

# VORTEX MIXERS



# VORTEX MIXERS

A Vortex Mixer is a laboratory device used for mixing or blending samples in test tubes, flasks, and micro-tubes. In vortex mixers, the drive shaft is positioned vertically and cupped rubber at the center which oscillates in a circular motion while the motor is running. When a sample is placed on a rubber piece the motion is transferred to the liquid and a vortex is formed in a sample, and this leads to ferocious sample mixing. Vortexer is used to suspend tissue or cell samples for tissue analysis and cell culture, for quality control testing and sample preparation.

Used in Mixing, Laboratory, Research, Medical.

Also known as Laboratory Vortex Mixer.

## LTMIX11-1 VORTEX MIXER

Compact structure designing, low center of gravity provide the stable operation when high speed

DC Brushless Motor, long-life, low noise

The motor drive directly, no belt loss. induction and variable frequency motor (without beltwork)

All the fixture, the instrument will distinguish automatic, speed limit automatic

Chuck installing more conveniently

Inching feature and consecutive operation, easy for switching

Centric balance piece designing, amplitude can be achieved 4.5mm, nice oscillation effects

Metal hull, reliable and strong

Timing function, also can be countdown and digital showing

Digital show the setting speed and operation speed , easy and clearly

## SPECIFICATIONS

Model	LTMIX11-1
Speed Range	200-3000 rpm/min,stepless speed regulating
Orbital Diameter	4.5mm
Motion	circumferential
20	Motor rating output
Maximum Load Capacity	1 kg
Operation	Continuous/ touch operation
Timing Range	1s-999 min
Overall Dimension	210x150x69 mm
Protection Class	IP21
Speed setting and showing	Simulation setting and digital time showing
Driving	induction and variable frequency motor (without beltwork)
Weight	4 kg
Standard Configuration	V1.1/Standard gasket
Power Supply	100~240 V

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description
3301108008	Standard gasket	Use for setting tube which the diameter no more than 65mm smaller container; Speed range: 0/200-3000rpm
3301108009	ELISA Plate fixture	Use for ;ELISA Plate and square adapter; Speed range: 0/200-1500rpm
3301108010	Flasks fixture	Together with flasks gaskets; Speed range: 0/200-3000rpm
3301108011	Flasks gasket fixture	

Accessory Code	Name	Description
3301108012	Centrifuge Tube Adapter	Together with ELISA Plate fixture;30 jacks; Hole Diameter 10mm
3301108013	Centrifuge Tube Adapter	Together with ELISA Plate fixture;16 jacks; Hole Diameter 12mm
3301108014	Centrifuge Tube Adapter	Together with ELISA Plate fixture;12 jacks ; Hole Diameter 16mm
3301108015	100-240V adapter	

## LTMIX11-2 VORTEX MIXER

Compact structure designing, low center of gravity provide the stable operation when high speed

DC Brushless Motor, long-life, low noise

The motor drive directly, no belt loss. induction and variable frequency motor (without beltwork)

All the fixture, the instrument will distinguish automatic, speed limit automatic

Chuck installing more conveniently

Inching feature and consecutive operation, easy for switching

Centric balance piece designing, amplitude can be achieved 4.5mm, nice oscillation effects

Metal hull, reliable and strong

Timing function, also can be countdown and digital showing

Digital show the setting speed and operation speed , easy and clearly

All the fixture can be inching feature and consecutive operation, suited to the lab requirement

## SPECIFICATIONS

Model	LTMIX11-2
Speed Range	200-3000 rpm/min,stepless speed regulating
Orbital Diameter	4.5mm
Motion	circumferential
20	Motor rating output
Maximum Load Capacity	1 kg
Operation	Continuous/ touch operation
Timing Range	1s-999 min
Overall Dimension	210x150x69 mm
Protection Class	IP21
Speed setting and showing	0-3000 rpm,Real-time digital showing for Speed and time
Driving	induction and variable frequency motor (without beltwork)
Weight	4 kg
Standard Configuration	V1.1/Standard gasket
Power Supply	100~240 V

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description
3301108008	Standard gasket	Use for setting tube which the diameter no more than 65mm smaller container; Speed range: 0/200-3000rpm
3301108009	ELISA Plate fixture	Use for ;ELISA Plate and square adapter; Speed range: 0/200-1500rpm
3301108010	Flasks fixture	Together with flasks gaskets; Speed range: 0/200-3000rpm
3301108011	Flasks gasket fixture	

Accessory Code	Name	Description
3301108012	Centrifuge Tube Adapter	Together with ELISA Plate fixture;30 jacks; Hole Diameter 10mm
3301108013	Centrifuge Tube Adapter	Together with ELISA Plate fixture;16 jacks; Hole Diameter 12mm
3301108014	Centrifuge Tube Adapter	Together with ELISA Plate fixture;12 jacks ; Hole Diameter 16mm
3301108015	100-240V adapter	

## LTMIX11-3 VORTEX MIXER

Touch operation or continuous mode

Used for various mixing applications with optional adapters

Various adapters fit for different tubes

Specially designed vacuum suction foot for body stability

Robust aluminum-cast construction



## SPECIFICATIONS

Model	LTMIX11-3
Speed Range	25000 rpm
Permissible Ambient Temperature	5-40°C
Permissible Relative Humidity	80% RH
Orbital Diameter	4 mm
53	Motor rating output [W&#93
Operation	Continuous/ touch operation
Overall Dimension	127Wx130Hx160Dmm
Motor Type	Shaded pole motor
Protection Class	IP21
Weight	3.5 kg
Power	60 W
Power Supply	110-120 V/220-230 V, 50/60 Hz

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description
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Accessory Code	Name	Description
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3301110008	Rubber vacuum suction foot with screw; 1pc	
3301110009	Platform pad	For <math>\phi</math>99mm tubes and small vessels
3301110010	Standard top cup	For <math>\phi</math>30mm tubes and small vessels
3301110011	Tube adapter	For 48 holes test tubes; $\phi$ 6mm; used with Mx1027/ Mx1026/PS1.1
3301110012	Tube adapter	For 15 holes test tubes; $\phi$ 10mm; used with Mx1027/ Mx1026/PS1.1

3301110013	Tube adapter	For 12 holes test tubes; $\phi$ 12mm ; used with Mx1027/ Mx1026/PS1.1
3301110014	Tube adapter	For 8 holes test tubes; $\phi$ 16mm; used with Mx1027/ Mx1026/PS1.1
3301110015	Tube adapter	For 8 holes test tubes; $\phi$ 20mm; used with Mx1027/ Mx1026/PS1.1
3301110016	Universal top plate	100mm plate attachment ; free of Rubber vacuum suction foot (18900158; 4pcs)
3301110017	Tube holding rod	Used with Mx1028 to Mx1032

## LTMIX11-4 MULTI-FUNCTIONAL VORTEX MIXER

Specially designed to accommodate double micro plates

Various adapters fit for different tubes

Maintenance free brushless DC motor



### SPECIFICATIONS

Model	LTMIX11-4
Speed Range	Single microplate: 0-1500rpm, Double microplate: 0-1000rpm
Permissible Ambient Temperature	5-40°C
Permissible Relative Humidity	80% RH
Orbital Diameter	4.5 mm
Motion	Orbital
18	Motor rating output [W&#93
Maximum Load Capacity	0.5 kg
Overall Dimension	260Dx150Wx80H mm
Speed Display	Scale
Motor Type	DC brushless
Protection Class	IP21
Weight	3 kg
Power	20 W
Power Supply	100-240 V, 50/60 Hz

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description
3301111008	Universal top plate(round)	Used with Mx1028 to Mx1032
3301111009	Microplate clamp	
3301111010	Double microplate clamps	
3301110011	Tube adapter	For 48 holes test tubes; $\phi$ 6mm; used with Mx1027/ Mx1026/PS1.1

Accessory Code	Name	Description
3301110012	Tube adapter	For 15 holes test tubes; $\phi$ 10mm; used with Mx1027/ Mx1026/PS1.1
3301110013	Tube adapter	For 12 holes test tubes; $\phi$ 12mm ; used with Mx1027/ Mx1026/PS1.1
3301110014	Tube adapter	For 8 holes test tubes; $\phi$ 16mm; used with Mx1027/ Mx1026/PS1.1
3301110015	Tube adapter	For 8 holes test tubes; $\phi$ 20mm; used with Mx1027/ Mx1026/PS1.1

## LTMIX8 VORTEX MIXER

The max. diameter of the tubes is up to 30mm. Suit for mixing tubes /centrifugal tubes with prominent mixing effect

Outer shell and test tube base are made of plastic which is resistant to chemical attack. The thick base makes operation very steady and reliable

12V low voltage power adapter built in, smart and portable



## SPECIFICATIONS

Model	LTMIX8-2	LTMIX8-4	LTMIX8-5
Speed Range	4000 rpm	0-4000 rpm	4000 rpm
Maximum Sample Capacity	50 ml		
Shaking Orbit	4.5 mm (circle)		
Switch mode	Jog switch	Jog switch+Knob adjust	Jog switch / One button long open
Power Input /Output	1.2 W / 0.8 W		
Voltage	DC12 V 1A		DC12 V 1 A
Power	12 W		
Dimension	W.110 x D.110 x H.86 mm		
Net Weight	1.1 kgs		



LTMIX8-2



LTMIX8-4



LTMIX8-5

## LTMIX8-3 VORTEX MIXER

Suit for mixing tubes / centrifugal tubes with prominent mixing effect

Outer shell and touch concave are made of plastic which is resistance to chemical attack

The thick base makes operation very steady and reliable

12V low voltage power adapter built in, very smart and portable

Can adjust speed to meet different experimental requests



### SPECIFICATIONS

Model	LTMIX8-3
Speed Range	0-2500 rpm
Permissible Ambient Temperature	5-40°C
Permissible Relative Humidity	0.8
Orbital Diameter	4 mm
Motion	Orbital
58	Motor rating output [W&#93
Operation	Continuous/ touch operation
Overall Dimension	127Wx130Hx160D mm
Speed Display	Scale
Protection Class	IP21
Weight	3.5 kg
Power	60 W
Power Supply	110-120V /220-230V, 50/60Hz

### OPTIONAL ACCESSORIES

Accessory Code	Name	Description
3301110008	Rubber vacuum suction foot with screw; 1pc	
3301110009	Platform pad	For <math>\varphi</math>99mm tubes and small vessels

Accessory Code	Name	Description
3301110013	Tube adapter	For 12 holes test tubes; $\varphi$ 12mm ; used with Mx1027/ Mx1026/PS1.1
3301110014	Tube adapter	For 8 holes test tubes; $\varphi$ 16mm; used with Mx1027/ Mx1026/PS1.1

3301110010	Standard top cup	For <math>\phi</math>30mm tubes and small vessels
3301110011	Tube adapter	For 48 holes test tubes; $\phi$ 6mm; used with Mx1027/ Mx1026/PS1.1
3301110012	Tube adapter	For 15 holes test tubes; $\phi$ 10mm; used with Mx1027/ Mx1026/PS1.1

3301110015	Tube adapter	For 8 holes test tubes; $\phi$ 20mm; used with Mx1027/ Mx1026/PS1.1
3301110016	Universal top plate	100mm plate attachment ; free of Rubber vacuum suction foot (18900158; 4pcs)
3301110017	Tube holding rod	Used with Mx1028 to Mx1032

## LTMIX8-1 MULTI-TUBE VORTEX MIXER

Max capacity can process 50 samples at the same time to make the experiment more convenient and efficient

Microprocessor control, simplistic designed appearance, LED displays the speed and time

Friendly program designed, built-in short mix, timing operation, impulse and continuous modes. Operation stable and silent

A foam tube frame and tray pad configured at random. Various types of foam tube frames and pads to choose. tube frames and pads to choose



### SPECIFICATIONS

Model	LTMIX8-1
Speed Range	500-2500 rpm
Speed Accuracy	$\pm 1$ rpm
Shaking Orbit	4 mm
Time Range	1 s~9999 min
Interval timing between impulse	1~10 s
Timing set for impulse working	1 s~99 min 59 s
Max Load	5 kgs
Cover Plate Size	W.184 x L.311 mm
Voltage	AC 100~230 V, 50/60Hz
Power	60 W
Fuse	250 V, 1 A, $\phi$ 5 x 20
Dimension	W.250 x D.426 x H.480 mm
Net Weight	15 kgs

### OPTIONAL ACCESSORIES

Accessory Code	Name	Dimension	Number of Holes
3300908008	Tube frame	245 x 132 x 45 mm	
3300908009	Tube frame	245 x 132 x 45 mm	
3300908010	Tube frame	245 x 132 x 45 mm	
3300908011	Tube frame	245 x 132 x 45 mm	
3300908012	Tube frame	245 x 132 x 45 mm	
3300908013	Tube frame	245 x 132 x 45 mm	



3300908014	Tray pad set	305 x 178.5 x 25 mm	
3300908015	Φ38mm foam tube frame (suit for 100ml tube)	245x132x45 mm	10
3300908016	Acrylic tube frame Φ11mm (suit for 1.5/2.0ml tube)	169x84x41 mm	40

## LTMIX9 MINI MIXER

Mini and compact appearance, powerful function, sucker type under-chassis, super shockproof, ideal for high speed operation

Multiple mixing modes, touch-operation, continuous operation and timing set

Speed adjustable, and wide speed range, Stable low speed, powerful high speed

Shaking blocks convenient for replacement, stable and reliable, sturdy and durable eccentric bearing designed

Various tube holders are for optional (Suitable for Eppendorf Tubes)



## SPECIFICATIONS

Model	LTMIX9-1	LTMIX9-2	LTMIX9-3
Speed Range	0 ~ 2500 rpm		300 ~ 3000 rpm
Shaking Orbit	4 mm	3 mm	
Shaking Mode	Circle		
Operation	knob + scale		key + digital Display
Operation Mode	continuous or press running		continuous running or short mix
Voltage	AC 220V / AC 110V, 50/60 Hz		DC 24 V
Power	60 W		30 W
Fuse	250 V, 1 A, Φ5x20		-
Dimension	W.132 x D.156 x H.150 mm		
Net Weight	2.5 kgs		2.2 kgs

## ACCESSORIES

Accessory Code	Name	Description
3301008022	Standard head	Suit for tubes and containers with dia. <30mm
3301008023	Standard platform	Standard platform to hold foam tube holder

## OPTIONAL ACCESSORIES

Accessory Code	Name
3301008008	Convex pad
3301008009	Foam tube holder
3301008010	Foam tube holder
3301008011	Foam tube holder
3301008012	Foam tube holder
3301008013	Foam tube holder

Accessory Code	Name
3301008015	Tube holder platform
3301008016	Tube holder platform
3301008017	Plate holder platform
3301008018	Universal platform for tube stands and all standard plates
3301008019	Universal platform for tube stands and all standard plates

3301008014	Tube holder platform
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3301008020	Universal platform for tube stands and all standard plates
3301008021	Customized



LTMIX9-1



LTMIX9-2



LTMIX9-3

## LTMIX8-6 VORTEX MIXER

The perfect mixing radius combined with excellent 2D mixing technology and adjustable mixing speed ensures fast and perfect mixing of multiple samples.



### SPECIFICATIONS

Model	LTMIX8-6
Speed Range	300 ~3000 rpm
Touch Vortex Speed	3500 rpm
Shaking Orbit	3 mm
Time Range	1 s~99 h 59 min
Working Noise	<50dB
Voltage	AC 100~230V, 50/60Hz
Power	45 W
Fuse	250 V, 1 A, φ5 x 20
Dimension	W.196 x D.270 x H.170 mm
Net Weight	7.7 kgs

### ACCESSORIES

Accessory Code	Name	Capacity
3300813008	Tube Stand	96x0.2ml tube stand. Applied to 0.2ml PCR tubes; PCR strips and 96-wellPCR plates(semi-skirted and unskirted )
3300813009	Tube Stand	4x0.5ml Tube stand
3300813010	Tube Stand	24x1.5/2.0ml Tube stand



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