

Electromagnetic Sieve Shaker

Why Particle Size Analysis?

The knowledge of Particle Size and Distribution in disperse systems is very important for Research & Development, Production and Quality Assurance.

The following list shows product properties that depend on the Particle Size and Distribution:

- Mechanical Properties of Bulk Goods
- Surface Reaction
- Insulating and Absorbing Properties
- Flavor
- Mixability
- Wear Resistance
- Filtration Ability
- Stress and Breaking Behavior
- Agglomeration due to Adhesive Forces
- Conductivity
- Extinction



Electromagnetic Sieve Shakers VSS Series
VinSyst Electromagnetic Sieve Shakers VSS Series uses Electromagnetic Impulses to impart a Triple Vibrating Action.

Vertical | Lateral | Rotational

The Patented Electromagnetic Drive of these Sieve Shakers produces a 3-D Throwing Motion which ensures optimum use of the open sieve area and lets the sample move equally over the whole sieving surface.

This Electromagnetic Drive has No Rotating Parts, making it Maintenance Free and Extremely Quiet in Operation.

The Vibratory Action produced by the power unit moves the sample all over the sieve in a unique way producing Faster, more efficient Sieving, while the Rapid Vertical Movements also help to keep the Apertures free from Blocking.

Particle size is one of the most important properties of any Dry or Wet material and our VSS Series is engineered for Quick and Accurate Particle Analysis.

Electromagnetic Sieve Shaker Model VSS-9



VinSyst Electromagnetic Sieve Shaker Model VSS 9 is ideally used as a Particle Size Analyser for Governing the Separation of Particles according to their sizes. It is used for sieve analysis in Applications of Cements, Sands, Crushed Rocks, Clays, Granites, Feldspars, Coals, Soils, Wide range of Manufactured Powders, Grains, Seeds, Food Processing Industry, etc.

Our Sieve Shaker offers total flexibility enabling optimum settings to be established for virtually any material under test. The instrument is fitted with a special clamping device that ensures that the sieves are held firmly and allows them to be quickly removed and replaced. Non-Metallic Springs and Anti-Vibration Mountings are fitted to isolate vibrations from work surfaces and reduce noise levels.

Sallent Features :

- Convenient Operation
- No Rotary Component
- Electronic Controlled Amplitude & Frequency
- Compact and Portable
- Unique Vibratory Motion by using Horizontal & Vertical sieving action to effectively separate materials
- Suitable for sieving High Density products and for Dry Sieving Analysis
- Rapid Vertical Movements helps to keep the Apertures Free from Blocking
- Robustly Built and can be used in Laboratories or On-Site
- The Sieve Shaker's micro controller is used to set both the Process Time and Amplitude Setting
- Noise level Less than 71 dB with sieves and Material at Maximum Power Level; Less than 50 dB Without Sieves at Maximum Power Level

Technical Specifications :

Model	VSS-9
Applications	Separation, Fractioning, Particle Size Determination
Feed Material	Powders, Bulk Materials, Dry Products
Sieve Diameter	Dia 100 mm, Dia 200 mm, Dia 300 mm
Sieve Stack	Height 50 mm (8 sieves), 25 mm (16 sieves)
Vibration Frequency	1000 times/minute
Measuring Range	38µ to 3.00 mm
Max Batch	3 kgs
Programmable Time	1 to 60 minutes
Vibration Amplitude	1.5 mm
Sieving Action	Tri Dimensional Shifting Motion
Noise	< 50 dB
Dimensions (W x H x D)	430 x 450 x 750 mm
Net Weight	20 kgs
Power	230V AC, 50 Hz

Standard Accessories : Two Supporting Rods, Sieve Retaining Assembly and Rubber Pads

Optional Accessories : Test Sieves, Pan and Cover, Calibration Certificate for the Sieves, IQ, OQ, PQ Documents

Electromagnetic Sieve Shaker Model VSS-8



VinSyst High Frequency Electromagnetic Sieve Shaker Model VSS-8 is ideally used as a Particle Size Analyser for Governing the Separation of Particles according to their sizes. The instrument can handle Dry and Wet Sieving in Applications of Cements, Sands, Crushed Rocks, Clays, Granites, Feldspars, Coals, Soils, Wide range of Manufactured Powders, Grains, Seeds, Food Processing Industry, etc.

VSS 8 is recommended whenever Digital Time Display, Interval Operation and Digital Adjustment along with Optical Monitoring of the Vibration Height are required. VSS 8 complies with the Highest Requirements in Quality Assurance.

VSS 8 enables the user to Set and Store Sieving Time, Interval and Amplitude for Reproducible Sieving Results. It also eliminates influences of error by different sieving frequencies via automatic adjustment of the amplitude. An amplitude of up to 5 mm can be achieved under all nominal load conditions

Sallent Features :

- Advanced 3D Sieving Motion
- Convenient Operation
- No Rotary Component
- Electronic Controlled Amplitude & Frequency
- Compact and Portable
- Easy Operation, Ergonomic Design
- Suitable for Sieving High Density Products and for Dry and Wet Sieving Analysis
- Low Noise & Maintenance Free
- Integrated Interface
- Test sieves can be changed easily by using the Quick-Release Clamping System
- All Sieving Parameters – Vibration Height, Time, Interval are Set, Displayed and Monitored Digitally
- Bright LED Display
- Self-readjusting Amplitude for Comparable Sieving Results
- Comparable and Reproducible Sieving results Worldwide

Technical Specifications :

Model	VSS-8
Applications	Separation, Fractioning, Particle Size Determination
Feed Material	Powders, Bulk Materials, Dry and Wet Products
Display	dBright LED Display
Sieve Diameter	Dia 75 mm, Dia 100 mm, Dia200 mm
Sieve Stack	Height 50 mm (8 sieves), 25 mm (16 sieves)
Vibration Frequency	1500 times/minute
Measuring Range	38μ to 3.00 mm
Max Batch	2 kgs
Programmable Time	1 to 99 minutes
Vibration Amplitude	< 5 mm
Sieving Action	Tri Dimensional Shifting Motion
Noise	< 40 dB
Dimensions (W x H x D)	360 x 300 x 736 mm
Net Weight	25 kgs
Power	230V AC, 125 W

Standard Accessories : Two Supporting SS rods, Sieve Retaining Assembly and Rubber Pads

Optional Accessories : Test Sieves, Pan and Cover, Calibration Certificate for the Sieves, IQ, OQ, PQ Documents

Laboratory Sieve Shaker (Table Top Model)

VSS-T Series



VinSyst Table Top Sieve Shaker VSS-T Series is used for sieve analysis in Applications of Cements, Sands, Crushed Rocks, Clays, Granites, Feldspars, Coals, Soils, Wide range of Manufactured Powders, Grains, Seeds, Food Processing Industry, etc.

It is an ideal equipment for normal day to day Laboratory or On-Site Purpose, suitable for 8 Test Sieve (Soundless, Vibration Type)

Method

The Vertical & Horizontal throwing motion is overlaid with a slight circular motion which results in distribution of the sample amount over the whole sieving surface. The particles are accelerated in the vertical & horizontal direction. In the air they carry out free rotations and interact with the openings in the mesh of the sieve when they fall back. If the particles are smaller than the openings, they pass through the sieve. If they are larger, they are thrown upwards again. The Rotating motion while suspended increases the probability that the particles present a different orientation to the mesh when they fall back again and thus might eventually pass through the mesh.

Salient Features :

- Economy Model
- Perfect for Dry Sieving Works
- Rugged Construction made of Mild Steel
- Motorized Sieve Shaker
- Vibration controlled by Speed Regulator
- Equipped with Heavy Duty F.H.P Electric Motor
- Low Noise Operation
- Low Maintenance Required

Technical Specifications :

Model	VSS-T
Applications	Separation, Fractioning, Particle Size Determination
Feed Material	Cements, Sands, Crushed Rocks, Clays, Granites, Feldspars, Coals, Soils, Wide range of Manufactured Powders, Grains, Seeds, etc.
Measuring Range	37μ to 4 mm
Sieve Capacity	Upto 6 Sieves with Lid and Pan
Sieve Diameter	Dia 100 mm, Dia 200 mm
Sieve Height	50 mm, 75 mm
Set Timer	Programmable Time 1 to 60 min
Sieving Action	Horizontal and Vertical Sieving Action
Power	230V AC

Standard Accessories : Two Supporting SS rods, Sieve Retaining Assembly and Rubber Pads

Optional Accessories : Test Sieves, Pan and Cover, Calibration Certificate for the Sieves, IQ, OQ, PQ Documents

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VinSyst
Technologies

Laboratory Test Sieves S.S. / Brass

VTS-S Series (S.S)
VTS-B Seies (Brass)



VinSyst provides two kinds of Test Sieves, **Perforated Plate Test Sieves and Woven Wire Test Sieves.**

Size Range: The Aperture Size of Perforated Plate Sieves ranges from 4mm to 125mm and for the Woven Ranges from 38µm to 850µm.

Diameter Range: Standard Dia 50, 100, 200, 300, Customized size on request.

Material Used : Stainless Steel and Brass.

All sieves are manufactured to the strictest engineering standards to ensure Accuracy and the Highest Quality.

Advantages of our Sieves

- Manufactured in accordance with ISO 3310:1-2000 standards
- Entire Sieve manufactured in SS 316
- Sturdy Joint Less rims for excellent fitment
- No Crevices to Trap Sieving Material
- Evenly Tensioned Mesh
- Ergonomically Designed—No Raw Edges, Comfortable whilst handling

Technical Specifications :

Types	BSS Mesh No. (410/1969)	ISS Mesh No. (469/1972)	ASTM Mesh No.	Aperture Width
1	4	480	5	4.75 mm
2	5	340	6	3.85 mm
3	6	280	7	2.80 mm
4	7	240	8	2.36 mm
5	8	200	10	2.00 mm
6	10	170	12	1.70 mm
7	12	140	14	1.40 mm
8	14	120	16	1.18 mm
9	16	100	18	1.00 mm
10	18	85	20	850 µm
11	22	70	25	710 µm
12	25	60	30	600 µm
13	30	50	35	500 µm
14	36	40	40	425 µm
15	44	35	45	355 µm
16	52	30	50	300 µm
17	60	25	60	250 µm
18	72	20	70	212 µm
19	85	18	80	180 µm
20	100	15	100	150 µm
21	120	12	120	125 µm
22	150	10	140	106 µm
23	170	9	170	90 µm
24	200	8	200	75 µm
25	240	7	230	63 µm
26	300	5	270	53 µm
27	325	4	300	47 µm
28	350	3	325	45 µm
29	400	400	375	38 µm
30	50	500	375	25 µm

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