

MPS-1, High–Speed Multi Plate Shaker



Deepwell plate 1000 µl

Platform for 24 tubes 1.5-2 ml

Platform for 32 tubes 0.5 ml

Platform for 96 tubes 0.2 ml



Microtest plate 200 µl

Semi-/unskirted PCR plate

Deepwell plate 500 µl

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.

The unit is designed for operation in cold rooms, incubators (excluding CO₂ incubators) and closed laboratory rooms at ambient temperature from +4°C to +40°C in a non-condensing atmosphere and maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 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
- Stable mixing with 3 mm orbit
- Five mixing presets
- **Pulse Mode** mixing function
- Quiet operation — low noise at maximum speed
- Universal platform holder for Deepwell plates and Microtest plates
- Additional 4 platforms for semiskirted and unskirted PCR plates 200 µl as well as for tubes from 0.2 to 2 ml

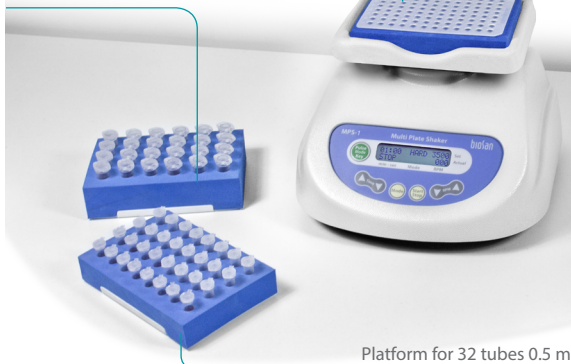


Product video is available on the website



Platform for semi-/unskirted PCR plate 200 µl

Platform for 24 tubes 1.5-2 ml



Platform for 32 tubes 0.5 ml

MPS-1, High-Speed Multi Plate Shaker

SPECIFICATIONS

Vortexing a 50 ml tube



Vortexing a 15 ml tube



Mixing Speed control range	300–3,200 rpm
Platform options:	
– For semi-/unskirted PCR plate or 96 microtest tubes 0.2 ml	P-02/96
– For 24 microtest tubes 1.5-2 ml	P-2/24
– For 32 microtest tubes 0.5 ml	P-05/32
– For 24 microtest tubes 0.5 ml and 48 microtest tubes 0.2 ml	P-02/05
– 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

Features a Pulse Mode mixing function	
Features a Vortex function	
Maximum load	0.3 kg
Mixing Orbit	3 mm
Acceleration time to maximum speed	5 sec
Digital time setting	0–60 min (15 sec increment)/ non-stop
Maximum continuous operation time	8 hrs
Noise level, not more	65 dB
Weight	5.1 kg
Overall dimensions (W×D×H)	225 × 215 × 150 mm
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

Deepwell plate 96/1000 µl

Microtest plate 200 µl

Deepwell plate 96/500 µl



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ORDERING INFORMATION:

MPS-1, Multi Plate Shaker with built-in universal platform	Cat. number	BS-010216-A03
MPS-1, Multi Plate Shaker with built-in universal platform and set of 4 platforms (P-02/96, P-2/24, P-05/32, P-02/05)	Cat. number	BS-010216-A11

Optional platforms:		Cat. number
1 P-02/96	For semi-/unskirted PCR plate or 96 microtest tubes 0.2 ml	BS-010216-CK
2 P-2/24	For 24 microtest tubes 1.5-2 ml	BS-010216-AK
3 P-05/32	For 32 microtest tubes 0.5 ml	BS-010216-BK
4 P-02/05	For 24 microtest tubes 0.5 ml and 48 microtest tubes 0.2 ml	BS-010216-DK

1 Platform P-02/96



2 Platform P-2/24



3 Platform P-05/32



4 Platform P-02/05

