

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

Sieve Shaker – Electromagnetic Type

Data Sheet

Sieve Shaker – Electromagnetic TypeSieve Shaker – Electromagnetic TypeSieve Shaker – Electromagnetic Type



Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 🇨🇦

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 🇺🇸

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 🇦🇪

Phone: +971 488 19252
Email: me@torontech.com

