



Vibro Screens

For Grading Of Dry & Wet Materials



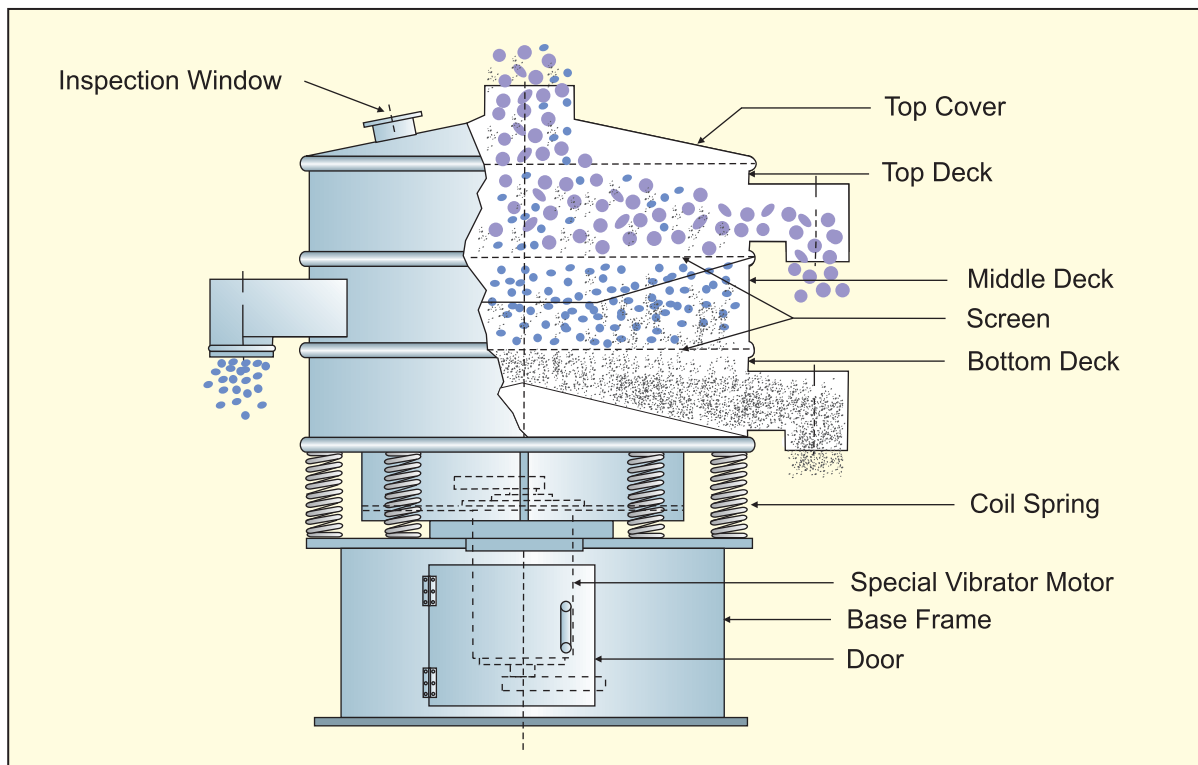
SAIDEEP

Technology that lays the foundation of your dreams

Saideep Vibro Screens

Principle Of Operation

SAIDEEP VIBRO SCREEN incorporates of advanced technology in screen design. The multiplane mechanical vibrations are obtained by special motor with shaft extended on both sides having eccentric adjustable weights. The motor is mounted in vertical plane. The complete assembly of screen frames and motor rest on a rigid circular base through a set of coil springs which allows the system to vibrate freely in multi-direction. While the upper eccentric weight on motor imparts horizontal motion, the lower eccentric weight adds to vibrations in vertical plane. The net result is high screening efficiency. The flow pattern of the powder on the screen surface is controlled by varying the position of bottom eccentric weight as explained later.



Unique Features :

Perfect separation :

Due to advanced vibration technology the separation is near perfect.

Long screen life :

The screen cloth is held in the frame very tightly by a special process. This gives long life to the screen.

No clogging of screen :

As the screen vibrates in multi plane the holes of the screen remain clear. Additional antiblinding system is provided for difficult to screen and wet materials.

Compact design :

This screen occupies less than half the spaces as occupied by any other screen of same capacity.

Useful in wet screening :

The screen works on solid-liquid separation efficiently.

Replacements of screen frames :

Replacing or adding of extra deck and screen frame is simple operation. Even lower deck could be changed without disturbing the upper deck.

Multi purpose versatile use :

Due to its unique design, the same screen can be put to multi purpose use.

Totally enclosed pollution free :

The screen is totally enclosed so that no dusting takes place even in the finest classification.

Economy in power consumption :

This design of machine consumes less power than other traditional screens of identical capacity.

Material of construction :

The screen is normally manufactured using all the contact parts of AISI 304 stainless steel. However, screen in M.S. Construction can be manufactured on request due to cost consideration. MOC in SS 316 & SS 316 L is also available.

Silent operation :

The machine has perfectly designed coil springs so that no vibrations are transferred on the floor.

User Industries & Application

- **Pharmaceutical Industry** : Various fine chemicals, Aspirin, DCP, Menthol, Vitamins, etc.
- **Paint Industry** : Pigments, Emulsions, Aluminium paste, Varnish, Solvent, etc.
- **Ceramic Industry** : Potters slip, Glaze, Bentonite, Alumina, etc.
- **Printing Ink Industry** : Ink, Colours and Solvents.
- **Food Industry** : Coffee, Tea, Cocoa, Chocolates, Edible Oils, Milk, Starch, Yeast and food Additives etc.
- **Paper Industry** : Wood chips, Pulps, Fiber etc.
- **Rubber Industry** : Various chemicals and adhesives.
- **Abrasive Industry** : Sand, Carbide, Ores & Chemicals.
- **Brewery** : Barley, Grain Waste, Caustic Soda & Yeast.
- **Chemical Industry** : Pesticide, Catalyst agents, Solvents and Raw chemicals.
- **Plastic and Petroleum Industry** : PVC, HDP, LDP, Petro chemicals and in off-shore oil exploration.

Screening Patterns :

Adjustment of top & bottom weights in accordance with the following diagrams

(Examples of screen patterns for average materials)

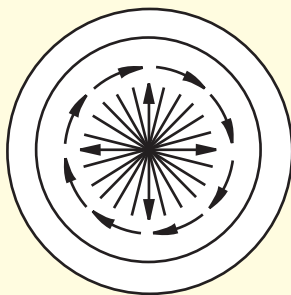


FIG-1- 0° LEAD
Material Travels Radially

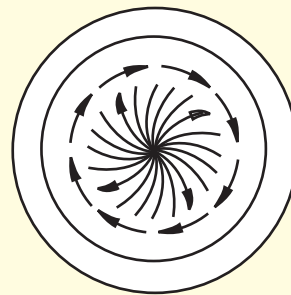


FIG-2 - 15° LEAD
Material Travels Takes Longer Time

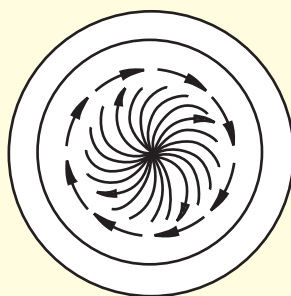


FIG-3 - 45° LEAD
Material Moves In Spiral Design

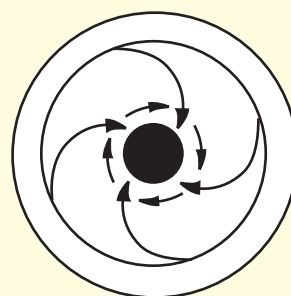
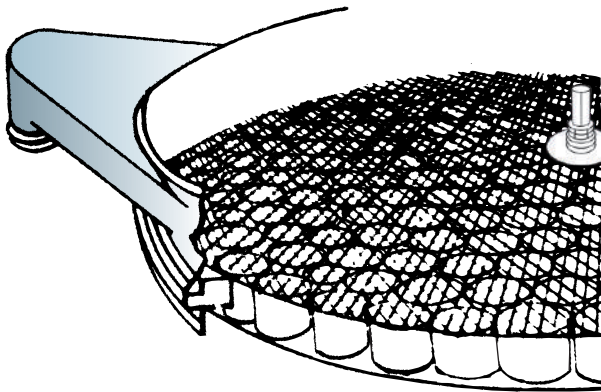
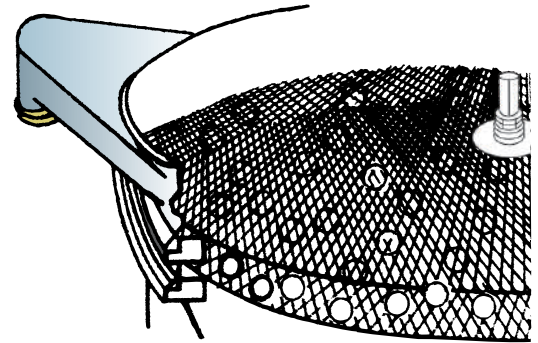


FIG-4 - 90° LEAD
Material Tends To Stay At Center

Anti-Blinding Systems

Ball Tray

Antiblinding Ball Tray comprising of courser mesh is placed beneath the sizing mesh. Number of polymer balls are kept between both the meshes. During vibrations these balls gently tap the top sizing mesh resulting in dislodging of trapped particles. Due to modular design this arrangement can be incorporated or removed as & when required.



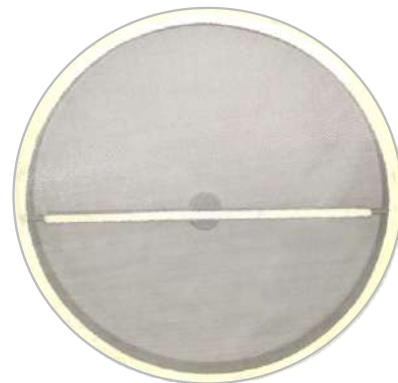
Ring Tray

In ring tray sharp edged P.V.C. / P.U. Cylindrical pieces are kept below the sizing mesh instead of Balls. The action of vibration causes cutting of dangling fibrous materials as well as removal of near size particles lodged in openings. This system is very useful in solid / liquid separation.

Type Of Screens Ring



Standard Screen Ring



Ultrasonic Screen Ring



Silicone Moulded Screen Ring

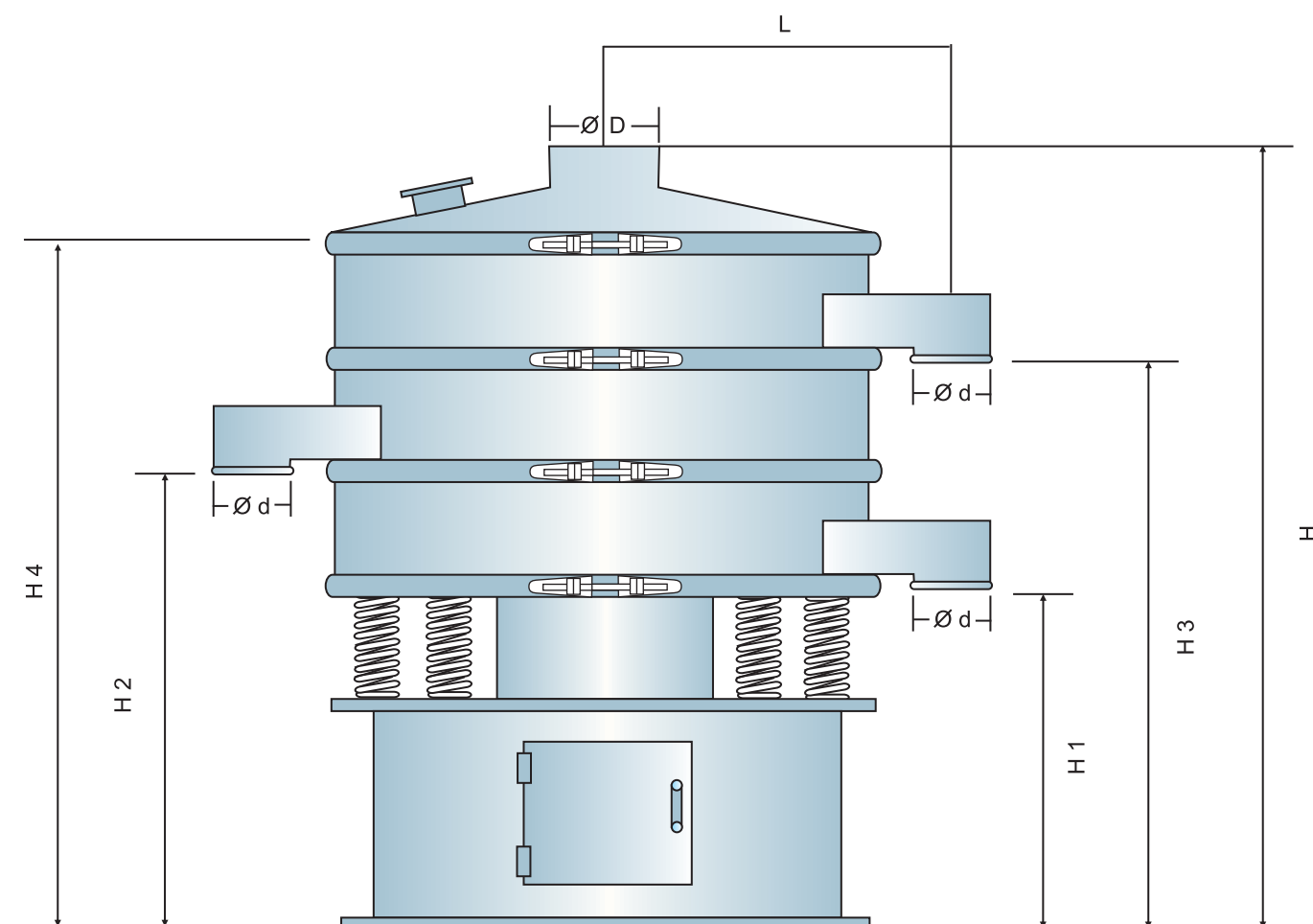


Self Tensioning Screen Ring

Dimension Chart Of Vibro Screen

MODEL	SCREEN SIZE	DISCHARGE HEIGHT			H4	H	L	Ø D	Ø d
		H1	H2	H3					
SVS - 12	300	370	450	540	645	710	240	100	65
SVS - 18	450	380	480	600	710	820	350	100	100
SVS - 24	600	440	560	700	845	960	450	150	100
SVS - 30	750	460	600	770	950	1080	560	150	150
SVS - 36	900	500	660	820	980	1125	600	150	150
SVS - 48	1200	550	730	930	1115	1280	800	200	200
SVS - 60	1500	715	960	1245	1500	1700	985	250	200
SVS - 72	1800	715	1000	1290	1625	1850	1100	300	250
SVS - 84	2100	715	1015	1300	1570	1825	1230	300	250
SVS - 96	2400	715	1080	1440	1750	2050	1480	350	300

*Due to continuous innovations in design above parameters are subject to change



Various Designs Of Vibro Screen



GMP Design Vibro Screen



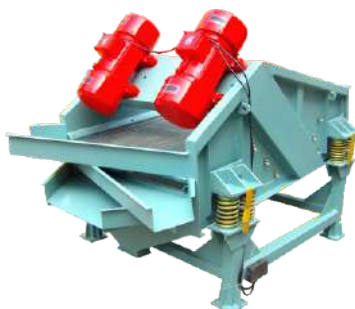
Inline Vibro Screen



Vibro Screen (MOC : MS)



Portable Vibro Screen



Rectangular Vibro Screen



GMP Design Inline Vibro Screen



Vibro Screen (MOC : SS 304 Contact Parts)



Vibro Screen with Magnetic Outlet



GMP Design Flame Proof Vibro Screen



Compressed Height Vibro Screen



Inline Vibro Screen with Mounting Frame



Vibro Screen Oscillation Mounts



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