



Mixing

D LAB

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DLAB mixers range can be divided into different series as per mixing speed, working mode, load capacity etc:

Series	Image	Model	Speed Range	Working mode	Capacity	Page
Vortex Mixer		MX-S	0~3000rpm	Orbital (touch + continuous modes)	-	p.105
		MX-F	3000rpm	Orbital (touch + continuous modes)	-	p.106
		MX-E	3000rpm (fixed)	Orbital (touch mode)	-	p.107
Cell disruptor		MX-C	0~3000rpm	Orbital (touch + continuous modes)	8x2mL	p.109
Microplate Mixer		MX-M	0~1500rpm	Orbital (continuous mode)	0.5Kg	p.109
Disk Rotator		MX-RD-Pro	10~70rpm	360° rolling (timer + continuous)	60x1.5mL, 16x15mL, 8x50mL, (available for 3 layers)	p.112
Rotisserie Rotator		MX-RL-Pro	10~70rpm	360° rolling (timer + continuous)	48x1.5mL, 24x15mL, 24x50mL	p.113
Disk Rotator		MX-RD-E	0~80rpm	360° rolling (continuous)	48x2mL, 16x15mL, 8x50mL	p.115
Rotisserie Rotator		MX-RL-E	0~80rpm	360° rolling (continuous)	32x2mL, 20x15mL, 16x50mL	p.116
Rocking Rotator		SK-R30S-E	0~30rpm	30 ± 3° rocking (continuous)	10x10mL, 4x50mL	p.117
		SK-R30L-E	0~30rpm	30 ± 3° rocking (continuous)	16x10mL 6x50mL	p.117
		SK-R30D-E	0~30rpm	40 ± 3° rocking (continuous)	32x10mL, 12x50mL	p.117
Roller Mixer		MX-T6-Pro	0~70rpm	360° rocking&rolling (timer + continuous)	4Kg	p.118
		MX-T6-S	0~70rpm	360° rocking&rolling (continuous)	4Kg	p.118

DLAB shaker series can be divided to different types as per different motion models:

Series	Image	Model	Plate Size	Display	Speed Range	Max. Load Capacity	Page
Orbital Shaker		SK-O330-Pro	32x32cm	LCD	100-500rpm	7.5Kg	p.119
		SK-O180-Pro	25x24,5cm	LCD	100-800rpm	2.5Kg	p.119
		SK-O330-M	33,5x33,5cm	LCD	70-400rpm	3Kg	p.120
		SK-O180-S	26,8x26,8cm	LED	40-200rpm	3.1Kg	p.120
Linear Shaker		SK-L330-Pro	32x32cm	LCD	100-350rpm	7.5Kg	p.121
		SK-L180-Pro	25x24,5cm	LCD	100-350rpm	2.5Kg	p.121
Rocking Shaker		SK-R330-Pro	30x28,5cm	LCD	10-70rpm	10Kg	p.122
3D Shaker		SK-D3309-Pro	30x28,5cm	LCD	10-70rpm	5Kg	p.123

MX-S

Variable speed Vortex Mixer

Features

- Variable speed of 0 to 3,000rpm for gentle shaking to rapid mixing of samples
- Touch or continuous operation mode
- Includes a standard top head for mixing a single test tube or other small vessel up to 30mm in diameter
- Electronic speed control maintains constant speed even during changes in load
- Steel base with specially designed vacuum suction feet provides stability and dampens vibration
- Robust aluminum-cast construction



VT1.1 Standard top(Default) Cat. No.18900034

for <Ø30mm tubes and small vessels



Specifications	MX-S (Adjustable speed)
Voltage	100-120V/200-240V,50/60Hz
Power	60W
Mixing motion	Orbital
Orbital diameter	4mm
Motor type	Shaded pole motor
Motor rating input	58W
Motor rating output	10W
Speed range	0-3000rpm
Speed display	Scale
Run type	Touch operation/Continuous
Dimension[W × H × D]	127 × 130 × 160mm
Weight	3.5kg
Permissible ambient temperature	5-40℃
Permissible relative humidity	80%RH
Protection class	IP21



MX-F

Fixed speed Vortex Mixer

Applications

Vortex mixers are ideal for mixing liquid components in tubes, resuspension of cells, using an eccentric mechanism. They are widely used in clinical labs performing virus diagnostic tests and in biological & chemical analysis applications.

It is perfect for mixing high-viscosity materials, such as waxes and slurries; to mix battery slurries, paints, pharmaceuticals and more.



Wide range of accessories

VT1.1 Standard top(Default) Cat. No.18900034

for <Ø30mm tubes and small vessels



Specifications	MX-F (Fixed speed)
Voltage	100-120V/200-240V, 50/60Hz
Power	60W
Mixing motion	Orbital
Orbital diameter	4mm
Motor type	Shaded pole motor
Motor rating input	58W
Motor rating output	10W
Speed range	3000rpm
Speed display	-
Run type	Touch operation/Continuous
Dimension[W × H × D]	127 × 130 × 160mm
Weight	3.5kg
Permissible ambient temperature	5-40°C
Permissible relative humidity	80%RH
Protection class	IP21



MX-E

Economic Vortex Mixer



Features

- Compact , portable and fits nicely on bench-top (erase desktops and table tops)
- Touch operation, Fixed speed of 3,000rpm for rapid mixing of samples
- Powerful and efficient 12V DC brushless motor is smooth operation and has long life
- Foot pad design secures the mixer in place and does not wobble during operation

Applications

Used to rapidly mix small samples of liquids for lab researches or other works like to mix Nail Polish, Gel Polish, Eyelash Adhesives acrylic paint, tattoo ink and so on.

Specifications	MX-E
Power supply	100–240V
Frequency	50/60Hz
Power	12W
Mixing motion	Orbital
Revolving diameter	4.8mm
Motor rating output	10W
Rotational speed	3000rpm
Operating mode	Inching
External dimension	133X133X80mm
Dimension of packing box	250X185X130mm
Weight	0.6kg
Allowable environment temperature	5–40°C
Permissible Ambient Temperature	≤80%RH
Protection class	IP21



VT1.2 Tube holding rod Cat. No.18900044

used with tube adapters

**VT1.3 Universal top plate** Cat. No.18900035

Ø 100mm

**VT1.3.1 tube adapter** Cat. No.18900020

for 48 holes test tubes, Ø6mm (1mL)

**VT1.3.2 tube adapter** Cat. No.18900021

for 15 holes test tubes, Ø10mm (1.5-2mL)

**VT1.3.3 tube adapter** Cat. No.18900022

for 16 holes test tubes, Ø12mm (5mL)

**VT1.3.4 tube adapter** Cat. No.18900023

for 8 holes test tubes, Ø16mm (10mL)

**VT1.3.5 tube adapter** Cat. No.18900024

for 8 holes test tubes, Ø20mm (10-15mL)

**VT1.3.6 Platform pad** Cat. No.18900043

for <Ø99mm tubes and small vessels

**VT1.3.7 vacuum chuck** Cat. No.18900158

made of rubber



Application of accessories

Accessories	Adjustable speed model (0-2500rpm)	
	Touch mode (High speed area)	Touch mode (High speed area)
VTI.1	Y	Y
VTI.2 + VT1.3.1	Y	
VTI.2 + VT1.3.2	Y	
VTI.2 + VT1.3.3	Y	
VTI.2 + VT1.3.4	Y	
VTI.2 + VT1.3.5	Y	
VTI.3 + VT1.3.6	Y	
VTI.3 + VT1.3.1		Y
VTI.3 + VT1.3.2		Y
VTI.3 + VT1.3.3		Y
VTI.3 + VT1.3.4		Y
VTI.3 + VT1.3.5		Y



MX-C

Cell Disruptor

Specifications	MX-C
Functions	Disrupts cells, yeast, bacteria, algae, fungi, etc.to prepare cell lysates for further processing
Mixing motion	High-speed circumferential vortex and oscillation function
Orbital diameter	4mm
Speed range	0-3000rpm (Adjustable)
Speed display	Scale
Capacity	8 × 2mL
Voltage	200-240V/ 100-120V, 50/60 Hz, 60W
Dimension	127X130X160mm
Weight	3.5kg



Features

- Durable, reliable and affordable Easy to operate, rapid hands-free disruption of up to 8 microtubes
- Simultaneous processing of multiple samples,Processes at a constant, controlled shear rate
- Maintains genome integrity of the biological samples
- Facilitates subsequent purification of genomic material
- Best suited for research laboratories ideal where require accurate, reproducible, repeatable results

Applications

Suitable for all sample types;Lysis of yeast and fungi; for Isolation of genomic material from faecal samples; fungi and bacteria samples; soil samples;for Isolation of PCR-Ready Genomic DNA from Soil Samples; DNA & RNA Purification; Lysis of bacteria; Lysis of soft tissues; Isolation of genomic DNA; Purification of DNA; Cell Lysis; Used to lyse cell wall of yeast; Break hard/brittle samples.

MX-M

Microplate Mixer

Features

- Wide range of speed from 0 to 1,500 rpm (Double microplate: 0–1,000 rpm)
- Excellent performance with electronic speed control
- High speed and effective mixing for microplates
- With adapters for most popular vessels and microtiter plates
- Used for various mixing applications with optional adapters
- Maintenance-free brushless DC motor



Applications

DLAB Microplate Mixer is used for holding single or double microplates. The footprint of MX-M Microplate Mixer occupies less bench space and makes the storage easier. It is widely used in life sciences including microbiology, cell and molecular biology, immunology and biotechnology



Brushless DC motor



Wide range of accessories


PS1.1 Universal top plate	Cat. No.18900067
Used with tube adapters	
	

VT1.3.4 tube adapter	Cat. No.18900023
for 8 holes test tubes, Ø16mm	
	


VT1.3.1 tube adapter	Cat. No.18900020
for 48 holes test tubes, Ø6mm	
	

VT1.3.5 tube adapter	Cat. No.18900024
for 8 holes test tubes, Ø20mm	
	

VT1.3.2 tube adapter	Cat. No.18900021
for 15 holes test tubes, Ø10mm	
	

PS1.2 Microplate clamp	Cat. No.18900042
	

VT1.3.3 tube adapter	Cat. No.18900022
for 12 holes test tubes, Ø12mm	
	

MXM-116	Cat. No.18900079
Double microplate clamps	
	

Specifications	MX-M
Shaking movement	Orbital
Orbital diameter	4.5mm
Max. shaking weight (with accessory)	0.5kg
Motor type	Brushless DC motor
Motor rating input	18W
Motor rating output	10W
Speed range	Single microplate: 0-1500rpm Double microplate: 0-1000rpm
Speed display	Scale
Voltage	100-240V,50/60Hz
Power	20W
Dimension	260 × 150 × 80mm
Weight	3kg
Permissible ambient temperature and humidity	5-40°C,80%RH
Protection class	IP21

