

Make In India

**MAHAVIR
ENGINEERING**



Comfort packing solution

MFG. OF :- BAGGING & BATCHING PLANT, MATERIAL HANDLING, CONVEYING,
AUTOMATION PLANT



MAHAVIR ENGINEERING

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COMPANY PROFILE

Mahavir engineering have been engaged in manufacturing and supplying a premium quality range of Tiles Adhesive Bag Packing Plant, Wall Putty Bag Packing Plant, Jumbo Bag Packing & Unloading System, Sand Bag Packing Plant, Ribbon Blender & Plow Mixer, Screw Conveyor, Rotary Air Lock Valves, FRK Mixing & Granule Filling System ,Valve Types Bag Packing Machine, Powder Bag Filling Machine, Liquid Filling Machine, Liquid Filling Machine, Drum Filling Machine, Flour Bag Packing Machine, Hot Sealing Machine, Truck Loading Conveyor, Bulk Material Feeding Conveyor, Belt Conveyor, Belt Conveyor With Stitching Machine, Bucket Elevator, Granules Packing Machine, Jumbo Bag Unloading System Through Hoist, Batching System, Crane Wireless Remote Control e.t.c. Along with this, we also offer truck loading system, material feeding belt conveyor, all type of conveyor system and many more. All these products are offered to clients in varied customized models & specifications to meet the exact application demands. We also offer excellent after sales services for these industrial machines. Our range is known for high performance, easy installation, hassle free operation, low maintenance and longer functional life. Due to these attributes, these are widely used in fertilizer industries, agro products, beverages, chemical and mine industries & pharmaceutical industry applications. Our superior range of products are in Chemical Industries, Fertilizer, All Type Granule And Powder Packing, Cement, Gaur Gum, Sortex Mill, Sugar Industries, Mine Industries, Seeds, Silica Sand, Dry Mortar Construction Material Packaging, Agriculture And Dairy Industries e.t.c.

TILES ADHESIVE BAG PACKING PLANT

INTRODUCTION

An adhesive is a material that is applied to the surfaces of articles to join them permanently by an adhesive bonding process. Substance capable of forming bonds to each of the two parts when the final object consists of two sections that are bonded together. Adhesive or glue is a material, usually in a liquid, semi liquid and solid state that adheres or bonds items together. It is a substance capable of holding material together by surface attachment. Cement-based mineral adhesives were exclusively produced and applied by so-called job-site mixing technology. Job-site mixing means transportation of the individual raw materials to the job-site and then mixing on site in the appropriate ratio. Thus, cement, the most common mineral binder, is mixed with fillers (sand) before water is added to create the wet adhesive for application. Adhesives are produced in specially designed dry-mix mortar plants in which mineral binder(s) and aggregates (sand) are mixed together in the appropriate way. This factory-based process also allows different additives and admixes to be added to these adhesive to improve significantly their technical performance. Based on this technology individual dry mortars for specific applications can be produced according to formulations developed and pretested in the laboratory. Because of there is a fast-growing demand in the construction industry for new building materials and technologies, it resulted shortage of skilled workmen, the need for shorter construction times together with cost reduction, increasing labor costs, the diversification of building materials suitable for specific applications, new materials, and an increased demand for better quality of construction. Job-site mortar technology was not able to adequately meet all these requirements.

SPECIFICATIONS

- Capacity :- 5 - 10 TPH
- Rotary Dryer :- Provided
- Mixer :- 1000 - 2000 kg./Batch
- Bag Capacity :- 20 - 50 Kg. per Bag
- No. of Bags per Hour :- 200 - 400 Bags /Hour
- Layout :- Horizontal/Vertical
- Power Requirement :- 140-200 HP

MATERIAL REQUIRED

Storage Hopper, Belt Conveyor, Dryer, Load Call Hopper, Mixer, Hammer, Compressor, Screw conveyor, packing machine, Stitching Machine, Testing Machine. Portland Cement, Sand (Quartz), Dry Sand, Silica, Fibers (E.G. Cellulose Fibers), Cellulose Ether, Calcium Chloride (Calcium Format Or Lithium Carbonate), Citric Acid Or Tartaric Acid e.t.c



WALL PUTTY BAG PACKING PLANT

INTRODUCTION

Wall putty is white cement & mineral based putty for use on cement concrete - mortar interior/exterior walls for smoother & stronger adhesion and best suited to minimize paint cost and extend its durability. It is white cement based fine powder which provides an ideal finishing for concrete/cement plastered walls and ceiling. It provides an ideal base for painting. Also it is a high grade quality based on latex emulsion, and high solids content to provide excellent smoothing and filling properties to small halls cracks. Ideal for filling joints and pores surfaces which can be applied by putty knife or steel trowel to provided excessive thickness are not applied in application. Caulking compounds, putties and same cements have a boiled drying oil, usually combine with resins that act as the binder putty is the thick mixture of finally powdered calcium carbonate (whiting) and acid refined linseed oil which imparts good wetting and grinding characteristics. Wall putty is used to smoothen the surface, to fill the fine pores on the wall surface, to provide firm base for subsequent paint.

SPECIFICATIONS

- Capacity :- 5 - 10 TPH
- Rotary Dryer :- Provided
- Mixer :- 1000 - 2000 kg. per Batch
- Bag Capacity :- 20 - 50 Kg. per Bag
- No. of Bags per Hour :- 200 - 400 Bags per Hour
- Layout :- Horizontal/Vertical
- Power Requirement :- 50-100 HP

MATERIAL REQUIRED

Storage Hopper, Belt Conveyor, Dryer, Load Call Hopper, Mixer, Hammer, Compressor, Screw conveyor, packing machine, Stitching Machine, Testing Machine., white Cement, Fibers (E.G. Cellulose Fibers), Cellulose Ether ,Mixing Chemical, calcium carbonate e.t.c



JUMBO BAG PACKING & UNLOADING SYSTEM

INTRODUCTION

Bulk Bags or Jumbo Bags, also referred to as Flexible Intermediate Bulk Container are used for transporting or temporary storage of dry bulk solid materials. The bulk bags have a variety of bag loop styles, inlet spouts, discharge outlets and sizes specific to individual product characteristics. Bulk material handling equipment includes both bulk bag filling and bulk bag unloading. The EDI Packaging units features a robustly 4-way constructed support frame, a minimum of moving parts and is suitable for different bag sizes. The double-valve filling head has a fixed position with aspiration connection and bag clamping ring. It enables an efficient filling and de-aeration. The bag support frame with specially designed fixed bag loop retainers offers an easy drive-off for filled big-bags.

APPLICATIONS

Ideal for Packing of :- Guar gum Powder, Chemical powder, Plastic, Granule, Fly ash, Minerals Powder, Fertilizer, Cattle Feed, Soya Greet, Soya Doc, etc.



SPECIFICATIONS

- | | |
|---------------------|---|
| ➤ System | :- Jumbo Bag Filling Machine |
| ➤ Scope of Supply | :- Conveyor / Crane / Mechanical trolley / Storage Silo / Belt conveyor / Screw Conveyor / Rotary Valve |
| ➤ Capacity | :- 500 kg to 1200 kg , up to 2000 kg. |
| ➤ Output | :- 6-8 / 18-20 bags per hour powder / granule |
| ➤ Dimension | :- L-1500 mm X w - 1500mm X H- 2900 mm approx (Customize) |
| ➤ Filling Accuracy | :- +/- 0.2% |
| ➤ Filling Mechanism | :- Electro - Pneumatic Operate Gate, Rotary Valve , Screw Conveyor |
| ➤ Filling System | :- Load cell based, Weigh metric coarse and Fine with auto in light correction |
| ➤ Filling Mode | :- Coarse and fine filling systems apply |
| ➤ Air Supply | :- 8-10 Bar |

SAND BAG PACKING PLANT

INTRODUCTION

Sand Packing Machine which are highly applicable in various industries. We are one of the known mfg suppliers of packing machine (25-40-50 kg) of various capacity in India. At our vendors end, our offered sand is processed by using best quality raw material and advanced techniques in order to deliver high quality product. We offer this sand in different packaging options and deliver within promised time-frame.



APPLICATIONS

Ideal for sand, River sand, Quartz sand, M sand, Sillica sand, P Sand, Wash Sand, Dry Sand

FEATURES

- High quality
- High resistance to thermal shock
- Low thermal conductivity
- Machine output : 600-800 bag/hour
- Low maintenance
- User Friendly
- Easy to operate by worker.



RIBBON BLENDER & PLOW MIXER

INTRODUCTION

In ribbon blenders, solids are mechanically mixed and powdered, using a shuffle action. An agitator ribbon is embedded in a semi cylindrical trough, which is centered on a central shaft. See Figure for an example of this. While mixing, two ribbons counteract each other. Solids move slowly along one ribbon, while solids move quickly along the other ribbon. It is not necessary to join the ribbons in a continuous line. The turbulence produced by the counteracting ribbons occurs in addition to the solids moving through the trough. If the trough does not need to operate under pressure or vacuum, it can be open or lightly covered. If the trough does need to operate under pressure or vacuum, it is heavily-walled and closed. For thin pastes and powders that don't flow well, ribbon blenders are highly effective

CONSTRUCTION

There are three types of ribbon blenders: U-shaped troughs, shells, and spiral spiral agitators. Helical ribbons (also known as spirals) are welded on top of the shaft of the agitator. A ribbon stirrer is also known as a "double" helical ribbon agitator since it contains an internal and external helical ribbon. Counteracting blades are provided in order to break lumps and aggregates, but also for high shear. A motor drives the ribbon blenders, which are coupled to a gearbox and a gearbox. For 1000 kg of product mass to be blended, they are powered by motors that have 10HP to 15HP. According to the products being mixed, the specific power ranges between 3 and 12 kW/m². To prevent material from leaving the container, a Sealing arrangement is provided where the shaft exits the container. Feed hoppers are usually used to feed the material into the mixer. Bottom discharge spouts are also provided. Contact Parts in MS or SS (As per Requirement). Available in standard CGMP and customized models with SS 304/316/316L contact parts.

APPLICATION

Cement Sand, Dry Mortar, Tile Adhesive, Block Joining Adhesive, Tile Grout, Wall Putty, White Cement



SCREW CONVEYOR

INTRODUCTION

Screw conveyors move materials either horizontally, on an incline or vertically. They are used to feed, distribute, collect or mix and can be equipped to either heat or cool while performing this transfer. With the proper cover and gas cutting, they are easily made dust or weather tight and rodent proof. Their clean compact design saves valuable space since no return run is required. Screw Conveyors fit in cramped quarters, are simple to support and easy to install....and they cost less than most other types of conveyors. Screw Conveyor Corporation's performance-proven Screw Conveyors are ruggedly built and accurately manufactured to assure complete dependability.

SPECIFICATIONS

- Screw Pipe Dia. :- 100 To 200 mm (Customize)
- Screw Pipe Length :- 10ft. To 30 Ft. (Customize)
- Screw Charging Hopper :- 2 Ft. To 4 Ft. As Par Requirement
- Power :- 2HP To 5 HP. As Par Requirement
- Movable Or Fix As Par Customer Requirement
- Use To Powder Material Transfer At Height Fro 4 Ft. To 15 Ft.



ROTARY AIR LOCK VALVES

Mahavir Engineering providing equipment Airlock Valves. Designed in conformation with international quality standards these are highly renowned for operational fluency, negligible maintenance and longer service life. With the assistance of our advanced & high productive machinery and experienced professionals, we are able to produce our range in line with international standards.

APPLICATION

Lean Phase Pneumatic Conveying System is preferred mode of conveyance the material in various industries such as, Pharmaceuticals, Chemical Industries for Powder Transfer , Paper Industries, Textiles - Boiler Feed Operations, Cement industry, Aluminum plants, Chemicals and fertilizers, Plastic processing industry & Material Conveying Systems.

SPECIFICATIONS

- Rotary Valve :- 100 NB up to 600 NB
- MOC :- Cast iron, M.S., Stainless Steel (SS)
- Power :- 0.5 HP up to 5 HP



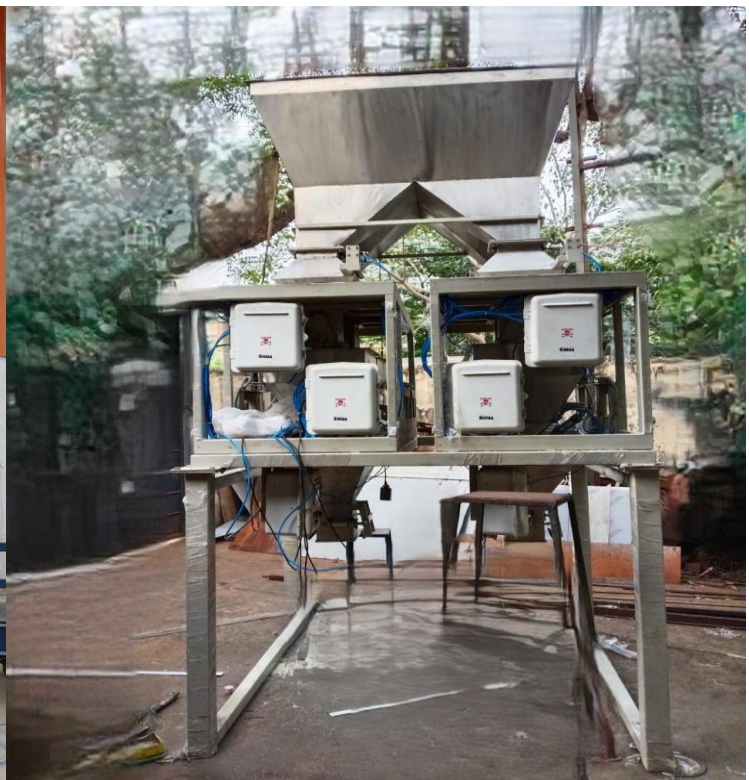
FRK MIXING & GRANUAL FILLING SYSTEM

APPLICATIONS

Ideal for Packing of : Rice, Wheat, Grain, Plastic Granules, Cotton Seeds Oil Cake, Puff Rice Packing Poha Packing, Seeds Oil Cake, Cattle Feed, None Free Flow Products, Sugar, Fertilizer, Plastic Granules, Crystal Salt, Seeds, Different Type of Grain etc. All Type of Grains & Granules.

SPECIFICATIONS

- System :- Bag Filling Machine
- Scope of Supply :- Bag Filling Machine 3 mtr Slat / belt Conveyor with Bag Closure Stitching machine , Screw Conveyor, Storage Silo , Bucket Elevator
- Capacity :- 25kg, 25 to 70kg for BWFS 05 & 5kg to 10kg for GFM 06
- Output :- 3-4 / 8-10 Bags per minute
- Dimension :- L- 1800 mm x W-1200 mm x H-2700 mm approx (Customize)
- Filling Accuracy :- Up to 2E , +/- 0.2 %
- Filling Mechanism :- Electro- Pneumatic gate , coarse and fine gate filling system apply
- Filling System :- Load Cell based , weight fill in hopper and drop
- Filling Mode :- Coarse, and Fine filling and then drop automatic in bag , after that bag clamp opening
- Power Supply :- Bagging Machine-230 V AC, 50 Hz., Conveyor-440 V, 3-phase (2 HP).
- Air Supply :- 5-6 Bar



VALVE TYPES BAG PACKING MACHINE

INTRODUCTION

valve bag filling machines; enable powder and granular materials to be filled into various types of bags with fast and precise weighing. It is used in the packaging of products such as plaster, cement, chemical products, granular or powdered foodstuffs and dry powder. Valve bag filling is used to fill valve type bags. Bags such as Kraft, PP, PE are used in the vented bag. It is packaged between 25 and 50 kg according to the bag quantity. Feeding-weighing process is done automatically. More than one weighing pan system can be used according to the capacity. Weighing is done by weight measurement. The weighing process is controlled by the panel on the scale.

APPLICATIONS

Ideal for Packing:- Powder Material like, Wall Putty Powder , Gypsum Powder ,Construction Chemicals ,Lime Powder ,Refractory Material ,Minerals Powder ,White Cement, Cement , Fly ash , Dry Material , Tile Adhesive, Construction Chemicals , China Clay , Pop Powder e.t.c

SPECIFICATIONS

- | | |
|---------------------------------|--|
| ➤ System | :- Valve Type Bagging Machine |
| ➤ Capacity | :- Max : 50 kg , Min : 20 Kg |
| ➤ Accuracy | :- +/- 0.2% |
| ➤ Number of Filling | :- 2-3 bag/min Powder, Depend on Material |
| ➤ Filling Valve | :- Screw or Motorized & Pneumatically operated Gate |
| ➤ Features of the Control Panel | :- Coarse & Fine set , weight set , bag count , LED Display , start :- |
| ➤ Weighing Sensor | stop control Load Cell |
| ➤ Dimension | :- L – 1800 mm X W – 1200 mm X H – 2700mm |
| ➤ Power | :- 230 V AC, 50 Hz |
| ➤ Air Supply | :- 5- 6 kg / cm ² |



POWDER BAG FILLING MACHINE

APPLICATIONS

Ideal for Packing of : Guar gum Powder, Chemical powder, Granule, Fly ash , Minerals Powder, Fertilizer, Rice Flour, Wheat Flour, Bussan Atta, Soya Flour, PVC Res in Powder, Dry Mortar, Tile Adhesive, Mortar, Cements sand Material etc.

SPECIFICATIONS

- System :- Powder Bag Filling Machine
- Model :- Dual weighing with dual discharge
- Processes :- Motorized Screw Feeder with Pneumatic Controlled Gate & Motorized Stirrer Systems apply
- Capacity :- 25 kg. to 50 kg.
- System :- Load Cell Based, Weight metric Filling
- Mode :- Coarse & Fine with Auto In light Correction
- Digitizer :- Advanced 8 bit Micro Controller with Dual Weighing
- Power Supply :- 1 Phase / 230 V/ 3 HP
- Dimension :- L- 1800 mm X W – 1200 mm XH – 2700 mm



LIQUID FILLING MACHINE

APPLICATIONS

Ideal for Filling of : Oil, Liquid, Chemicals, Tin, Jar, Bucket

SPECIFICATIONS

- System :- Oil Filling System
- Process :- 2 Speed Motorized Gear Pump with Non Drip Valve
- Filling Mechanism :- Flow control Pneumatic Solenoid Valve Coarse and fine system
- Capacity :- 5 Liter to 20 liter
- System :- Load Cell Based, Weight-metric platform
- Mode :- Coarse, & Fine with Auto In light Correction
- Number of filling :- 2 to 3 tin / min.
- Accuracy :- 2 E , + / - 0.2 %
- Power Supply :- 1 Phase / 230 V
- Dimension :- L – 700 mm X W - 700 mm X H - 1200 mm



DRUM FILLING MACHINE

APPLICATIONS

Ideal for Filling of : Oil, Liquid, Chemicals, Bitumen

SPECIFICATIONS

- Capacity :- 50kg./ltr. to 300kg./ltr.
- Fill Accuracy :- Better than + / - 0.2% FSO
- Display :- 0.5 mm height (7 segments LED)
- Load Sensor :- Strain Gauge Based Load sensor Auto/Manual
- Fill Mode :- 1 fillings per 4 to 5 minute (Depends on the flow available)
- Number of Fillings :- SS with Teflon Lining
- Filling Valve :- 5-50 degree C
- Operating Temp :- 6-8 bar
- Operating Pressure :- 230 V AC, 50 Hz +/- 10%
- Power Supply :- 500 x 500 mm and 750 mm x 750 mm
- Platform Size :- As per Customer Requirement
- Roller conveyor for unloading drum :- 750 mm x 1200 mm standard for unload filling drum 230kg
- Roller conveyor on platform size :- 750 x 750 mm
- Roller diameter. :- 50mm



FLOUR BAG PACKING MACHINE

APPLICATIONS

Ideal for Packing of :- Flour, Fertilizer Powder & Chemical Powder

SPECIFICATIONS

- System :- Bag Filling System
- Scope of Supply :- Bag Filling Machine 3 mtr. Slat/Belt Conveyor with Bag Closure
- Capacity :- 5kg. to 10kg.
- Output :- 4 - 5 Bags / Min.
- Dimension :- L - 900mm x W - 900mm x H - 2700mm Approx
- Filling Accuracy :- Up to 2E
- Filling Mechanism :- Electro - Pneumatic
- Filling System :- Load Cell Based, Weigh Metric Coarse & Fine
- Filling Mode :- Coarse, Medium and Fine with Auto in Light Correction
- Air Supply :- 5 - 6 Bar



HOT SEALING MACHINE

APPLICATIONS

Ideal for Seal of : 5kg. to 50kg. Bag

SPECIFICATIONS

- Sealing Width :- 300 to 700 mm
- Sealing Speed :- 3 to 4 Beg / min.
- Max Conveyor Load :- 50 kg
- Conveyor Belt Width :- 350 mm
- Temp. Rang :- 0-250 degree C
- M/C Dimension :- 800 x 380 x 840 mm, Customized
- Power :- 50 Hz 10 200V / 5A
- Operating Pressure :- 6-8 bar



TRUCK LOADING CONVEYOR

SPECIFICATIONS

- Length :- 26 Ft. std (Also Customized) Width - 600mm
- Discharge Height :- 6 To 10 Ft Adjustable
- Charging Height :- 2 Ft.
- Power :- 3 HP
- Belt :- 8 mm (Thick Rubber or Green PVC)
- Height Adjusted by Mechanical Screw Jack / Hydraulic
- Also MFG As per Customer Require
- Use To Load Bag / Box In Truck And Container



BULK MATERIAL FEEDING CONVEYOR

SPECIFICATIONS

- Different Capacity :- 10t To 20t / Hour
- Material Loading In Container Height :- 13 Ft.
- Belt :- Green PVC / Black Rubber
- Width Of Conveyor :- 600mm
- Movable On Wheel
- High Volume Charging Hopper
- Material Load By JCB or Tractor Loader
- Use To Lose Material Load In Container or liner bag



BELT CONVEYOR

SPECIFICATIONS

- Length :- 3 Ft . to 200 Ft. (As per requirement)
- Width :- 200mm to 900mm (Customize)
- Belt :- Green PVC / Black Rubber
- Straight Height :- As per requirement or Horizontal
- Power :- As per Length & Load Gear louse Motor use
- Use To Transfer Bag Fast And Transfer Material



BELT CONVEYOR WITH STITCHING MACHINE

SPECIFICATIONS

- Height Adjustable
- Fit With Panel On Stand
- Single Needle And Double Needle Stitching Machine.
- Motor :- 0.5 Hp
- Operated By Foot Switch
- When Bag Pass On Conveyor Stitch Bag
- Conveyor And Stitching Machines Operated By Panel
- Belt - Green PVC / Black Rubber / Slat Conveyor
- Use To Stitch Bag 200 To 450 Bag Per Hour
- Brand:- Heavy Duty & revo stitching machine



BUCKET ELEVATOR

INTRODUCTION

Mahavir Engineering has been designing and manufacturing a multitude of bucket elevators for over 75 years with hundreds in service today. We offer a complete line of Industrial elevators to efficiently handle a wide range of dry free flowing materials in a relatively small space with minimum horsepower. These industrial elevators include centrifugal discharge and continuous discharge with chain or belt mounted buckets. Our elevators can be supplied with either boot or head take-ups. Martin additionally offers a line of industrial high-speed centrifugal grain elevators in both single leg and double leg designs.

APPLICATIONS

Mill Duty-centrifugal discharge elevators are also available for your tough applications. The mill duty elevator is specifically designed and built for the severe service required by the cement, rock, fertilizer, lime, gypsum, coal and fine ore industries.

SPECIFICATIONS :

- Available In Different Size And Construction
- Bucket Size :- 6"x4"x3" | 8"x4"x3" | 10"x6"x3" | 12"x6" X5"
- Capacity :- 3 Ton/Hr | 4 Ton/Hr | 5 Ton/Hr | 8 Ton/Hr
- Height Of Elevator :- 10ft., 12ft., 15ft., 18ft., 20ft. (up to Requirement)
- Use To Load Material At Different Height



GRANUAL PACKING MACHINE 250GM TO 2 KG

APPLICATIONS

Ideal for Packing of :- Rice, Seeds, Sugar, Fertilizer, Different type of Grain etc.

SPECIFICATIONS

- System :- Powder / Granule Filling System
- Model :- Dual Weighing with Single Discharge
- Processes :- AC Drive Controlled Screw 2 Speed / Vibratory Feeder
- Capacity :- 500gm to 2kg.
- System :- Load Cell Based, Weight Metric



JUMBO BAG UNLOADING SYSTEM THROUGH HOIST

SPECIFICATIONS

- Model Name :- Jumbo bag unloading system
- Size :- 1800 x 1800 mm and 6 meter height
- Hopper :- Hopper capacity 300 kg to 2000kg
- Capacity :- 1t to 10 ton per hour or 1 to 10 bag / hour Brand
- Lifting system :- move by up down and left right side by four press button
- system :- Pneumatically operated actuator petals massage the lower portion of the bag to promote material flow toward the center of the bag. MS / SS
- Structure :- Structure with platform and staircase for easy operation two side reeling for jumbo bag clamping and dumping
- Driven Type :- Electric / pneumatic type

APPLICATION

- For charging of silo , hopper and mixer
- For convert in to 50 kg bag
- For convert in small bucket
- For charge material in reactor vessel



PULVERISER

INTRODUCTIONA

Pulveriser is a mechanical device for the grinding of many different types of materials. Grinding mills use one , two or all three of the basic principles of particle size reduction namely impact, attrition and crushing. With respect to speed these machines may be classified as low speed, medium speed and high speed. Pulverizer is a grinding machinery used widely for powdering of dry red chilies, spices, food, herbs, plant materials, animal feed materials desired for manufacturing cakes, husks, pulses, cereals, seeds, saw dust, coconut shell, minerals, chemicals etc. India produces almost all the known grinded spices and Pulveriser is the main machine for the purpose of grinding.

HAMMER MILL

Hammer mills are used for primary and secondary crushing of different types of material in almost all industrial sectors. Feeding materials are Hard coal and lignite in coal processing. The material passes through the feed opening into the striking arc of the rotating hammers.

