

Shaker



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Micro plate shaker

HTW-X4 Microplate Shaker is a high-speed shaker specially designed for ELISA plates and cell culture plates, which uses a combination of DC brushless motor and microcomputer. The one-button operation mode enables users to set parameters very conveniently and is easy to use. It can load up to 4 ELISA plates (96-well/384-well plate), cell culture plates (24-well plate, 48-well plate, 96-well plate) and other samples at a time.



HTW-X4

Features:

- Large-screen LCD display timing time, speed operation interface is simple and easy to understand;
- Locking operation mode to prevent misoperation;
- DC brushless motor drive, low noise, accurate speed, long life, maintenance-free;
- Soft start, uniform acceleration, effectively avoid sample splashing;
- The molded shell prevents the corrosion of the machine from accidentally flowing out of acid-base solution, and is easy to clean;
- Optional RS232 interface, connected to the computer through the RS232 interface, can realize the setting of the instrument parameters and the real-time display of the working curve on the computer.



Biological research



Medical Pharmaceuticals



Food Processing



Chemistry

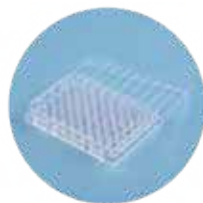
Technical Parameters

Model	HTW-X4
Item No	1009001002
Shaking mode	Orbital shaking
Temperature set	/
Temperature resolution	/
power	35
Amplitude	3
speed range	50-1600
Sample size	4 microplates
Motor type	DC brushless motor
Motor input power	35
Motor output power	25
Speed display	LCD
Timing display	LCD
Time setting range	99h59min
Power supply	100~240V,50/60Hz
Weight	9kg
Allowable ambient temperature/humidity	5~40°C, 80%
Packaging size (L*W*H)	430*390*200mm
Enclosure rating	IP21
Date interface	RS232 optional

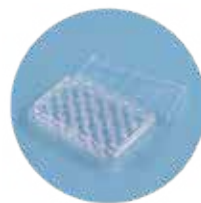
Product accessories



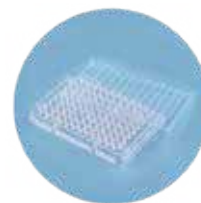
96 well elisa plate



48 well cell culture plate



24 well cell culture plate



96 well cell culture plate

Roller shaker

The roller mixer adopts DC brushless motor and microcomputer control technology. Easy to use, and it can roll and shake all kinds of commonly used test tubes. The roller mixer is especially suitable for mixing blood, viscous liquids and liquid-solid suspensions. It is suitable for preventing blood coagulation. The blood sample can be free of anticoagulant and will not damage blood cells.

Product features

- LCD display shows time and speed in real time;
- Set any time within the range of 0 ~ 99h/59min;
- Stable performance of brushless DC motor, adjustable speed, up to 100rpm, low noise, maintenance free;
- Two modes: normal rolling sway and forward reverse rolling modes;
- Rolling process mild, continuous long - time operation mode, safe and reliable;
- Compatible with test tubes of different sizes, widely used.



Technical parameters

Model	HTG-6	HTG-10	HTG-6D	HTG-10D
Item No	1001009001	1001010001	1001011001	1001012001
Motor type	DC motor	DC motor	DC motor	DC motor
Operation mode	Swing and roll	Swing and roll	Swing and roll	Swing and roll
Amplitude	24mm	24mm	24mm	24mm
Maximum load	4kg	4kg	4kg	4kg
Number of rollers	6	10	6	10
Rollers specifications	280mm	280mm	280mm	280mm
Speed range	20-100rpm	20-100rpm	20-100rpm	20-100rpm
Display	/	/	LCD	LCD
Working Time Set	/	/	1-99h59min	1-99h59min
Operation mode	Continuously	Continuously	Timer/Continuously	Timer/Continuously
Voltage	100-240V 50/60Hz	100-240V 50/60Hz	100-240V 50/60Hz	100-240V 50/60Hz
Power	15w	15w	15w	15w
Exterior Dimension (L*W*H)	540*470*205mm	540*470*205mm	540*470*205mm	540*470*205mm
NW	7.7kg	10.6kg	7.2kg	10.6kg
Allowable ambient Temperature	5-40°C	5-40°C	5-40°C	5-40°C
Allowable relative Humidity	80%	80%	80%	80%
Shell protect class	IP21	IP21	IP21	IP21

Rotary shaker

The rotating mixer adopts DC motor and microcomputer control technology. The unique knob operation mode is easy to use. By changing different trays, it can mix various commonly used test tubes. It is suitable for the fields of biotechnology, microbiology and medical analysis.



Product features

- LCD real-time display timing time and speed value;
- Knob operation mode, easy to use;
- Set any time within the range of 1min-9999min, and automatically beep after the operation;
- A variety of pallets available, widely used;
- DC motor drive, accurate speed, maintenance free;



Biology



Medicine



Food

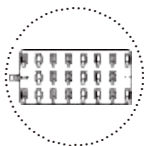


Clinical

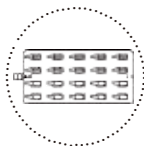
Technical parameters

Model	HT-X100
Set item No	1001008002
Host item No	1001008003
Speed range	5-200rpm
Speed display	LCD
Timer Range	1-9999min
Max Load	6kg
Input Power	25W
Voltage	AC 100-240V 50/60HZ
Packing Dimension	565*280*300mm
Allowable ambient temperature	5-40°C
Allowable ambient humidity	80%
Gross weight	8.0kg
Motor protection	Display fault, stop automatically
safety protection	Display fault, stop automatically

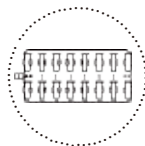
Optional accessories



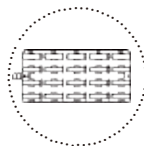
X100-01



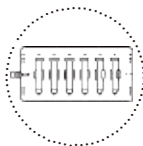
X100-02



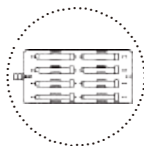
X100-03



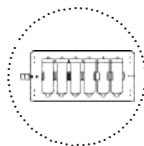
X100-04



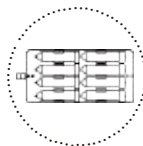
X100-05



X100-06



X100-07



X100-08

Pallet Item No	Pallet model	Pallet capacity
20010029	X100-01	Double- sided vertical installation of 44pcs 1.5ml or 2.0ml centrifuge tube
20010030	X100-02	Double-sided can install 40pcs of 1.5ml or 2.0ml centrifuge tubes horizontally
20010031	X100-03	Double-sided installed vertically of 32pcs 5mL centrifuge tubes
20010032	X100-04	Double- sided horizontal installation of 40pcs of 5mL centrifuge tube
20010033	X100-05	Double- sided vertical installation of 12pcs 10ml or 15ml centrifuge tube
20010034	X100-06	Double- sided horizontal installation of 16 pcs of 10mL or 15mL centrifuge tube
20010035	X100-07	Double- sided vertical installation of 12pcs 50ml centrifuge tube
20010036	X100-08	Double- sided horizontal installation of 16 pcs of 50mL centrifuge tube

Multifunctional desktop shaker

The new generation of multifunctional table shaker use DC brushless motor and microcomputer control technology. The unique knob operation mode is simple and easy to use. By changing different trays, It is fine for mixing and culturing various commonly used flasks, petri dishes, and beakers. Suitable for biology technology, microbiology and medical analysis, coloring or decoloring of colloids and combinatorial chemistry and other fields. The heating series models integrates oscillation and heating functions.slove the problem that the sample which need heating fast and fully open at the same time, rotate or reciprocate,mix and cultivate the sample.



Shaking mode:Orbital
Amplitude 4mm/8mm/20mm



Adjustable tray



Flask tray

Product features

- The large-screen LCD displays the set time, speed, and temperature value, and the operation interface is simple and easy to understand;
- Locking operation mode to prevent misoperation;
- Driven by DC brushless motor, low noise, precise speed, long service life and maintenance-free;
- A variety of trays, cradles, and fixtures are available for a wide range of needs;
- Easy replacement of accessories, greatly improving work efficiency;
- Soft start, uniform acceleration, effectively avoid sample splashing;
- Optional RS232 interface, connect to the computer through the RS232 interface, can realize the computer end-to-end;
- Setting of instrument parameters and real-time display of working curve;
- The heating series has fast heating speed, wide temperature range, and the highest temperature can reach to 100C ,which can make shaker operating at high temperature.

Technical parameters (Accessories details check P62)

Model	HT-X330	HT-X330B	HT-X330F	HT-X330G	HT-X330GB
Item No	1024011001	1024017001	1024014001	1024012001	1024019001
Voltage	100-240V	100-240V	100-240V	100-240V	100-240V
Frequency	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz
Motor Type	DC brushless motor	DC brushless motor	DC brushless motor	DC brushless motor	DC brushless motor
Input power	35W	35W	36W	35W	35W
Output power	25W	25W	/	25W	25W
Max load	7.5KG	7.5KG	7.5KG	7.5KG	7.5KG
Allowable ambient Temperature	5-40°C	5-40°C	5-40°C	5-40°C	5-40°C
Allowable relative Humidity	80%	80%	80%	80%	80%
Protection Class	IP21	IP21	IP21	IP21	IP21
Options	RS232	RS232	/	RS232	RS232
Speed range	60-500rpm	60-400rpm	50-250rpm	60-500rpm	60-400rpm
Speed display	LCD	LCD	LCD	LCD	LCD
Timer function	Yes	Yes	Yes	Yes	Yes
Timer range	0-99h59min	0-99h59min	0-99h59min	0-99h59min	0-99h59min
Time display	LCD	LCD	LCD	LCD	LCD
Heating Power	/	/	/	35/185w	35/185W
Amplitude	4mm	8mm	20mm	4mm	8mm
Shaking mode	Orbital	Orbital	Orbital	Orbital	Orbital
Temperature range	/	/	/	RT+5~75°C	RT+5~75°C
Temperature accuracy	/	/	/	0.1°C	0.1°C
Exterior Dimension	330*370*130mm	330*370*130mm	325*355*130mm	330*370*130mm	330*370*130mm
Packing Dimension	420*390*192mm	420*390*192mm	420*390*192mm	420*390*192mm	420*390*192mm
NW	7kg	7kg	7.5kg	7kg	7kg
GW	8.5kg	8.5kg	9kg	8.5kg	8.5kg

Linear Shaker

The linear shaker use brushless DC motor and microcomputer control technology, which has various functions and is suitable for various mixing work in different fields. , Silver nitrate staining for fixation, staining, development, etc.

Shaking mode: reciprocating
Amplitude 4mm/8mm



HT-W330/
HT-W330G



HT-W330B/
HT-W330GB

Product features

- Smooth turnover, low noise, wear resistance;
- Different types of fixtures to choose to meet different experimental needs;
- Compact and simple structure, small footprint;
- The time can be set arbitrarily within the range of 0-99h59min, and the time controller can automatically alarm to realize unmanned operation;
- Wide voltage design to meet the needs of different regions;
- The main unit is included in the standard configuration, other accessories can be selected separately.

Optional accessories

Model	HT-W330	HT-W330G	HT-W330B	HT-W330GB
Item No	1024003001	1024013001	1024018001	1024020001
Voltage	100-240V	100-240V	100-240V	100-240V
Frequency	50-60HZ	50-60HZ	50-60HZ	50-60HZ
Motor Type	DC brushless motor	DC brushless motor	DC brushless motor	DC brushless motor
Input power	35W	35W	35W	35W
Output power	25W	25W	25W	25W
Max load	7.5KG	7.5KG	7.5KG	7.5KG
Allowable ambient Temperature	5-40°C	5-40°C	5-40°C	5-40°C
Allowable relative Humidity	80%	80%	80%	80%
Protection Class	IP21	IP21	IP21	IP21
Options	RS232	RS232	RS232	RS232
Speed range	60-500rpm	60-500rpm	60-400rpm	60-400rpm
Speed display	LCD	LCD	LCD	LCD
Timer function	YES	YES	YES	YES
Timer range	0-99h59min	0-99h59min	0-99h59min	0-99h59min
Time display	LCD	LCD	LCD	LCD
Heating Power	/	35W/185W	/	35W/185W
Amplitude	4mm	4mm	8mm	8mm
Shaking mode	Linear	Linear	Linear	Linear
Temperature range	/	RT+5~75°C	/	RT+5~75°C
Temperature accuracy	/	0.1°C	/	0.1°C
Exterior Dimension	330*370*130mm	330*370*130mm	330*370*130mm	330*370*130mm
Packing Dimension	420*390*192mm	420*390*192mm	420*390*192mm	420*390*192mm
NW	7kg	7kg	7kg	7kg
GW	8.5kg	8.5kg	8.5kg	8.5kg

Optional trays



Universal tray



Adjustable tray



Spring tray



Flask tray



Custom tray



Fixed tray



Double layer
fixed tray



Double layer
universal tray

Decolorizing Shaker

The HTS series of decolorizing shakers are divided into heating and non-heating series and are widely used for solidification of electrophoresis gels, dyeing and shaking during Coomassie blue dyeing and decoloring, and fixing and dyeing during silver nitrate dyeing color, development, fixation and electrophoresis transfer of X-ray film in autoradiography experiment. Further processing of the cellulose membrane, such as molecular hybridization, antigen reaction and dyeing, it can be used for cell culture and cell membrane transfer, and it can be used in a low temperature and constant temperature oven. The heating series decolorizing shaker integrates oscillation and heating functions to solve the problem of both heating and open experimental samples.

Product features

- The large-screen LCD displays the set time, speed, and temperature value, and the operation interface is simple and easy to understand;
- Locking operation mode to prevent misoperation;
- Driven by DC brushless motor, low noise, precise speed, long service life and maintenance-free;
- Soft start, uniform acceleration, effectively avoid sample splashing;
- The molded natural rubber platform can effectively stop corrosion of the acid-base solution from affecting the machine. It is easy to clean;
- Optional RS232 interface, connect the computer through the RS232 interface, realize the computer end-to-parameter. Real-time display of setting and working curve;
- The heating series decolorizing shaker has fast heating speed, wide temperature range, and the highest temperature can be reached;
- Above 100 °C, fill the gap that the shaker cannot run at high temperature.

Shaking mode: reciprocating
Amplitude 8mm



Shaking mode: Orbital
Amplitude 8mm



HTS-X330



HTS-W330

Conventional decolorizing shaker
(optional double-layer tray)

Optional accessories

Model	HTS-X330	HTS-W330
Item No	1024007001	1024008001
Shaking mode	Orbital	Linear
Temp Set	/	/
Temp Resolution	/	/
Amplitude	8mm	
Max load	7.5kg	
Motor type	DC Brushless motor	
Input power	35W	
Output power	25W	
Speed range	50-400RPM	
Speed display	LCD	
Timer display	LCD	
Time set range	0-99H59MIN	
Voltage	100-240V,50/60HZ	
GW	10kg	
Temperature& humidity	5-40°C, 80%	
Packing dimension	430*390*200mm	
Shell protection class	IP21	
Data interface	RS232 options	

Rocker Shaker

HT-R330 is suitable for electrophoresis gel staining/decolorization, sample washing, molecular impurities, cross, precipitation, protein imprinting, cell culture, etc. three-dimensional shaker for other applications, at the same time, it can be used for cell culture and cell membrane transfer, and can be used in low temperature and incubators.

Product features

- The molded shell is acid and alkali resistant, not deformed, and easy to clean;
- The whole machine adopts crank arm bearing rotation design, which is firm, non-wearing, and suitable for long-term use, Ultra-small design, does not occupy space, can be used in the refrigerator;
- Three-dimensional roll, tilt angle up to 10°;
With skirt power switch and timing, speed control and power socket, can prevent the short circuit of the corrosive power supply to the switch and the timing parts of the speed regulation when the liquid is spilled;
- Maximum load is 5kg (including fixtures);
- Speed range is 10-70 rpm, LCD screen, display time and speed respectively;
- At the same time, the motor adopts a wide voltage design.



HT-R330

Optional accessories (Accessories details check P62)

Model	HT-R330
Item No	1024005001
Voltage	100-240V
Frequency	50/60Hz
Motor Input power	35W
Motor Output power	20W
Slope	10°
Maximum load	5kg
Speed range	10-80rpm
Speed display	LCD
Timing display	LCD
Time setting range	0-99h59min
Package dimensions	430*400*200mm
Gross weight	9.3kg
Allowable ambient temperature	5-40°C
Allowable ambient humidity	80%
Shell Protection rating	IP21

Optional tray



Universal tray



Adjustable tray



Spring tray



Flask tray



Custom tray



Fixed tray



Double layer fixed tray



Double layer universal tray

3D Shaker

HT-S330 is a three-dimensional shaker suitable for electrophoresis gel staining/-decolorization, sample washing, molecular hybridization, precipitation, protein imprinting, cell culture and other applications. It can also be used for cell culture and cell membrane transfer, and can be placed in low temperature and used in a thermostat.

Features

- The molded shell is acid and alkali resistant, not deformed, and easy to clean;
- The whole machine adopts crank arm bearing rotation design, which is firm, non-wearing, and suitable for long-term use;
- Ultra-small design, does not occupy space, can be used in the refrigerator;
- Three-dimensional roll, tilt angle up to 10°; maximum load is 5kg(including fixture); speed range;
- With skirt power switch and timing, speed control and power socket , can prevent the short circuit of the corrosive power supply to the switch and the timing parts of the speed regulation when the liquid is spilled;
- LCD screen, display time and speed respectively;
- At the same time, the motor adopts a wide voltage design;
- A variety of pallets and fixtures are available, The range is 10-70 rpm;



Universal tray



Flask tray

Technical Parameters (Accessories details check P62)

Model	HT-S330
Item No	1024006001
Voltage	100-240V
Frequency	50/60Hz
Motor Input power	35W
Motor Output power	20W
Slope	10°
Maximum load	5kg
Speed range	10-80rpm
Speed display	LCD
Timing display	LCD
Time setting range	0-99h59min
Package dimensions	430*400*200mm
Gross weight	9.3kg
Allowable ambient temperature	5-40°C
Allowable ambient humidity	80%
Shell Protection rating	IP21

Optional tray



Universal tray



Adjustable tray



Spring tray



Flask tray



Custom tray



Fixed tray



Double layer fixed tray



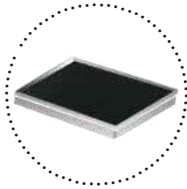
Double layer universal tray

Shaker

Accessories Parameters

Universal Tray

Can hold multiple petri dishes or screw-top cell culture flasks, crooked neck flasks.



Item No	Size	Application
20240007	210*282	Basic Shaker
20240022	210*282	Heating Shaker

Adjustable tray

can hold 4*500ml flask.



Item No	Size	Application
20240008	210*282mm	Basic Shaker
20240024	210*282mm	Heating Shaker

Fixed tray

Can hold multiple petri dishes or screw-top cell culture flasks, crooked neck flasks



Item No	Size
20240010	210*282mm

Gil Pad

Use with universal trays



Item No	Size
20240018	205*275mm

Flask tray

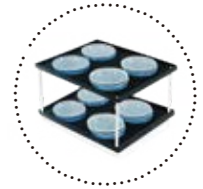
Can hold multiple petri dishes or screw-top cell culture flasks, crooked neck flasks



Item No	Size
20240011	6*250ml
20240012	8*100ml
20240013	8*50ml
20240014	8*25ml

Double layer universal tray

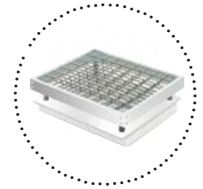
Can hold multiple petri dishes or screw-top cell culture flasks, crooked neck flasks



Item No	Size
20240017	每层尺寸210*282

Spring tray

can hold 6*200ml Erlenmeyer flask



Item No	Size	Application
20240009	210*282mm	Basic Shaker
20240025	210*282mm	Heating Shaker

Double layer fixed tray

Can hold multiple petri dishes or screw-top cell culture flasks, crooked neck flasks



Item No	Size
20240016	每层尺寸210*282mm

Non-standard custom tray

Can be customized according to different needs



Item No	Size
20240015	210*282mm

Microplate Thermostatic Shaker

HW-200TG and HW-400TG are incubators and microplate constant temperature oscillators designed and manufactured based on micro-processing technology and PID control. It has the characteristics of small size, light weight, no pollution; LCD display of temperature and time, beautiful appearance and simple operation. Mainly used for ELISA plate (96-well/384-well plate), cell culture plate (24-well plate, 48-well plate, 96-well plate, etc.) and other samples to incubate cells at appropriate temperature.

Product features

- LCD real-time display system running status and parameter values; High quality switching power supply, the whole machine runs stably and reliably for a long time;
- One-key knob operation, easy to use;
- With the power-off recovery function, when the external power supply is powered off and restarted, the equipment can automatically resume operation according to the original set procedure;
- Microprocessor control, temperature control linear, small fluctuation;
- Double layer heating system, ensure the stability of constant temperature culture;
- Brushless DC motor, maintenance-free, low noise;
- Time can be set within the range of 1min~ 99h59min, After the end of the timer, the prompt sound will be automatically issued.



HW-200TG



HW-400TG

Technical parameters

Model	HW-200TG (2 Plate oscillation)	HW-400TG (4 Plate oscillation)
Item No	1009002001	1009003001
Temperature control range (°C)	Room temperature + 5 ~ 80	Room temperature + 5 ~ 80
Time setting	1min ~ 99h59min	1min ~ 99h59min
Speed range (rpm)	200~1600	300~1350
Temperature control precision (°C)	≤ ± 0.5	≤ ± 0.5
Display accuracy (°C)	0.1	0.1
Module temperature uniformity	≤ ± 0.5 °C	≤ ± 0.5 °C
Heating time (min)	≤10 (Room temperature raise to 80°C)	≤10 minute (Room temperature raise to 80°C)
Sample size	Two microporous plates or culture plates	Four microporous plates or culture plates
Heating mode	Heating film	Heating film
Input power (w)	150	300
Input voltage	AC220V/50-60Hz	AC220V/50-60Hz
External dimension (mm)	280×270×140	340×320×200
Weight (kg)	7.0	9.5