

AYSHA
ENGINEERING WORKS

ISO:9001:2015 



**"The Grain Processing machinery Expert"
Machine**

CLASSIFIER SEPARATOR



MODEL	SCREEN (DECK)	REQUIRED (HP)	CAPACITY (T/H)
C2-100/200	2	0.5+0.5=1	3-4
C3-100/200	3	0.5+0.5=1	3-4
C2-150/200	2	1+1=2	5-6
C3-150/200	3	1+1=2	5-6



Classifier Separators are used for a wide range of applications such as removing large impurities like stick, buck & leaves and are also used for removing fine dirt and sand from products in seed cleaning plants and seed processing plants like wheat, cumin seeds, fennel seeds, sesame seeds, mustard seeds, corn (maize), soybean, millet, rice, pulses etc.

These machines incorporate vibrating screens where the top screen performs the function of removing oversize material and the bottom screen removes fine dirt and sand.

There are vibratory motors that are mounted in the center for vibration of the decks containing the screens. There are four hollow rubber springs on which the vibrating deck is mounted.

This ensures that the vibration of the machine frames is reduced to a minimum. A swing down type door is also provided to ease changing or cleaning of screens.

The screens and wearing parts of the Classifier Separators can be changed quickly and easily. In addition, there are no lubrication points required, thus maintenance is reduced to a minimum.

During the entire process, an automatic cleaning system employing rubber balls ensures continuous and effective cleaning of the screens.

Hence the output increases while the maintenance requirement simultaneously decreases.



ASPIRATION SYSTEM

ASPIRATION CHANNEL



ASPIRATION BOX



CYCLONE SEPARATOR



HORIZONTAL CYCLONE (MANA)



BLOWER FAN



AIR LOCK



DE-STONER



MODEL	SCREEN (DECK)	REQUIRED (HP)	CAPACITY (T/H)
D-100/120	2	0.5+0.5=1	2-3
D-120/120	2	0.5+0.5=1	4-5



De-stoners are mainly finds application in the seed handling industries wherein stone, metal, glass and other high density impurities have to be removed from seeds before processing. Through its excellent cleaning of the raw materials, the De-stoner creates the conditions required for achieving a high end product purity and thus for complying with food safety standards.

These machines are characterized by its wide variety of possible applications. Beside standard applications for wheat, corn (maize), soybean the machine can also be used for cumin seeds, fennel seeds, sesame seeds, mustard seeds, millet, rice and pulses etc.

There are vibratory motors that are mounted on the front center for vibration of the decks containing the screens. This ensures that the vibration of the machine frames is reduced to a minimum. Screens can be easily changed or cleaned by pulling it from the back of machine.

MAGNETIC DE-STONER

MODEL	WIDTH OF THE BELT (MM)	REQUIRED (HP)	CAPACITY (T/H)
MD-70	700	1.5	1-1.5
MD-100	1000	1.5	2-3
MD-120	1200	1.5	3-4
MD-150	1500	1.5	4-5



Magnetic De-stoners are mostly used to remove mud balls, black sand, iron particles, nails, wires etc from products in seed cleaning plants and seed processing plants like wheat, cumin seeds, fennel seeds, sesame seeds, mustard seeds, corn (maize), soybean, millet, rice, pulses etc.

In Magnetic De-stoner, a short conveyor belt envelopes the magnetic roll and tensioning ideal rolls. A suitable feeder discharges material on the belt. The ferromagnetic and paramagnetic particles adhere to the belt while the nonmagnetic particles flow freely off at the end of the conveyor.

GRAVITY SEPARATOR



MODEL	FAN	REQUIRED (HP)	CAPACITY (T/H)
GS-1	1	5	1
GS-3	3	5+1=6	2
GS-5	5	5+1=6	3
GS-7	7	10+2=12	4



Gravity Separators are used for separating products that are of the same size but with a difference in specific weight.

It can be used effectively to remove partially eaten, insect damaged, immature or broken seeds to ensure maximum quality of the final product. It may be used to separate and standardize coffee, peanuts, corn, peas, rice, wheat, sesame, cumin seeds and other food grains.

Gravity Separators separate any kind of kernels and granular products with nearly the same size according to the specific weight. The size of the kernels is normally between 0.5 mm (fine seeds) and 20 mm (beans). The product processed by the Gravity Separator is separated into layers with different specific weight according to the "Fluid Bed" principle. The fluid bed is built up due to the linear motion of the eccentric drive and the air, which is blown through the wire mesh or textile cloth. This separation gives a spectrum from light to heavy material. Due to the conveying system and the inclination of the deck the light material in the top layer moves down to the low side and the heavy material in the bottom layer moves up to the high side of the deck.

These machines have a rectangular deck so that the product travels a longer distance resulting in cleaner separation of light and heavy particles and the lowest percentage of middling. The product flows over the vibrating deck in which pressurized air is forced through causing the material to stratify according to its specific weight. The heavier particles travel to the higher level and the lighter particles travel to the lower level of the deck.

In order to obtain efficient separation by specific weight, the pressurized air supply needs to be accurately adjusted and this is accomplished by having individually adjustable air fans to control the volume of air distribution at different areas of the vibrating deck.

There are two motors used in these machines. One is for the blower fans and the other used for the deck. The table inclination, speed of eccentric motion and the feed rate can be precisely adjusted with ease and minimum of operator training.

HAMMER MILL (PULVERIZER MACHINE)



MODEL	REQUIRED (HP)	CAPACITY (T/H)
HM-10	10	1
HM-15	15	1.5
HM-20	20	2
HM-30	30	3

The purpose of Hammer Mill is to shred or crush aggregate material like wheat, corn (maize) etc into smaller pieces by the repeated blows of little blades. These machines are mostly used for cattle feed making.

Hammer Mill is composed of a grinding chamber, blades and foundation bed and motor. The motor is installed on the foundation bed. At the same level, the grinding chamber is mounted on the other side of the foundation bed. The grinding chamber shares the same shaft with the motor.

Hammer Mills consist of a series of blades hinged on a central shaft and enclosed with a rigid metal case. The materials to be milled are struck by these blades, which rotates at high speed inside the chamber. These radically swinging blades move at a high angular velocity causing brittle fracture of the feed material.

RIBBON MIXER

Ribbon mixers are a specific type of blenders that consist of two parts mounted on a central shaft. The mixing medium often consists of inner and outer helical ribbons that are designed to move material both inwards and outwards. The external helical ribbons put product from the sides of the mixer into the middle and the internal ribbons push product back to the sides. The back and forth folding motion of the materials to be blended creates a convective mixing pattern.



The central shaft is attached with geared motor. All bearings are of the universal flange cartridge type which are known for their lifetime lubrication.

ELEVATORS

BUCKET ELEVATOR



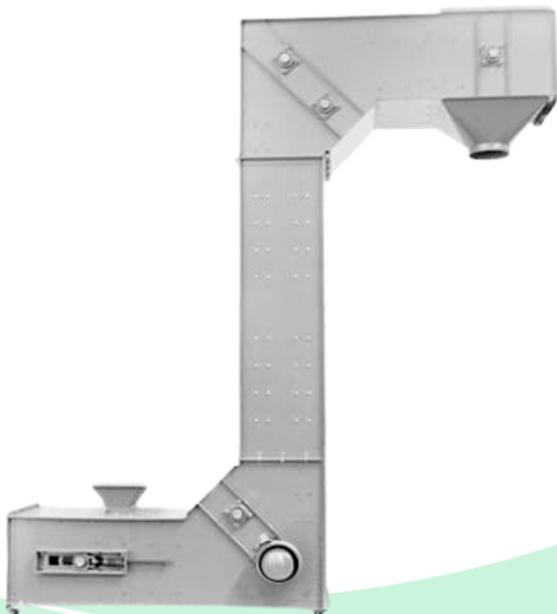
Elevators are highly functional and are have various applications like vertical lifting of materials such as wheat, cumin seeds, fennel seeds, sesame seeds, mustard seeds, corn (maize), soybean, millet, rice, pulses etc.

Elevators are designed like a construction box with standard length leg sections for easy assembly. It has three sections - top or discharge section, middle or trunk section and the bottom or intake section. The trunk sections can be added or removed to adjust the height of the elevator.

It has an all-steel frame for rigidity with cross supports at regular intervals between the legs also doubling as built-in ladders. The belt has been made from white food mounted rubber coated, multi-ply synthetic fiber.

Buckets have been attached at regular intervals and run over top and bottom crowned pulleys. Buckets have been created from PVC that is attached to the belt by locking type bolts that sit flush with the belt face. It is provided with an enclosed geared motor. All bearings are of the universal flange cartridge type which is known for its lifetime lubrication.

Z-TYPE BUCKET ELEVATOR



C-TYPE BUCKET ELEVATOR



SEED CLEANING MACHINERY

DRUM SIEVE



JOHN FLOUR (PRE-CLEANER)



RILL MACHINE



MUCHH CUTTER



SCREW FEEDER



PULSE MILL MACHINERY

EMERY ROLL



LATHER POLISHER



FATKA MACHINE



SCREW CONVEYOR



MAGNET BOX



BELT CONVEYOR



FLOUR MILL & BESAN MILL MACHINERY

ATTA CHAKKI



PIN MILL



CENTRIFUGAL SIFTER



PLANSIFTER



SCOURER MACHINE



PLANT PHOTOS





MANUFACTURER OF

- SEED CLEANING PLANT
- SORTEX PLANT
- PULSE MILL PLANT
- BESAN MILL PLANT
- FLOUR MILL PLANT
- ATTA CHAKKI PLANT
- FOOD PROCESSING MACHINERY



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