

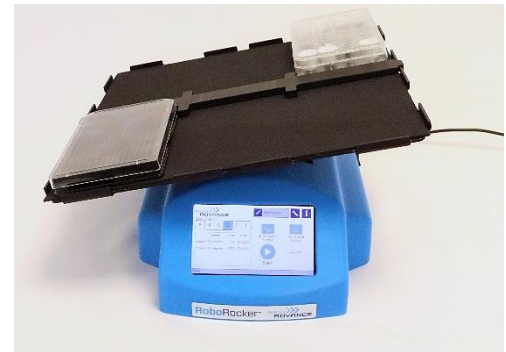
## Description:

The RoboRocker™ is a programmable rocker, ideal for 3D cell and organoid culturing in plates that can be used in CO<sub>2</sub> incubators. Programming the speed, tilt angles, pause times and overall operation is simple with intuitive controls on a large graphics touch screen. This rocker facilitates gravity driven perfusion to occur at the desired flow rate and duration in several culture plates simultaneously. The RoboRocker is ideal for maintaining a constant flow rate of media/fluids for microfluidic platforms in cell culture incubators. It is versatile for other applications as well.

The RoboRocker has more flexibility in tilting, speeds, and pauses, to better mimic in vivo conditions than any other rocker on the market! You can program it to do most anything.

## Features:

- Compatible in a cell culture incubator
- Continuous operation of a programmable cycle which includes:
  - Up to 4 programmable tilt angles (depending on the model).
  - Programmable speed to each tilt angle (depending on the model).
  - Programmable pause can be set or bypassed for each angle, from 1 second to 90 minutes.
- Tilt range: ± 30 degrees.
- Pause times: no pauses, or from 1 second to 1-1/2 hours.
- Speed range: from 1 cycle per week to 40 full cycles/minute.
- Large graphics touch screen with simple and intuitive interface.
- Extensively tested to operate inside a CO<sub>2</sub> incubator.
- Compact design saves space in an incubator.
- Platforms have a removable high grip rubber mat and a positioning bar for placing 6 culture plates to rock along either axis. Stacking platform available. There is clearance for stacking additional plates.
- Racks – an alternative to platforms, securely retain culture plates in individual docks; and provide consistent growth conditions and allow easy access to every plate, in comparison to directly stacked plates.
- Weight Capacity: 11 pounds (5 kg), on platform.
- Plate Capacity:
  - Platform (1 Level) – up to 6 plates without stacking. Additional plates can be stacked.
  - Platform (2 Level) – up to 12 plates without stacking. Additional plates can be stacked.
  - Rack (2 Level) – 6 plates.
  - Rack (4 Level) – 12 plates.
- Made in USA.



*A RoboRocker with a culture plate on the platform. The platform can hold up to 6 culture plates, tilting them to a precise angle so that the culture medium flows past the cells at the desired rate.*



*Two and four level racks are available, with capacities to securely hold 6 and 12 culture plates, respectively. These racks provide more uniform growth conditions, in contrast to stacking plates directly on top of each other, which can lead to uneven exposure and variability.*

## Models

- 3 Firmware Feature levels:
  - **Basic - 210**: rocking with pauses for culture medium to perfuse past the 3D cell or organoid culture. Tilt, speed and pause times are all programmable. The rocking is symmetric – same tilt angle and pause time in both directions.
  - **Standard - 212** (mid-level firmware upgrade): up to 4 tilt angles; store up to 3 programs; extremely slow rocking to maintain constant flow rate, compensating for the liquid level retreating in the reservoir.
  - **Advanced – 214** (top-level firmware upgrade): pulsatile rocking to mimic *in vivo* pulsatile flow; program scheduling to change perfusion conditions over time, store up to 6 programs.

## Several Platform/Rack options:

- **Platform**: 11.5 X 11.5 inches (28 x 28 cm).
  - Comes with a removable high grip rubber mat.
  - Comes with a docking bar to position 6 culture plates on a single platform. Additional plates can be stacked.
  - Optional stacking platform with a removable high grip rubber mat and a docking bar with 6 positions for plates. Additional plates can be stacked on top of each other.
  - Docking bar can be positioned across width or depth of platform, so culture plates can rock across either axis.
  - With docking bar removed, platform can hold petri dishes, other vessels and cartridges, etc.
- **Rack**: 2 level – 6 culture plates; 4 level – 12 culture plates. Racks securely retain culture plates with a light spring force. Racks enable more consistent growth conditions than directly stacked plates.

## Special versions available:

- **High Speed** to reach steep angles quickly for unidirectional shear flow.
- **Heavy Duty** to hold up to 22 pounds (10 kg).
- Other custom options upon request

## Specifications:

Power: 24V DC, 60-Watt UL/CE external power supply

Weight: 8.5 lb. (4 kg)

Height: Models with platform: 4.75 inches (12 cm) high. Allow clearance room above for samples and optional stacking trays. Models with 2-level rack: 6.5 inches (16 cm) high. Models with 4-level rack: 9.5 inches (24 cm) high.

Width: Models with platform: 11.5 inches (29 cm) wide. Models with rack: 8 inches (20 cm) wide. Allow clearance room on both sides for travel.

Depth: Models with platform: 11.5 inches (29 cm) deep. Models with rack: 12.5 inches (32 cm) deep.

Capacity: 11 lb. (5 kg)

Operating Environment: +4°C to +40°C, up to 10% CO<sub>2</sub>, up to 90% RH, non-condensing

Warranty: 1 year

Certifications: CE

MK19-1301C