

# VORTEX MIXER



# VORTEX MIXER

Constructed of rugged, corrosion-resistant materials, the instruments endure heavy everyday usage. The ergonomic low profile design makes everyday vortexing comfortable for the user. Unnecessary movement has been avoided during use due to robust die-cast body. Used in Mixing, Laboratory, Research, Medical. Also known as Laboratory Vortex Mixer.

## MV11 SERIES VORTEX MIXER



MV111



MV112



MV113, MV114



MV115



MV116

### FEATURES

The maximum diameter of the mixed tube is up to 30mm

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

Touch and continuous operations, stepless speed regulation

Used for various mixing applications with optional adapters, handles up to 48 tubes

Specially designed vacuum suction feet hold to the work surface and prevent the unit from movement

Aluminium cast base avoids unnecessary "walking"

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

MV111 MV112 MV113 MV114 MV115 MV116

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Continuously variable motor and Brushless DC Motor are optional				•	•	•	
Stable low speed, powerful high speed				•	•	•	
Shaking block convenient for replacement, stable and reliable, sturdy and durable eccentric bearing design				•	•	•	
Various shaking block adapters optional (Suitable for Eppendorf Tube)				•	•	•	
Optimized 2D mixing designed for simultaneous mixing and vortexing applications							•
Pre-programmed soft keys and reliable universal holder							•
Automatic imbalance detection and anti-spill technology							•
Mixing in a 3-in-1 format: Plates (up to 96-well and 384-well formats)							•
Micro-Tubes, vortexing numerous tube formats							•
Custom blocks available for different experiment needs							•

## SPECIFICATIONS

Model	MV111	MV112	MV113
Name	Vortex Mixer		Mini Mixer
Speed Range	2800 rpm	0-2800 rpm	0 ~ 2500 rpm
Capacity	up to 50 ml (1 tube)		-
Orbital Diameter	4.5 mm		4 mm
Motion	Circle Shaking (Vortexing)		Circle
Motor rating Input [W&#93;	1.2		-
Motor rating output [W&#93;	0.8		-
Overall Dimension	110 x 70 mm		132Wx156D150H mm
Weight	1.2 kg		2.4 kg
Power	15 W		60 W
Power Supply	AC 90~230 V		AC220 V/AC110 V, 50/60 Hz
Operation	-	-	Continuous running / Short Mix
Timing Range	-	-	1s ~ 999 min
Operation Display Pattern	-	-	Knob + Scale
Fuse	-	-	250 V, 1 A, $\Phi$ 5x20
Optional Accessories	-	-	Standard head and flat pad
Touch Vortex Speed	-	-	-
Working Noise	-	-	-

Model	MV114	MV115	MV116
Name	Mini Mixer		Vortex Mixer
Speed Range	0 ~ 2500 rpm		300 ~ 3000 rpm
Capacity	-	-	-
Orbital Diameter	3 mm	2 mm	3 mm
Motion	Circle		-
Motor rating Input [W&#93;	-	-	-
Motor rating output [W&#93;	-	-	-
Overall Dimension	132Wx156Dx150H mm		196Wx270Dx170H mm
Weight	2.4 kg	2.2 kg	7.7 kg
Power	60 W	30 W	45 W
Power Supply	AC220 V/AC110 V, 50/60 Hz	DC24 V	AC100~230 V, 50/60 Hz

Operation	Continuous running / Short Mix		-
Timing Range	1s ~ 999 min		1s~99 h59 min or continuous / touch vortex
Operation Display Pattern	Knob + Scale	Key + Digital display	-
Fuse	250 V,1 A, $\Phi$ 5x20	-	250 V,1 A, $\Phi$ 5x20
Optional Accessories	All		-
Touch Vortex Speed	-	-	3500 rpm
Working Noise	-	-	<50 dB

## OPTIONAL ACCESSORIES

Accessory Code	Name	For Models
MX1008	Convex pad	MV113, MV114, MV115
MX1009	Foam tube holder	MV114, MV115
MX1010	Foam tube holder	MV114, MV115
MX1011	Foam tube holder	MV114, MV115
MX1012	Foam tube holder	MV114, MV115
MX1013	Foam tube holder	MV114, MV115
MX1014	Tube holder platform	MV114, MV115
MX1015	Tube holder platform	MV114, MV115
MX1016	Tube holder platform	MV114, MV115

Accessory Code	Name	For Models
MX1017	Plate holder platform	MV114, MV115
MX1018	Customized	MV114, MV115
MX1019	Universal platform for tube stands and all standard plates	MV114, MV115
MX1020	Universal platform for tube stands and all standard plates	MV114, MV115
MX1021	Universal platform for tube stands and all standard plates	MV114, MV115
MX1022	Tube Stand	MV116
MX1023	Tube Stand	MV116
MX1024	Tube Stand	MV116

## MV12 SERIES MULTI-TUBE VORTEX MIXER

- Maximum process 50 samples at the same time to make the experiment more convenient and efficient
- Microprocessor control, simplistic designed appearance
- LED display the speed and time
- Humanized program design, built-in short mix and timing operation modes
- Operation stable and silent
- Large orbital vortex, performance effective
- Various types of foam tube frames and pads for option



## SPECIFICATIONS

Model	MV121
Speed Range	500-2500 rpm
Shaking Speed Accuracy	$\pm$ 50 rpm ( at 2500 rpm detection)
Orbital Diameter	4 mm
Maximum Load Capacity	5 kg
Timing Range	1s-9999 min

Top Panel Size	311x184 mm
Overall Dimension	426x250x480 mm
Weight	21.5 kg
Power	60 W
Power Supply	100-230V, 50/60Hz

## OPTIONAL ACCESSORIES

Accessory Code	Name	Dimension
MX1001	Tube frame	245 x 132 x 45 mm
MX1002	Tube frame	245 x 132 x 45 mm
MX1003	Tube frame	245 x 132 x 45 mm
MX1004	Tube frame	245 x 132 x 45 mm

Accessory Code	Name	Dimension
MX1005	Tube frame	245 x 132 x 45 mm
MX1006	Tube frame	245 x 132 x 45 mm
MX1007	Tray pad set	305 x 178.5 x 25 mm

## MV13 SERIES 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	MV131	MV132
Speed Range	200-3000 rpm/min, stepless speed regulating	200-3000 rpm/min, stepless speed regulating
Orbital Diameter	4.5mm	
Motion	circumferential	
Motor rating Input [W&#93;	20	
Motor rating output [W&#93;	15	
Maximum Load Capacity	1 kg	

Operation	Continuous/ touch operation	
Timing Range	1s-999 min	
Overall Dimension	210×150×69 mm	
Protection Class	IP21	
Speed setting and showing	Simulation setting and digital time 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
MX1054	Standard gasket	Use for setting tube which the diameter no more than 65mm smaller container, Speed range: 0/200-3000rpm
MX1055	ELISA Plate fixture	Use for ,ELISA Plate and square adapter, Speed range: 0/200-1500rpm
MX1056	Flasks fixture	Together with flasks gaskets, Speed range: 0/200-3000rpm
MX1057	100-240V adapter	

Accessory Code	Name	Description
MX1058	Flasks gasket fixture	
MX1059	Centrifuge Tube Adapter	Together with ELISA Plate fixture,30 jacks, Hole Diameter 10mm
MX1060	Centrifuge Tube Adapter	Together with ELISA Plate fixture,16 jacks, Hole Diameter 12mm
MX1061	Centrifuge Tube Adapter	Together with ELISA Plate fixture,12 jacks , Hole Diameter 16mm

## MV14 SERIES VORTEX MIXER



MV141



MV142



MV143

### FEATURES

	MV141	MV142	MV143
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	•		
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

Specially designed to accommodate double micro plates

Maintenance free brushless DC motor



## SPECIFICATIONS

Model	MV141	MV142	MV143
Name	Vortex Mixer		Multi-Functional Vortex Mixer
Speed Range	25000 rpm	0-2500 rpm	Single microplate: 0-1500rpm, Double microplate: 0-1000rpm
Permissible Ambient Temperature	5-40°C		
Permissible Relative Humidity	80% RH	0.8	80% RH
Orbital Diameter	4 mm		4.5 mm
Motor rating Input [W&#93;	53	58	18
Motor rating output [W&#93;	10		
Operation	Continuous/ touch operation		-
Overall Dimension	127W×130H×160Dmm	127W×130H×160D mm	260D×150W×80H mm
Motor Type	Shaded pole motor	-	DC brushless
Protection Class	IP21		
Weight	3.5 kg		3 kg
Power	60 W		20 W
Power Supply	110-120 V/220-230 V, 50/60 Hz	110-120 V /220-230 V, 50/60 Hz	100-240 V, 50/60 Hz
Motion	-	Orbital	
Speed Display	-	Scale	
Maximum Load Capacity	-	-	0.5 kg

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	For Models
MX1025	Standard top cup	For <math>\varnothing</math>30mm tubes and small vessels	MV141, MV142
MX1026	Tube holding rod	Used with MX1028 to MX1032	MV141, MV142
MX1027	Universal top plate	100mm plate attachment , free of Rubber vacuum suction foot (18900158, 4pcs)	MV141, MV142
MX1028	Tube adapter	For 48 holes test tubes, $\varnothing$ 6mm, used with MX1027/ MX1026/PS1.1	All
MX1029	Tube adapter	For 15 holes test tubes, $\varnothing$ 10mm, used with MX1027/ MX1026/PS1.1	All
MX1030	Tube adapter	For 12 holes test tubes, $\varnothing$ 12mm , used with MX1027/ MX1026/PS1.1	All

MX1031	Tube adapter	For 8 holes test tubes, Ø16mm, used with MX1027/ MX1026/PS1.1	All
MX1032	Tube adapter	For 8 holes test tubes, Ø20mm, used with MX1027/ MX1026/PS1.1	All
MX1033	Platform pad	For <Ø99mm tubes and small vessels	MV141, MV142
MX1034	Rubber vacuum suction foot with screw, 1pc		MV141, MV142
MX1035	Universal top plate(round)	Used with MX1028 to MX1032	MV143
MX1036	Microplate clamp		MV143
MX1037	Double microplate clamps		MV143

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