

# MPS-1, High-Speed Multi Plate Shaker

## DESCRIPTION

High-Speed Multi Plate Shaker **MPS-1** can be used in virtually any application by providing adjustable mixing of reagents in microtest plates, PCR plates, deepwell plates and test tubes (shaking tubes 0.2 to 2 ml and vortexing any volume up to 50 ml).

The shaker is compact and user-friendly. The shaker is ideal for personal use.

**MPS-1** features a head for vortexing a single tube.

Shaker can be used in cold rooms or incubators, operating at ambient temperature range +4°C to +40°C. Low voltage external power supply (12 V) provides electrical safety in humid environment.

**MPS-1** features Pulse Mode mixing function that works on the principle of giving a periodic impulse: the tube is accelerated to the set speed, holds it for 3 seconds and then drops the speed to zero. This motion is repeated until the timer runs out. This method provides a constant state of resuspension of the particles inside a tube, as the acceleration is always changing. The advantage of this method is the high throughput of mixed samples compared to vortexing a single tube.

Features:

- Speed control range 300–3,200 rpm
- Smooth mixing with 3 mm orbit
- Mixing presets
- **Pulse Mode** mixing function
- Quiet operation — low noise at maximum speed
- High stability — stationary at maximum speed
- Universal platform holder for Deepwell plates and Microtest plates
- Additional platforms for semi- and unskirted PCR plates 200 µl as well as for tubes from 0.2 to 2 ml
- Can be used in cold rooms or incubators (temperature range +4°C to +40°C)



## CAT. NUMBER

With built-in universal platform	With built-in universal platform
BS-010216-A03	230VAC 50/60Hz Euro plug
BS-010216-A17	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)
With all 4 platforms included	With all 4 platforms included
BS-010216-A11	230VAC 50/60Hz Euro plug
BS-010216-A18	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)

## SPECIFICATIONS

Mixing speed control range	300–3,200 rpm (100 rpm increment)
Universal platform for deepwell plates, 96-well microtest plates (U, V or flat bottomed), 384-well microtest plates	+
Types of mixing presets:	->
VORTEX	3,200 rpm
HARD	2,600 rpm
MEDIUM	1,800 rpm
SOFT	1,000 rpm
CUSTOM	adjustable rpm
Digital time setting	0–60 min (15 s increment) / non–stop
Timer sound signal	+
Maximum continuous operation time	8 h or more - with longer pauses
Orbit	3 mm
Acceleration time to maximum speed	5 sec
Maximum load	0.3 kg
Features a Pulse Mode mixing function	+
Features a Vortex function	+
Noise level, not more	65 dB
Overall dimensions (W×D×H)	225 × 215 × 150 mm
Weight	5.1 kg
Input current/power consumption	12 V, 800 mA / 10 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

## ACCESSORIES



**P-02/96**  
BS-010216-CK  
platform

Platform for 96 tubes 0.2 ml or semi-/ unskirted PCR plate.



**P-2/24**  
BS-010216-AK  
platform

For 24 tubes 1.5-2 ml.



**P-05/32**  
BS-010216-BK  
platform

For 32 tubes 0.5 ml.



**P-02/05**  
BS-010216-DK  
platform

For 24 tubes 0.5 ml and 48 tubes 0.2 ml.