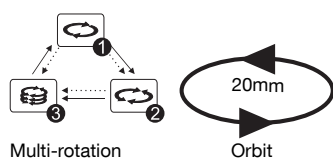


## Shakers, mixers and stirrers » PSU20-i orbital shaking platform

## PSU-20i orbital multi-platform shaker

Powerful and efficient microprocessor controlled, multi-functional orbital shaker providing all that is required to mix your samples – rotation, reciprocation and vibration. This enables optimisation of the mixing whether in flasks, beakers, petri dishes or other laboratory vessels.

- **Orbital motion (20 to 250 rpm), reciprocation (20 to 250 rpm) and vibration functions all in one product**
- **Loading capacity - 8 kg**
- **Fully programmable sequence that can use one or all the functions**
- **6 interchangeable platforms for vessels up to 1000ml including a multi-level platform to hold a large number of various microplates, Petri dishes and culture bags.**
- **Reciprocal rotation: 0 to 360° turning angle, in 30 degree steps**
- **Vibration: 0 to 5° turning angle, 1 degree steps**



**Powerful, reliable and exceptionally quiet motor** – combines an 8 kg loading capacity with consistent even motion and quiet operation

**2-line LCD status display** of actual and set parameters

**Very easy to operate**, with simple set-up of multi-segment programs via push buttons

**Direct drive system** and brushless motor

Supplied without a platform.



PSU-20i fitted with PUP-330

**Universal detachable platform** accommodates vessels of different shapes and sizes for maximum flexibility. **Please order separately.** See page 10.4 for full list of accessory platforms. No tools are needed to change the platform

**All mixing functions – orbital motion, reciprocation and vibration** – can be set for **continuous or timed operation**, or be linked together in different combinations to establish optimum mixing and ensure accurately repeatable conditions for your application

**Low voltage cord easily fits through door gaskets**, allowing use in incubators, refrigerators and workstations. Safe and low energy consumption.

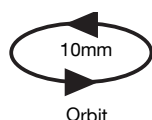
- Applications:**
- Biomedical and biopharmaceutical laboratories - cultivation of cells, extracting, dissolving slow-reacting samples, extraction of mineral oil of soil, of tissue culture for analytical diagnostics, de-aeration of tested biodegradable materials and samples, rotating closed containers for dialysis, bacterial growth

## Shakers, mixers and stirrers » PSU-10i orbital platform shaker

## PSU-10i orbital platform shaker

Microprocessor controlled shaking platform providing smooth and quiet horizontal orbital motion for mixing in bottles, flasks and beakers.

- Variable shaking speed: 50 to 450 rpm
- Reliable direct drive system
- Automatic load balancing system
- Continuous or timed operation with automatic switch-off
- 5 interchangeable platforms for vessels up to 250 ml including an 88 place spring loaded platform for tubes up to 30mm diameter
- Simple to set up and easy to operate
- Loads up to 3 kg



**Soft start feature** ensures a smooth ramp-up – avoids potential damage to vessel content

**Exceptionally quiet motor** – consistent and even shaking

**2-line LCD display** clearly indicates both set and actual shaking speed, plus set and elapsed time.

Works in combination with simple push buttons for easy set-up

**PSU-10i fitted with PUP-12 universal platform**

**Choice of 5 interchangeable platforms** to suit different types of vessels – maximum flexibility. Please order platform separately

**Low voltage power supply** provides for safe cold room operation and low energy consumption



**Integral electronic timer** with audible alarm and automatic switch-off – accurate repeatability of time sensitive incubations

Supplied without a platform.












- Applications:**
- Biotechnology and microbiology - micro-organism cultivation and extraction of biologically active substances
  - Immunology and biochemistry - agglutination and precipitation assay
  - Biochemistry - washing off electrophoresis gel
  - Molecular and cell biology - cultivation of biological liquids

## Shakers, mixers and stirrers » PSU-20i and PSU10i » Models and specifications

## Shakers – models and specifications

(all heights excl. platform)		Multi platform shaker	Shaking platform
		PSU-20i	PSU-10i
		 h: 130 mm d: 410 mm w: 410 mm weight: 13kg	 h: 90 mm d: 205 mm w: 220 mm weight: 4 kg
Speed (depends on loading)	rpm	20 to 250	50 to 450
Orbit	mm	20	10
Maximum load	kg	8	3
Timer, with automatic switch-off		1 min to 96 hours	
Motion timer (orbital/reciprocal modes)	sec	0 to 250	–
Motion timer (vibration mode)	sec	0 to 5	–
Display		2-line 16 character LCD	
Angle (reciprocal mode)	°	0 to 360	–
Angle (vibration mode)	°	0 to 5	–
Input voltage	V dc	12	
Input current	A	3.2	0.8
Ambient temperature range	°C	4 to 40	

## Accessories

<b>P16-88 NEW!</b> Platform with spring holders for up to 88 tubes up to 30mm diameter		–	●
<b>P12-100</b> Platform with clamps for 12 x 100/150ml flasks/beakers. Dimensions: 250 x 190 mm		–	●
<b>Bio PP-4</b> Flat platform with non-slip rubber mat. Dimensions: 230 x 230 mm		–	●
<b>P6-250</b> Platform with clamps for 6 x 250-300 ml flasks/beakers. Dimensions: 250 x 190 mm		–	●
<b>PUP-12</b> Universal platform, with adjustable bars. Dimensions: 270 x 195 mm HB-200 extra holding bars		–	●
<b>PUP-330</b> Adjustable bars and two fixing levels. Dimensions: 345 x 430 x 105 mm HB-330 extra holding bars		●	–
<b>PP-20-(2/3/4 level)</b> Flat platform with non-slip rubber mat. Dimensions: 480 x 380 mm Height between levels: 140 mm		●	–
<b>P30-100</b> Platform with clamps for 30 x 100-150 ml flasks		●	–
<b>P16-250</b> Platform with clamps for 16 x 250-300 ml flasks		●	–
<b>P9-500</b> Platform with clamps for 9 x 500 ml flasks		●	–
<b>P6-1000</b> Platform with clamps for 6 x 1000 ml flasks		●	–