

Your reputation is our Priority & so we manufacture machines as per International regulations and standards.









ALSO CERTIFIED BY



DUBAI OFFICE

Bhingatti Building, Silicon Oasis, Dubai-UAE, 443006

INDIA OFFICE

F1, Gulmohar Palace, Koregaon Park, Pune, Maharashtra-411001, India

www.abislgroup.com



sales@bhagat-tech.com | info@abislgroup.com

🔍 Dubai: +97142992560 | India: +91-9879452091, +91-7061677110

ABOUT US

- Established in 2019, "ABISL Group" is a leading Turnkey solution provider with ISO 9001:2015 certification. We offer high quality equipment solutions in more than 12+ Industries.
- Now, "ABISL Group" has a presence spanning over 22+ countries. We are associated with cGMP, FDA, CE certified manufacturing facilities in India, with proven stringent precision quality controls to meet the specific requirements of our global clients.



 Our Sales offices are located in Dubai U.A.E & India to offer world-class logistics support to our global clients.

OUR MISSION



We deal with the finest quality part manufacturers to ensure that our esteemed customers get nothing short of the best quality and practices. Our extensive stock of parts guarantees that we are ableto provide more effective solutions for any client globally. Our passion and extensive knowledge and understanding of our field issurpassed only by our outstanding level of service, certified and respected throughout the region and beyond.

INDUSTRIES

FOOD & BEVERAGE

FMCG

PHARMAC EUTICALS

CEMENT & SAND

SPICE INDUSTRY

PLASTIC & POLYMERS

SUGARCANE INDUSTRY

AGRICULTURAL, FERTILIZER PROCESSING

CHEMICAL & PIGMENTS

INK & PAINTS

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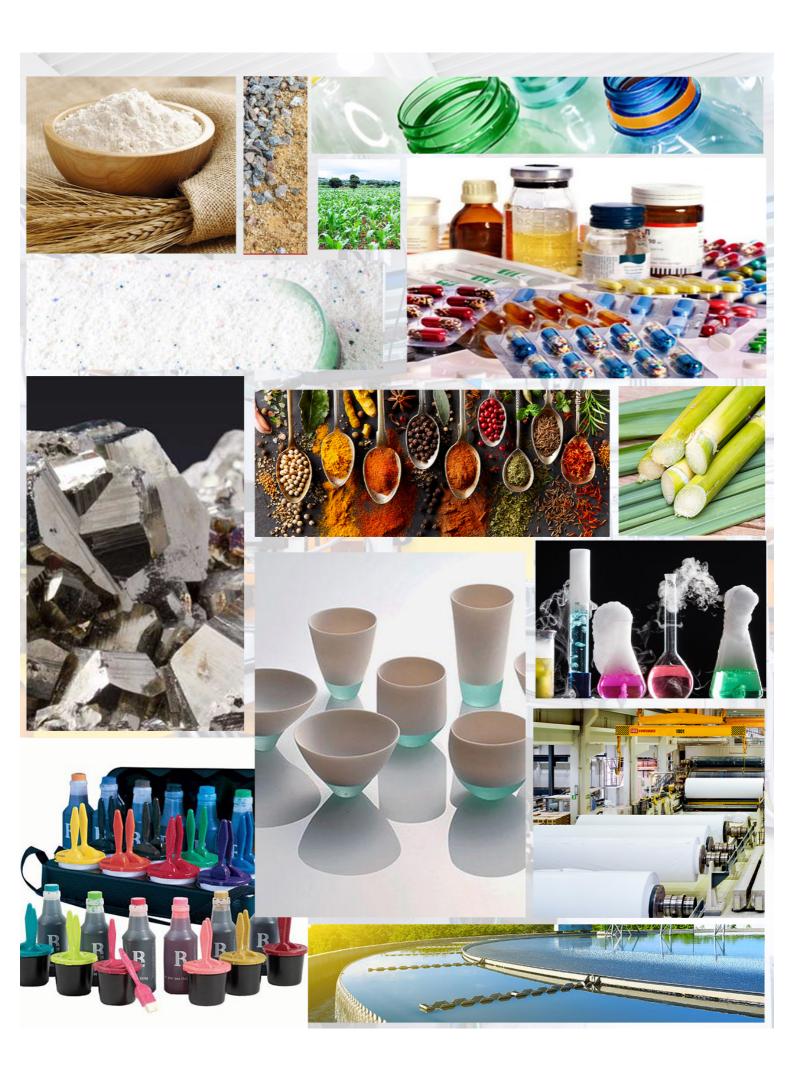
GLASS & CERAMICS

MINERAL & METAL

PAPER & PULP

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WASTE WATER



PRODUCTS

AGITATOR TANK SPICE PROCESSING PLANT

BAG DUMP STATION

BLENDERS

CONVEYORS

SELF CLEANING FILTERS

HOPPER

IBC

JUMBO BAG TRANSFER SYSTEM

MIXTURE

PACKING MACHINE

PNEUMATIC TRANSFER SYSTEM

VACUUM TRANSFER SYSTEM

PULVERIZER

SIEVING SYSTEM

SILOS

AGITATOR TANK

Our range of agitator tanks is manufactured using carbon steel and stainless steel with jacketing and internal coil for heating or cooling. Known for durability, less maintenance, easy operation and corrosion resistance, our range is in adherence with defined industry standards.



FEATURES



- DURABILITY
- LESS MAINTENANCE
- EASY OPERATION
- CORROSION RESISTANCE

SPICE PROCESSING PLANT

We are the leading enterprise indulged in providing supreme quality Automatic Spice Plant.

The offered plant is capable of cleaning, washing, pulverizing mixing, and packing of spices.

The product is designed with precision so that it performs all the above operations, at the same time retain the necessary spice properties such as taste, color as well as flavor. This plant not only reduces the labour cost but is also easy to operate and gives optimum performance.

FEATURES



- HIGH PRODUCTIVITY
- LOW ON MAINTENANCE
- LOW ON MAINTENANCE

BAG DUMP STATION

Bag Dumping Stations which will efficiently reduce material wastage and eliminate the requirement to scrub a remote dirt collection site, whereas protective workers and preventing plant contamination. we tend to are one of the dependable manufacturers, Exporters, and Suppliers of superior quality Manual Bag

Suppliers of superior quality Manual Bag
Dump Stations, the product exhibits high slitting speed,
together with sensible environmental protection.

Finely powdery materials tend to create dangerous and unhealthy dirt clouds at the unloading / discharging purpose and build pollution issues and material wastage, an easy and cheap answer is to use a Bag Dumping station that permits convenient and dirt-free unloading of manually cut baggage. The Bag Dumping station is appropriate for manually unloading the contents like powders, granules, flakes, pellets etc.

It consists of an integral hopper into that contents of the baggage are manually unloaded. The hopper is fitted with a mesh to separate skinny and long fibers. A dirt filter is mounted onto this hopper. The dirt filter operates with a reverse pulsejet cleansing mechanism. dust generated whereas evacuation of the bag, is collected onto the filter baggage and dislodged by the air pulses. A centrifugal fan mounted on top of the filter unit evacuates dust free air to atmosphere.

SPECIFICATION



SIMPLE & EFFICIENT DUST CONTROL

MINIMUM LOSS OF PRODUCT

HEALTHY WORK ENVIRONMENT

ONLINE FILTER
CLEANING

- EASY MAINTENANCE

- FAST CHANGE-OVERS
USER FRIENDLY

APPLICATIONS

PIGMENTS & DYESTUFFS

STARCH

PHARMAC EUTICALS

PESTICIDES

CALCIUM CARBONATE

SUGAR

DETERGENTS

CARBON BLACK

DAIRY POWDERS

HERBICIDES

BLENDERS

Ribbon Mixer consists of horizontal U shape mixing vessel, drive system and ribbon agitator. The mixing element is combined with inner and outer double helical ribbon agitator. The outer ribbon moves materials

into center direction and inner ribbon moves the materials in opposition

direction to shape radially and laterally movement.

Finally, the material will be discharged at center discharge valve. Ribbon Blender is an efficient and versatile blending machine for mixing of dry granules & powders homogeneously. Various materials can be mixed in ribbon mixer through a gentle way, especially in food material mixing. Furthermore, high speed chopper is also available to break some lumps during blending process.







- RIBBON AND PADDLE AGITATOR DESIGN AS ALTERNATION
- FRAGILE MATERIALS
- MAINTENANCE
- FOOD GRADE PACKING
 GLAND SEAL
- GMP DESIGN WITH FDA
 CERTIFICATE OF NON
 METAL PART OF MIXER
- DRYING/COOLING
 JACKET AND
 VACUUM DESIGN IS
 OPTIONAL
- HEAVY DUTY DESIGN
- BATCH OR
 CONTINUOUS
 MIXING PROCESS

APPLICATIONS

DRY POWDER/ SOLID PARTICLE DRY POWDER
WITH MINOR
LIQUID
ADDITIVES VIA
SPRAYING BAR

SLURRY



CONVEYORS

We are among the reputed names in the industry for manufacturing and supplying Screw Conveyor to our revered patrons. The offered conveyor is used for conveying of materials, powders while processing them in Spice and fertilizer industries. This conveyor is sturdy in construction, energy efficient and user friendly.



Z type elevators are useful for delicately conveying granular products under most hygienic condition. The overlapping buckets designed ensures no spillage, whereas the specially designed food grade PP buckets eliminates the chances of product contamination. The modular structure of the elevator ensures a high degree of flexibility regarding conveying to horizontal and vertical distances.

Z-Elevator Used for transferring free flow material (from low level to high level) like granules, powder, seeds, pulses, cereals bulk solids, chemicals, rice feed, food, grains, etc. Rigid construction. Chain locking & over load protection, vertical conveying system reduces space problem.



SELF CLEANING FILTERS

Auto Backflush Type Self Cleaning filter is constructed of filter housing filter element, back flushing valve, differential pressure gauge, differential pressure switch, dust Extraction assembly, geared motor with sensor and control panel. Filter housing can be offered in variety of materials such as various grades of stainless steel, carbon steel and alloy metal. Filter element can also be offered in wedge wire,\ multi layered wiremesh, and plain wiremesh configuration, depending upon process requirement. These filters can offer filtration level starting from 1 micron to 2000 micron. They are designed to deliver flow rate up to 2000 m3/hr or even more than that with parallel configuration.

FILTRATION

Auto self cleaning filters are designed for flow direction from inside to outside. Contaminated fluid enters into the filter housing through the inlet connection. It passes throughout the inner surface of the filter element, where suspended particles of defined micron rating are retained inside & clear filtered material comes out from filter housing through the outlet connection. Suspended particles are retained inside filter element which creates a layer of debris, resulting in an increase in differential pressure.

BACK WASHING/CLEANING

Filter element cleaning mechanism constructed of dust extraction assembly, which rotates inside the surface of filter element & moves upward- downward to ensure proper cleaning of filter element throughout the area. Dust extraction assembly is constructed of precisely designed nozzles at pre-defined distance from filter element surface.

Such nozzles are equally placed perpendicular with center pipe, which rotates with the help of geared motor at defined speed. Dust extraction assembly is also connected with back flush valve that has finally open end to the atmosphere. Once differential pressure reaches to its pre set level, control panel send signal to back flushing valve to open. With pressure difference within filter element & atmospheric pressure outside, it creates high suction inside the filter element. Due to this suction pressure, debris/cake deposited on element surface is pulled out through nozzles & finally discharge from filter housing through flushing line. With high velocity of water within nozzle create a jet pressure to remove sticky cake deposition even with small opening. This entire process of back flushing completed within 30 – 60 seconds depends upon size of filter element.

FEATURES



- SIMPLE OPERATION OF FILTRATION.
- BACKWASH / BACK FLUSH.
- LESS WASTAGE OF WATER FOR CLEANING.
- NO CONSUMABLE COST.
 - THROUGH OUT ALL TIME, EVEN DURING BACK FLUSHING.
 - CAN HANDLE HIGH SUSPENDED LOAD.

APPLICATIONS

Domestic water supply	Tooth Paste	
Reverse osmosis	Glycol	
Softening	Cooling water	
lon exchange	Reclaimed water	
Oil field	Ground water	
Paint & Inks	Surface water removal	
Solvents	Boiler backwater	
Chemicals	Swimming pools	
Latex	Landscape water	
Adhesive	Green spray	
Lubricants	Agriculture irrigation water	

SCRAPPER MECHANISM TYPE SELF CLEANING FILTER HOUSING

Scrapper Mechanism Self Cleaning
Filters are widely used for
continuous filtration requirements
without any replacement of Filter
Consumables and Exposure of
operators. Like auto backwash
filter, Scrapper Mechanism Self
Cleaning is used for preliminary
filtration following the same principle

of differential pressure; the only difference

is, it is used for applications where back washing medium is not available. In other words, Scrapper Mechanism Self Cleaning Filter is used where in one cannot introduce any additional substance for back washing.

OPERATION

The medium to be cleaned is guided into the filter by inlet, which passes from inside to outside through the cartridge gap. After filtration, the filtered fluid exits the filter housing from the top, opposite to the inlet connection and the bigger solids are separated on the surface of the triangular cartridge wires. When it runs for a certain time, the cartridge gap gets plugged up by impurities and meanwhile the differential pressure reaches its pre-set value. Then PLC inspects the signal and sends out the indication. The gear motor drives the scraper and the particles or agglomerates are skimmed from the surface, thereby keeping the function of cartridge well and keeping the cartridge gap clean.

When the impurities at the bottom of the filter increases, the drain valve opens up and the impurities are emptied successfully, which makes the system pressure achieve normality. Because of well-set position and optimum scraping angle, the rotational scraper drains off the impurities from the filter with the help of the gear motor. This avoids the burden of taking apart the cartridge and washing it, which results into successful filtration of the medium. The scraper system contains stator, PTFE scraper and spring, which are designed for automatic cleaning, and especially for the reasonable spring pressure, maximally reducing the cartridge's abrasion.

CONSTRUCTION

Scrapper mechanism type self-cleaning filter is constructed of filter housings, filter elements, drain valve, and PLC controller. Filter housings can be offered in various materials of construction such as various grades of stainless steel, carbon steel and alloy metal. Filter elements can be offered with wedge wire, sintered multi-layer wire mesh, plain wire mesh and sintered metal powder configuration. The selection is based on the requirement of filtration quality.

FEATURES & BENEFITS

- Because of automatic continuous on-line filtration, the filtration process becomes smooth.
- 2. The gear motor runs against the spring actuated scraper and the concentrated solids are drained off by the system, thereby keeping the function of the cartridge well.

FEATURES & BENEFITS

- 3. PLC control function means differential-pressure cleaning, scheduling of cleaning process and manual cleaning. The differential-pressure is an important parameter for operation and can be connected with the central control room.
- 4. Validated by practice, this filtration process is highly effective and using the wedge cartridge, it can be easily cleaned with less abrasion.
- In many fields, this filter can replace the traditional filters like sand filters, Filter press etc.

APPLICATIONS

DOMESTIC WATER SUPPLY	TOOTH PASTE	
REVERSE OSMOSIS	GLYCOL	
SOFTENING	COOLING WATER	
ION EXCHANGE	RECLAIMED WATER	
OIL FIELD	GROUND WATER	
PAINT & INKS	SURFACE WATER REMOVAL	
SOLVENTS	BOILER BACKWATER	
CHEMICALS	SWIMMING POOLS	
LATEX	LANDSCAPE WATER	
ADHESIVE	GREEN SPRAY	
LUBRICANTS	AGRICULTURE IRRIGATION WATER	

SPARKLER FILTERS

Sparkler Filter Press manufactured by us at ABISL. Equipment boasts of the advanced quality-controlled procedure supervised by verified and skilled professionals. It does the work of filtering liquid substance from solid substance at a wider scale. It is used in several industries such as food and beverages oriented Pharmaceuticals, chemical

factories, distilleries, etc. However, the Pharmaceuticalsceutical industry has more demand over these products as they need authentic equipment by specific Pharmaceuticalsceutical oriented manufacturers.

FUNCTIONING OF SPARKLER FILTER PRESS FUNCTION



- 1. Liquid is first pumped through a central channel of a cartridge from the bottom of the model.
- Suspended particles are then retained on filter plates that have the filter media on top of it.
- Peripheral holes present of platen then help to clean filtrate accumulated into the tank.

- The rest of the liquid then emerges out of the outlet present at the bottom.
- The best feature of this equipment is that there is never any contact between the wall of the filter tank and the un-filtered liquid.

FEATURES

PHARMACEUTICAL SCEUTICAL PRODUCTS NEED TO BE PRODUCED IN A VERY COMPLEX AND REGULATED MANNER UNDER A CONTROLLED ENVIRONMENT.

- 1. We take utmost care to provide best services for Pharmaceuticalsceutical industries and Pharmaceuticalsceutical oriented devices.
- 2. We satisfy all our customers and also deliver them what they need according to what has been promised.
- The entire procedure is carefully planned. The filter zero hold up is done without any kind of scavenging operation.
- 4. The filter plate cartridge is both swiftly and easily removable.
- Certain models have potentially a working pressure that is higher than the normal rate according to customer demand and customization.

The models are manufactured according to different technical specifications for better interface of our customers visiting our website. The sparkler device that operates on the basis of filter press is very similar to the Zero Hold Up Filter press because it follows a similar principle function but some of their functions have been altered to provide different kind of results.

HOPPER

This product is manufactured under the guidance of experts and in accordance with industry defined parameters. Offered range is well tested on various parameters in order to deliver flawless range to the end user. This product is dispatched in perfect packaging material for safe transportation.



INTERMEDIATE BULK CONTAINER (IBC)



The Intermediate Bulk Container is at the core of powder handling system solution. It is designed for rapid filling and emptying with washing off-line. The Intermediate Bulk Container allows all the manufacturing processes to run at the same time for optimum production efficiency. The sizes range from 150 to 3500 liter capacity and are manufactured from Stainless Steel with a hygienic and easy-clean design.

JUMBO BAG TRANSFER SYSTEM & NET FILLING SYSTEM

4 weighing Load cells.

Frame with height with manual adjustment.

Bag clamping facility with pneumatically as well as inflatable type.

Adjustable to suit different bag sizes.

Robust automated bag liner clamping system.

Bag vibration for enhanced filling & stability.

Bag inflation (air or inert gas) User friendly controls. Pallet handling & conveyor designed to suit.

Low footprint to minimize building requirements Integrated design including dust extraction, magnetic separators, metal detection with rejection.

NET FILLING MACHINE

A Net Weighed will fill a variety of open mouth bags to a predetermined weight with greater speed and accuracy than a Gross Weighed. When the operator turns on the Net Weighed the feed device automatically begins as well as closes the filling process. If a bag is in position, it then discharges the Weighed bulk product into the bag. While the bagging rate depends greatly on the material properties of the product being handled and the proficiency of the operator, an Active Weighing Solutions Net Weather can achieve up to 20 bags per minute. Made with SS 304 or 316 constructions. It Has a Dust Tight Bag Clamp and an Aspiration spout.



RIBBON BLENDER/BLENDERS (MIXTURE)

(Also named ribbon mixer) is a basic industrial mixing machine. They consist, basically, of a trough shaped shell (usually 2 to 3 times longer than it is wide) with a semicircular bottom, fitted with a horizontal longitudinal shaft on which are mounted arms supporting a combination of ribbon blades, paddles or helical screws set at a fairly close clearance to the semicircular mixer body so that no layer of material remains on the bottom of the ribbon mixer.

The most effective design of ribbon layout is the double spiral in which the outer ribbon moves the product in one direction and the inner ribbon moves it in the opposite direction. The ribbons rotate and move materials both radially and laterally to insure thorough blends in short cycle times. Ribbon agitators are used for blends that will be between 40 and 70% of the rated capacity of ribbon blender.

PADDLE MIXER



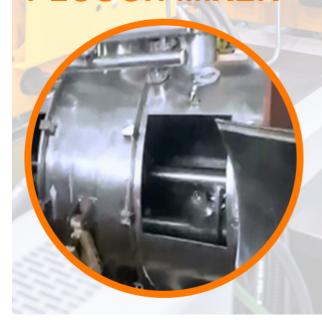
We Design the, Manufacture & supply the Paddle Mixers based on customer demand. These mixers are manufactured using high-grade raw material, which is procured from the reliable vendors of the market. Moreover, the mixers offered by us are known for their high performance, reliable functioning and efficiency.

SIGMA MIXER

These mixers are comprised of kneaders accomplished with different blades, which mix the materials perfectly with its rotational efficiency at variable speed in opposite directions.



PLOUGH MIXER



The mixer is designed for heavy duty blending of both dry and wet material. Plough shape shovels mounted on a central shaft with its sharp ends easily penetrate through the dense powder and thick pasty mass. Extra shear can be attained by adding side mounted choppers.

PACKING MACHINE

VERTICAL PACKING

When it comes to packaging, we lead the way with its high-speed, accurate ABISL PACKING.

Designed especially for the ALL Industry, ABISL PACKING is a food packaging machine that offers quick and easy tool-less changeover of size parts resulting in minimum product falling height.

It packs a wide variety of snacks and similar food products in pouch formats such as the CSPP, Gusset with D-cut and Gusset. The

perforation system makes it possible to produce chain of small pouches. SPRINT PACKING has HACCP & GMP compatible construction.



HORIZONTAL PACKING

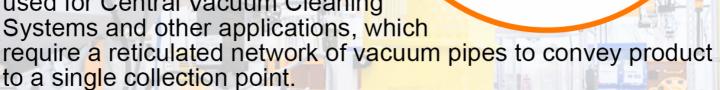


In case of Horizontal Form Fill Seal Machines, the machine operation is Intermittent. Plastic Laminated Film is drawn off a supply reel by a pair of rollers. The Reel passes over a folding plough which folds it into half.

Each Pouch gets separated from the web by a cutter and is transferred to the Rotary Turret. Each Pouch is held by a pair of Grippers while being passed from station to station which comprises of Pouch opening, Product Filling, Final Top Sealing & then Discharge onto the conveyor for product boxing and shipping processes.

PNEUMATIC TRANSFER SYSTEM

Vacuum Conveying Systems are particularly suitable for systems which convey materials at low to moderate capacities over medium distances, from multiple points to a single destination. These systems are versatile and adaptable for different materials and the low operating pressures allow lower cost pipelines and fittings. This method is frequently used for Central Vacuum Cleaning Systems and other applications, where the street of t







VACUUM TRANSFER SYSTEM

Dense Phase Pneumatic Conveying System is essentially a conveying process that transfers the material with high pressure at low velocity and high product-air ratio. It is suitable for conveying of materials that are friable, fragile, abrasive, or agglomerated in nature.

Our offerings cater to various industries and applications with installations across India and the overseas. We also offer Pulverized Coal Injection (PCI) systems for mini blast furnaces in compact designs.

Our solutions can be customized to suit the need of process and industrial applications.

Dense phase conveying system conveys bulk solids at long distances from single/multiple locations to single /multiple points preventing low material degradation. It transports abrasive materials with comparatively less wear and tear of the system and product as well. Compared to Mechanical conveying, long distance transportation is an added advantage in dense phase conveying.

PULVERIZER

The most versatile machine that is used to grind almost all materials like spices, foodstuffs, chemicals, Ayurvedic herbal, minerals and other miscellaneous materials. The grinding takes place between the high speed swinging hammers and top/side liners.

Once the particles size reduces to that of the perforated screen at the bottom, it will be discharged through the hopper.

The fineness of the material can be controlled by changing the speed of the rotor (hammer), content of serrations on liners, number of hammers and diameter of perforation on the screen.

SIEVING SYSTEM

Power Sieve is circular unitary gyratory screens used to separate solid from solid, liquid from solid and gradation dependable on particle size. This is done by vibrating it in 3 different plans within the vertical axis mounted with vibratory motor having off-centered weight at bottom and top shaft.



FEATURES

Gentle Material Handling. Robust Construction. Automatic Material Discharge less Noise. Easy Re-Meshing. Quick Release Toggle Clamp. High Throughput. Available in stainless steel (M.S., SS304, SS316 & 316L.) Low Maintenance. According to Health &Safety Standard. Matt Finish/ Mirror Finish / Paint Coating.

PHARMA & FOOD

Pharmacy Sieve is used in many laboratories and other industries where hygienic products are manufactured. Pharmacy drugs and API are screened based on the particle size.



FEATURES



- Gentle Material Handling Robust Construction.
- Automatic Material Discharge.
- Rubber Parts Certification as per USFDA Guidelines.
- Less Noise.
- Easy Re-Meshing.
- Quick Release Toggle Clamp.
- High Throughput.
- Available in stainless steel M.S., SS304, SS316 & 316L.
- Low Maintenance.
- According to Health & Safety Standard.
- Matt Finish/ Mirror Finish / Paint Coating.

VACUUM SIEVE

Vacuum Sieve is self-contained, compact machines that make precise mechanical separation according to particle size through efficient use of vibration. The process is under vacuum system for the charging & discharge application in a continuous pattern.



FEATURES



- Designed for continuous operation
- Noise less and maintenance
- Free operation.
- Dust Free operation
- Cylindrical screen for higher output.
 - Castors provided for mobility
- Flame Proof construction can be provided upon request
- Lead free sieves of required
- Mesh size can be provided

Sieve Mesh Chart APERTURE SIZE				
4	5	4.00mm	4000	
5	6	3.35mm	3353	
6	7	2.80mm	2812	
7	8	2.36mm	2411	
8	10	2.00mm	2057	
10	12	1.70mm	4000	
12	14	1.40mm	1405	
14	16	1.18mm	1204	
16	18	1.00mm	1204	
18	20	0.850mm	850	
22	25	0.710mm	710	
25	30	0.600mm	600	
30	35	0.500mm	500	
36	40	0.425mm	420	
44	45	0.355mm	355	
52	50	0300mm	300	
60	60	0.250mm	250	
72	70	0.212mm	210	
85	80	0.180mm	180	
100	100	0.150mm	150	
120	120	0.125mm	120	
150	140	0.106mm	105	
170	170	0.090mm	90	
200	200	0.075mm	75	
240	230	0.063mm	63	
300	270	0.053mm	53	
350	325	0.045mm	45	
400	400	0.037mm	37	
500	500	0.025mm	25	

RECTANGULAR SIEVE

Rectangular Sieve is used for Removing Dust, Chips & such Fine Impurities from Plastic Materials being Reprocessed or recycled especially in Injection Molding/Scrap Grinding Process. It can also be used for recovering good Granules from floor sweepings.



Rectangular Sieve is used for sieving of Polymer powder like PVC resin or compound, LLDPE Powder, PP Powder, Lamination Powder etc. PVS Compound needs to be screened after cooler/mixer to remove lumps, unmixed material, and foreign material.

Master Batch/Filler is used for removing Lumps or Long Strands and Chips, Dusting or Undercut in Extrusion. This machine is very useful in industries like Master Batch, Filler Compound, and Extruded Granules.

Control by ensuring that outgoing product is Not Too Large or Too Small. The larger pieces are retained above the first Screen and dusting chips/off cuts fall down below the lower screen thus giving main product from middle grade.

SILOS

It is made of Stainless steel and mounted on a steel structure, depending on size and requirement. Our tanks are designed to withstand the loads associated with heavy through put and are used for:





- Ground Level Storage
- Elevated Silo on Steel Structure
- Load-Out Silo's
- Drive Thru Skirted Silo's

It provides discharge with pneumatic equipment and it provides discharge capacities up to 1000 m³/h It is Suitable for storing pharmaceutical powders, food industry ingredients and other bulk material of similar kind.