

*Ideal for microfluidic 3D cell and organoid culture*



## RoboRocker™

For advanced flow control of media in culture plates, for use in an incubator.

### KEY BENEFITS

- > **MIMIC IN VIVO CONDITIONS:** Set angles and pause times to control the flow of the media.
- > **INCUBATOR SAFE:** Use in CO<sub>2</sub> cell culture incubators.
- > **ROCK IT YOUR WAY:** Program any combination of angles, speeds and pause times, including assymmetric rocking, for any flow conditions you want.
- > **RELIABLE:** The rocker will run for years.

The RoboRocker is a programmable rocker designed for pumpless perfusion of media in 3D cell and organoid culture systems. The platform tilts to the programmed angle, pauses for the desired time, from seconds to hours, and then moves to the reverse tilt angle or another desired tilt angle.

The RoboRocker is ideal for maintaining a constant flow rate of media/fluids for microfluidic platforms. It is versatile for other applications as well. It is the best rocker available for mimicking in vivo conditions.

### Programmable

The RoboRocker can be easily programmed for tilt angle, travel rate, and pause times. In some models, up to 4 tilt angles can be set in a single cycle. Travel from one angle to the next is gentle. Pauses at each tilt angle can be individually bypassed or set from 1 second up to many hours.

### Mimic in vivo conditions

Use the RoboRocker to control the flow of the media to mimic in vivo conditions including pulsatile flow (to mimic heart beats and peristalsis) and high shear to promote unidirectional growth of epithelial or endothelial cells.

### Incubator Safe

The RoboRocker is designed to withstand the warm, humid and acidic environments of CO<sub>2</sub> cell culture incubators.

### Long Life

The rocker has a motor that will not wear out, even after many years of use.

### User Friendly

The RoboRocker stores up to 6 programs. It is easy to program, using the large, color, touch screen. It also has a built in test program. Each program has up to 4 settable tilt angles and individually settable pause times and travel rates from one angle to the next.

## FEATURES

- > **COMPACT:** The RoboRocker can easily fit in your incubator.
- > **USER FRIENDLY:** Large graphics touch screen with simple and intuitive interface.
- > **HIGH CAPACITY:** Docks and racks available to hold culture plates and allow aeration of samples.
- > **FLEXIBLE:** Programs are very flexible with individual values for every travel speed, angle and pause time.
- > **CE CERTIFIED**
- > **MADE IN THE USA**

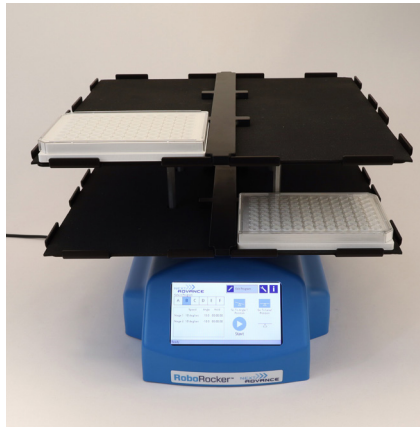
## Expansive Flow Controlability

Speeds can be programmed from blazingly fast to incredibly slow rates measured in degrees per hour. Angles can be precisely programmed up to 30 degrees. Pauses at each programmed angle can be bypassed or set from just one second to hours. No other rocker has this much capability.

## Platforms and Well plate racks

A single platform can accommodate 6 well plates. An optional stacking platform doubles the capacity. The removable docking bar assists in positioning culture plates and can be easily positioned in either orientation, for the plates to rock along their width or length. Plates can be stacked at each dock, although this may limit aeration. The docking bar can be removed to accommodate non-well plate size items as well.

Multiple level well plate racks are also available for holding up to 12 culture plates. Each plate slides into its spot allowing plenty of aeration for optimal growth of cells. This also allows easy accessibility of plates from the incubator. The plates are held in place to prevent movement during rocking.



*This image above shows the RoboRocker with a stacking tray. The culture plates on the lower and upper levels are "docked" with the docking bars.*



*The rack on this RoboRocker securely holds up to 12 culture plates while allowing plenty of aeration.*

## Easy Operation

The RoboRocker can store up to 6 programs, depending on the model. To run an existing program, simply select the program to run and press start.

To create a new program, just select the stored program template to edit. Key in the travel speed, tilt angle and pause duration and save.

## Custom Rockers

Custom platforms. Custom program features. Custom options. Please inquire.

## FOR MORE INFORMATION, CONTACT

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