



# Vacuum Rated Vibro Sifters



**Standard Sifter**



**Double Deck Sifter**

## In Vacuum Rated Design

### Description

“ YE ”, Vacuum Rated Vibro Sifters, effectively grade and separate materials up to two mesh decks. With its out-of-balance weights fitted, its vibratory motor has been specifically designed to operate like a flywheel which transmits power into the screening area more effectively to achieve more efficient screening.

### Yesha Engineering Features:

- ◆ Sifter with Vacuum Rated Design & it can be used for manual loading as well as Inline Sifting Process with the help of Pneumatic Conveying System.
- ◆ Basic design of SigmaSift is a Vacuum Rated Model.
- ◆ The main structure is of radial type and on castor wheel for ease of movement.
- ◆ Specially designed Vibro Motor for better movement of material.
- ◆ Sifter with hopper for loading materials.
- ◆ Silicon moulded lead free sieves.

### Technical Specification

Model/Size	YE 12	YE 20	YE 30	YE 36
Contact Parts	SS 316	SS 316	SS 316	SS 316
Screen Diameter (mm)	300	500	750	900
Output (Kg/Hr)	10 to 20	20 to 50	100 to 200	150 to 300
Motor HP	0.25	0.5	0.5	1.0
Motor RPM	1440	1440	1440	1440
Control	On / Off	On / Off	On / Off	On / Off
Single Sieve Deck	Yes	Yes	Yes	Yes
Double Sieve Deck (Optional)	Yes	Yes	Yes	Yes

### Optional Accessories:

- ◆ Flame Proof Construction.
- ◆ Variable Frequency Drive.
- ◆ Extra Sieves (We can provide extra sieves of size 10, 12, 16, 20, 30, 40, 60, 80, 100)
- ◆ Documents.

## **Yesha Engineering**

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## Roll Compactor



Off Line Roll Compactor



Online Roll Compactor

### Roller compactor generally consists of three major units:

- ◆ A Screw feeding system, which conveys the powder from hopper to the compaction area between the rolls.
- ◆ A compaction unit, where powder is compacted between two counter rotating rolls by applying a force to convert powders into flakes.
- ◆ A size reduction unit, for granulating flakes into the desired particle size. **This can be offered optionally at the discharge of compactor.**

### Roll Compactor's Features:

- ◆ The basic design of compactor is suitable for Encapsulated for Online process or the same which can be operated as a standalone.
- ◆ The main structure is made of SS 304.
- ◆ All the contact parts are manufactured from SS – 316 & all non-contact parts are manufactured from SS-304.
- ◆ Twine screw design for better compaction.
- ◆ Feed screws having speed regulator to ensure desired feed rate for compaction process.
- ◆ Screw assemblies are equipped with tri-clover joint for ease of opening and cleaning.
- ◆ Horizontal screw is driven through variable frequency drive for applying required proper material flow in to vertical feed screw zone through required RPM.
- ◆ Vertical screw is driven through frequency drive for applying required compaction force through controlling of RPM.
- ◆ Optionally we can provide Vacuum De aeration pot is provided at vertical feed screw zone, which helps to reduce the air gap before compaction. It means that the compaction is better at lower force Rollers and main shaft are made of well toughed SS 410.
- ◆ One roller is floated through hydraulic pressure to ensure the required compaction throughout the process via constant pressure.
- ◆ Optionally SSPM can also provide the roll gap measurement sensor.
- ◆ Full rotational type granulator is provided at the discharge of compactor on Davit Arm which can be provided optionally.
- ◆ This granulator is equipped with variable frequency drive to ensure the required RPM for required quality of granules.
- ◆ Easy opening for changing the required mesh for different compaction.
- ◆ To control the heat at compaction zone optionally SSPM can provide the Water Jacketed rollers optionally.

### Optional Accessories

- ◆ Flame Proof Construction.
- ◆ Water Jacket at Roll.
- ◆ Portable Chiller.
- ◆ Dry Granulator.
- ◆ Documentation.

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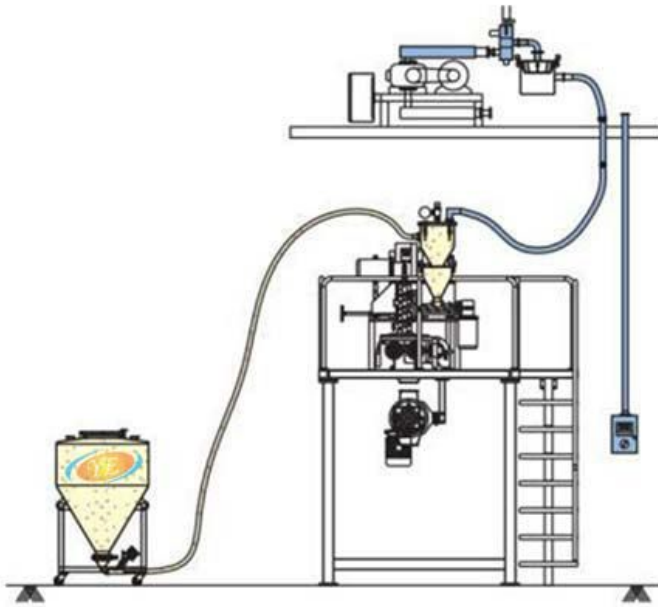
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## Pneumatic Conveying Systems (For Roll Compactor Loading) (Optional)



**ROLL COMPACTOR LOADING**



### **Pneumatic Conveying System's Features:**

- ◆ Meets cGMP standard.
- ◆ Dust free transfer in enclosed environment.
- ◆ Faster conveying of larger volume.
- ◆ Maintains unique production environment.
- ◆ Vacuum transfer is at low cost process to handle the material.
- ◆ Reduce the man power and increased the productivity.
- ◆ Less space required.
- ◆ Easy to Installed, operate and clean.
- ◆ No moving components so less maintenance

### **Optional Accessories:**

- ◆ Documentation.
- ◆ Flexible Hose Pipe.
- ◆ Filter Bag for Convey Receiver.
- ◆ Secondary Filter at Volume Source.
- ◆ Filter Bag for Secondary Filter.
- ◆ Variable Frequency AC Drive.
- ◆ Flame Proof Construction.
- ◆ Silicon Adaptor.
- ◆ PLC Control Panel.

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## Dry Granulator



### Technical Specification

- ◆ Granulator is suitable for Standalone as well as Inline operation through pneumatic conveying system and/or through vertical flow design.
- ◆ Granulator having conical impeller manufactured from SS – 316.
- ◆ Detachable sieve design to accommodate user requirements.
- ◆ Entire Granulator structure manufactured from Stainless Steel – AISI304.
- ◆ All contact parts are manufactured from Stainless Steel - AISI-316.
- ◆ Granulator is drive via TEFC Non flame proof motor and reduction gear box.
- ◆ Granulator speed control via variable frequency AC Drive, Granulator speed can be control from 50 to 300 RPM as per process requirements.
- ◆ Equipment in davit arm design [from LHS View] for ease of movement and connectivity of online and stand alone application as well on Davit Arm.
- ◆ Very low noise level.
- ◆ All the cleaning parts can be easily open able without the use of spanner.
- ◆ Easy to clean, requires no spanner to open milling zone.
- ◆ One no. Sieve as a standard scope [Mesh size to be given by End User]
- ◆ Output will be approximately 80 to 300 Kgs./ Hour depending upon the mesh size and material density

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