

转头参数



Mini-A-1 Angle Rotor
1.5/2ml×8
4000rpm/990×g
7000rpm/2910×g
10000rpm/5610×g



Mini-A-2 Angle Rotor
0.2ml×8孔×4排
4000rpm/536×g
7000rpm/1643×g
10000rpm/3354×g



Mini-A-3 Angle Rotor
1.5ml×6+0.5ml×6
+0.2ml×8×2
4000rpm/912×g
7000rpm/2793×g
10000/5701×g



A-1.1 adapter
0.5ml



A-1.2 adapter
0.2ml

Host Parameters

Product model	Mini-3S/Mini-3S-C(On board)		
Input power supply	AC100-250V/50/60Hz		
Input power	25W		
motor	DC24V/DC permanent magnet motor		
control mode	ST16 bit MCU/PWM/segmented speed; Button cycle switching control		
Power fuse	PPTC/Self recovery fuse/No need to replace		
Speed display	Corresponding LED light display		
Turnhead capacity	Angle rotor: 2/1.5/0.5/0.2ml×8 PCR Angle rotor: 0.2ml×8×4 Angle rotor: 1.5ml×6+0.5ml×6+0.2ml×8×2		
Maximum speed	10000r/min. ±3%		
Single stage speed	4K(4000r/min.)	7K(7000r/min)	10K(10000r/min)
Maximum relative centrifugal force of a single section[× G]	4K(990×g)	7K(2910×g)	10K(5610×g)
Size: Long × wide × Height [mm]	155×168×118mm		
weight	1.3Kg		
Noise at maximum speed (≈)	4K(≤40dB(A))	7K(≤43dB(A))	10K(≤45dB(A))
Fastest acceleration time [sec]	4K (≤3s)	7K (≤3s)	10K (≤10s)
Maximum deceleration time [sec]	4K (≤5s)	7K (≤5s)	10K (≤12s)
Protection level	IP20		
Permissible ambient temperature/relative humidity	+5-40°C/80%		
Interference suppression standard	EN 61010-1,EN 61010-2-020,EN 61326-1,EN 61010-3-2/A2		

Angle rotor information

Note: When the ambient temperature is 23 °C

Part.No.	Part Name	Tube specification	refer to	Standard/optional
M.01.001	Mini-3S	-	-	-
L.02.022	Mini-A-1	PP round/conical bottom with cover	Host	Standard
L.02.023	Mini-A-2	PP cone bottom PCR tube with cover	Host	Standard
L.02.027	Mini-A-3	PP round/conical bottom with cover	Host	Standard
L.06.002	Mini-AP-1	PP cone bottom with cover	Mini-A-1	Standard
L.06.001	Mini-AP-2	PP cone bottom with cover	Mini-A-1	Standard

M3 Mini vortex mixer

Main purpose

The mini vortex mixer is manufactured using the design concept of compression type circular eccentric rotary oscillation to generate vortices. Its appearance is simple, smooth, and beautiful, with a low center of gravity structure that is compact and firm, and easy to operate. Its constant speed ensures that it can quickly handle sample mixing.

Product Explanation



Product advantages

- The body is equipped with a power indicator light, allowing users to keep track of the instrument's usage status at any time;
- The oscillating gasket is made of wear-resistant silicone material, which has a longer service life;
- Zinc alloy integrated base, low center of gravity balance, stable operation without displacement during use;
- Small volume, large amplitude;
- External battery packs can be connected to meet on-site inspection needs outside of the laboratory;

Host Parameters

Product model	M3
Input power supply	DC12V/1A
Input power	10W
Motor/Drive Method	DC12V DC permanent magnet motor/direct drive
Operation mode	Press type jog operation
Maximum load	0.6Kg
Fixed speed	4000rpm±5%
Oscillation mode	circumference
Circumferential diameter	4.5mm
Size: Long × wide × high	95mm×95mm×80mm
weight	0.9kg
Noise at maximum speed	≤40dB(A)
Permissible ambient temperature/relative humidity	+5-40°C/80%
Protection level	IP20
Interference suppression standard	EN 61010-1, EN 61010-2-020, EN 61326-1, EN 61010-3-2/A2

Note: When the ambient temperature is 23 °C

Host Information

Part.No.	Part Name	Tube specification	refer to	Standard/optional
M.01.029	M3	-	-	-



M6 Vortex mixer

Main purpose

Adopting advanced design concepts and manufacturing technology, the model has a simple, smooth and beautiful appearance, a compact and firm structure, which ensures its high universality and easy operation, ensuring that it can quickly handle the mixing of liquid, liquid solid, powder and other substances.

Product Explanation



Product advantages

- There are two safe operation modes, "jog" and "continuous", which are convenient and easy to switch. The time function has a positive and countdown function, making the experiment more convenient, accurate, and accurate;
- Complete the work at high speed, high efficiency, and high thoroughness with any liquid or powder that needs to be mixed in the shortest possible time;
- The perfect optimization design of the body structure ensures sufficient counterweight and eccentric balance operation, providing a stable and quiet working platform for various oscillation and mixing;
- The ST intelligent analysis and processing platform can sensitively respond to various mode work requirements, fully equipped with fast processing chipsets and electronic sensing technology, easily achieving intelligent control of speed, time, and working mode;
- The permanent magnet DC motor is not easy to generate heat and has over temperature protection characteristics, ensuring long-term trouble-free operation under high-speed mixing. It is simple and integrated, without the need for redundant accessories, reducing running resistance, becoming more powerful, reducing noise, and avoiding interference;

Fixture parameters



M6-1 shim
3000rpm



M6-2 shim
3000rpm



M6-3 clamp
1.5ml×14
1500rpm

Host Parameters

Product model	M6
Input power supply	DC24V/1.5A
Input power	20W
Motor/Drive Method	DC24V permanent magnet motor/direct drive
control mode	PWM stepless speed regulation
Operation mode	Jog: Light sensing action/continuous mode
Power fuse	PPTC/Self recovery fuse/No need to replace
Maximum load	1.0Kg
Speed range	200-3,000r/min.±5%
Oscillation mode	circumference
Circumferential diameter	4.5mm
Speed function/display	Full range of bright LCD
Time function	Digital timing 1S-999min/countdown/jog timing
Size: Long × wide × high	127mm×147mm×128mm
weight	3.5kg
Noise at maximum speed	≤48dB(A)
Fastest acceleration time [sec]	≤3s
Maximum deceleration time [sec]	≤3s
Permissible ambient temperature/relative humidity	+5~40°C/80%
Protection level	IP20
Interference suppression standard	EN 61010-1,EN 61010-2-020,EN 61326-1,EN 61010-3-2/A2

Note: When the ambient temperature is 23 °C

Fixture information

Part.No.	Part Name	Tube specification	refer to	Standard/optional
M.01.030	M6	-	-	-
L.04.012	M6-1	Test tubes and small containers with a diameter not exceeding 50mm	Host	Standard
L.04.011	M6-2	Mixing of flasks, containers, or multiple test tubes with a diameter not exceeding 85mm	Host	Standard
L.04.001	M6-3	Test tube with a diameter of 10mm and a number of 14 holes	Host	Standard

M8 Multifunctional oscillation mixer

Main purpose

The M8 multifunctional oscillation mixer adopts advanced design concepts and manufacturing technology, with a simple, smooth and beautiful appearance, and a compact and firm structure. This model has the advantages of high universality and easy operation, ensuring that it can quickly handle micro plate and small tube types of oscillation mixing experiments.

Product Explanation



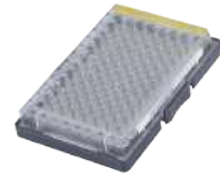
Fixture parameters



M8-1 shim
3000rpm



M8-2 shim
3000rpm



M8-3 clamp
酶标板
1500rpm



M8-4 clamp
1.5ml×30
1500rpm



M8-5 clamp
15ml×5
1500rpm



M8-6 clamp
5/8ml×16
1500rpm



M8-7 clamp
10ml×12
1500rpm



M8-8 clamp
PCR0.2ml×8×12
PCR96
1500rpm



M8-9 clamp
15ml×12
1500rpm



M8-10 clamp
50ml×2
1500rpm



M8-11 clamp
Penicillin bottle×4
1500rpm

Product advantages

- The ST intelligent analysis and processing platform can sensitively respond to various mode work requirements, fully equipped with fast processing chipsets and electronic sensing technology, easily achieving intelligent control of speed, time, and working mode;
- A richer range of fixture accessories to meet the needs of test tube and board experiments with different capacities, and efficient expansion to ensure rapid experimental progress;
- The perfect optimization design of the body structure ensures sufficient counterweight and eccentric balance operation, providing a stable and quiet working platform for various oscillation and mixing;
- The high-efficiency permanent magnet rotor makes the motor less prone to heating and has over temperature protection characteristics, ensuring long-term trouble-free operation under high-speed mixing. It is designed without carbon brushes, simple and integrated, without the need for redundant accessories, reducing running resistance, making it more powerful, reducing noise, and avoiding interference;
- There are two safe operation modes, "jog" and "continuous", which are convenient and simple to switch. They can quickly identify the highest speed of various fixtures, ensuring their safe use. The time function has a positive and countdown function, making the experiment more convenient and accurate;

Host Parameters

Product model	M8
Input power supply	DC24V/2A
Input power	18W
Motor/Drive Method	DC24V permanent magnet brushless motor/direct drive
control mode	PWM stepless speed regulation
Operation mode	Jog: press/continuous mode
Power fuse	PPTC/Self recovery fuse/No need to replace
Maximum load	1.5Kg
Speed range	200-3,000r/min.±15rpm
Oscillation mode	circumference
Circumferential diameter	4.5mm
Fixture identification function	Automatic recognition/safe and efficient
Speed function/display	All segments/bright LED Nixie tube
Time function	Digital timing 1S-999min. Countdown/jog timing
Size: Long × wide × high	198mm×138mm×67mm
weight	4.1kg
Noise at maximum speed	≤45dB(A)
Fastest acceleration time	≤3s
Fastest deceleration time	≤3s
Permissible ambient temperature/relative humidity	+5~40°C/80%
Protection level	IP20
Interference suppression standard	EN 61010-1,EN 61010-2-020,EN 61326-1,EN 61010-3-2/A2

Note: When the ambient temperature is 23 °C

Fixture information

Part.No.	Part Name	Tube specification	refer to	Standard/optional
M.01.028	M8	-	-	-
L.04.012	M8-1	Test tubes and small containers with a diameter not exceeding 50mm	Host	Standard
L.04.002	M8-2	Flask containers with a diameter not exceeding 85mm	Host	Standard
L.04.016	M8-3	Enzyme labeling plate	Host	Standard
L.04.003	M8-4	Test tubes with a diameter of 10mm and a quantity of 30 holes	Host	Standard
L.04.004	M8-5	Test tube with a diameter of 17mm and a quantity of 5 holes	Host	Standard
L.04.005	M8-6	Test tubes with a diameter of 12-13mm and a quantity of 16 holes	Host	Standard
L.04.006	M8-7	Sampling bottle with a circular hole diameter of 15mm and a quantity of 12 holes	Host	Optional
L.04.007	M8-8	PCR0.2ml × 8 tubes or 0.2ml test tube PCR96 well plate for use	Host	Optional
L.04.008	M8-9	Test tube with a diameter of 17mm and a quantity of 12 holes	Host	Optional
L.04.009	M8-10	50ml circular hole, 2-hole conical/circular bottom test tube	Host	Optional
L.04.010	M8-11	A penicillin bottle/sampling bottle with a diameter of 25mm and a quantity of 4 holes	Host	Optional

M8S-T

Microporous plate oscillation mixer

Main purpose

The M8S-T microporous plate oscillator adopts advanced design concepts and manufacturing technology, mainly used for mixing and oscillation of solutions in enzyme labeling plates (96 well plates/384 well plates), cell culture plates (24 well plates, 48 well plates, 96 well plates, etc.), and can be used in experiments such as immunoassay and staining. It can be used in low room temperature environments or incubators. The product has a compact appearance, simple and convenient operation, safety, stability, and no noise.

Product Explanation



Product advantages

- 3-inch LCD highlight screen, real-time display of system operation status and parameters;
- Microprocessor controlled speed and time, accurate oscillation speed, small fluctuations, safe, stable, and noise free;
- Can place 4 standard enzyme-linked plates or microplates for efficient mixing of trace samples;
- Equipped with power outage recovery function, the instrument can automatically resume operation according to the original set program after power outage recovery;
- A convenient fixing bracket for easy and fast installation of microporous plates;
- DC brushless motor drive, long service life, can provide soft or strong oscillation;

Host Parameters

Product model	M8S-T
Input power supply	AC100~250V/50/60Hz
output power	25W
Speed range	200~1500r/min.
Speed accuracy	±10rpm
control mode	PWM stepless speed regulation
Operation mode	Continuous/Pulse/Jog
Programmable parameter storage	10 built-in storage programs
Oscillation mode	circumference
Circumferential diameter	3mm
Time function/display	Digital timing 1s-999min; Continuous: Countdown; Jog: positive timing; Pulse: intermittent time/bright LCD
Speed regulation function/display	Step by step adjustment of 10rpm/full range
Maximum load	4 standard microporous plates/culture plates/deep well plates
Fastest linear acceleration	≈10s
Fastest linear deceleration	≈5s
Security protection operation	Power outage recovery function
size	260mm×275mm×120mm
weight	8Kg
Permissible ambient humidity/relative humidity	IP20
Protection level	+5-40°C/80%
Interference suppression standard	EN 61010-1,EN 61010-2-020,EN 61326-1,EN 61010-3-2/A2

Note: When the ambient temperature is 23 °C

Host Information

Part.No.	Part Name	Tube specification	refer to	Standard/optional
M.01.035	M8S-T	-	-	-



MST-300 NEW Decolorization shaker

Main purpose

Decolorization shaker is widely used in electrophoresis experiments, such as coomassie blue staining of gel and shaking during decolorization, fixation of electrophoresis gel, fixation, dyeing and development during silver nitrate staining. The development and fixation of X-ray films in autoradiography experiments. Further treatment of the cellulose membrane after electrophoretic transfer. Such as molecular hybridization, antigen antibody reaction and staining, and can be used for cell culture and cell membrane transfer. Used for mixing PRP detection cards, suitable for epidemic prevention stations, blood stations, and laboratory departments.

Product Explanation



MST-300-1 tray
500rpm

MST-300-2 tray
50ml×6+15ml×10
500rpm

MST-300-3 tray
50ml×12
500rpm

MST-300-4 tray
15ml×20
500rpm

MST-300-5 tray
250ml×4
500rpm

Product advantages

- 3-inch LCD highlight screen, real-time display of system operation status and parameters;
- Microprocessor controlled speed and time, accurate oscillation speed, small fluctuations, safe, stable, and noise free;
- Low energy consumption, no noise, exquisite appearance, space saving, and strong load-bearing capacity of large trays;
- Equipped with power outage recovery function, the instrument can automatically resume operation according to the original set program after power outage recovery;
- A convenient fixing bracket for easy and fast installation of microporous plates;
- Maintenance-free hybrid stepper motor drive, long service life, can provide soft or strong oscillation;

Host Parameters

Product model	MST-300
Input power supply	AC100~250V/50/60Hz
output power	70W
Speed range	30 ~ 300rpm
Speed accuracy	30~150rpm: ±2rpm; 150~300rpm: ±5rpm
control mode	PWM stepless speed regulation
Operation mode	Continuous/Jog
Programmable parameter storage	10 built-in storage programs
Oscillation mode	circumference
Circumferential diameter	10mm
Time function/display	Digital timing 1s-999min; Continuous: Countdown; Jog: positive timing/ Highlight LCD
Speed regulation function/display	Step by step adjustment of 10rpm/full range
Maximum load	4.5Kg
Security protection operation	Power outage recovery function
Host size	292×345×145mm
Tray 1 size	303×218×24.5mm
Tray 2 size	300×260×63mm
weight	12Kg
Permissible ambient humidity/relative humidity	+5-40°C/80%
Protection level	IP20
Interference suppression standard	EN 61010-1,EN 61010-2-020,EN 61326-1,EN 61010-3-2/A2

Note: When the ambient temperature is 23 °C

Host Information

Part.No.	Part Name	Tube specification	refer to	Standard/optional
M.01.035	MST-300	-	-	-
L.04.035	MST-300-1	Utensils	Host	Standard
L.04.036	MST-300-2	PP round/conical bottom with cover	Host	Standard
L.04.037	MST-300-3	PP round/conical bottom with cover	Host	Standard
L.04.038	MST-300-4	PP round/conical bottom with cover	Host	Standard
L.04.039	MST-300-5	Triangular flask	Host	Standard

Note: Non scale test tubes can be customized

MV50

Multi tube vortex mixer

Main purpose

The MV50 multi tube vortex mixer can handle 54 samples at once. Three types of sponge pads are standard to meet the needs of vortex mixing in different specifications of test tubes. The humanized programming design, with built-in continuous/pulse/jog operation modes, makes experiments more convenient and efficient. It is mainly suitable for the inspection of pesticide residues, veterinary drug residues, food additives in food safety, as well as scientific fields such as drug analysis and drug research and development. It shows unparalleled advantages in handling large amounts of sample mixing, saving time and effort. Automated mixing improves the repeatability of experimental methods and the recovery rate of tested samples.

Product Explanation

Horizontal Ruler
Convenient and fast alignment



Built in 10
Stored program

Emergency stop button
One click brake stop

Jog button

PULSE mode

Fixture parameters



MV50-1 clamp
1.5ml×54
2500rpm



MV50-2 clamp
15ml×54
2500rpm



MV50-3 clamp
50ml×20
2500rpm

Product advantages

- Equipped with safety protection operation: equipped with a one button emergency stop button, which can immediately stop the machine operation with one button in case of an emergency;
- Standard configuration 1.5/2ml × 54 wells, 15ml × 54 holes, 50ml × 20 hole sponge pad test tube rack, non-standard sizes can be customized to meet the needs of different specifications of test tubes;
- Humanized programming with built-in continuous/pulse/jog operation modes. After running, it displays "End" and emits a beep sound;
- Equipped with soft start, uniform acceleration, and can be used as a shaking table for sample cultivation at lower speeds;
- Pulse mode: Built in with 10 fixed intermittent operating times, fast operation without the need to adjust cumbersome parameters;
- The perfect optimization design of the body structure ensures sufficient counterweight weight and circumferential eccentric balance operation, providing a stable and quiet working platform for various oscillation mixing;
- 3-inch LCD highlight screen, with clear and real-time online settings and operating parameters;
- 10 built-in storage programs to quickly save the current experimental operation records, facilitating the switching of different experimental parameters;

Host Parameters

Product model	MV50
Input power supply	AC100-250V/50/60Hz
Input power	60W
Speed range	200~2500r/min.
Speed accuracy	±15rpm
control mode	PWM stepless speed regulation
Operation mode	Continuous/Pulse/Jog
Programmable parameter storage	10 built-in storage programs
Oscillation mode	circumference
Circumferential diameter	3.6mm
Time function/display	Digital timing 1s-999min; Continuous: Countdown; Jog: positive timing; Pulse: intermittent time/bright LCD
Speed regulation function/display	Step by step adjustment of 10rpm/full range
Maximum load	5Kg
Fastest linear acceleration time	≈15秒
Fastest linear deceleration time	≈13秒
Security protection operation	Equipped with one button emergency stop button
Size: Long × wide × high	416mm×294mm×440mm
weight	23KG
Protection level	IP20
Permissible ambient temperature/relative humidity	+5-40°C/80%
Interference suppression standard	EN 61010-1,EN 61010-2-020,EN 61326-1,EN 61010-3-2/A2

Note: When the ambient temperature is 23 °C

Fixture information

Part.No.	Part Name	Tube specification	refer to	Standard/optional
M.01.031	MV50	-	-	-
L.04.014	MV50-1	PP round/conical bottom with cover (circular hole diameter 10mm)	Host	Standard
L.04.015	MV50-2	PP round/conical bottom with cover (circular hole diameter 15mm)	Host	Standard
L.04.016	MV50-3	PP round/conical bottom with cover (circular hole diameter 27mm)	Host	Standard