

# MAGWELL INDUSTRIE

## Gyratory Screen Separator



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## Vibrating Screen Separator

[www.magwellindustries.com](http://www.magwellindustries.com)



*MAGWELL separators are circular screen separator. It is ideal for solids/solids and solids/liquids applications. Gyratory screen 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 oversize material get continuously discharged through a tangential outlet. This is achieved by specially designed Vibratory Motor along with eccentric Top and Bottom Weights.*

### ✦ **Main Features of Gyratory Screen Separator.**

The GSS mainly consists of unbalanced electric motor, Grading mesh, helical springs and structure. The GSS selected is 1 to 6 feed material bulk density, moisture and capacity.

Unbalanced electric motor (UEM) consists standard bearing series are over dimensional in relation to the high speed and strain of strong load to offer increased operational reliability

Steel Unbalanced Counter weight fixed at both side of the Motor with the provision for regulation of the oscillation from zero to maximum Vibratory force by easy adjustment

UEM drive shaft is made of EN 8 Material of tested quality in order to withstand high torque depending on centrifugal force is achieved.



## WORKING PRINCIPLES:

Rotation of the top eccentric counter weights creates vibration in the horizontal plane which causes material to move across the screen cloth to periphery increasing the horizontal throw, causing oversized 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 turnover 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.

## FEATURES

*Low Space Requirements*

*Lower Noise Levels*

*Dust Proof Enclosed System*

*Accurate Separation Efficiency*

*Lesser Maintenance and Power Consumption*

*Ball Tray for Anti-Blinding*

*Multi Deck Models Available*



## THE SCREEN CASES

The outside screen case is suspended from the inner screen case by guide springs, allowing horizontal movement. The inner screen case is supported on the supporting jack by means of rubber insulating springs. To avoid spattering grain, the machine is covered.

The individual sections of the cover can be removed to get easy access for maintenance works. Optionally it is possible to deliver a dust-proof cover.

## APPLICATIONS:

### Industry:

All kinds of medicine

### Chemical industry:

Resin, Pigment, Cosmetic, Coatings, Medicine powder

### Food industry:

Sugar powder, Starch, Salt, Rice noodle, Milk powder, Egg powder, Sauce, Syrup

### Metallurgy, Mine industry:

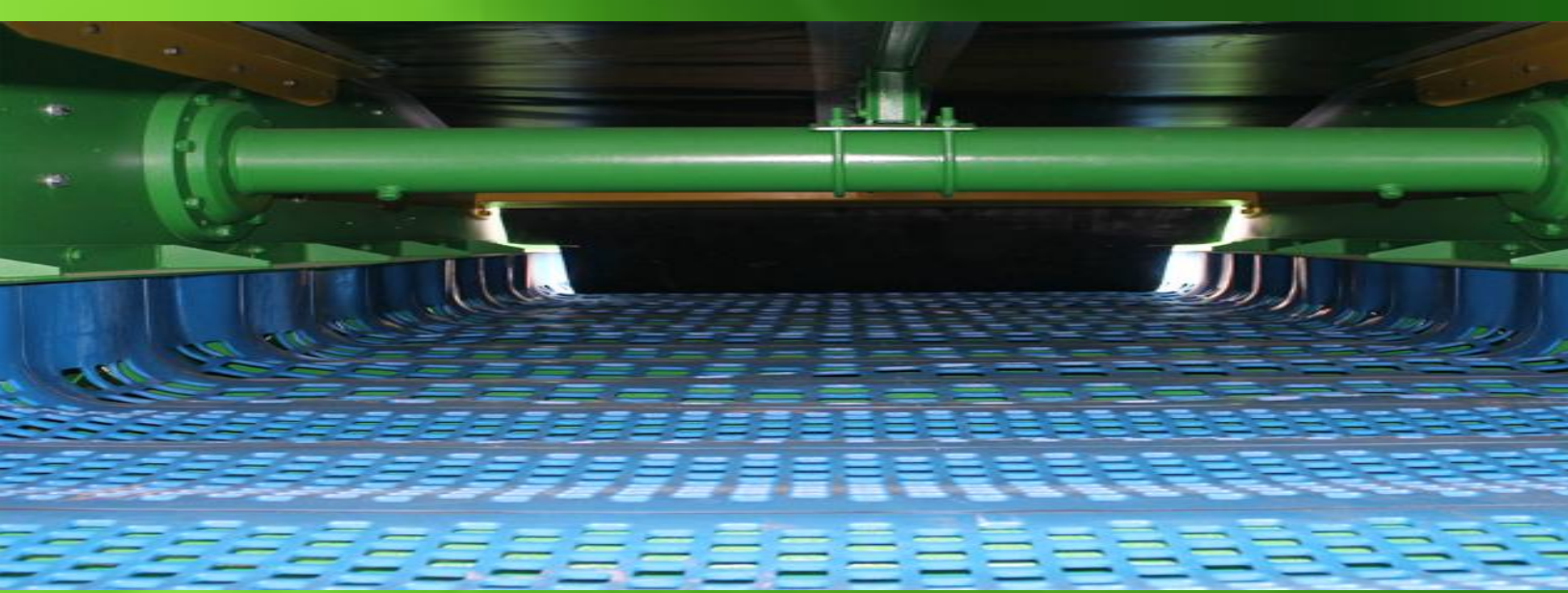
Aluminum powder, Copper powder, Ore alloy powder, Welding rod powder

### Medicinal Waste treatment:

Disposed oil, Disposed water, Disposed dye waste water, Active carbon



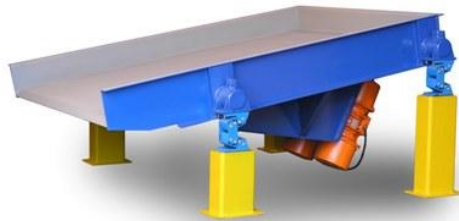




## OUR RELATED VIBRATING EQUIPEMNT



GRIZZLY FEEDER



VIBRATING FEEDER



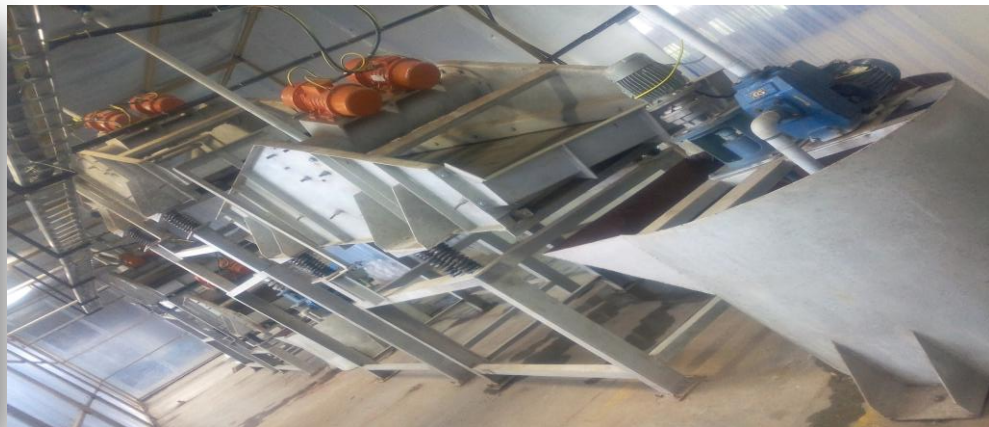
LINEAR SCREEN



GRIZZLY SILO FEEDER



Scrow Conveyour Rotary Airlock Valve



Vibrating Screen Separator Unite

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