



## Heavy Duty Orbital Shaker

- Patented Accu-Drive Shaking System
- 100 lb weight capacity
- Available with either 1" or 2" orbit

The OHAUS Digital 45 kg Capacity Orbital Shaker is a large capacity shaker. They have a more powerful drive mechanism and larger orbits for optimal shaking of large vessels.

### Operating Features:

**Accu-Drive Shaking System:** The exclusive patented Shaking System delivers exceptional speed control, accuracy, and durability. The shaking system continuously monitors shaking speed and maintains set-point, even under changing loads. When unit is set to a speed above 100 rpm, the speed accuracy is  $\pm 1\%$  of set speed. When set under 100 rpm, speed accuracy is  $\pm 1$  rpm.

**Microprocessor Control:** The variable speed microprocessor control provides consistent uniform shaking action. Microprocessor will display last set-point and will restart if power is interrupted.

**Triple Eccentric Drive:** Permanently lubricated ball bearings and maintenance free, brushless DC motor provide reliable service and continuous duty operation.

**LED Display:** Touch pad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

**RS232 Interface:** Provides two-way communication for data logging and unit control.

**Speed Calibration Mode:** Allows user to automatically recalibrate speed display.

### Safety Features:

**Load Sensor:** A built-in load sensor detects unbalanced conditions and automatically reduces rpm to a safe speed to protect samples.

**Overload Protection:** Audible and visual signals will activate when system detects an obstruction or overload of the tray.

**Speed Ramping Feature:** Slowly increases speed to desired set-point to avoid splashing.

**Audible Alarm:** In timed mode, alarm will sound when the time reaches zero. Alarm has optional mute function which can be set from the touch pad control.

**Spill-Resistant Design:** Channels fluids away from internal components.

### Operating Conditions:

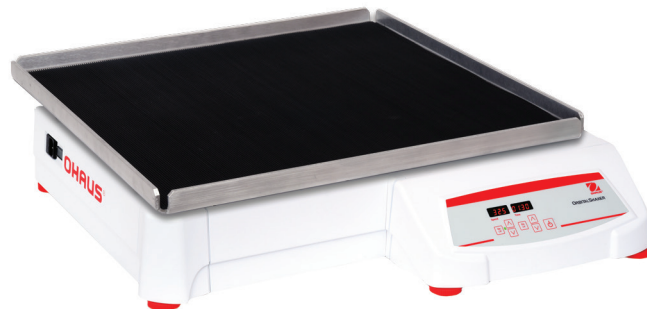
Units can be run in cold rooms, incubators, and CO<sub>2</sub> environments from -10 to 60°C (14 to 140°F), maximum 80% relative humidity, non-condensing.

### Applications:

Cell cultures, solubility studies, and extraction procedures.

### Ordering Information:

Units include a detachable, 3-wire cord and plug. Units are also supplied with a 24 x 24" (61 x 61 cm) non-skid rubber mat.



Specifications		
Speed Range	SHHD4525DG SHHD4550DG	15 to 500 rpm 15 to 300 rpm
Speed Accuracy		above 100 rpm $\pm 1\%$ of set speed below 100 rpm $\pm 1$ rpm
Timer		1 second to 160 hours
Orbit	SHHD4525DG SHHD4550DG	25 mm (1") 51 mm (2")
Maximum Weight Capacity		100 lbs (45.4 kg)
Tray Material		Aluminum
Tray Dimensions (L x W)		24 x 24" (61 x 61 cm)
Overall Dimensions (L x W x H)		28.7 x 26.7 x 6.7" (72.9 x 67.8 x 17.0 cm)
Ship Weight		200 lbs (90.8 kg)

Distributed by:

**Australian Scientific Pty Ltd**

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Description	Model	Item Number	Country Code
Digital 45 kg Capacity Heavy Duty Orbital Shaker 1" Orbit	SHHD4525DG	30391865	VN, MY, SG, ID, IN
Digital 45 kg Capacity Heavy Duty Orbital Shaker 1" Orbit	SHHD4525DG	30391866	AU, NZ
Digital 45 kg Capacity Heavy Duty Orbital Shaker 1" Orbit	SHHD4525DG	30391868	TH, PH
Digital 45 kg Capacity Heavy Duty Orbital Shaker 2" Orbit	SHHD4550DG	30391872	VN, MY, SG, ID, IN
Digital 45 kg Capacity Heavy Duty Orbital Shaker 2" Orbit	SHHD4550DG	30391873	AU, NZ
Digital 45 kg Capacity Heavy Duty Orbital Shaker 2" Orbit	SHHD4550DG	30391875	TH, PH