor Spirals & Tubes

All our spirals for flexible screw conveyors are manufactured in a range of mild steel and stainless steel. These are all heated treated to provide greater strength and longevity. Heavy-duty spirals are also available for certain high density or aggressive materials.

Electro-polished spirals are also available for pharma application processes.

We have various profiles of spirals in stock to suit your application. Profiles available are round, flat and bevelled.

Loading Silos

Feeding Filling Machinery

DENSE PHASE CONVEYING SYSTEM

pneuCONVEYOR – Dense phase conveying System : Dense phase conveying is a highly reliable pneumatic conveying system with a low velocity and a high product/air ratio, suitable to convey powders and granule. With Dense Phase Conveyors the product is introduced into the conveying line through a pressure vessel and is suitable to convey products from a single point to one or more receiving points.

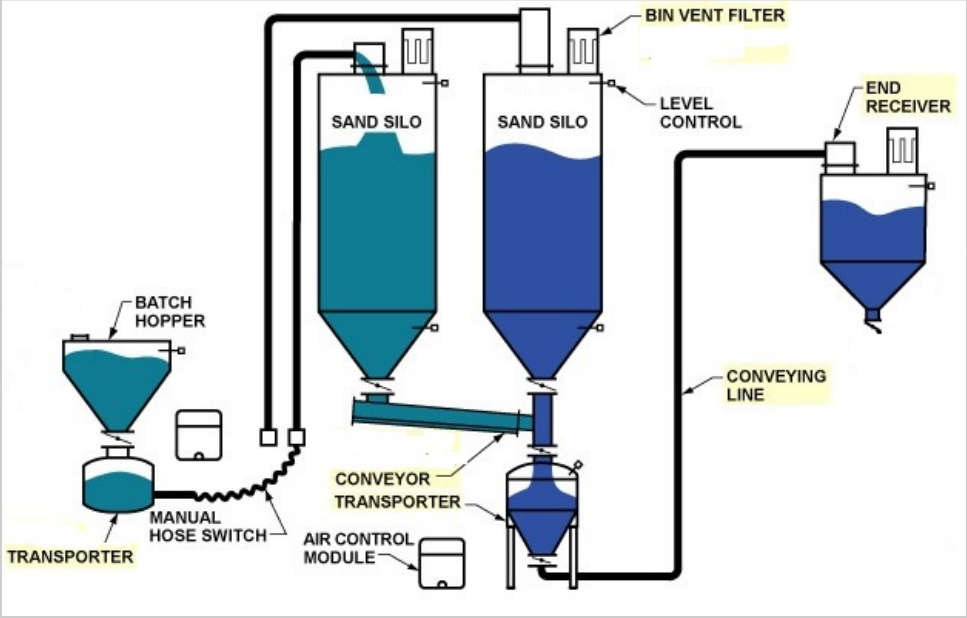
The system has following features :

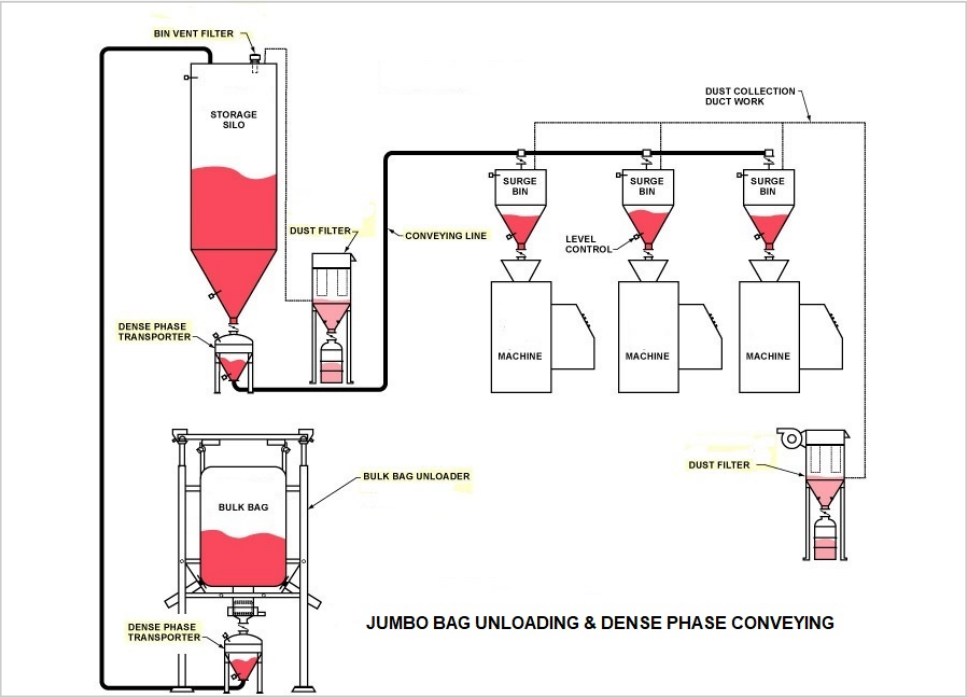
- The material inlet valve provided with the system has a special inflatable rubber seal which is inflated with the help of air pressure on closure of the inlet valve, thus eliminating any chance of air leakage from the transporter top ensuring a 100% sealing at the vessel inlet.
- In our standard equipments & design range bends provided are of converging – diverging type i.e. wherein bend area decreases (thus thickness increases) at the segment outlet, which keeps the material floating and unsettled, thus eliminating the chances of choking in the bend section.
- The transporter is fitted with fluidizing nozzles, which produce a swirling air phenomenon, thus helping in prevention of bridging problem from fine power & adhering problem by hygroscopic elements.

Operating principle : Dense phase pneumatic conveying pump also named conveying warehouse pump.

Sending system operating modes: materials in the storehouse are into storehouse pump under gravity, during this time, the discharge valve and the intake valve is closed while Pneumatic sealing valve, close calve and exhaust valve open, so ensure the material into the storehouse pump smoothly. Level indicator send electrical signals to PLC controller when the materials reach a certain position in pump, then PLC controller convert electrical signals into valve signal, at the same time, exhaust valve closed, sealing valve, closed valve, vent valve open, after the pressure in storehouse reach a certain extent, signal is sent to PLC controller by pressure transmitter, with that send to discharge valve after PLC convert it into electrical signals. Open the discharge valve, materials into pipe with low flow, high density by air flow. Period finished, pressure in storehouse pump and pipe drop to zero.

Our different modular families of Vacuum Conveyors for the Pharma, Chemical and Food-Industry allow customized modifications of all conveyors regarding the individual application. Even critical materials can be conveyed safely and adapted conveyors can be used for hazardous applications like inside explosion areas or with highly toxic materials. Most of our conveyors are used in applications with conveying capacities from 100kg/h upto 3t/h, where the conveying distance is up to 15m far and 10m high. Realized systems have up to 12 t/h capacity and work with conveying distances up to 80m far and 35m height.





Product Descriptions :

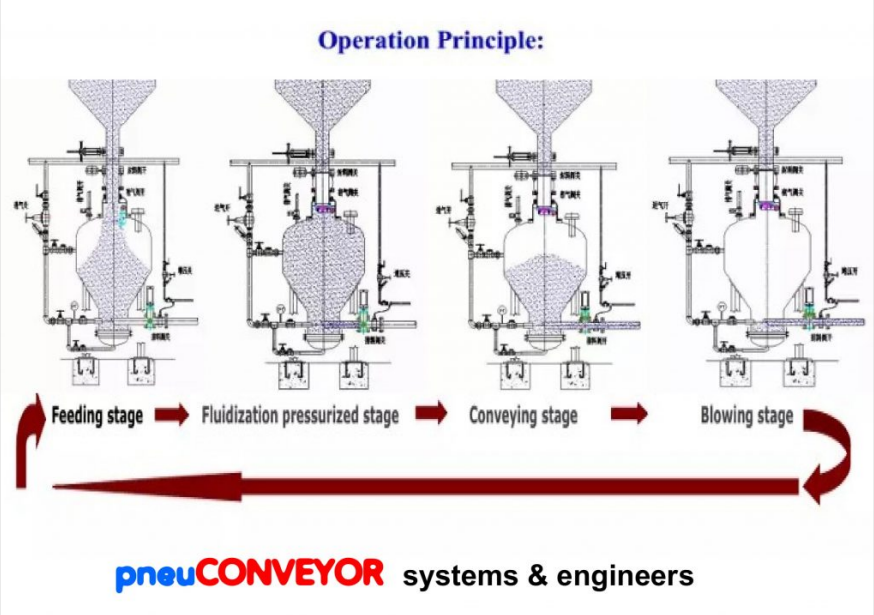
- transport volume: 0.5m3 / 1m3 / 2m3.
- Sealed pneumatic ash conveying system for dust collector, Save power, air drive.
- Dense Phase Pneumatic Conveying System/ Pneumatic Conveying System.
- Selection and Application of Storehouse (cone).

Structure : storehouse pump mainly consist of the pump top storehouse, pump body, feeding valve, unloader device, intake pipe road, automatic control system, the exhaust valve etc. Storehouse pump divided into the single storehouse pump and double storehouse pump, The former is intermittent transmission, another consist of two sets of pump body which can work by turns, in order to achieve continuous delivery of materials.

Characteristics:

- Storehouse pump style pump with a long transmission distance, flexible piping, saving equipment investment, etc., can be horizontal transport and vertical transmission, transmission distance can reach 200M – 500M.
- Storehouse pump has a good capacity of conveying, the output of desktop can be up to 50 cubic meters with low energy consumption and

- With high degree of automation control system which can automatically feeding ,conveying, measure, counting, display, alarm, easy to operate, piping flexibility, small footprint.
- Gas control system. The gas resource of warehouse pump is the recycling waste gas from steel plant.
- Good sealing. Material run in a closed pipe, no dust, environment protect. Reliable operation, less wearing parts, easy to maintenance, long life span of 3~5 years.
- Specification: 0.5m3 1m3 2m3



DILUTE PHASE POWDER CONVEYING SYSTEM

pneuCONVEYOR – Dilute Phase (Lean Phase) Pneumatic Conveying systems

Dilute phase pneumatic conveying systems operate on the principle that the solids will be suspended in the conveying line air stream. This is achieved by feeding material in controlled quantity into a air stream. Generally velocities are greater than 20mtr per second and material to air ratios are up to .10 to 1. Material conveyed will be separated from air stream through Cyclone & Bag filter.

Commonly Conveyed products : Products commonly conveyed in Dilute phase systems include Pharmaceutical Powder, speciality chemicals powders, flours, resins and compounds, ground feeds, and granular and pelletized products. In many cases, the product needs to be evaluated based on process needs to final system selection to ensure the desired results can be achieved.

pneuONVEYOR – System Design : Pressure, vacuum, combination vacuum/ pressure and vacuum sequencing are the common types of Dilute phase systems. The Carrying gas is typically generated by a positive displacement blower with pressure capability ranging from 0.1 to 0.8 Kg/ Sq CM. Pressure systems generally use a rotary airlock as a feed device. A vacuum system simply needs a product flow control device such as a probe box or screw feeder, although rotary airlocks are commonly used.

Our different modular families of Vacuum Conveyors for the Pharma, Chemical and Food-Industry allow customized modifications of all conveyors regarding the individual application. Even critical materials can be conveyed safely and adapted conveyors can be used for hazardous applications like inside explosion

Most of our conveyors are used in applications with conveying capacities from 100 kg/h up to 3 t/h, where the conveying distance is up to 15 m far and 10 m high. Realized systems have up to 12 t/h capacity and work with conveying distances up to 80 m far and 35 m height.

Salient Features :

- Easy material aspiration and dust-free loading of machines
- Gentle conveying, no separation of material mixtures
- Optimum hygiene conditions
- Reliable filter systems in GMP quality
- Simple to install and to operate
- Low energy consumption
- Favorable investment- and operating costs

Vacuum conveyor (S Models)

Technical Specifications :

MODELS	MOTOR POWER KW	CONVEYING CAP. LTRS/HR
pC-S0	0.75	100
pC-S00	1.1	200
pC-S1	1.5	350
pC-S2	2.2	500
pC-S3	3	1000
pC-S4	4	1500-2500
pC-S5	5.5	2000-3000
pC-S6	7.5	3500-5000
pC-S7	11	5000-7000
pC-S8	15	6000-8000

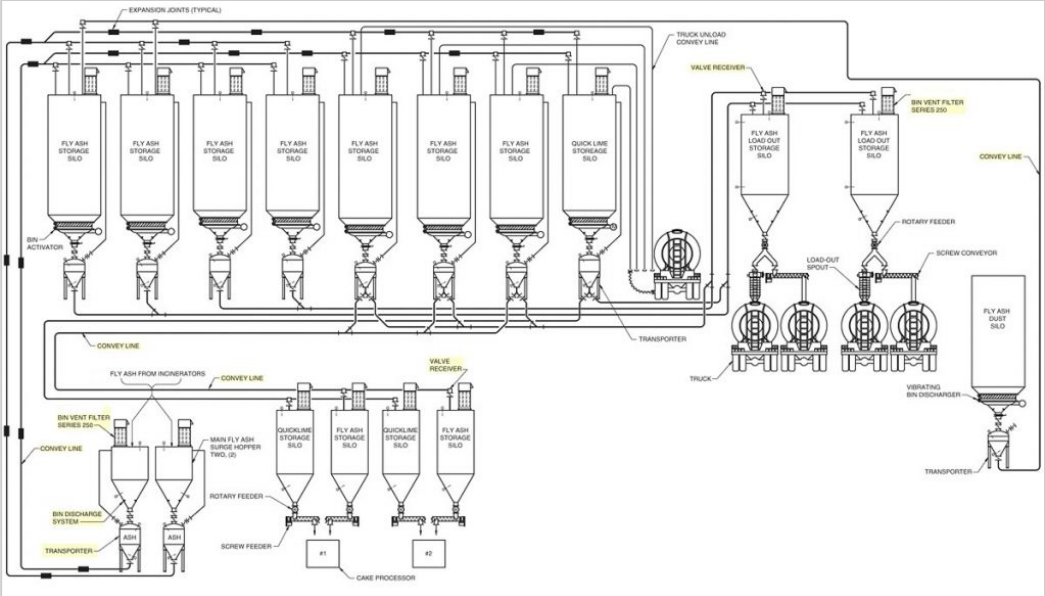
Vacuum conveyor (V Models)

Technical Specifications :

MODEL	CONVEYING CAPACITY KG/HR	AIR CONSUMPTION LTRS/HR	AIR PRESSURE MPa	DIMENSIONS
pC-V1	350	180	0.4 – 0.6	DIA.140 X 560
pC-V2	700	360	0.4 – 0.6	DIA.213 X 720
pC-V3	1500	720	0.4 – 0.6	DIA.290 X 800
pC-V4	3000	1440	0.4 – 0.6	DIA.420 X 850
pC-V5	6000	2880	0.4 – 0.6	DIA.420 X 1000
pC-V6	9000	4320	0.4 – 0.6	DIA.420 X 1250


pneuCONVEYOR systems & engineers

FLY ASH HANDLING SYSTEM



Fly Ash Handling System – Wherever products are burned it is necessary to have an energy efficient ash handling system, especially in a power station environment where large quantities of pulverized fuel ash (PFA) are created. Such ash can be a considerable environmental nuisance as well as being awkward to handle due to its abrasiveness and hygroscopic characteristics. With the growing environmental awareness that hydraulic ash removal systems are costly in the use of water and land, emphasis has been placed on finding an environmentally safe system.

The unique and comprehensive range of products and technologies from Pneuconveyor systems & engineers for the Power industry include several innovative methods to handle Ash products to increase the operating efficiency of the power generation process.

Utilising arrange of technologies from Mechanical Chain and Belt conveyors to Pneumatic conveying with Dense Phase technology.

Pneuconveyor systems has a proven solution available regardless of plant size.

For installations with a relatively low volume of fly ash or short transit distances Mechanical Conveying is an ideal solution.

Where the through put of fly ash are longer or long transit distances Dense phase Pneumatic Conveying is more suitable.

FLY ASH HANDLING SYSTEM (Dense Phase Methodology) :

The main benefits of the Dense Phase pneumatic conveying systems are Dense Phase Methodology :- Dense phase pneumatic conveying systems operate with higher material : air ratios typically >10:1 giving greater conveying efficiency, capable of handling a wide range of ash, from Coarse to fine.

Slide Gate Valve :-
Every system incorporates the original Dome Valve at the critical point of any pneumatic handling system; the material to air interface, which can operate up to 1,00,000 cycles between scheduled maintenance

Environmentally Friendly :-
Totally enclosed conveying system and pipe work greatly reduces the impact on the environment.

Low Conveying Velocity :-
Low conveying velocity typically less than 10 m/sec which minimises the wear on critical components such as conveying pipe and bends.

Standard steel conveying pipe :-
Readily available standard steel pipes are used for the conveying pipelines with no special manufacturer requirements.

Low pressure compressed air requirements :-
Uses medium to low pressure conveying air, typically around 2–4 bar(g) generated from standard compressed air plant or blowers provide energy efficient use of absorbed power.

FLY ASH HANDLING SYSTEM (Dense Phase Methodology) :

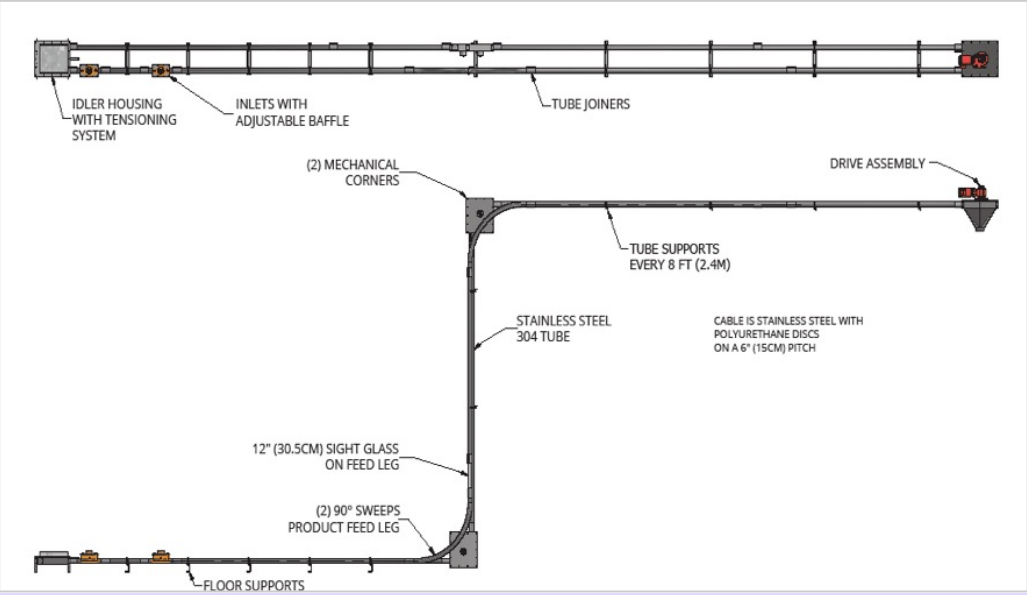
The Dense Phase Conveying System is the most reliable; efficient to minimize particularly the problems for handling the wide and adequate range of dry bulk solids up to 100TPH Capacity at the exceeding terminal distances – 1100 meters. This system includes weighing, batching, blending, lump breaking, storage, master control equipments etc. through Dense Phase Conveying System for bulk material handling in the plant.

pneuCONVEYOR, specializes in Dense Phase pneumatic system for collecting and conveying of dry coarse/fine fly ash collected at Economizer/ Air pre heater / Duct / Electrostatic precipitator hoppers. Dense Phase pneumatic system is generally adopted on account of many of its advantages like positive pressure system, low material conveying velocity, lesser erosion rates, conveying of fine & coarse ash separately as collected (thus increasing utility of fly ash) capability to convey longer distances in a single stretch etc.

The system consists of installation of Ash Conveying Vessels directly below the fly ash hoppers. The conveying vessels are equipped with our unique Slide gate valve at inlet. Expansion Joint and isolation valve are provided above slide gate valve. Numbers of conveying vessels are connected to conveying pipe. To reduce number of conveying pipes from ash hoppers, it is possible to join them together. There are different ways to join the conveying lines, either as directed by the client / consultant or in view of optimized design. At fly ash Silo(s), suitable vent filters are provided to vent out clean air. Level sensors are provided in silos and ash hoppers. Fly ash silos are equipped with “dry” and “wet” unloading system for disposal of fly ash in trucks. The system operates on a batch mode for the first stage conveying system and on a continuous mode for second stage transportation system. Compressed air from compressors is used as medium of conveying. Instrument air from a separate source is required for slide gate valve operation and for instrumentation purpose.

FLY ASH HANDLING SYSTEM (Mechanical Conveying Systems)

Mechanical Conveying Systems - Drag Chain Conveyor



For the Mechanical Conveying of Fly Ash, Pneuconveyor systems has considerable expertise and experience in such sector with the – Tubular chain drag conveying system.

This system offers a robust and simple solution that does not require a high level of operator or maintenance skill. The Pneuconveyor – principle of conveying is now firmly established worldwide for the mechanical handling of pulverized fly ash (PFA).

The Benefits of the – Tubular Drag Conveyor System

Cost Effective :-

- Capital Costs prove very competitive with pneumatic systems.
- The power running costs are significantly lower than most other forms of equipment.
- Heavy duty rigid construction in simple modules, high strength chain, choke detectors, overload and under speed switches all ensure easy maintenance.

TotallyEnclosed :-
Machines, transfer points, joints and slides are of dust-tight and weatherproof construction.

PressureTight :-
The totally enclosed construction minimises the ingress of air into a negative pressure system and the escape of gases from a positive pressure system.

FLY ASH HANDLING SYSTEM **(Mechanical Conveying Systems)**

Labor Saving :-
The system is free of complicated electronic controls with the mechanical components making it easily maintainable.

Continuous Discharge :-
The Pneuconveyor systems has the ability to maintain a continuous discharge from the primary hoppers.

Intermittent Discharge :-
The system has the ability to discharge primary hoppers, which have an accumulated load of ash. The machine capacity can be arranged to clear the accumulated ash over a period of time in addition to the normal drop-out loading.

Robust :-
The system is of robust durable construction. The Pneuconveyor – principle of a slow moving chain offers absolute minimum degradation and separation and minimises wear to both casing and chain.

Simple :-
Does not require a high level of operator maintenance skill.

Tolerant :-
The system is by nature robust and therefore more able to cope with foreign bodies welding rods, gasket material etc. or lumps of ash which may find their way into the system.

BAG DUMPING STATION

pneuCONVEYOR - Bag Dumping Station
Easy Process integration for effective material handling & access for clean-up

DESCRIPTION :

pneuCONVEYOR Systems bag dump stations are utilized for manual entry of product into a system. Designed to handle up to 25kg bags with integral hopper allows for consistent entry of product to a drag conveyor, screw conveyor or pneumatic transfer system.

Stainless steel construction is standard with leg supports for rigid installation in multiple applications.

Hinged door gate, 4" dust vent and integral hopper are basic features of the small bag unload station.

Optionals:

- Bag shelf and work platform increase operator safety and ease of use.
- Integrating a self-contained bin vent and exhaust fan provides for a dust free environment during unloading.
- The standard discharge flange is designed for use with a rotary airlock valve and can be modified for additional conveying or discharge device.

Bag dump stations (also known as manual dumping stations) collect dust generated when dumping powder and bulk solids from bags, boxes, drums and others containers and return the material to the hopper. The system reduces material waste and eliminates the need to clean a remote dust collection site, while protecting workers and preventing plant contamination.

All units feature a high velocity vacuum fan that draws airborne dust away from the operator through the cartridge filters that are sized according to the application.

To operate a bag dump station, the hopper lid is opened, the vacuum fan is activated, and material is dumped through the hopper screen. Airborne dust in the vicinity of the hopper opening is drawn in to the dust collector, protecting workers, preventing plant contamination and reduces material waste.

An automatic reverse-pulse filter cleaning system employs timer-activated solenoid valves to release short blasts of compressed plant air inside the cartridge filters, causing dust build-up on the outer filter surface to fall into the hopper. Because the filters are blasted alternately at the timed intervals, operation of the dust collection system is both continuous and efficient. Filters are access easily by removing the interior baffle, and replaced rapidly using quick-disconnect fittings. All manual dumping stations are available mounted on frames with boom and castors for in plant mobility. These systems can reduce material waste and eliminate the need to clean a remote dust collection site, while protecting workers and preventing plant contamination.

BAG SLITTING & EMPTYING STATION

pneuCONVEYOR – Automatic Bag Slitting and emptying station

Product Description : pneuCONVEYOR - BAG SLITTING MACHINE is ideal for food, pharmaceutical, chemical and related applications.

pneuCONVEYOR - Bag slitting machine ends all your dust and discharge problems once and for all. The automatic bag slitter machine is suitable for the continuous and dust-free handling of all types of single or multi layered bags. pneuCONVEYOR's fully automatic bag slitter can cut open and discharge up to 500 bags per hour of powdered materials with soft lumps upto 100mm size from polywoven, HDPE, hessian and paper bags including bags of multiwall construction. Depending on the properties of the product and the condition of bags, capacities up to 25tons per hour can be obtained. The standard execution will handle approximately 10 tons per hour. The product is discharged within a contained dust free environment with automatic empty bag compaction.

Bag Handled of size— 25kg. —	390mm width	x	520mm long	x	250mm height
	360mm width	x	620mm long	x	250mm height
Bag Handled of size — 50 kg. —	800mm width	x	1200mm long	x	400 mm height

Efficient bag handling : The method of operation is simple but very effective. It ensures that the bags are emptied with minimal residue (0.01% – 0.5% for free flowing products). By the appropriate design, "pneuCONVEYOR" can be operated by one man only and offers you an economic solution for your bag emptying problems. "pneuCONVEYOR" machine can be directly placed above a discharge point. If this is impossible or not desired, then "pneuCONVEYOR" can offer you a wide range of pneumatic and mechanical conveying systems to suit your specific needs.

Dust-free and safe working conditions : All access ways to the machine interior are fitted with safety switches. The machine allows simple cleaning in order to handle various products without contamination. A dust filter with extraction fan can be mounted directly on top of the machine or pipe connections.

Method of operation :

Bag centralization – Machine inlet : The bags can be fed to the inlet of the machine by roller or belt conveyor. By either method the bags are presented to a set of grip faced powered rollers situated within the machine inlet. The powered rollers propel the bags forward between adjustable side guides to centralise the bags prior to the main Belt conveyor of the “pneuCONVEYOR” Bag Slitting machine.

Automatic location : A bag passing through the centralising guides is automatically collected by the twin adjustable paddle. The twin paddle guide the bag to move thoroughly on the belt conveyor where it gets cut by 2Nos. Knife cutter.

Bag slitting : The Machine is provided with Multi cut Blade, In multi cut, the bags are impaled onto a high speed cutting knife. To impale the bags against the knife the machine literally “drops” the bag from a height of about 2 to 3 feet onto the blade. The moment the bag is slit, the material spills out. The rotating knife is adjustable for cutting depth. Bags are conveyed across the rotating knife and are slit open lengthwise. A set of adjustable rollers exert pressure on the bags, to ensure that they are fully cut by the knife cutter.

Product discharge : After multi cut of bag, the cut bag is tumbled in an inclined wire mesh drum in which the bag is repeatedly lifted and dropped as it moves forward to the exit. Material falls through the mesh to a collection hopper while the cut bag pieces find their way to a bag compactor & finally get discharge through screw conveyor.

Ancillary Equipment : The unit can be supplied with a wide range of ancillary equipment. Platforms, supports and catwalks are designed to any client specifications.

Dust filter unit : Mechanical- or Reverse Jet dust filter in several executions place don top or next to the machine. An integrated dust filter is placed on top of the machine directly above the cutting and vibration area. The pneuCONVEYOR can be fitted with 3 pipe connections for ducting to an externally placed dust filter. Choice of type of filter is determined by the product handled.

Operator/control panel : Fitted with motor contactors and motor protectors. Control facilities include door mounted LCD display for all alarm and event messages and PLC controller with Start/Stop sequence.

Belt conveyor in various executions : Almost any desired type of belt conveyor can be fitted to the bag slitting unit for automatic bag in feed. Choice of belt conveyor type is subject to local situation, type of bag and desired working height. Belt width varies from 500 till 600mm with a maximum elevation angle of approx. 35°.

Rotating-brush cleaning-unit : To prevent contamination of product when bags are used with dirt or dust on the outside, a rotating-brush cleaning-unit can be placed at the bag inlet of the “pneuCONVEYOR” machine.

Screw conveyor : For mechanical conveying of product after discharge.

Rotating sieve or built-in vibrating screen : For removal of contaminants and lumps from product after discharge.

Crusher / lump breaker : For breaking down lumps and agglomerates from the conveyed productroduct after discharge.

Rotary blowing seal : A blowing seal can be fitted directly under the product hopper to accommodate pneumatic conveying of product after discharge.

Bag compactor : A screw compactor can be fitted at the discharge chute of the machine. Bags are compacted and discharged into plastic bags secured to the outlet of the compactor.

TECHNICAL SPECIFICATIONS:

WEIGHT OF MACHINE —25KG.	1140 KG
WEIGHT OF MACHINE — 50KG.	1540 KG.
BAG WIDTH WITH ADJUSTMENT RANGE – 25KG	390MM W X 520MM L X 250MM HT.
– 25KG	360MM W X 620MM L X 250MM HT.
– 50KG	800MM W X 1200MM L X 400MM HT.
ROTATING KNIFE	HARD CHROME PLATED
	TUNGSTEN CARBIDE COATED (OPTIONALS)
CONVEYING CHAIN SPEED	8 MTR./MIN STANDARD
	5 UP TO 18 MTR./MIN OPTIONAL (DEPENDING ON PRODUCT)
MATERIAL EXECUTION	M S COATED OR STAINLESS STEEL
DRIVE ARRANGEMENT	1.5 / 2 HP BAG TRNSPORT
	1.0 / 1.5 HP ROTATING KNIFE
CHAIN TENSION	AUTOMATIC AND SELF-ADJUSTING
INSPECTION / MAINTENANCE	4 ACCESS DOORS AS STANDARD SUPPLY
	6 ACCESS DOORS / 2 TILTINTG CEILING DOORS—OPTIONALS
SAFETY FEATURES	SAFETY SWITCHES ON ALL ACCESS DOORS

OVERALL DIMENSIONS :

25kg BAG — LENGTH — 4600 MM X WIDTH — 760 MM X HEIGHT— 2750 MM

50kg BAG — LENGTH — 5400 MM X WIDTH — 975 MM X HEIGHT— 2750 MM

pneuCONVEYOR – Multi cut is a versatile automatic slitter and earns its name owing to its ability to cut any type of bag be it paper or polythene. It is ideally suited to Indian conditions where the raw materials in bags are not properly sealed.

SIFTING & MILLING :

ROTARY SIFTER

Product Profile : pneuCONVEYOR – Rotary sifter is designed to handle a wide variety of food, chemical and mineral products. Rotary sifters are primarily used to separate oversize, lumps and /or foreign objects from the main product

The product is uniformly fed into the stationary horizontal cylindrical sieve by means of a short in feed screw. Once the product enters the screening area rotating paddles centrifugally force the fine material against and through the screen. Soft agglomerates are broken up by the paddle action, whilst any over-size particles or foreign object pass out the end of the screen into a waste collection bin or back into the system for re-processing. Adjustable weirs control the flow of oversize and retention time in the sifter.

Typical advantages of Rotary Sifter:

- Ultra high throughput per square foot of cloth area
- Three-bearing shaft support, drilled for air purge
- Fully adjustable 4-paddle rotor
- Removable tool less light-weight rotor assembly
- Dust-free, sanitary operation
- Approved design for use by USDA, FDA.

Benefits:

- Totally enclosed pneuCONVEYOR®–Rotary Sifter eliminates dust problems.
- Self-cleaning
- Smooth and quiet operation
- Tool-less screen change

Technical specifications :

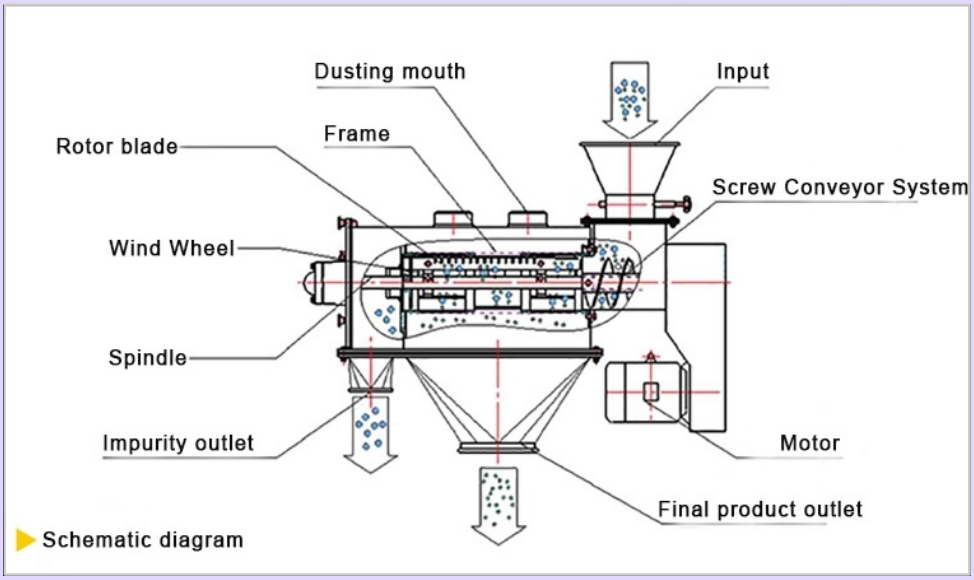
Rotary Sifter is a non-vibrating screening machine. It is available in different capacities. Material is fed via screw feeder impeller rotating between 600 to 2800rpm, between stationary screen baskets having a screen fitted very tightly. The impeller and basket are fitted horizontally in a closed dust proof body. From the top material is fed from bottom the fine and coarse powders are collected. Separation of powder is effected by the air turbulence created by the impeller, which pushes out finer powder through the screen aperture. Oversize is rejected from the front. Excellent for separation of fine, free flow,

Capacity: pharma/food/chemical powders 60 mesh 1000 kgs/hr. 200 mesh 500 kgs/hr;

Power: 1 to 5 HP

Rotary sifters offer high efficiency separation and high throughputs. Easy to clean designs are available with quick release disassembly without tools. A range of screen sizes are available and may also be quickly and easily removed, cleaned and replaced.

pneuCONVEYOR – rotary sifters offer more throughput capacity per screen area than any conventional screening equipment. Our maintenance-friendly design allows large, quick-opening access doors to be easily installed that ensure access to the sieve chamber and all internal working parts. Virtually no tools are required for screen frame assembly changes and changing or replacing these screens takes only minutes.



TECHNICAL SPECIFICATIONS :-

MODEL	MATERIAL	SCREEN CAGE SIZE (MM) (diameter * length)	APPLICATION MATERIAL
RS-18-65	SS304 / SS316	180mm * 650mm	40-500 MESH
RS-30-100	SS304 / SS316	300mm * 1000mm	40-500 MESH
RS-50-130	SS304 / SS316	500mm * 1300mm	40-500 MESH

TURBO MILL

pneuCONVEYOR – Turbo Mill has been developed basically to maintain the batch sanctity for the requirement of uniform sizing of dried granules and to obtain an output with a negligible product loss.

The earlier system used to be : To pass the dried granules through Sifter and then pass the oversized granules through the Multi Mill or to pass the dried granules through the milling machine. Now the same process is done through using single equipments – Turbo Mill. The machines operate under vacuum also.

Salient Features:

- High productivity machine with a capacity of 200 -500 Kgs. output per minute.
- Easy Dismantling, Cleaning and Reassembling in short duration of 10 -15

Salient Features:

• High productivity machine with a capacity of 200 to 500 Kgs. output per minute.

• Easy Dismantling, Cleaning and Reassembling in short duration of 10 to 15 Min.

• The sieve drums are available in 4 to 40 mesh sizes and can be easily changed for different products.

• Machine is portable and compact, mounted on a sturdy SS304 frame.

• Feed and Product discharge is continuous and has Dust free transfer system, both For charging and discharging of product.

• Complete Vibration free and Soundless design.

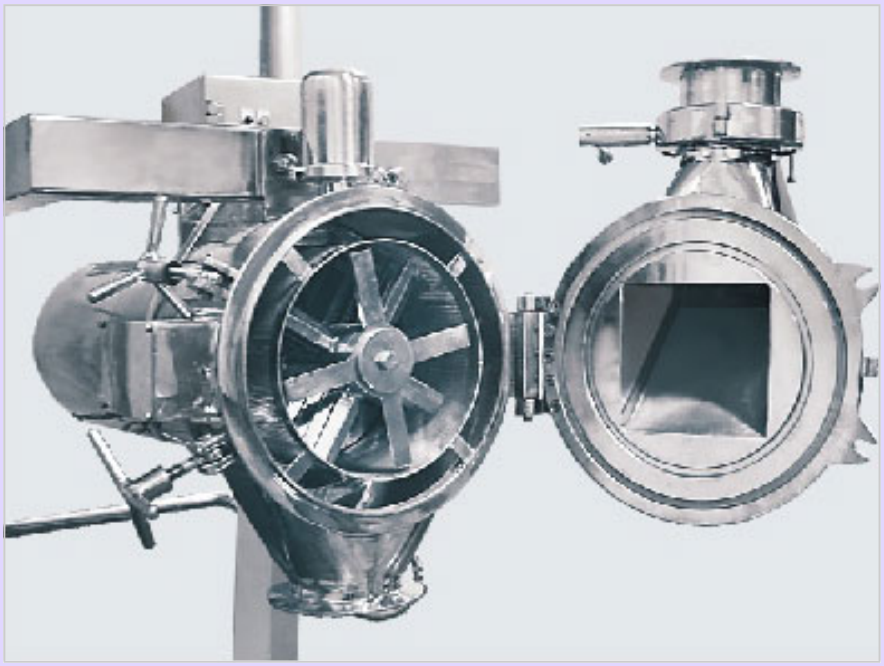
Technical specifications:
Turbo Mill is a non-vibrating screening machine. It is available in different capacities. Material is fed via. screw feeder impeller rotating at 144 to 288rpm, between a stationary screen basket having a screen fitted very tightly. The impeller and basket are fitted horizontally in a closed dust proof body. From the top material is fed from bottom the fine and coarse powders are collected. Separation of powder is effected by the air turbulence created by the impeller, which pushes out finer powder through the screen aperture. Oversize is then pushes to milling process connected with machine, whereby its cut to the size of the mesh fitted & finally connected to the discharge of final powder. Excellent for separation of fine, free flow, nonabrasive powders from 60 to 300 mesh.

Turbo Mill offer high efficiency separation and high throughputs. Easy to clean designs are available with quick release disassembly without tools. A range of screen sizes are available and may also be quickly and easily removed, cleaned and replaced.

Our exclusive pneuCONVEYOR – Turbo Mill design is totally enclosed and operates quietly and efficiently with no dust issues, motion or vibrations. We are also proud to offer a brand name pneuCONVEYOR – Turbo Mill, which was specifically designed for heavy duty pre-scalping by trapping and protecting the sieve cloth from tramp metal, stones and other unwanted particles. These Turbo Mill are ideal for sizing, sifting, scalping, classifying, and breaking of agglomerates.

Capacity: pharma / food / chemical powders 60 mesh 1000 kgs/hr. 200 mesh 500 kgs/hr; Power: 3 to 7.5 HP

peuCONVEYOR – Turbo Mill offer more throughput capacity per screen area than any conventional screening and milling equipment. Our maintenance friendly design allows large, quick-opening access doors to be easily installed that ensure access to the sieve chamber and all internal working parts. Virtually no tools are required for screen frame assembly changes and changing or replacing these screens takes only minutes.



TECHNICAL SPECIFICATIONS :

MODEL	MATERIAL	SCREEN CAGE SIZE (MM) (diameter * length Sifting/Milling)	APPLICATION MATERIAL
TM-300	SS304 / SS316	250mm * 650mm/250mm	40-200 MESH
TM-30-500	SS304 /SS316	350mm * 800mm/250mm	40-200 MESH
TM-50-1000	SS304 / SS316	500mm * 1300mm/350mm	40-200 MESH

INLINE VIBRATORY SIFTER

(INLINE VACUUMISED SIFTING MC.)

pneuCONVEYOR Inline Sifting Mc. is the new innovation to the industry with a combination of our experience and industry demand, for multiple selection in a single source.

The food & pharmaceutical industry demand extremely high degree of hygiene and safety during the process. That only can be achieved through basic equipment With high degree of versatility, quick response and Users friendly in a compliance of cGMP standard.

Sifting is a beginning of Formulation process, Better shifting is a positive sign for future process that can be achieved through “pneuCONVEYOR - Sift”.

“pneuCONVEYOR Sift” is specially designed with Vibro motor Principle in a vacuum rated construction. Enclosed And inline shifting is only possible through “pneuCONVEYOR- Sift”.

APPLICATIONS :

Dry Sifting

Wet Sifting

IPC LOADING THROUGH INLINE SIFTING

Typical features of Inline Sifting Machine :-

- cGMP construction. All contact parts SS316 & non contact parts SS304.
- Suitable for manual or inline milling through pneumatic conveying system. Machine is designed for continuous operation.
- Encapsulated design with process visualization
- Trolley mount for ease to move.
- Detachable sieve design. Compact size online & Dust free model.
- All Components can easily be dismantled and cleaned for change of product.
- Detachable Lead free sieve design. Wide range of SS perforated and wire knitted screen available.

TECHNICAL SPECIFICATIONS:-

INLINE SIFTER	MO-TOR	RPM	SCREEN DIA.	NET WT.	CONTROL	OUTPUT IN KGS/HR	DIMENSION L x W x H
12 INCH	0.25	1440	300	80	DOL	30 TO 80	480 X 480 X 915
20 INCH	0.5	1440	550	130	DOL	80 TO 150	800 X 650 X 1200
30 INCH	1	1440	750	160	DOL	150 TO 300	800 X 800 X 1200
36 INCH	1.5	1440	915	185	DOL	300 TO 500	980 X 980 X 1200
48 INCH	2	1440	1220	235	DOL	500 TO 1000	1300 X 1300 X 1250

CO MILL

pneuCONVEYOR Inline Co-Mill is the new innovation to the industry with a combination of our experience and industry demand, for multiple selection in a single source.

The food & pharmaceutical industry demand extremely high degree of hygiene and safety during the process. That only can be achieved through basic equipment With high degree of versatility, quick response and Users friendly in a compliance of cGMP standard.

As compared to the four common principles of size reduction i.e. grinding, compression, impact and shearing, which often do not product controlled size reduction, this machine utilizes the principle of Centrifugal Shearing force.

General Description:

pneuconveyor – Co Mill, a grinding and granulating machine is used in pharmaceutical, food, fine chemical processing industries. This machine reaches the world advanced level and conforms to the GMP specification. It is completely made of stainless steel material.

Application:

Pharmaceuticals:

1. Grinding of raw material.
2. Granulating of wet material
3. Granulating of dry material
4. Unqualified tablets to be recycled can be granulated according to the requirements of granularity

Food: Grinding of dry & wet raw materials & biscuit for recycling

Others: Grinding and granulating of rough raw material Grinding and granulating of lump raw material

Typical features of Co–Mill Machine :-

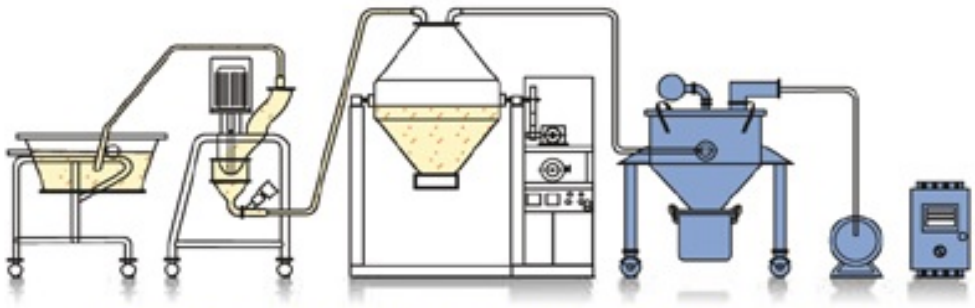
- cGMP construction. All contact parts SS316 & non contact parts SS304.
- Suitable for manual or inline milling through pneumatic conveying system. Machine is designed for continuous operation.
- The Bin charging Loading system can also be incorporated in it which is a dust free closed system for charging and discharging of powders or granules.
- Detachable sieve design. Compact size online & Dust free model.
- All Components can easily be dismantled and cleaned for change of product.
- Vertical milling for higher productivity with minimum Built in Variable Speed Drive.
- Wide range of SS perforated and wire knitted screen available.

Working Principle:

The material to be processed enters into the feed inlet of grinding and granulating machine, droops into the conical sieve chamber. The rotary knife plays a whirling action to the material, and throws the granules to the sieve mesh surface by centrifugal force. The granulates are ground into particles by the shearing action produced by the rotary knife and the sieve mesh, and discharged through the sieve apertures, the size of ground particles can be adjusted by the sieve mesh number, the gap between rotary knife and sieve mesh, and the rotary speed.

Special Features:

- Thoroughly solving the tough problem of material contaminated by the debris of worn sieve mesh in a pendulum-type granulating machine.
- The unique patented shaft sealing technology ensures no leakage of lubrication oil.
- No retention dead corner, no material overheating.
- Less dust, no vibration, low noise.
- High efficiency, energy saving, large production capacity
- Attractive appearance, easy to clean
- The motor is sealed. The cooled air of the motor suck and discharge through the respirator in order to prevent the environmental pollution
- The part which keep in touch with the material, such as hopper, pulverizing chambers, pulverizing knife, sieve mesh, discharge barrel and moving ring of the bearing set, can be dismantled, washed and disinfected.
- This “A” type machine apply to the work requirements as per USFDA, cGMP norms.



BLENDER CHARGING THROUGH INLINE MILLING

Technical Specifications :

Model	CM-150	CM-300	CM-500	CM-750	CM-1000
Capacity	50-150 kg/h	150-300 kg/h	300–500 kg/h	500-750 kg/h	750-1000 kg/h
Granularity	6-80 mesh				
Drive seat temperature rise	< 30(ºC)				
Range of speed regulation	300~3000 rpm(Frequency Control)				
Motor power	1.5 kw	2.2 kw	3.7 kw	5.5 kw	7.5 kw
Overall dimension	720 * 445 *1345	810 * 445 * 1345	920 * 445* 1430	1000 * 500 * 1530	1100* 600* 1875
The height from ground to discharge mouth	650 mm	650 mm	690 mm	690 mm	700 mm

BASKET GRANULATOR

pneuCONVEYOR – New U Type Basket Granulator provides trouble free granulation of your wet and dry material. This Granulator provides step less speed control, selection of baskets and rotors for optimum performance. Further, all parts are easily accessible for cleaning.

Granulator is mounted on easy to move trolley and can be connected directly on line to Centrifuge or any other m/c. for wet granulation. This granulator can also be adapted for granulation of dry products such as tray dried material or granulation of raw materials. Rates upto 3000kg/hr are possible with 10mm dia opening screen. Drive system consists of rugged spindle with sealed geared motor. This simple layout allows in line material flow while providing easy pull out access for cleaning and maintenance.

PROCESS SPECIFICATIONS :-

- Granulator will achieve peak capacity of 800 to 1000 kg/ hr
- This will enable granulator to process material during auto discharge from centrifugal or Bag charging on Top Hopper of the Granulator.
- Granulator screen size : R10T18 (10Dia opening on Triangular pitch of 18)
- Rotor Diameter: 400 mm / Rotor Length: 400 mm / Rotor speed: 60 RPM
- Power : 3 / 5 / 7.5 HP

MANUFACTURING SPECIFICATIONS :-

- MOC: All contact parts in SS316L duly finished.
- Non Contact: SS304/ Carbon steel covered in SS304
- Electricals : 1440RPM/ 440Volts/ 3Phase Crompton/Remi Motor FLP/ NonFLP Motor
- Drives: Rotomotive / Bonfiglioli to vary & achieve final 60RPM.

SALIENT FEATURES :-

- Area: FLP / Non FLP (as per customer's requirement).
- This System will consist of basket granulator connected to discharge port of centrifugal.
- Wet cake falling from Centrifugal will be granulated and will move through PTS for charging in Reaction Vessel at a ht. of approx. 6 Mtrs.
- Nitrogen purging ports are provided on Granulator.
- Granulator will have pull out type U screen for easy access.
- Granulator will be Trio–fitting mounted from Bottom to easy fitting with PTS System.
- Outlet of granulator will be rectangular and will have rectangular to round converter connected.

TECHNICAL SPECIFICATIONS :-

MODEL	MATERIAL	SCREEN CAGE SIZE MM) (diameter * length)	APPLICATION MATERIAL
GCM-30	SS304 / SS316	250dia * 300mm	40-500 MESH
GCM-50	SS304 / SS316	300dia * 380mm	40-500 MESH
GCM-100	SS304 / SS316	400dia * 450mm	40-500 MESH

SCOPE OF SUPPLY :-

Granulator complete with all subsystems mentioned as Main Granulator with geared drive

EXCLUSIONS:-

Provision of Utilities supply points near equipment.

These utilities include:

1. Power 460 VAC 3Ph 60Hz, 2.2 kW
2. Compressed Instrument Quality 5 bar 2 Cu M/hr.

LUMP BREAKER

DESCRIPTION:- pneuCONVEYOR – Lump breakers, also referred to as lump crushers, are required particle size reduction equipment for most material handling systems. They operate by introducing agglomerated product through an opening in the top of the unit. The lump breaking happens when the products particles that are too large are crushed by the rotating blades as they pass through a set of stationary comb-like blades. The agglomerated product particles continue to be reduced in size until they are small enough to pass through and discharge below the unit. A common application for our lump breakers is to reduce deliberately compacted materials or natural agglomerations which often occur during production, storage or shipping.

The Lumps Breakers are designed for breaking lumps which are formed in granules and dry powders. Lumps Breakers are installed in chutes ducts and conveying systems and can be fitted with a hopper for batch operation. Lumps Breakers reduced the material deliberately compact in size for densification process or recycling or waste disposal application. Lump breaking process reconstitute the product which increases the flow ability, consistency and downstream of the material.

PneuCONVEYOR Lump Breaker Features
- Reduces pieces or lumps from 6” to 1/16”
- Heavy-duty single/double shaft rotor, V-belt driven
- Easily replaceable rotating and fixed blades
- Drilled for air purge seals
- V-belt drive with guard

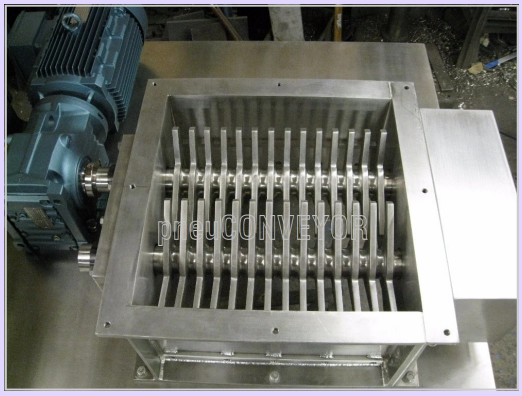
pneuCONVEYOR Lump Breaker Benefits
- Economical means of reducing compacted material
- Breaks lumps and improves product flow for a variety of applications
- Reduces natural agglomeration
- Low-profile for easy installation and maintenance
- Quick-clean capability

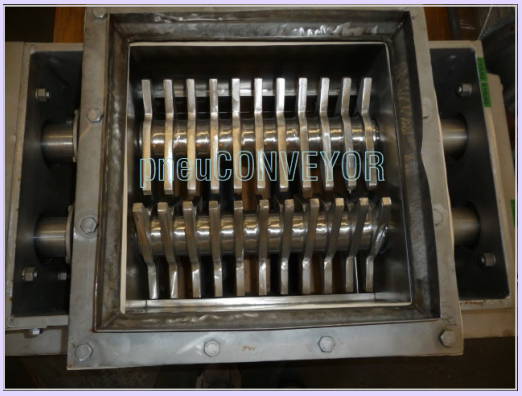
Why choose a pneuCONVEYOR Lump Breaker?

pneuCONVEYOR Lump Breakers are functional, economical and designed to tear through most materials and reduce them down in size as small as 1/16" without generating excessive dust.

Our Lump Breaker design is proven to provide a simple and efficient process of reducing compacted materials into a smaller and controlled granulated product allowing for more efficient and effective product handling by downstream equipment. pneuCONVEYOR Lump Breakers reduce downtime, increase performance, and improve product quality over other available lump breakers and crushers.

It is no surprise, with industry leading reliability and features such as counter-rotating dual shafts, outboard bearings and a direct coupled drive, that companies around the world are taking advantage of the many benefits associated with using our innovative lump breakers in their line of processing equipment.





This uniquely designed lump breaker (cake breaker/flake breaker) improves product flow for a variety of applications while reducing product agglomeration for an all-around easy means of reducing compacted materials.

Easy installation and maintenance, as well as an optional sanitary design, make this a simplistic product for businesses of all sizes and types. At pneuCONVEYOR, we construct only the most versatile equipment and our lump breakers are no exception. It can process an extensive array of materials, including chemicals, minerals, salt, sugar, ceramic powders and more.

Design features include easily replaceable rotating and fixed blades, a heavy-duty single-shaft rotor driven by a V-belt, and strategically drilled air purge seals.

pneuCONVEYOR's Lump Breaker is designed to provide a simple, more economical means of reducing compacted materials into smaller, granulated product required for most processing or packaging lines. The Lump Breaker improves product flow for a variety of applications including: sugar, salt, chemicals, cereal, kiln dust, resin, pigment, filter cake, pasta, fertilizer and more.

This equipment can be used to reduce natural agglomeration, which can occur during storage / shipping, or reduce material deliberately compacted in densification processing or in recycling or waste disposal applications.

Standard Lump Breaker Sizes and Capacities:-

Overall Size (in.)	Cubic Feet Per Minute
8 x 8	8
10 x 10	12
12 x 12	18
14 x 14	25
16 x 16	33
18 x 18	40
20 x 20	50

Our lump breakers can reduce pieces or lumps from 6″ to 1/16″ and are used in many applications.

BLENDERS & MIXERS :

RIBBON MIXER

Descriptions :
pneuCONVEYOR – Ribbon Mixer is mixer for Intensive Mixing of wet and dry material used in the Food, Chemical, Pharmaceutical, Paint, Cement, Refractory, Adhesives, Building materials, Dyestuff and Allied Industry. It is a LOW SHEAR mixer and mostly used for SOLID / SOLID Mixing. Solid / Liquid mixing can also be achieved when high shearing force is not desired. It occupies less head room space for large volume mixing unlike Double Cone, 'V' Blenders etc.

Ribbon Blender comprises of a U-shaped horizontal trough and a specially designed Double Helical Ribbon Agitator rotating within. The ribbons rotate at approximately 70 – 100 meters per minute and move the material both radially and laterally to ensure thorough blends in short cycle times.

Salient Features :

- Available in two shapes – U & W.
- U-for Low to Medium volume Capacity (single shaft).
- W-for Large to Mega volume Capacity (double shaft).
- All contact parts in stainless steel 316.
- Bearing mounted on lanterns out of mixing zone to avoid Cross contamination.
- Reduced Material handling due to side discharge facility of processed materials.
- Meets all cGMP standards.
- Stuffing boxes with easily disassembled housings. PTFE gland packing provided.
- Air purge on the side entry seals for better cross contamination control.
- Continuous Ribbon design for complete discharge of the finished product.
- Belt driven power transmission for quieter environment and less maintenance.

Technical specifications :

Model	Gross Cap.	Working Cap.	Motor HP	Discharge Size / Ht.	RPM	Overall Dimensions L x W x H
RM-10	130	100	2	100 / 600	30	600 X 1000 X 1500
RM-20	310	200	3	150 / 600	30	620 X 1330 X 2150
RM-25	350	250	3	150 / 600	30	620 X 1330 X 2350
RM-30	450	300	3	150 / 600	30	620 X 1330 X 2600
RM-40	520	400	3	150 / 600	30	620 X 1400 X 2650
RM-50	650	500	5	150 / 750	30	900 X 1600 X 2650
RM-60	750	600	5	150 / 750	24	900 X 1750 X 2600
RM-70	850	700	5	150 / 750	24	950 X 1800 X 2650
RM-80	1050	800	7.5	150 / 750	24	950 X 1800 X 2800
RM-100	1300	1000	7.5	200 / 750	24	1000 X 1900 X 2950
RM-120	1600	1200	10	200 / 750	24	1100 X 1950 X 2950
RM-140	1700	1400	10	200 / 750	24	1100 X 1950 X 3250
RM-150	1800	1500	10	200 / 750	24	1100 X 1950 X 3350
RM-160	1900	1600	10	200 / 750	20	1100 X 1950 X 3500
RM-180	2150	1800	15	200 / 750	20	1100 X 1950 X 3750
RM-200	2350	2000	15	200 / 750	20	1200 X 2000 X 3800
RM-250	3000	2500	20	250 / 750	20	1300 X 2150 X 4000
RM-300	3500	3000	20	250 / 750	20	1480 X 2200 X 4000
RM-325	4000	3250	20	250 / 750	16	1480 X 2250 X 4500
RM-400	5000	4000	30	300 / 450	16	4950 X 1800 X 2000
RM-600	7500	6000	40	300 / 450	16	5450 X 2000 X 2000
RM-800	10000	8000	60	300 / 450	16	6000 X 2000 X 2000


pneuCONVEYOR


pneuCONVEYOR

OCTAGONAL BLENDER

Description :

pneuCONVEYOR – Octagonal Blender is a very precision machine, performing dry blending of powder or granules homogenously in only 10 to 30 minutes. This machine is utilized for mainly homogenizing, blending and also for granules lubrication as that facilitates better flowability at a tablet press while compressing this granules. Due to its octagonal shape is designed to process larger volume of material. It occupies less space compared to other similar blenders like 'V' / Double Cone. The blending takes place at low speed during operation. It is well balanced & smoother even in higher capacities. It is very useful for pharmaceutical industries wherein gentle blending of dry granules of powder is to be done.

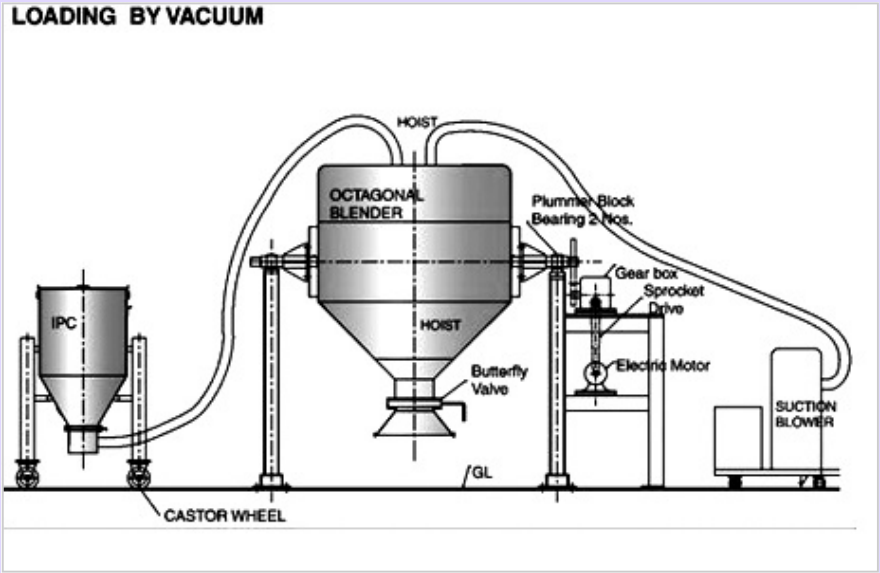
The important feature of the machine is easy to wash in place. Octagonal blender is supplied with a bin charging system or can be designed for vacuum charging. Dust free charging system is also incorporated, which is a completely closed system for charging and discharging of powders or granules.

The power consumption is comparatively lower than other similar type of blenders. Basic machine consists of a blender container which is supported both ends by stub shafts which are supported on plummer block bearings. Entire assembly is placed on a structure which has drive unit consisting of electric motor, chain coupling and in case of heavy loads fluid couplings. All parts coming in contact with mix are of stainless steel 316 quality and are highly polished. Drive motors, electrical control panel and control station are supplied in non-flameproof as well as flameproof construction, as per clients requirement. In case of flameproof construction, the control panel should be located in low risk area.

There is a baffle made of ss316 pipes inside which can be removed by losing the nut between the baffles. Baffles assembly also depends upon the customer's specific requirements. Baffle ensures uneven movement of mass during tumbling and results in better homogenising. Blender has a discharge butterfly valve which if a client requires so can be operated through pneumatic actuators. Entire butterfly valve is of SS316 with seats of silicone rubber

The whole drive assembly is covered with S.S. side panel. All drives, pulleys and belt are adequately guarded. Interlock is provided for the railing so that operator does not have access to the container when it is in motion. Machine will stop automatically once the blender main railing is made to open.

The inside of Octagonal body is mirror polished and the outside surface is matt polished. The material to be mixed is charged in machine either manually from top or bin charging system or vacuum charging system and then the port is locked positively. Then blender is started to preset blending time. At the end of process, machine is stopped and the product is transferred to process containers by opening the butterfly value.



There are three methods to load Blenders.

1. LOADING BY CONTAINER : Here the container brought close to the blender on special trolley having lifting arrangement. This lifting pellet ensures that the container is lifted and is aligned with the transition piece fixed with the blender outlet butterfly valve. This transition piece mouth is clamped with the outer periphery of the container using special types of clamps. Now after clamping the container(100 Lits approx) the blender is inched till the container is vertically inverted over the blender. Now once the container reaches upward inverted position, the butterfly valve is made to open by special hand wheel so that entire content of the container gets up loaded in to the blender. Once it becomes empty, the valve is closed & container is brought again downward by rotating the blender again by 180* and another container is fixed and raised and in similar way and this way entire powder content is unloaded. By this method, material is loaded in batches of 50Kg each.
2. LOADING BY IPC : Here by using mobile hoist the IPC's of 220 lits are raised over the blender and through dust free connection the entire powder content is unloaded in to the blender by opening the butterfly valve. Thus material gets loaded through IPC's and also after blending the discharged material also gets unloaded in to IPC's using another dust free connection set. There is a butterfly at the discharge. For loading blender there is one opening made on the lid of the blender or lid for manhole of the blender. This way entire transfer of material is dust free.
3. LOADING BY VACUUM : Here by application of vacuum the entire blender is loaded using pneumatic conveying system. Blender container has two openings and through one such opening is connected to the vacuum blower and through other it is connected to the IPC's bottom portion which has a triclover arrangement. So the powder from IPC's gets transferred to the blender using vacuum conveying. This is entirely dust free but expensive method.

Pneumatic Automatic powder charging system is provided duly mounted on a swivelling davit interlocked with sensor to safeguard against blender. It is provided with a SS suction nozzle coupled to a flexible PVC food quality conveying pipe to enable for direct suction of the powder from container which will be discharged in blender and on complete charging of batch or maximum upto 70-80% by volume, filter bag of charging system may automatically be cleaned by auto reverse pulse jet mechanism thereby safeguarding against operator dependency, charging system may be swivelling on side and locked in that position which will actuate the sensor for that position, a dummy cover to be clamped on charging hole & homogeneous blending action can be initiated by starting the blender operation. After necessary blending period the material can be discharged & collected from bottom into container by manually opening the butterfly valve. The entire auto charging system is a tool free assembly.

Salient Features :

- Basic equipment is in vacuum rated design.
- Material handling in Octagonal Blender is through Bin charging or a Vacuum charging system.
- Due to vacuum rated design we can load the blender through vacuum transfer system with inline Milling
- Bin charging system ensures Dust free closed system for Charging and Discharging of Product.
- Slow speed Blender with Gentle blending of Dry granule.
- Optional in built in Vacuum design. No external PTS required.
- The baffles are eliminated with blending profile analysis available.
- Self positioning sensor is provided for particular discharge position
- Discharge with specially designed adaptor assembly with T C connection, in case of damage of butter fly this will safe guard the material
- cGMP design for ease of cleaning.
- Capacities available from 100L to 4000L (Higher capacity up to 10000L on demand).

Technical specifications :

MODEL	GROSS CAP. IN LTRS.	WORKING CAP. IN LTRS.	OVERALL DIMENSIONS L x W x H with / without BIN CHARGING		RPM	HP
OB-10	150	120	1200X2140 X2360	1200X800 X1590	10	0.5
OB-20	200	160	1200X2240 X2460	1200X900 X1690	10	1
OB-30	300	240	1300×2340 x2560	1300×1150 x1790	8	1.5
OB-40	500	400	1450X2440 X2660	1450X1150 X1890	8	1.5
OB-50	600	480	1550×2490 x2710	1550×1150 x1940	8	2
OB-60	800	640	1650X2600 X2810	1650X1250 X2040	8	2
OB-70	1000	800	1750X2640 X2860	1750X1350 X2090	8	3
OB-80	1250	1000	1900×2800 x3010	1900×1500 x2240	6	3
OB-90	1500	1200	1950X2850 X3060	1900X1550 X2300	6	5
OB-100	2000	1600	1960X2900 X3130	1960X1700 X2360	6	5
OB-110	2500	2000	2100×3040 x3310	2100×1800 x2490	6	5
OB-120	3000	2400	2150X3090 X3410	2150X1900 X2540	6	7.5
OB-130	3500	2800	2250×3210 x3400	2250×2010 x2640	6	7.5
OB-140	4000	3200	2350X3290 X3510	2350X2100 X2740	6	10

Optional Accessories :

- Documentation
- PLC Based Colour Touch Screen Display (Optional)
- Flame Proof Construction
- Stair Case with Platform
- Pneumatically Operated Butter Fly Valve for Discharge
- Provision for Spray Ball

V - BLENDER

Descriptions :
The V blender is normally used for formulation granules blending, and will be fixed with two different frames. One end is driving and second will be supporting end.

'V' Blender, the rotating shell V-Type Blender is used only as dry mixers. Advantages of Blending operation in this Blender is minimal attrition when blending fragile granules, large capacity, and easy loading and unloading. Modification such as the addition of baffles to increase mixing shear have been made to these types of blenders.

Optional Accessories :-
- Documentation.
- Flame Proof Construction
- Stair Case with Platform
- Pneumatically Operated Butter Fly valve for discharge.
- Provision for Spray Ball.

Salient Features :

• Basic equipment is made to facilitate vacuum charging system.
• Due to vacuum rated design we can load the blender through vacuum transfer system with inline Milling.
• Particle size reduction and attrition are minimized due to the absence of any moving blades. Hence it can be used for fragile materials.
• The Bin charging system can also be incorporated in it which provides complete dust free closed environment for charging and discharging.
• Discharge with specially designed adaptor assembly with T C connection, in case of damage of butter fly this will safe guard the material
• The absence of shaft projection eliminates product contamination.


pneuCONVEYOR


pneuCONVEYOR

Technical specifications :

Model	Gross cap. in Ltrs.	Working Cap. in Ltrs.	Overall Di-mensions L x W x H	RPM	HP
VB-10	50	30	1700 x 1100 x 2200	20	1
VB-20	100	60	2000 x 1250 x 2400	20	1.5
VB-30	200	120	2400 x 1350 x 2700	20	3
VB-40	300	180	2600 x 1450 x 2900	20	5
VB-50	500	300	2900 x 1600 x 3300	18	7.5
VB-60	750	450	3250 x 1700 x 3600	18	7.5
VB-70	1000	600	3600 x 1900 x 3900	18	10
VB-80	1500	900	3900 x 2250 x 4150	16	15
VB-90	2000	1200	4200 x 2400 x 4300	16	15

DOUBLE CONE BLENDER

The double cone blender is used dry & wet blending of powders & granules homogenously with adding the binder in granules. The blender consists of a Cylindrical Shell with two cones & is perfectly designed with its angle, shape & is an efficient and versatile machine homogeneous mixing / blending.

One end of the blender has a hinged cover for quick opening and charging is done at an inclination & an Iris Diaphragm / Butterfly Valve is used for discharge. The blender is enclosed by a Safety railing with limit switch. Manufactured in Stainless Steel, the design is aesthetically suited to the modern pharmaceutical plant. All the contact parts are made of SS316. The effective volume for optimum homogeneity is between 35-70% of gross volume. It is very useful for pharmaceutical, food, chemical, cosmetic products

Optional Accessories :

- Documentation
- PLC Based Color Touch Screen Display
- Flame Proof Construction
- Stair Case with Platform
- Pneumatically Operated Butter Fly valve for discharge.
- Provision for Spray Ball

Salient Features :

- Basic equipment is made to facilitates vacuum charging system.
- Due to vacuum rated design we can load the blender through vacuum transfer system with inline Milling.
- The conical shape at both end enables uniform mixing and easy discharge.
- The cone is statically balanced which protects the gear box and motor from any excessive load.
- Main structure is manufactured from heavy duty SS 304 square tube.
- Variable frequency drive is provided for step less drive.
- Self positioning sensor is provided for particular discharge position.
- Manually operated butter fly valve at discharge of blender.
- Depending on the characteristic of the product, paddle type baffles can be provided on the shaft for better mixing, uniform blending and de-agglomeration.
- Discharges with specially designed adaptor assembly with TC connection, in case of damage of butter fly this will safe guard the material.
- Dust Free bin charging system which ensures minimum material handling.
- Capacities available from 100L to 4000L (Higher capacity up to 10000L

Technical specifications :

Model	Gross Cap.	Working Cap.	Motor HP	Discharge Ht.	Charge/ Discharge Ht.	Overall Dimensions L x W x H
DCB-50	150	100	2	450	150	1400 X 800 X 1500
-DCB-100	300	200	3	450	150	1850 X 900 X 1900
DCB-150	465	300	5	450	200	2000 X 1100 X 2000
DCB-200	615	400	5	450	200	2100 X 1200 X 2100
DCB-250	775	500	7.5	550	200	2200 X 1300 X 2200
DCB-300	1000	600	7.5	550	200	2300 X 1400 X 2300
DCB-400	1340	800	7.5	600	200 / 300	2350 X 1800 X 2350
DCB-500	1500	1000	10	800	250 / 350	2400 X 1900 X 2400
DCB-650	2000	1300	10	800	250 / 400	2800 X 2100 X 2700
DCB-750	2500	1500	10	800	250 / 400	3000 X 2200 X 2600
DCB-1000	3350	2000	15	800	250 / 400	3200 X 2300 X 3100

PLANETARY MIXER

Planetary Mixers with judicious choice of beater and its speed meet mixing requirements of difficult liquid / liquid, liquid / solid and solid / solid blending irrespective of difference in specific gravity, size, viscosity and proportion of constituents. They also mix faster with no heating up of constituents on account of friction between the bowl and beater. Besides, charging and discharging of materials, under process is quick. The bowl can jacketed for cooling and heating and also be provided with a conical cover to avoid dusting and spillage.

Application :- Powder to powder mixing

Salient Features : –

- All contact parts of the mixing bowl and beater are made out of SS304 material or SS316, as per requirements. Scrapping blades can also be provided if required.
- The Mixing bowl can be jacketed for electric/steam heating is ideal equipment for small batch sizes.
- Manual lifting arrangment for agitators up to 50 Lts and motorize lifting.
- The top of mixing bowl has an S.S. Lid with a charging hole.
- The mixing bowl is provided with castor wheels and locking system for easy handling and transportation.
- Flame Proof motor van be supplied as optional.
- Capacity offered 20L to 500L.

Technical Specifications :-

Models	PLM-60	PLM-120
GROSS CAPACITY	60 ltrs	120 ltrs
WORKING CAPACITY (depends on product)	Upto 50 ltrs	Upto 100 ltrs
BOWL DIMENSION in mm	460mm dia x 410mm Ht.	508mm dia x 550mm Ht.
BOWL SHAPE	Hemispherical bottom	Hemispherical bottom
BEATER TYPES	Heart	Heart
MOTOR 416 V / 50CS / 3PH / AC	2HP (Dual Speed)	5HP (Dual Speed)
DIMENSIONS in mm	900L x 750Wx 1450 Ht	1050L x 800W x 1550 Ht

STORAGE SILO

CUSTOMERS DIRECT SOLUTION FOR THEIR STORAGE, AERATION, CONVEYING, CLEANING AND DRYING NEEDS FOR PHARMA, CHEMICAL, FOOD , GRAIN AND FLOWABLE BULK COMMODITIES.

pneuCONVEYOR™ Steel Silos has introduced the revolutionary solution for storage by using SS304 / SS316, Quality.

Application :- Powder Storage

pneuCONVEYOR – metal Silos are precisely designed according to the world-class standards & specifications for long-term storage of varied Pharma, Bulk Drug, Chemicals, Food, Grains and Cereals, Plastic & Paint and other materials such as coffee beans, cotton, etc. while maintaining their unhindered quality.

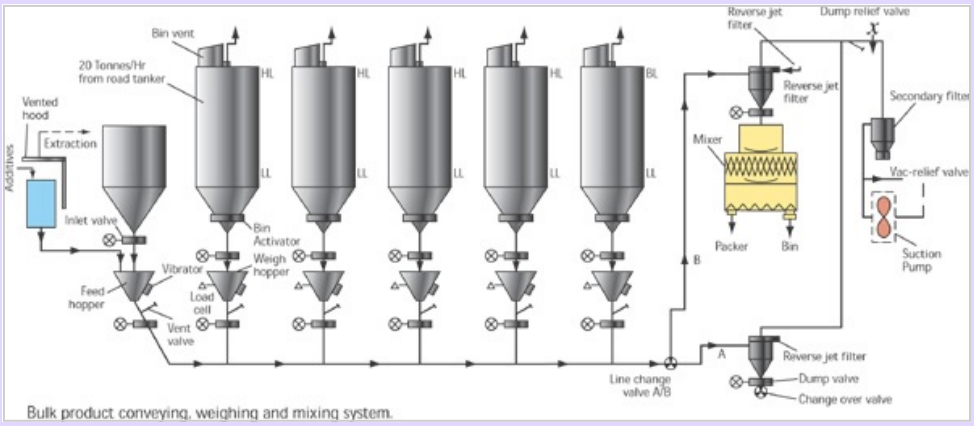
We offer storage system which consist of Storage Silos, Handling Equipment, Monitoring Systems, Aeration Systems, Automation Systems. These steel silos are specifically designed for excellent protection and are made available as per customer's specific requirements. Our metal silos for Pharma, Bulk Drug & chemicals & grain storage are available with Flat Bottom & Hopper Bottom to fit into client's specific requirement. You can rely on our products & services as we are one of the top silo manufacturers in India.

Distinguished Characteristics of Metal Silos :

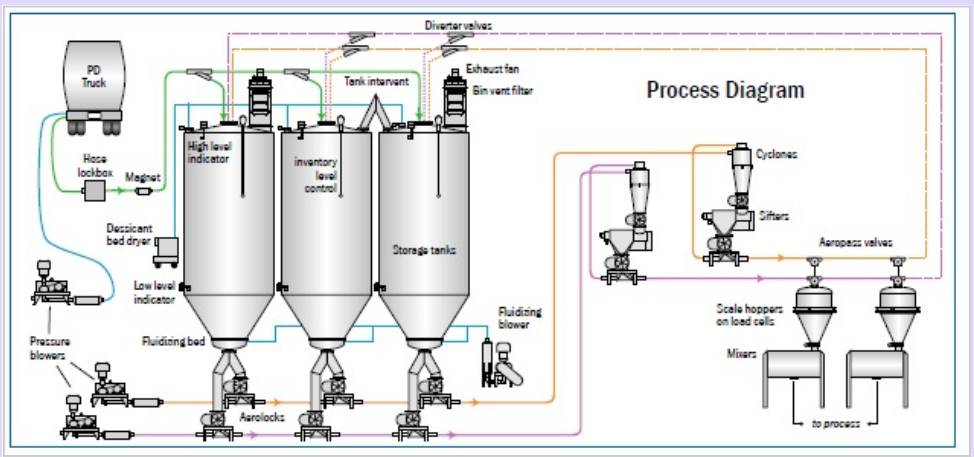
- High tensile strength
- Designed to stand up to snow loads & strong winds
- Special sturdy cross-sectional roof structure
- Robust frame
- Designed to adhere to seismic & soil conditions

pneuCONVEYOR systems & engineers

Manufacturers of Vacuum Powder Transfer System, Pneumatic Powder Conveying system (Dense/Dilute phase), Tubular Chain Drag Conveyor, Screw Conveyor (Flexible/Fixed), Sifting, Milling, Drying, Mixing & Blending Equipments, Big bag loading/ unloading, Silo Storage Systems & Weighing Batching systems



Bulk product conveying, weighing and mixing system.




www.pneuconveyor.com


EWB-10
www.pneuconveyor.com

pneuCONVEYOR systems & engineers

Why choose us ?

Professional powder engineering equipment provider

Good experience

We have 15years experience in powder engineering equipment. We have successfully solved various problems encountered by hundreds of enterprises in the process of powder engineering.

Strong technical force

We have professional sales & technical teams. We can formulate feasible, economical and effective technical solutions according to the specific conditions of customers to meet the production needs of customers.

Warranty & Training

We offer one year warranty for all of our products. Clents can send their engineers to our factory for technical or installing training. We can send our engineers to clinets too.

Good price and quality assurance

We have been business for 15 years and we have good relations with our material suppliers. We have confidence in our price without sacrificing of quality.

After-sales service

We have professional after-sales team standby to handle your problem with our products. Our sales team will also check with clients about the machine running time by time.

QUALITY OBJECTIVES :

The organization is committed to achieve the quality objectives which are given below :

- To enhance customer satisfaction continually.
- To reduce the rejection and rework. Focus is on defect prevention rather than defect detection.
- To reduce machine breakdowns.
- To complete projects within the agreed duration.

Our fair business deals & professional attitude has helped us to satisfy clients with varied needs from all over the world. We successfully meet the deadlines set by our clients and deliver them on time. We strive to build a long lasting relationship with our clients. We have association with some of the big names in the industry and our objective is to further expand our business horizon by venturing into the key international markets.

Superior Quality

The quality delivered by us in our products is of very superior quality

Production Capacity

We have a large volume Production Capacity

Innovation

Highly innovative product range

Competitive Prices

We offer our products at the best competitive prices

Delivery in Time

Our commitment of delivering products within the stipulated time

Strong Tie-ups

Strong tie-ups with C&F agents ensures wide availability

International Standards

Products conforming to International Standards of

Research & Development

Experienced R&D department, with latest facilities.

DOCUMENTATION :

pneuCONVEYOR - assures quality product with good documentation practices.

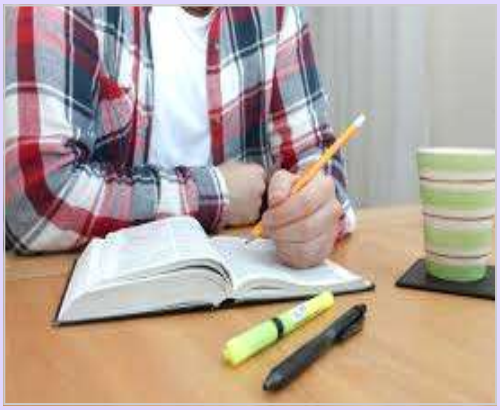
In a cGMP environment documentation needs to meet certain requirements to ensure product quality and product safety. The cGMP regulations from FDA, on documentation.

Documentation provides both:

- Information and Evidence

Documents provide the information or evidence or may serve as an official record.

and EU all include mandatory sections



pneuCONVEYOR's documents includes:

Drawings

- Assembly and Erection Drawings
- Equipment Support Drawings
- Drawing of schematic and piping arrangements
- Drawings for Air Handling Unit Instrument
- General Assembly drawings
- Electrical and Pneumatic drawings
- Process & Instrumentation diagrams & necessary layouts
- Final As-built Drawing
- Contact surface area drawing

Certificates

- Material of construction reports
- Certificates for all direct / indirect product contact surfaces
- Instrument calibration reports or certificates
- Integrity test certificate
- Guarantee / warranty certificates for the equipment and bought-out items

Operation manuals

- Operation and maintenance manuals for the main equipment as well as all the bought out items
- Operation and maintenance manuals for the major components Software logic / operation and controls
- Software manual / Instrument manual
- Equipment manual and trouble shoot guide manuals
- Interlock description flow charts for operation and maintenance

Protocols and qualification documents

- Factory Acceptance Test protocols
- Design Qualification
- Installation Qualification
- Operation Qualification
- Installation instructions/ guidelines

pneuCONVEYOR

NOTES /// // /

Committed to Quality & Performance

pneuCONVEYOR systems & engineers

OFFICE : UNIT-B-17 & 19, ADKE COMPOUND, LBS MARG, VIKHROLI (WEST), MUMBAI -400083
Call Us :- 91-9833297671 / 9819030056 WhatsApp :- 91-983329761
eMail Us :- pneuconveyor@gmail.com / info@pneuconveyor.com
Website :- https://www.pneuconveyor.com

FACTORY : A9/B-23 &24, PADMINI COMPOUND, KALHER PIPE LINE ROAD, PURNA, BHIWANDI-406125

Committed to Quality & Performance

pneuCONVEYOR systems & engineers

Manufacturers of Vacuum Powder Transfer System, Pneumatic Powder Conveying system (Dense/Dilute phase), Tubular Chain Drag Conveyor, Screw Conveyor (Flexible/Fixed), Sifting, Milling, Drying, Mixing & Blending Equipments, Big bag loading/ unloading, Silo Storage Systems & Weighing Batching systems

pneuCONVEYOR

NOTES /// // /

Committed to Quality & Performance

pneuCONVEYOR systems & engineers

Manufacturers of Vacuum Powder Transfer System, Pneumatic Powder Conveying system (Dense/Dilute phase), Tubular Chain Drag Conveyor, Screw Conveyor (Flexible/Fixed), Sifting, Milling, Drying, Mixing & Blending Equipments, Big bag loading/ unloading, Silo Storage Systems & Weighing Batching systems

EXPERIENCE IN MOTION

We are a reputed company specialists in plant and process automation systems for all types of ingredients handling, processing of integrated and automated powder processing system as per GMP norms for pharma/ bulk drug/ food /chemicals/ cement/ paint / plastic/ fertilizers and other industries.

For complete customized solutions in

- # PRODUCT TRANSFER / CONVEYING / CHARGING
- # PRODUCT STORAGE
- # MILLING & SIFTING
- # MIXING / BLENDING
- # BAG/DRUM WEIGH FILLING
- # WEIGHING & BATCHING SYSTEM
- # DUST CONTROL

Applications :

- # PHARMACEUTICALS
- # BULK DRUG
- # FOOD
- # CHEMICAL
- # CEMENT
- # PAINT
- # FERTILIZERS
- # DYES

SPECIALIST IN AUTOMATION PLANT # PROCESS AUTOMATION SYSTEM # SPECIAL PURPOSE MACHINES

Committed to Quality & Performance

pneuCONVEYOR systems & engineers

Manufacturers of Vacuum Powder Transfer System, Pneumatic Powder Conveying system (Dense/Dilute phase), Tubular Chain Drag Conveyor, Screw Conveyor (Flexible/Fixed), Sifting, Milling, Drying, Mixing & Blending Equipments, Big bag loading/ unloading, Silo Storage Systems & Weighing Batching systems

EXPERIENCE IN MOTION

We are a reputed company specialists in plant and process automation systems for all types of ingredients handling, processing of integrated and automated powder processing system as per GMP norms for pharma/ bulk drug/ food /chemicals/ cement/ paint / plastic/ fertilizers and other industries.

For complete customized solutions in

- # PRODUCT TRANSFER / CONVEYING / CHARGING
- # PRODUCT STORAGE
- # MILLING & SIFTING
- # MIXING / BLENDING
- # BAG/DRUM WEIGH FILLING
- # WEIGHING & BATCHING SYSTEM
- # DUST CONTROL

Applications :

- # PHARMACEUTICALS
- # BULK DRUG
- # FOOD
- # CHEMICAL
- # CEMENT
- # PAINT
- # FERTILIZERS
- # DYES

SPECIALIST IN AUTOMATION PLANT # PROCESS AUTOMATION SYSTEM # SPECIAL PURPOSE MACHINES

Committed to Quality & Performance

pneuCONVEYOR systems & engineers

Manufacturers of Vacuum Powder Transfer System, Pneumatic Powder Conveying system (Dense/Dilute phase), Tubular Chain Drag Conveyor, Screw Conveyor (Flexible/Fixed), Sifting, Milling, Drying, Mixing & Blending Equipments, Big bag loading/ unloading, Silo Storage Systems & Weighing Batching systems

EXPERIENCE IN MOTION

We are a reputed company specialists in plant and process automation systems for all types of ingredients handling, processing of integrated and automated powder processing system as per GMP norms for pharma/ bulk drug/ food /chemicals/ cement/ paint / plastic/ fertilizers and other industries.

For complete customized solutions in

- # PRODUCT TRANSFER / CONVEYING / CHARGING
- # PRODUCT STORAGE
- # MILLING & SIFTING
- # MIXING / BLENDING
- # BAG/DRUM WEIGH FILLING
- # WEIGHING & BATCHING SYSTEM
- # DUST CONTROL

Applications :

- # PHARMACEUTICALS
- # BULK DRUG
- # FOOD
- # CHEMICAL
- # CEMENT
- # PAINT
- # FERTILIZERS
- # DYES

SPECIALIST IN AUTOMATION PLANT # PROCESS AUTOMATION SYSTEM # SPECIAL PURPOSE MACHINES

Committed to Quality & Performance

pneuCONVEYOR systems & engineers

Manufacturers of Vacuum Powder Transfer System, Pneumatic Powder Conveying system (Dense/Dilute phase), Tubular Chain Drag Conveyor, Screw Conveyor (Flexible/Fixed), Sifting, Milling, Drying, Mixing & Blending Equipments, Big bag loading/ unloading, Silo Storage Systems & Weighing Batching systems

EXPERIENCE IN MOTION

We are a reputed company specialists in plant and process automation systems for all types of ingredients handling, processing of integrated and automated powder processing system as per GMP norms for pharma/ bulk drug/ food /chemicals/ cement/ paint / plastic/ fertilizers and other industries.

For complete customized solutions in

- # PRODUCT TRANSFER / CONVEYING / CHARGING
- # PRODUCT STORAGE
- # MILLING & SIFTING
- # MIXING / BLENDING
- # BAG/DRUM WEIGH FILLING
- # WEIGHING & BATCHING SYSTEM
- # DUST CONTROL

Applications :

- # PHARMACEUTICALS
- # BULK DRUG
- # FOOD
- # CHEMICAL
- # CEMENT
- # PAINT
- # FERTILIZERS
- # DYES

SPECIALIST IN AUTOMATION PLANT # PROCESS AUTOMATION SYSTEM # SPECIAL PURPOSE MACHINES