

## Orbital Shaker for Tubes and Plates - MPS-1



### Description

The high-speed shaker, MPS-1, is suitable for many applications. It offers adjustable mixing of reagents in microplates, PCR and deep well plates.

MPS-1 shakes test tubes with a volume of 0.3 to 2 ml and offers a single vortex in the base plate for any volume up to 50 ml.

Shaker can be operated in cold rooms or incubators at a room temperature of +4°C to +40°C. The external low voltage power supply (12 V) provides safety in humid environments.

### Special Pulse Mode Mixing

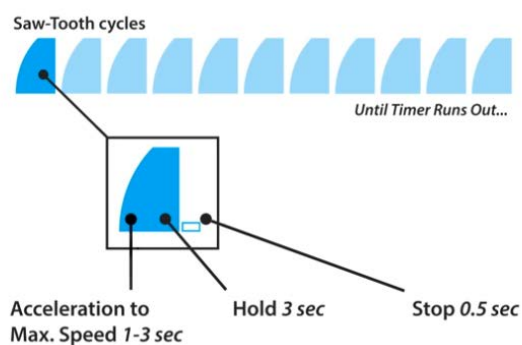
MPS-1 features Pulse Mode mixing function that works on the principle of giving a periodic impulse: the tube is accelerated to the set speed, holds it for 3 seconds and then drops the speed to zero. This motion is repeated until the timer runs out.

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.

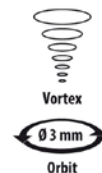
### Specifications

- 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 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)

### Pulse Mode Mixing Function



## Multi Plate Shaker - MPS-1



### Technical Data

Mixing speed control range	300 – 3200 rpm (increment 100 rpm)
Types of mixing presets:	
VORTEX	3200 rpm
HARD	2600 rpm
MEDIUM	1800 rpm
SOFT	1000 rpm
CUSTOM	adjustable rpm
Pulse Mode Mixing	Yes
Vortex	Yes
Maximum load	0.3 kg
Orbit	3 mm
Acceleration time to maximum speed	5 s
Digital time setting	0 – 60 min (15 s increment) / non-stop
Timer sound signal	Yes
Maximum continuous operation	8 h or more - with longer pauses
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
Order No. Shaker MPS-1 with built-in universal platform and set of 4 additional blocks in blue (P-02/96, P-2/24, P-05/32, P-02/05)	105.1220

## Complete Set – Multi Plate Shaker MPS-1

### Sample Platforms

The universal platform and the vortex are built-in the unit.

The additional platforms (in blue) are included in the delivery of the plate shaker MPS-1.



**Universal platform**  
With deep well plate  
96/1000 µl



**Block P-2/24**  
Platform for  
24 x 1.5 – 2 ml tubes



**Universal platform**  
With deep well plate  
96/500 µl



**Block P-05/32**  
Platform for  
32 x 0.5 ml tubes



**Universal platform**  
With microtest plate  
200 µl



**Block P-02/05**  
Platform for  
24 x 0,5 ml and  
48 x 0,2 ml tubes



**Vortex**  
For all tube sizes up to  
50 ml.  
Vortex included in  
universal platform.



**Block P-02/96**  
Platform for  
96 x 0.2 ml tubes or semi-/  
unskirted PCR plates