

NEW

Multi Wave Series

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Bench-top shakers

Equipped with TAITEC's uniquely developed innovative shaking mechanism
* High durability with remarkable energy-saving performance

Pendulum Drive

Seesaw shaking ▶ SI-030R



Swirling Drive

Wavelike rocking shaking ▶ PR-030R



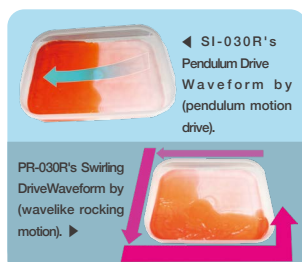
N. Cradle Drive

Cradle shaking ▶ CD-030R



● New mechanisms: About Pendulum Drive and Swirling Drive

The SI-030R and PR-030R are upgraded models that improve upon our compact tabletop shaker Wave Series. The SI-030R features the new Pendulum Drive mechanism (pendulum motion drive), while the PR-030R features the new Swirling Drive mechanism (wavelike rocking motion; the fulcrum is fixed and the point of force moves, like swirling a brandy glass), reducing pulsation of shaking load to achieve smooth operation and improved durability. Additionally, by utilizing this mechanism, changing the shaking angle has become easier.

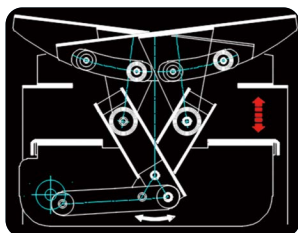


● Completely new shaking method: N. Cradle Drive (cradle shaking)



The N. Cradle Drive / Newton Cradle Drive (cradle motion drive) equipped in the CD-030R utilizes the potential and kinetic energy of pendulum motion and links it to cradle motion, thereby reducing pulsating shaking load through its large auxiliary force to achieve smooth operation. The durability of the mechanism has also been greatly improved. It creates a new waveform different from conventional shakers.

● Multi-Wave Series achieving energy savings and high durability with new mechanisms



Each model in the Multi-Wave Series features new mechanisms (Pendulum / Swirling / N. Cradle Drive), effectively reducing the load burden on the shaking platform, significantly improving durability, and achieving long-term stable operation. The power consumption during motor output and the total power consumption of the device at maximum load are nearly equal, meaning there is almost zero loss from the mechanism after the motor, resulting in excellent energy savings. This is a next-generation energy-saving, highly durable model that meets diverse research applications.

● Tilt angle adjustment dial/confirmation window on the front. Improved usability.



SI-030R's
Tilt angle adjustment dial (arrow) and confirmation window

The sister models in the Wave Series, the unit's side the tilt angle adjustment dial and tilt angle confirmation window, which were previously located on the side and back, are now both positioned on the front of the unit. Angle changes and confirmation are now easier.

Model	SI-030R	PR-030R	CD-030R
Shaking method	Seesaw shaking (Pendulum Drive)	Wavelike rocking shaking (Swirling Drive)	Cradle shaking (N. Cradle Drive)
Shaking speed	3 to 30r/min		
Angle	2 to 10° (*1)	3 to 6°	3 to 8°
Effective platform dimensions	300×200mm		
Operating temperature range	+4°C to +40°C (*2)		
Allowable load mass	Approx. 2 kg (excluding optional shaking platform and vessel holder)		
Unit external dimensions/mass	300 x 222 x 160H mm, approx. 6 kg		
Power Supply/Standard accessories	AC100V · 0.5A / Fuse (with built-in fuse holder)		

(*1) Depending on the optional shaking platform or vessel holder, it may not be possible to use it at the upper limits of speed and angle range.

(*2) Specifications may not be met outside the operating temperature range. This may also cause malfunction.

● Options

Product name/Model name	Description
Sticky sheet ST-2030	White adhesive sheet placed on top of the shaking platform for use. 195×295×2Hmm
Universal shaking platform MT-2030	A shaking platform required when using the horizontal fixing clamps for centrifuge tubes listed below. 200×300×23Hmm
Centrifuge tube holder AT-0004	Can horizontally fix centrifuge tubes, stoppered test tubes, 100 ml. colorimetric tubes, etc. Ideal for extraction work. Attach to MT-2030 for use. 1 set holds 4 tubes.



ST-2030



MT-2030



AT-0004

We will sequentially release videos showing the actual operation of the above three models and the movement of liquids placed on the shaker platform.

