

## Vibro Sifter



### **Vibro Sifter, Vibro Screen:**

Vibro separators are circular gyratory screens used to separate solids from solids and liquid from solid. Vibro Sifter consists of Specially Designed Motor mounted vertically at the center of the base plate of the Screen. The Screen is in between feeding hopper and bowl. The material is fed on to the centre of top screen. The undersize material passes rapidly through the screen during its travel to the periphery. The over size material get continuously discharged through a tangential outlet. This is achieved by specially designed Vibratory Motor along with eccentric Top and Bottom Weights.

### **Working Principle :**

The top weight on the motor shaft rotates in a plane close to the centre of the mass of assembly. Rotation of the top eccentric weights creates vibration in the horizontal plane which causes material to move across the screen cloth to periphery increasing the horizontal throw, causing oversize material to discharge at a faster rate. The bottom eccentric weight rotates below the centre of mass creating tilt on the screen giving vibration in vertical and tangential plane. Increasing the vertical component of motion, this promotes turn over of material on the screen surface helping maximum quantity of undersize material to pass through the screen. Rugged Springs placed over the circular motor base amplifies the vibration.

### **Special Features of Vibro Sifter :**

- . Faster Separation due to springs
- . Multi deck models available
- . Same sieve as used in Mechanical sifter.
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- . Conventional Sifter.
- . Simple & Compact construction

### **About Vibro Screen :**

Vibro Screens are designed to perform effective size based separation in coarse as well as fine sizes. Vibro Screens use wire mesh or perforated or slotted sheets for carrying out separation of material on basis of size. Vibro Screens are designed on the principle of Gyrotory Motion and are one of the most versatile and universally adaptable machines working across spectrum of industries.

Vibro Screens can carry out various duties including screening of any powder or granules, sifting and grading or classification, removal of oversize/ foreign material before packing your finished product, lump/ undersize/ chips/ dust removal from powder/ granules, solid liquid separation/ filtration/ grit (Un-Ground Material) removal from slurry, syrup or oils, fiber / husk recovery from liquid stream.

Vibro Screens are used by Industries like Pharmaceuticals, Agro, Agro Processing, Ceramic, Chemical, China Clay, Dehydrated Food, Dyes and Pigments, Ferro Alloys, Foundry, Engineering, Food, Mines and Mineral, Metal Powder Processing, Plastic, PVC, Petrochemical, Paper, Rotomolding and many more.

Vibro Screens are very versatile process equipments and provide reliable and economical solutions for spectrum of size based separation operations performed in most of the industry sector / applications due to its flexibility and distinctive advantages. Vibro Screens are your best bet for performing the operation of Classification, Grading, Oversize/undersize Removal, De-dusting, De-watering, De-lumping, Fiber Recovery, Fibre Separation, Continuous Filtration or any type of SIZE based separation.