



## Product Overview

The Orbital Shaker is a high-performance laboratory instrument designed for efficient and uniform mixing of various laboratory samples under controlled conditions. It is suitable for applications such as cell culture, fermentation, hybridization, enzyme and protein analysis, and general mixing purposes.

Constructed from heavy-duty mild steel housing, the shaker incorporates a **brushless induction motor** and **variable frequency drive** to ensure stable, quiet, and maintenance-free operation. The shaker is equipped with a **universal platform** that can accommodate conical flasks, round-bottom flasks, volumetric flasks, or test tube racks of varying sizes.

This unit is engineered for **continuous 365-day operation** and ensures consistent, reproducible results in research and industrial laboratories.

## Salient Features

- **Universal Platform:** Compatible with conical, round bottom, volumetric flasks, and test tube racks.
- **Adjustable Leveling Jack:** Enables stable and precise leveling on any laboratory surface.
- **Programmable Control:** Memory storage for up to 5 operational programs.
- **Bidirectional Motion:** Forward and backward rotation programs for optimized mixing.
- **Auto-Restart Function:** Automatically resumes operation at the set RPM after power restoration.
- **Continuous Duty Cycle:** Designed for 365 days of continuous operation.
- **Maintenance-Free Motor:** Brushless induction motor ensures long service life and quiet performance.
- **Noise-Free Operation:** Permanently lubricated bearings reduce vibration and noise.

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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- **Uniform Mixing:** Eccentric counterbalanced drive mechanism provides consistent orbital motion.

### Platform Configuration

Flask Capacity	Number of Flasks (Can be used at a time)
100 ml	64
250 ml	36
500 ml	25
1000 ml	16
2000 ml	9
5000 ml	5

### Technical Specifications

Parameter	Specification
<b>Control System</b>	Programmable Logic Control (PLC)
<b>Display</b>	4.3" Color HMI with Touch Screen
<b>Shaking Motion</b>	Orbital
<b>Orbital Amplitude</b>	Ø50 mm
<b>Material of Construction (Platform)</b>	Aluminium, Powder Coated
<b>Timer Range</b>	1 - 999 Hours
<b>Speed Range</b>	30 - 350 rpm
<b>Speed Accuracy</b>	±5 rpm
<b>Platform Size (mm)</b>	620 × 620
<b>Outer Dimensions (mm)</b>	630 × 670 × 310
<b>Platform Type</b>	Universal
<b>Maximum Load (kg)</b>	75
<b>Weight (Approx.)</b>	80 kg
<b>Input Voltage</b>	230 VAC, 50 Hz, Single Phase
<b>Construction</b>	Mild Steel, Powder Coated

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