

## Jeio Tech 20 to 500rpm General Orbital Shaker (OS-4000)

**Product Code:** AAH3D1315K

**Brand:** Jeio Tech

Jeio Tech's 20 to 500rpm General Orbital Shaker (OS-4000) contains a powerful driving system with a durable body structure that increases shaking capacity.

This laboratory shaker is ideal for large or heavy workloads requiring accurate and reproducible results. This is due to its wide speed range and maintenance-free BLDC motor to form a smooth, quiet yet powerful shaking motion.



### Features:

#### Performance:

- Microprocessor PID control. Intelligent speed controller enables reproducible results.
- Shaking speed calibration enables matching the displayed rpm to the reference point.
- Competitive high shaking speed up to 500rpm (amplitude size dependent).
- Orbital shaking motion in various diameters (19.1mm or 25.4mm).
- Wide speed range even with heavy workload.
- Equipped with a maintenance-free BLDC motor to generate a smooth, quiet, uniform, and yet powerful shaking motion.
- Best effort run function whilst workload exceeds its capacity. Automatic shaking speed adjustment in case of excessive workload such as unbalanced load placement, unusual vibrations caused from unstable floor or external shock.
- Pleasant test environment by the smooth acceleration and deceleration control. Smooth start and smooth stop function prevent chemical spills from flasks or test tubes.
- Low-profile design minimises vibration or sliding caused by the high speed shaking motion.

#### Convenience:

- User-friendly control panel. Jeio Tech's unique VFD-bright, clear, easy to read. Durable membrane touch switch and control knob.
- Easy-set digital timer (1 min. to 999 hr. 59 min.).
- Repetitive tasks can be easily performed as the platform stops where it starts. Stopping the shaking platform always at the same position is highly beneficial for automated dosing or sampling processes.
- Speed is basically set and displayed in increments of 1rpm. Also speed increment interval can be set among 1, 5, or 10rpm according to user's preference.
- Built-in RS-232 port and USB port for external control and data collection.
- Variety of accessories are available to meet application demands.

#### Safety:

- Automatic run after power interruption.
- Shaking speed deviation alarm.
- Over-current protection and stalled platform check.

## Specifications:

<b>Control System</b>		PID feedback control
<b>Display</b>		VFD
<b>Shaking System</b>	<b>Motion Type</b>	Orbital
	<b>Amplitude Size (mm)</b>	19.1 (default)
	<b>Speed Range (rpm)</b>	20 to 500
	<b>Accuracy</b>	± 1% of set speed (> 100rpm)/± 1% (≤ 100rpm)
	<b>Timer</b>	1 min. to 999 hr. 59 min.
<b>Max. Load (kg)</b>		14 at 500 rpm 21 at 400 rpm
<b>Dimensions (mm)</b>	<b>Platform (w x d)</b>	450 x 450
	<b>Body (w x d x h)</b>	510 x 632 x 156
	<b>Net Weight (kg)</b>	43
<b>Electrical Requirments (230V, 50/60Hz)</b>		0.3A

Unit 3, Tower Business Park  
 Warpsgrove Lane  
 Chalgrove  
 Oxfordshire  
 OX44 7XZ

**Tel:** (+44) 01865 400321

**Email:** [enquiries@medlinescientific.com](mailto:enquiries@medlinescientific.com)

**Website:** [www.medlinescientific.com](http://www.medlinescientific.com)