

## GYRATORY SIEVE SHAKER PTE-GSS-113



### APPLICATIONS

- 1. Particle Size Analysis** Used to determine particle size distribution of powders, granules, and bulk materials with high accuracy.
- 2. Pharmaceutical Industry** For uniform particle size testing of granules and powdered formulations in drug manufacturing.
- 3. Construction and Civil Engineering** Helps in grading soil, sand, cement, and aggregates as per IS, ASTM, or BS standards.
- 4. Chemical Industry** Used for separating and classifying powdered chemicals and fertilizers.
- 5. Metallurgical and Mining Industry** For particle separation of metal powders, ores, and minerals.
- 6. Paints and Pigments Industry** Ensures fine particle uniformity in pigments, powders, and coating materials.
- 7. R&D Laboratories** Ideal for precision particle size analysis and material testing in labs.

### KEY FEATURES

- **Gyratory Motion:** Operates on a horizontal circular (gyratory) motion that ensures accurate and consistent sieving action.
- **Uniform Sieving:** Provides gentle yet thorough particle separation without damaging delicate samples.
- **Heavy-Duty Construction:** Rigid body made of mild steel or stainless steel for long-term durability and vibration resistance.
- **Sieve Compatibility:** Accommodates standard test sieves of 200 mm (8") or 300 mm (12") diameter.
- **Adjustable Timer:** Built-in digital or mechanical timer (0–99 minutes) controlled test durations.
- **Adjustable Speed Control** Allows users to set different rotation speeds for various sample types. (optional)
- **Quiet and Stable Operation:** Balanced drive system and anti-vibration mounts minimize noise and movement.
- **Motor Drive:** Powered by a fractional HP motor, ensuring smooth gyratory motion.

### TECHNICAL SPECIFICATIONS:

Parameters	Specification
<b>Type of Motion</b>	Gyratory (Circular)
<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>Speed</b>	280–300 rpm (approx.)
<b>Timer</b>	0–60 minutes (Digital/Mechanical optional)
<b>Material of Construction</b>	Mild Steel / Stainless Steel
<b>Operation</b>	Dry Sieving
<b>Power</b>	220/230 AC supply