Electromagnetic Sieve Shaker PTE-ESS-116

WORKING PRINCIPLE

Electromagnetic Vibration:

- The shaker uses an electromagnetic drive system, which consists of a coil and an armature.
- When AC current passes through the coil, it creates an oscillating magnetic field, causing the armature (and the attached sieve stack) to vibrate rapidly.

High-Frequency Sieving:

- The vibration is high-frequency and low-amplitude, which efficiently moves the particles across the sieve mesh.
- The motion is usually vertical, circular, or elliptical depending on the design, ensuring that all particles pass through the mesh.

KEY FEATURES

Electromagnetic Vibration System

- Operates with an electromagnetic drive, providing uniform and precise vibration for consistent sieving results.
- Adjustable vibration intensity for different materials and particle sizes.

Multi-Sieve Capability

- Accommodates **standard test sieves** (200 mm / 8” or 300 mm / 12” diameter).
- Supports multiple sieves stacked together for simultaneous particle size analysis.
- Compatible with standard laboratory sieves (ASTM, ISO, or IS standards).

Time-Controlled Operation

- Built-in timer for automatic operation up to several hours.
- Ensures reproducible results without manual monitoring.

Robust Construction

- Made with durable stainless steel or powder-coated body for long-term use.
- Resistant to corrosion, dust, and wear.

Safety Features

- Overload protection and stable base prevent accidental tipping.
- Low-noise operation ensures safe laboratory environment.