TORONTECH

SIEVE SHAKER – ELECTROMAGNETIC TYPE

Sieve Shaker for the Pharmaceutical Industry – Precision Particle Size Analysis by Torontech

In the pharmaceutical industry, maintaining strict quality control is essential for ensuring the safety, efficacy, and consistency of drug formulations. A sieve shaker is a laboratory instrument used for particle size analysis, helping manufacturers determine the uniformity of powders and granules used in tablet production, capsules, and other formulations.

APPLICATIONS

- **Tablet Production** – Ensures uniform particle size of powders and granules to improve compressibility, dissolution, and bioavailability.
- **Capsule Manufacturing** – Confirms granule size distribution for accurate filling and consistent dosage.
- **Powder Quality Control** – Tests raw material consistency to prevent formulation issues such as capping or weight variation.
- **Research and Development** – Supports formulation studies by providing precise particle size distribution data.
- **Stability Testing** – Helps ensure long-term uniformity of pharmaceutical products through controlled particle sizing.
- **Regulatory Compliance** – Meets USP, ASTM, and ISO requirements for pharmaceutical quality control processes.
- **Wet and Dry Sieving Applications** – Suitable for diverse pharmaceutical materials, including hygroscopic powders and granules.

FEATURES

Key Features of Torontech’s Electromagnetic Sieve Shaker:

- **High-Frequency Electromagnetic Vibrations** – Provides uniform and efficient sieving action.
- **Precise Digital Control** – Adjustable amplitude and time settings for customizable testing.
- **Quiet & Vibration-Free Operation** – Ideal for laboratory environments with minimal mechanical wear.
- **Versatile Compatibility** – Suitable for a wide range of sieve sizes and pharmaceutical-grade powders.
- **Regulatory Compliance** – Meets USP, ASTM, and ISO standards for pharmaceutical testing.

- Compatible with 100mm and 200mm sieves
- Minimizes vibration transfer to the work surface
- Low maintenance and quiet operation
- Multiple sifting modes for precise analysis
- Designed for accurate particle size assessment
- Programmable sieving duration for flexibility
- Advanced tri-dimensional sifting motion
- User-friendly interface for easy operation
- Supports intermittent and continuous sifting with 15 adjustable amplitude levels
- Adjustable shake time from 1 to 99 minutes
- Suitable for both dry and wet sieving

THEORY & METHOD

What is a Sieve Shaker?

A sieve shaker is a device that automates the sieving process by agitating a stack of test sieves to efficiently separate particles based on size. This method is crucial in pharmaceutical applications, where precise particle size distribution directly impacts drug solubility, bioavailability, and overall performance.

Electromagnetic Sieve Shaker by Torontech

Torontech offers a high-performance electromagnetic sieve shaker, designed for consistent, vibration-free operation with superior sieving efficiency. Unlike conventional mechanical models, Torontech’s electromagnetic sieve shaker utilizes a magnetic drive system that delivers controlled and uniform energy, ensuring accurate and repeatable particle size distribution analysis.

Why Use a Sieve Shaker in Pharmaceutical Quality Control?

1. **Ensures Uniform Particle Size:** Essential for proper drug dissolution and absorption.
2. **Improves Tablet and Capsule Consistency:** Prevents issues like capping, lamination, and weight variation.
3. **Enhances Product Stability:** Helps achieve precise formulation characteristics.
4. **Complies with Industry Standards:** Supports regulatory compliance in pharmaceutical manufacturing.

Get the Best Sieve Shaker for Your Lab

Torontech’s electromagnetic sieve shaker is the perfect solution for pharmaceutical laboratories and manufacturers seeking precision, reliability, and efficiency in particle size analysis.

TECHNICAL SPECIFICATIONS

Model	ToronPharma-MS8
Dry sieving	Standard
Mode of operation	Continuous and intermittent
Intermittent operation	At intervals (0.5 sec)
Capacity	Up to 8 sieves of 200 mm dia x 50 mm h
	Up to 16 sieves of 100 mm dia x 25 mm h
	Suitable for sieves from 28 µm to 4mm
Shake time	Programmable from 1 min to 99 min
Power level	Programmable from 5 to 20
Display	16 x 2 character alphanumeric LCD
Noise level	Less than 61 dB without sieves at maximum amplitude
	Less than 71 dB with sieves and material at maximum amplitude
Voltage	220/230V AC, 50 Hz, 600 VA (110V is also available)
Dimensions (W x L x H)	388 x 312 x 763 mm
Weight	50 kgs without sieves

Ordering Information

Products

Product code	Description	Quantity
0540100	(Body made of S.S.) -230V	1
0520100	(Body made of M.S.) -230V	1
0530100	(Body made of S.S.) -110V	1
0510100	(Body made of M.S.) -110V	1

Standard accessories

Part number	Description	Quantity
0501A00001	Backlight Knob To Fit Locking Arm (Set Of 2)	1
0501A00065	Vertical Rod (Set Of 2)	1

Optional accessories

Part number	Description	Quantity
0501A00190	Rubber Leg (Set of 4)	1
0501A00141	Test Sieves Of 200 mm Dia (ASTM No. 30 - 600 µm) Pharma Grade	1
0501A00070	Allenky Screw - 6 mm	1
0501A00127	Test Sieves Of 100 mm Dia (ASTM No. 325 - 45 µm) Food Grade	1
0501A00193	Amplitude Sticker	1
0501A00189	Rubber Pad (Set of 2)	1
0501A00191	Receiver For 200 mm Dia Test Sieves	1
0501A00188	S.S. Body	1
0501A00187	Test Sieves Of 100 mm Dia (28 µm) Pharma Grade	1
0501A00186	Test Sieves Of 100 mm Dia (ASTM No. 400 - 38 µm) Pharma Grade	1
0501A00185	Test Sieves Of 100 mm Dia (ASTM No. 325 - 45 µm) Pharma Grade	1
0501A00184	Test Sieves Of 100 mm Dia (ASTM No. 270 - 53 µm) Pharma Grade	1
0501A00183	Test Sieves Of 100 mm Dia (ASTM No. 230 - 63 µm) Pharma Grade	1
0501A00181	Test Sieves Of 100 mm Dia (ASTM No. 170 - 90 µm) Pharma Grade	1
0501A00180	Test Sieves Of 100 mm Dia (ASTM No. 140 - 106 µm) Pharma Grade	1
0501A00179	Test Sieves Of 100 mm Dia (ASTM No. 120 - 125 µm) Pharma Grade	1
0501A00178	Test Sieves Of 100 mm Dia (ASTM No. 100 - 150 µm) Pharma Grade	1
0501A00177	Test Sieves Of 100 mm Dia (ASTM No. 80 - 180 µm) Pharma Grade	1

Data Sheet

Optional accessories

Part number	Description	Quantity
0501A00157	Test Sieves Of 200 mm Dia (ASTM No. 400 - 38 µm) Pharma Grade	1
0501A00156	Test Sieves Of 200 mm Dia (ASTM No. 325 - 45 µm) Pharma Grade	1
0501A00155	Test Sieves Of 200 mm Dia (ASTM No. 270 - 53 µm) Pharma Grade	1
0501A00154	Test Sieves Of 200 mm Dia (ASTM No. 230 - 63 µm) Pharma Grade	1
0501A00153	Test Sieves Of 200 mm Dia (ASTM No. 200 - 75 µm) Pharma Grade	1
0501A00152	Test Sieves Of 200 mm Dia (ASTM No. 170 - 90 µm) Pharma Grade	1
0501A00151	Test Sieves Of 200 mm Dia (ASTM No. 140 - 106 µm) Pharma Grade	1
0501A00150	Test Sieves Of 200 mm Dia (ASTM No. 120 - 125 µm) Pharma Grade	1
0501A00149	Test Sieves Of 200 mm Dia (ASTM No. 100 - 150 µm) Pharma Grade	1
0501A00148	Test Sieves Of 200 mm Dia (ASTM No. 80 - 180 µm) Pharma Grade	1
0501A00147	Test Sieves Of 200 mm Dia (ASTM No. 70 - 212 µm) Pharma Grade	1
0501A00146	Test Sieves Of 200 mm Dia (ASTM No. 60 - 250 µm) Pharma Grade	1
0501A00145	Test Sieves Of 200 mm Dia (ASTM No. 50 - 300 µm) Pharma Grade	1
0501A00144	Test Sieves Of 200 mm Dia (ASTM No. 45 - 355 µm) Pharma Grade	1
0501A00143	Test Sieves Of 200 mm Dia (ASTM No. 40 - 425 µm) Pharma Grade	1
0501A00142	Test Sieves Of 200 mm Dia (ASTM No. 35 - 500 µm) Pharma Grade	1
0501A00140	Test Sieves Of 200 mm Dia (ASTM No. 25 - 710 µm) Pharma Grade	1
0501A00139	Test Sieves Of 200 mm Dia (ASTM No. 20 - 850 µm) Pharma Grade	1
0501A00138	Test Sieves Of 200 mm Dia (ASTM No. 18 - 1.00 mm) Pharma Grade	1
0501A00137	Test Sieves Of 200 mm Dia (ASTM No. 16 - 1.18 mm) Pharma Grade	1
0501A00136	Test Sieves Of 200 mm Dia (ASTM No. 14 - 1.40 mm) Pharma Grade	1
0501A00135	Test Sieves Of 200 mm Dia (ASTM No. 12 - 1.70 mm) Pharma Grade	1
0501A00134	Test Sieves Of 200 mm Dia (ASTM No. 10 - 2.00 mm) Pharma Grade	1
0501A00133	Test Sieves Of 200 mm Dia (ASTM No. 8 - 2.36 mm) Pharma Grade	1
0501A00132	Test Sieves Of 200 mm Dia (ASTM No. 7 - 2.80 mm) Pharma Grade	1
0501A00128	Test Sieves Of 100 mm Dia (ASTM No. 400 - 38 µm) Food Grade	1
0501A00126	Test Sieves Of 100 mm Dia (ASTM No. 270 - 53 µm) Food Grade	1
0501A00125	Test Sieves Of 100 mm Dia (ASTM No. 230 - 63 µm) Food Grade	1
0501A00124	Test Sieves Of 100 mm Dia (ASTM No. 200 - 75 µm) Food Grade	1
0501A00123	Test Sieves Of 100 mm Dia (ASTM No. 170 - 90 µm) Food Grade	1
0501A00122	Test Sieves Of 100 mm Dia (ASTM No. 140 - 106 µm) Food Grade	1
0501A00121	Test Sieves Of 100 mm Dia (ASTM No. 120 - 125 µm) Food Grade	1
0501A00120	Test Sieves Of 100 mm Dia (ASTM No. 100 - 150 µm) Food Grade	1

Upgradation

Part number	Description	Quantity
0501S13	Upgradation for Electromagnetic Sieve Shaker	1

Service

Part number	Description	Quantity
0501S05	Service Charges for Electromagnetic Sieve Shaker	1

Re-calibration for test sieve

Part number	Description	Quantity
0800CS09	Re-calibration Charges for Test Sieves	1
0806CS09	Re-calibration Charges for Test Sieves with ISO Cetification	1

Inspection visit

Part number	Description	Quantity
0501S04	Inspection Charges for Electromagnetic Sieve Shaker	1
0501S06	Inspection & Service Charges for Electromagnetic Sieve Shaker	1

IQ/OQ Document

Part number	Description	Quantity
0501S15	IQ/OQ Document for Electromagnetic Sieve Shaker	1
1580S15	IQ/OQ Document for Kloudface	1

Data Integrity Solution

Part number	Description	Quantity
1542800	Kloudface	1

Assurance Plan

Part number	Description	Quantity
0501A00004	Silver Assurance Plan for Electromagnetic Sieve Shaker	1
0501A00065	Platinum Assurance Plan for Electromagnetic Sieve Shaker	1
0501A00001	Gold Assurance Plan for Electromagnetic Sieve Shaker	1

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