

## ROTAP SIEVE SHAKER PTE-RSS-112



### APPLICATIONS

#### 1. Particle Size Analysis:

Used for accurate determination of particle size distribution in powders, granules, and aggregates.

#### 2. Pharmaceutical Industry:

Used for uniform size separation of granules and powder formulations.

#### 3. Food & Agriculture:

Helps in grading of grains, flour, spices, and other food materials.

#### 4. Chemical & Petrochemical Industries:

Used for separation and quality control of powdered chemicals and catalysts.

#### 5. Cement & Construction Materials Testing:

Determines fineness and consistency of cement, sand, and aggregates.

#### 6. Metallurgical & Mining Labs:

For particle size classification of ores, minerals, and metal powders.

#### 7. Research & Development Laboratories:

Essential for standardizing particle size in experimental and analytical studies.

### KEY FEATURES

- **Dual Motion Mechanism:** Combines **rotary and tapping motion** for efficient and accurate particle separation
- **Uniform Sieving Action:** Produces highly reliable and repeatable particle size analysis results.
- **Heavy-Duty Construction:** Fabricated from high-grade steel with a powder-coated finish for durability.
- **Digital / Mechanical Timer (Optional):** Allows preset operation with automatic stop.
- **Multiple Sieve Capacity:** Accommodates 6–8 test sieves (8" or 12" diameter) with lid and receiver.
- **Drive Mechanism:** Powered by a **fractional horsepower motor** with adjustable speed
- **Adjustable Clamping System:** Ensures easy, firm, and secure holding of sieve sets.
- **Tapping System:** Integrated **hammer tapping** simulates hand sieving to prevent particle clogging
- **Maintenance-Free Mechanism:** Simple to operate, clean, and service.

### TECHNICAL SPECIFICATIONS

Parameters	Specification
<b>Type of Motion</b>	Rotary and Tapping
<b>Sieve Diameter</b>	8 inch or 12 inch
<b>Sieve Capacity</b>	Up to 6–8 sieves + lid + receiver
<b>Motor</b>	¼ HP, Single Phase, 230V AC
<b>Tapping Mechanism</b>	Mechanical tapping through cap system
<b>Timer</b>	0–60 minutes (Digital/Mechanical optional)
<b>Speed Motion</b>	280–300 rpm (approx.)
<b>Tapping Speed</b>	110–140 tap per min
<b>Material of Construction</b>	Mild Steel / Stainless Steel (as required)
<b>Operation</b>	Dry Sieving
<b>Power</b>	220/230 AC supply