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3D, Sunflower Mini-Shaker

Basic Plus Product Class

DESCRIPTION

"Sunflower" **3D** Mini–Shaker provides adjustable three-dimensional smooth rotation of the platform and is designed for mixing blood samples, for minigel staining and destaining, sample washing, blot hybridization reactions.

Mini–Shaker is a compact device with low energy consumption. The use of direct drive and brushless motor allows continuous mixing up to 7 days and ensures reliable, trouble-free operation for more than 2 years.

Non–slip, temperature resistant, silicone mat located on the shaker's platform provides stable position for vessels during shaking. The platform is suitable for placing a versatile dimpled PDM mat for different size tubes.

Mini–Shaker can be used in cold rooms or incubators, operating at ambient temperature range +4°C to +40°C.

Optional dimpled mat **PDM** prevents different size tubes from rolling around the platform.

SPECIFICATIONS

Speed control range	5–60 rpm
Fixed tilt angle	7°
Direct drive mechanism	+
Maximum continuous operation time	168 h
Maximum load	1 kg
Platform working area	215x215 mm
Overall dimensions (W×D×H)	235x235x140 mm (with platform)
Weight	1.2 kg
Input current/power consumption	12 V, 260 mA/3.1 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

CAT. NUMBER

BS-010151-AAG	230VAC 50/60Hz Euro plug
BS-010151-AAK	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)
BS-010151-AK	IQ OQ document
BS-010151-BK	PQ document

PDM
PDM
dimpled mat

Dimpled mat PDM prevents different size tubes from rolling around the platform.

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Bio RS-24, Mini-rotator

Basic Plus
Product Class

DESCRIPTION

Mini-rotator **Bio RS-24** provides vertical rotation of the platform. The rotator is an ideal instrument for preventing blood coagulation in tubes and for fulfilment of procedures of biological components extraction.

The device is simple to operate; it is designed as a low cost solution.

Rotator can be used in cold rooms or incubators, operating at ambient temperature range +4°C to +40°C.

PRS - series platforms are equipped with universal rubber clamps for different size tube fixation;
PRSC - series platforms have metal clamps able to hold heavier solutions (e.g. soil, sand)

SPECIFICATIONS

Speed control range	5-30 RPM
Digital time setting	1 min–24 hrs / non–stop (increment 1 min)
Vertical rotation movement	overhead, 360°
Maximum continuous operation time	8 h
Maximum load	0.375 kg
Overall dimensions (W×D×H)	325×190×155 mm
Weight	1.4 kg
Input current/power consumption	12 V, 110 mA/1.3 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

CAT. NUMBER

Including PRS-22 platform	Including PRS-22 platform
BS-010133-AAG	230VAC 50/60Hz Euro plug
BS-010133-AAK	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)
BS-010133-BK	IQ OQ document
BS-010133-CK	PQ document

ACCESSORIES

PRS-22
BS-010117-FK
platform

Can accommodate 22 tubes, 10-16 mm diameter (1.5 ml - 15 ml tubes).

PRSC-18
BS-010117-EK
platform

Can accommodate 18 tubes, 16 mm diameter (15 ml).

PRS-4/12
BS-010117-AK
platform

Can accommodate 4 tubes, 20-30 mm diameter (up to 50ml tubes) and 12 tubes, 10-16 mm diameter (1.5 ml - 15 ml tubes).

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CPS-20, CO_2 Shaker

DESCRIPTION

CO2 Shaker **CPS-20** provides regulated orbital motion of the platform and is designed for use specifically in CO2 incubators. CPS-20 is specifically designed for use in harsh environments such as CO2 and humidity and provides reproducible results for cell culture growth. A choice of 5 interchangeable platforms provides the possibility of performing various procedures and techniques in various cultivation vessels. The specially designed remote controller allows for protection of electronics from CO2 incubator environment, as well as, does not interfere with the experiment.

Shaker CPS-20 incorporates a brushless motor with a guaranteed service life up to 35,000 hours. The unit is equipped with a triple eccentric mechanism for platform motion that provides supreme balancing characteristics, superior reliability and quiet operation. Typical applications include eukaryotic cells cultivation.

SPECIFICATIONS

Speed control range	50 - 250* RPM (increment 10 rpm) *max. speed depends on the load and vessels' shape
Digital time setting	1 min–96 hrs / non–stop (increment 1 min)
Digital speed control	+
Maximum continuous operation time	168 h
Orbit	20 mm
Maximum load	3 kg
Overall dimensions (W×D×H)	255x255x100 mm
Weight	3.4 kg
Input current/power consumption	12 V, 470 mA / 5.7 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

CAT. NUMBER

Without platform	Without platform
BS-010172-A01	230VAC 50/60Hz Euro plug
BS-010172-A02	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)

ACCESSORIES

UP-12
BS-010108-AK
platform

Universal platform with adjustable bars for different types of flasks, bottles, and beakers with silicone mat.

Bio PP-4
BS-010116-AK
platform

Flat platform with non-slip silicone mat for Petri dishes, culture flasks, agglutination.

P-12/100
BS-010108-EK
platform

Platform with clamps for flasks.

P-6/250
BS-010108-DK
platform

Platform with clamps for flasks.

P-16/88
BS-010116-BK
platform

Platform with spring holders for up to 88 tubes up to 30 mm diameter (e. g. 10 ml, 15 ml, 50 ml tubes).

HB-200
BS-010108-FK

Additional holding bar for UP-12

RS2
BS-010425-HK
rack for CPS-20 / CTR-6 installation

Rack for CPS-20 / CTR-6 installation

S-Bt Smart Biotherm
Software included + RS6, rack with 3 shelves
Compact CO_2 Incubator

S-Bt Smart Biotherm is designed for work in the areas of cell biology (operations with animal cell cultures and tissues), molecular biology (DNA/RNA reaction analysis, hybridization reactions), biotechnology (synthesis of ...

read more

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CTR-6, CO_2 Tube roller

DESCRIPTION

CO_2 Tube Roller **CTR-6** provides regulated rocking and rolling of maximum up to 6 rollers and is designed for use specifically in CO_2 incubators. CTR-6 is specifically designed for use in harsh environments such as CO_2 and humidity and provides reproducible results for cell culture growth. Possibility to remove rollers makes the unit flexible and allows for performing various procedures and techniques in various cultivation vessels. The specially designed remote controller allows for protection of electronics from CO_2 incubator environ-ment, as well as does not interfere with the experiment.

Tube roller **CTR-6** incorporates a stepper motor with a guaranteed service life up to 10000 hours. It is possible to stack up to 3 units, saving valuable bench space. Typical applications include cells cultivation (eukaryotic, microbial) and general mixing (resuspension, viscous and liquid-solid suspensions).

SPECIFICATIONS

Speed control range	5 - 80* RPM (increment 1 rpm) *max. speed depends on the load and vessels' shape
Digital time setting	1 min–96 hrs / non–stop (increment 1 min)
Tilt angle	4°
Digital speed control	+
Maximum load	3 kg
Overall dimensions (W×D×H)	310x262x80 mm
Weight	3 kg
Input current/power consumption	12 V, 415 mA / 5 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

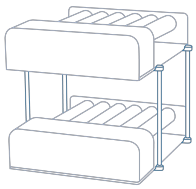
CAT. NUMBER

BS-010174-A01	230VAC 50/60Hz Euro plug
BS-010174-A02	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)

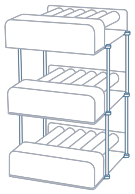
ACCESSORIES

RS2
BS-010425-HK
rack for CPS-20 / CTR-6 installation

Rack for CPS-20 / CTR-6 installation



Stacking kit for 2 x CTR-6
BS-010174-BK



Stacking kit for 3 x CTR-6
BS-010174-CK

S-Bt Smart Biotherm
Software included + RS6, rack with 3 shelves
Compact CO_2 Incubator

S-Bt Smart Biotherm is designed for work in the areas of cell biology (operations with animal cell cultures and tissues), molecular biology (DNA/RNA reaction analysis, hybridization reactions), biotechnology (synthesis of ...

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MPS-1, High–Speed Multi Plate Shaker

Premium Product Class

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.

Shaker can be used in cold rooms or incubators, operating at ambient temperature range +4°C to +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
- 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 200 µl 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)

CAT. NUMBER

With built-in universal platform	With built-in universal platform
BS-010216-A03	230VAC 50/60Hz Euro plug
BS-010216-A17	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)
With all 4 platforms included	With all 4 platforms included
BS-010216-A11	230VAC 50/60Hz Euro plug
BS-010216-A18	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)

SPECIFICATIONS

Mixing speed control range	300–3,200 rpm (100 rpm increment)
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
Digital time setting	0–60 min (15 s increment) / non–stop
Timer sound signal	+
Maximum continuous operation time	8 h
Orbit	3 mm
Acceleration time to maximum speed	5 sec
Maximum load	0.3 kg
Features a Pulse Mode mixing function	+
Features a Vortex function	+
Noise level, not more	65 dB
Overall dimensions (W×D×H)	225 × 215 × 150 mm
Weight	5.1 kg
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

ACCESSORIES

P-02/96
BS-010216-CK
platform

Platform for 96 tubes 0.2 ml or semi-/ unskirted PCR plate.

P-2/24
BS-010216-AK
platform

For 24 tubes 1.5-2 ml.

P-05/32
BS-010216-BK
platform

For 32 tubes 0.5 ml.

P-02/05
BS-010216-DK
platform

For 24 tubes 0.5 ml and 48 tubes 0.2 ml.

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MR-1, Mini-Rocker Shaker

Basic Plus
Product Class

DESCRIPTION

Mini Rocker–Shaker **MR-1** provides regulated gentle rocking motion of the platform and is ideal for mini gel destaining after electrophoresis, conducting Northern, Southern and Western blot analysis.

Shaker is a compact, noiseless device designed for personal use. The use of direct drive and brushless motor allows continuous mixing up to 7 days and ensures reliable, trouble-free operation for more than 2 years.

Non–slip, temperature resistant, silicone mat located on the rocker's platform provides stable position for vessels during shaking. Optional dimpled PDM mat fixes tubes of different sizes.

Shaker can be used in cold rooms or incubators, operating at ambient temperature range +4°C to +40°C

Optional dimpled mat **PDM** prevents different size tubes from rolling around the platform.

SPECIFICATIONS

Mixing frequency range	1–30 oscil/min
Digital time setting	1 min-24 hrs / non-stop
Fixed tilt angle	7°
Direct drive mechanism	+
Maximum continuous operation time	168 h
Display	LED
Maximum load	1 kg
Non-slip silicone mat is supplied as standard	+
Platform working area	215x215 mm
Overall dimensions (W×D×H)	220x205x120 mm
Weight	2.1 kg
Input current/power consumption	12 V, 320 mA / 3.8 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

CAT. NUMBER

BS-010152-AAG	230VAC 50/60Hz Euro plug
BS-010152-AAK	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)
BS-010107-BK	IQ OQ document
BS-010107-CK	PQ document

ACCESSORIES

PDM
PDM
dimpled mat

Dimpled mat PDM prevents different size tubes from rolling around the platform.

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MR-12, Rocker-Shaker

Premium Product Class

DESCRIPTION

MR-12 Rocker–Shaker provides both soft and intensive mixing of solutions or nutrient media in vessels or plastic bags placed on the platform. Adjustable speed and platform tilt angle allows setting parameters for optimal solution transfer and mixing.

The device is ideal for gel destaining after electrophoresis and homogenisation of bioextraction media. It is optimal for biomolecule hybridization on strips and for staining/destaining procedures. When installed inside a bioincubator it is ideal for growing cells and cell cultures in disposable plastic reactor-bags (working volumes up to 10 liters, media volumes up to 5 liters).

Rocker–Shaker can be used in cold rooms or incubators, operating at ambient temperature range +4°C to +40°C. Low voltage external power supply (12 V) provides electrical safety in humid environment.

SPECIFICATIONS

Mixing frequency range	1–99 oscill/min (increment 1 oscill/min)
Digital time setting	1 min–99 hrs 59 min (increment 1 min) / non-stop
Timer sound signal	+
Tilt angle range (for 1–50 oscill/min)	0°–10° (increment 1°)
Fixed tilt angle (for 51–99 oscill/min)	10°
Maximum continuous operation time	168 h
Display	LCD, 16 x 2 signs
Maximum load	5 kg
Platform working area	480 x 380 mm
Overall dimensions (W×D×H)	430 × 480 × 210 mm
Weight	11.9 kg
Input current/power consumption	12 V, 1.1 A / 13 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

CAT. NUMBER

BS-010130-AAI	230VAC 50/60Hz Euro plug
BS-010130-AAQ	230VAC 50/60Hz UK plug
BS-010130-AA4	230VAC 50/60Hz AU plug
BS-010130-AAJ	100VAC 50/60Hz US plug, 120VAC 60Hz US plug
BS-010130-BK	IQ OQ document
BS-010130-CK	PQ document

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Multi Bio 3D, Programmable mini-shaker

Premium Product Class

DESCRIPTION

Programmable mini-shaker **Multi Bio 3D** is designed for a variety of applications: hybridization reactions, cell growing, gel washing, soft extraction and homogenisation of biological components in solutions.

Multi Bio 3D provides realization of several types of motion in one module. This option of Biosan instruments essentially extends possibilities and enhances efficiency of preparation of test samples as well as allows selecting the mixing type according to individual requirements.

Microprocessor control allows performing not only (**1**) **Orbital 3D rotation** of the platform, but also (**2**) (**Reciprocal 3D motion** (of ping–pong type) as well as (**3**) **Soft vibrating rocking**. These three motion types can be performed separately, pairwise and in cycles, periodically repeating the sequence of three motion types. The shaker is designed for laboratories with increased demands for quality of mixing, extraction and cell growing processes.

Non–slip, temperature resistant, silicone mat located on the shaker platform provides stable position for vessels during shaking. Optional dimpled PDM mat fixes tubes of different sizes.

Programmable shaker can be used in cold rooms or incubators, operating at ambient temperature range +4°C to +40°C.

Optional dimpled mat **PDM** prevents different size tubes from rolling around the platform.

SPECIFICATIONS

Speed control range	1 - 100 RPM (Orbital and reciprocal motion) (1) (2)
Timer sound signal	+
Turning angle	0°–360° (increment 30°) (Reciprocal motion) (2)
Rocking angle	0°–5° (increment 1°) (Vibro motion) (3)
Fixed platform tilt angle	7°
Maximum continuous operation time	24 hours
Orbit	22 mm
Maximum load	1 kg
Non-slip silicone mat is supplied as standard	+
Time setting range for (1) (2)	0-250 sec
Time setting range for (3)	0-5 sec
Number of cycles	0 - 125 times
Platform working area	215x215 mm
Overall dimensions (W×D×H)	235x235x140 mm (with platform)
Weight	1.8 kg
Input current/power consumption	12 V, 380 mA / 4.6 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

CAT. NUMBER

BS-010125-AAG	230VAC 50/60Hz Euro plug
BS-010125-AAK	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)
BS-010125-BK	IQ OQ document
BS-010125-CK	PQ document

PDM
PDM
dimpled mat

Dimpled mat PDM prevents different size tubes from rolling around the platform.

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Multi Bio RS-24, Programmable rotator

Premium Product Class

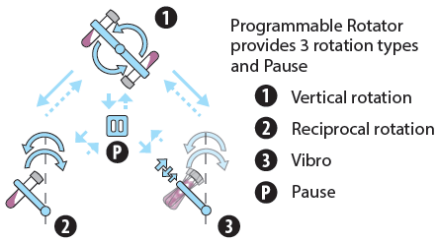
DESCRIPTION

Programmable Rotator **Multi Bio RS-24** performs several motion types in one module. Microprocessor control allows performing not only Vertical rotation (1) of the platform, but also Reciprocal rotation (2) as well as Vibration (3). These three motion types can be performed separately, pairwise and in cycles, periodically repeating the sequence of three motion types. Multi–Rotation option of Biosan instruments substantially expands possibilities and enhances efficiency of sample preparation for the examined materials and allows adjusting the mixing procedure according to the individual tasks.

Programmable Rotator can be used for variety of applications in modern life science laboratories: for hybridization reactions, cell growing, soft extraction and homogenisation of biological components in solutions, as well as for reactions of binding and washing of magnetic particles.

During the stop mode the platform does not perform extra turnover and stops in a horizontal plane. Additionally there is a possibility of setting the plane with respect to which platform oscillates vertically or horizontally.

Programmable Rotator can be used in cold rooms or incubators, operating at ambient temperature range +4°C to +40°C. Low voltage external power supply (12 V) provides electrical safety in humid environment.



PRS — series platforms are equipped with universal rubber clamps for different size tube fixation;
PRSC — series platforms have metal clamps able to hold heavier solutions (e.g. soil, sand).

CAT. NUMBER

Including PRS-26 platform	Including PRS-26 platform
BS-010117-AAG	230VAC 50/60Hz Euro plug
BS-010117-AAK	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)
BS-010117-MK	IQ OQ document
BS-010117-NK	PQ document

SPECIFICATIONS

Digital time setting	1 min–24 hrs / non–stop (increment 1 min)
Timer sound signal	+
Vertical rotation speed control range	1-100 rpm (increment 1 rpm)
Vertical rotation movement	overhead, 360°
Vertical rotation time setting range	0 - 250 sec
Maximum continuous operation time	168 h
Reciprocal rotation speed control range	1–100 rpm (increment 1 rpm)
Reciprocal rotation tilt angle range	1° - 90° (increment 1°)
Reciprocal rotation time setting range	0 - 250 sec
Vibro rotation tilt angle range	0° - 5° (increment 1°)
Vibro rotation Pause / Vibro time setting range	0 - 5 sec
Maximum load	0.5 kg
Overall dimensions (W×D×H)	365x195x155 mm
Weight	1.7 kg
Input current/power consumption	12 V, 660 mA / 8 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

ACCESSORIES

PRS-26
BS-010117-GK
platform

Can accommodate 26 tubes 10-16 mm diameter (1.5-15 ml).

PRS-5/12
BS-010117-HK
platform

5 tubes 20-30 mm diameter (50 ml tubes) and 12 tubes 10-16 mm diameter (1.5-15 ml tubes).

PRS-10
BS-010117-IK
platform

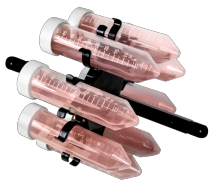
10 tubes 20-30 mm diameter (up to 50 ml tubes).

PRSC-22
BS-010117-LK
platform

Can accommodate 22 tubes 16 mm diameter (15 ml).

PRSC-10
BS-010117-JK
platform

10 tubes 25-30 mm diameter (50 ml tubes).



M-8/50
BS-010117-PK
platform

Roller platform, 8 tubes 25-30 mm diameter (50 ml tubes). Application: hybridization reactions.

PRS-1DP
BS-010149-DK
platform

Platform for microplates and racks for tall tubes 0.5 and 1 ml (e.g. Thermo 3741MTX, 3742MTX, 3744MTX).

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Multi RS-60, Programmable rotator

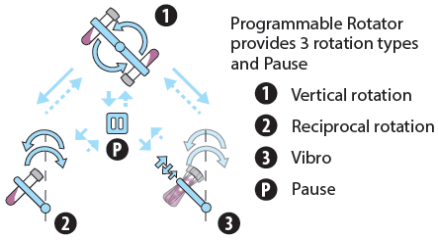
Premium Product Class

DESCRIPTION

Programmable Rotator **Multi RS-60** performs several motion types in one module. Microprocessor control allows performing not only Vertical rotation (1) of the platform, but also Reciprocal rotation (2) as well as Vibration (3). These three motion types can be performed separately, pairwise and in cycles, periodically repeating the sequence of three motion types. Multi–rotation option of Biosan instruments substantially expands possibilities and enhances efficiency of sample preparation for the examined materials and allows adjusting the mixing procedure according to the individual tasks.

Programmable Rotator can be used for variety of applications in modern life science laboratories: for hybridization reactions, cell growing, soft extraction and homogenisation of biological components in solutions, as well as for reactions of binding and washing of magnetic particles.

During the stop mode the platform does not perform extra turnover and stops in a horizontal plane. Additionally there is a possibility of setting the plane with respect to which platform oscillates vertically or horizontally.



SPECIFICATIONS

Digital time setting	1 min–24 hrs / non–stop (increment 1 min)
Timer sound signal	+
Vertical rotation speed control range	1–100 rpm (increment 1 rpm)
Vertical rotation movement	overhead, 360°
Vertical rotation time setting range	0 - 250 sec
Maximum continuous operation time	168 h
Reciprocal rotation speed control range	1–100 rpm (increment 1 rpm)
Reciprocal rotation tilt angle range	1° - 90° (increment 1°)
Reciprocal rotation time setting range	0 - 250 sec
Vibro rotation tilt angle range	0° - 5°(increment 1°)
Vibro rotation Pause / Vibro time setting range	0 - 5 sec
Maximum load	0.8 kg
Overall dimensions (W×D×H)	430x230x230 mm
Weight	3.8 kg
Input current/power consumption	24 V, 750 mA / 18 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 24 V

CAT. NUMBER

Including PRS-48 platform	Including PRS-48 platform
BS-010118-AAI	230VAC 50/60Hz Euro plug
BS-010118-AAQ	230VAC 50/60Hz UK plug
BS-010118-AA4	230VAC 50/60Hz AU plug
BS-010118-AA2	100VAC 50/60Hz US plug, 120VAC 60Hz US plug
BS-010118-DK	IQ OQ document
BS-010118-EK	PQ document

ACCESSORIES

PRS-14
BS-010118-BK
platform

14 tubes 20-30 mm diameter (50 ml tubes).

PRS-48
BS-010118-CK
platform

48 tubes 10-16 mm diameter (1.5 ml-15 ml tubes).

PRS-8/22
BS-010118-AK
platform

8 tubes 20-30 mm diameter (50 ml tubes), 22 tubes 10-16 mm diameter (1.5 ml-15 ml tubes).

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PSU-2T, Mini-shaker for immunology

Basic Plus
Product Class

DESCRIPTION

Mini–Shaker **PSU-2T** is designed for immunoassays and provides adjustable mixing of reagents in microplates. The device ensures smooth movement of the platform even at low speeds.

Shaker is a compact and user-friendly device. It takes up little space on a desk and is ideal for personal use. The use of direct drive and brushless motor allows continuous mixing up to 7 days and ensures reliable, trouble-free operation for more than 2 years. Display of the device switches between time and speed readings.

Shaker can be used in cold rooms or incubators, operating at ambient temperature range +4°C to +40°C.

SPECIFICATIONS

Speed control range	150–1,200 rpm
Digital time setting	1 min–24 hrs / non–stop
Direct drive mechanism	+
Maximum continuous operation time	168 h
Digital setting and control of time and speed	+
Orbit	2 mm
Overall dimensions (W×D×H)	255x255x100 mm
Weight	2 kg
Input current/power consumption	12 V, 280 mA / 3.4 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

CAT. NUMBER

Including IPP-2 platform	Including IPP-2 platform
BS-010155-AAG	230VAC 50/60Hz Euro plug
BS-010155-AAK	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)
BS-010155-AK	IQ OQ document
BS-010155-BK	PQ document

ACCESSORIES

IPP-4
BS-010102-AK
platform

Platform IPP-4

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PSU-10i, Orbital Shaker

Premium Product Class

DESCRIPTION

Shaker **PSU-10i** provides regulated orbital motion of the platform and is designed for use both in small specialized biotechnological laboratories and in large multidisciplinary laboratories: a choice of five (5) interchangeable platforms provides the possibility of performing various procedures and techniques.

Shaker **PSU-10i** incorporates a direct drive system, a brushless motor with a guaranteed service life up to 35,000 hours and an automatic loading balancing system. These innovations allow for continuous mixing up to 7 days, ensure reliable, trouble-free operation for more than 2 years and significantly expand the range of the device performance in both high and low limits.

Shaker can be used in cold rooms or incubators, operating at ambient temperature range +4°C to +40°C.

SPECIFICATIONS

Speed control range	50 - 450* RPM (increment 10 rpm) *max. speed depends on the load and vessels' shape
Digital time setting	1 min–96 hrs / non–stop (increment 1 min)
Timer sound signal	+
Digital speed control	+
Maximum continuous operation time	168 h
Orbit	10 mm
Maximum load	3 kg
Overall dimensions (W×D×H)	255x255x100 mm
Weight	3.4 kg
Input current/power consumption	12 V, 470 mA / 5.7 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

CAT. NUMBER

Without platform	Without platform
BS-010144-AAN	230VAC 50/60Hz Euro plug
BS-010144-AAK	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)
BS-010144-AK	IQ OQ document
BS-010144-BK	PQ document

ACCESSORIES

UP-12
BS-010108-AK
platform

Universal platform with adjustable bars for different types of flasks, bottles, and beakers with silicone mat.

Bio PP-4
BS-010116-AK
platform

Flat platform with non-slip silicone mat for Petri dishes, culture flasks, agglutination.

P-12/100
BS-010108-EK
platform

Platform with clamps for flasks.

P-6/250
BS-010108-DK
platform

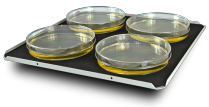
Platform with clamps for flasks.

P-16/88
BS-010116-BK
platform

Platform with spring holders for up to 88 tubes up to 30 mm diameter (e. g. 10 ml, 15 ml, 50 ml tubes).

HB-200
BS-010108-FK

Additional holding bar for UP-12



PP-4
BS-010108-BK
platform

Flat platform with non-slip silicone mat for Petri dishes, culture flasks, agglutination cards.

SPM
BS-010111-BK
double-sided adhesive mat

Double-sided adhesive mat. **SPM** is compatible with **PP-4** platform, that fits both on **PSU-10i** orbital shaker and in **ES-20** Shaker-Incubator.

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PSU-20i, Multi–functional Orbital Shaker

Premium Product Class

DESCRIPTION

Shaker **PSU-20i** provides three motion types: orbital, reciprocal and vibrating, which can be performed separately, pairwise and sequentially in repeated cycles. Shaker is designed for applications both in small specialized laboratories and in large multidisciplinary laboratories. **PSU-20i** is an ideal instrument for laboratories conducting research in biopharmaceutics and biomedicine.

Shaker PSU-20i is noiseless and reliable in operation, incorporates a direct drive system and brushless motor with a guaranteed service life up to 35,000 working hours. The use of direct drive and brushless motor allows for continuous mixing up to 7 days and ensures reliable operation for more than 2 years.

A choice of nine (9) different interchangeable platforms provides possibility of performing various procedures and techniques. Special attention should be paid to a multilevel platform, which allows accommodation of a large number of various microplates, Petri dishes, cultural bags and other low containers.

Shaker can be used in cold rooms or incubators, operating at ambient temperature range +4°C to +40°C.

SPECIFICATIONS

Speed control range	20-250* RPM (increment 5 rpm) * max. speed depends on the load and vessels' shape
Digital time setting	1 min–96 hrs / non–stop (increment 1 min)
Timer sound signal	+
Digital speed control	+
Maximum continuous operation time	168 h
Orbit	20 mm
Maximum load	8 kg
Overall dimensions (W×D×H)	410x410x130 mm
Weight	11.7 kg
Input current/power consumption	12 V, 3.2 A / 40 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

CAT. NUMBER

Without platform	Without platform
BS-010145-ACI	230VAC 50/60Hz Euro plug
BS-010145-ACQ	230VAC 50/60Hz UK plug
BS-010145-AC4	230VAC 50/60Hz AU plug
BS-010145-ACJ	100VAC 50/60Hz US plug, 120VAC 60Hz US plug
BS-010145-CK	IQ OQ document
BS-010145-DK	PQ document

ACCESSORIES

UP-330
BS-010145-AK
platform

Universal platform with adjustable bars can accommodate laboratory glassware of different shapes.

P-30/100
BS-010135-BK
platform

Platform with clamps for flasks.

P-16/250
BS-010135-CK
platform

Platform with clamps for flasks.

P-9/500
BS-010135-AK
platform

Platform with clamps for flasks.

P-6/1000
BS-010135-DK
platform

Platform with clamps for flasks.

PP-20/4
BS-010126-EK
platform

Flat platform with non-slip rubber mat can accommodate various low profile containers.

PP-20/3
BS-010126-DK
platform

Flat platform with non-slip rubber mat can accommodate various low profile containers.

PP-20/2
BS-010126-CK
platform

Flat platform with non-slip rubber mat can accommodate various low profile containers.

PP-20
BS-010126-BK
platform

Flat platform with non-slip rubber mat can accommodate various low profile containers.

UP-168
BS-010135-JK
platform

Universal platform with clamps can accommodate flasks or bottles of different volume sizes. Clamps are not included with platform and need to be ordered separately.

SPML
BS-010135-MK
double-sided adhesive strips

Double-sided adhesive strips. **SPML** is compatible with **UP-168** platform, that fits both on **PSU-20i** orbital shaker and in **ES-20/60, ES-20/80** Shakers-Incubators.

TR-44/15
BS-010135-LK
rack

Adjustable angle test tube rack for UP-168

TR-21/50
BS-010135-KK
rack

Adjustable angle test tube rack for UP-168

FC-50
BS-010126-MK
clamp

Clamp 50 ml - Ø50 mm for UP-168

FC-100
BS-010126-HK
clamp

Clamp 100 ml - Ø65 mm for UP-168

FC-250
BS-010126-JK
clamp

Clamp 250 ml - Ø85 mm for UP-168

FC-500
BS-010126-LK
clamp

Clamp 500 ml - Ø105 mm for UP-168

FC-1000
BS-010126-IK
clamp

Clamp 1000 ml - Ø130 mm for UP-168

FC-2000
BS-010126-NK
clamp

Clamp 2000 ml - Ø165 mm for UP-168

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UIS-360, Universal Inoculation Spinner

Basic Plus
Product Class

DESCRIPTION

The **UIS-360** Universal Inoculation Spinner is a versatile laboratory device designed to streamline microbial plating and ensure consistent results. It provides smooth, uniform rotation for spreading samples across agar surfaces, improving both efficiency and reproducibility in microbiological workflows. With an adjustable speed range of 10–300 RPM – the broadest in its class – the UIS-360 accommodates various protocols from gentle inoculum spreading to vigorous. Its compact footprint and lightweight build make it easy to handle or even take into the field (it runs on just 3.7 W, so it can be powered by a standard 12 V battery pack). The inclusion of a foot-switch for hands-free control and a protective shield for splash protection further enhance user comfort and safety.

Use it for:

- routine culturing and isolation of microorganisms;
- antimicrobial susceptibility testing;
- pathogen detection in patient samples or research;
- epidemiological studies and outbreak investigations;
- microbial contamination analysis in food products;
- quality control and safety assessments;
- monitoring microbial presence in soil, water, and air samples;
- assessing environmental pollution and biodegradation processes;
- sterility testing of products;
- research and development of antibiotics and probiotics;
- educational purposes in teaching microbiological techniques;
- fundamental and applied research in microbial physiology and genetics.

Key Features and Advantages:

- Universal Compatibility - fits both square (125 × 125 mm) and round Petri dishes (up to Ø105 mm) out-of-the-box, and even up to Ø150 mm with an optional adapter.
- Widest Speed Range - adjustable speed control from 10 to 300 RPM – offering the widest range among similar plate spinners.
- Continuous and Hands - free Operation: supports continuous rotation for extended procedures, with an included foot-switch for hands-free control.
- Enhanced Safety - equipped with a protective polycarbonate face shield that guards against accidental splashes and aerosol droplets.
- Compact & Portable Design - measures only 170 × 190 mm on the lab bench, weighs ~0.85 kg, and can even be powered by a 12 V DC power bank.
- Delivers smooth, uniform rotation for even spreading of samples, improving reproducibility between plates.

CAT. NUMBER

BS-010177-A01	230VAC 50/60Hz Euro plug
BS-010177-A02	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)

SPECIFICATIONS

Speed control range	10 - 300 RPM (adjustable)
Operation modes	Continuous operation or foot-switch activation (on/off control)
Maximum continuous operation time	168 h
Plate compatibility	□ up to 125 × 125 mm; ● up to Ø105 mm (platform available for up to Ø150 mm, on request)
Safety features	Removable splash shield, non-slip rubber feet, automatic shutoff on foot-switch release
Overall dimensions (W×D×H)	170x190x110 mm (without shield) 200x190x240 mm (with shield)
Weight	0.85 kg
Input current/power consumption	12 V, 310 mA / 3.7 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

ACCESSORIES

USB-C to power socket 12V adapter
BS-000001-S27

USB-C to power socket 12V adapter intended for use with external power banks.