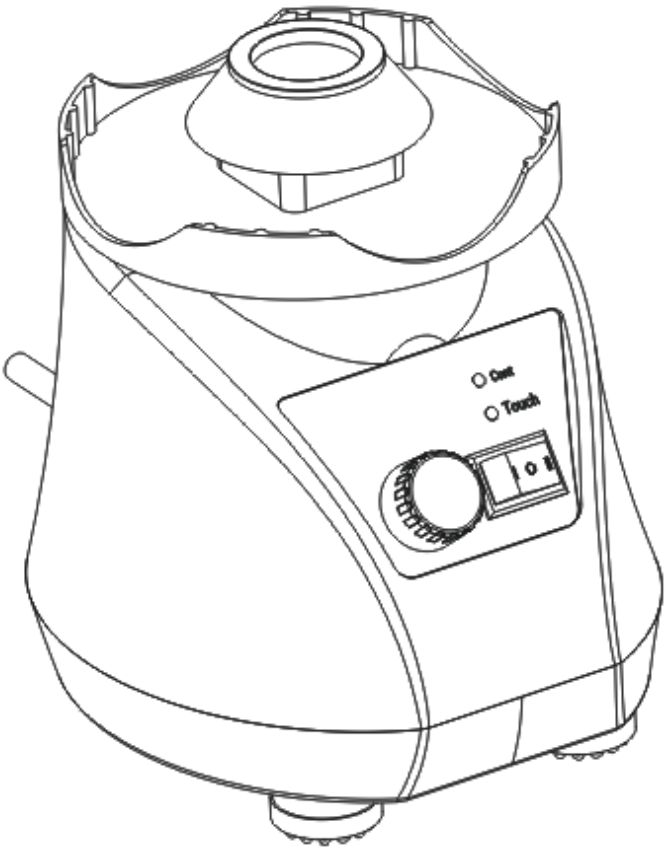
Mini Vortex Mixer

MV-2500 Manual

Version 2.0



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TECHNOLOGY

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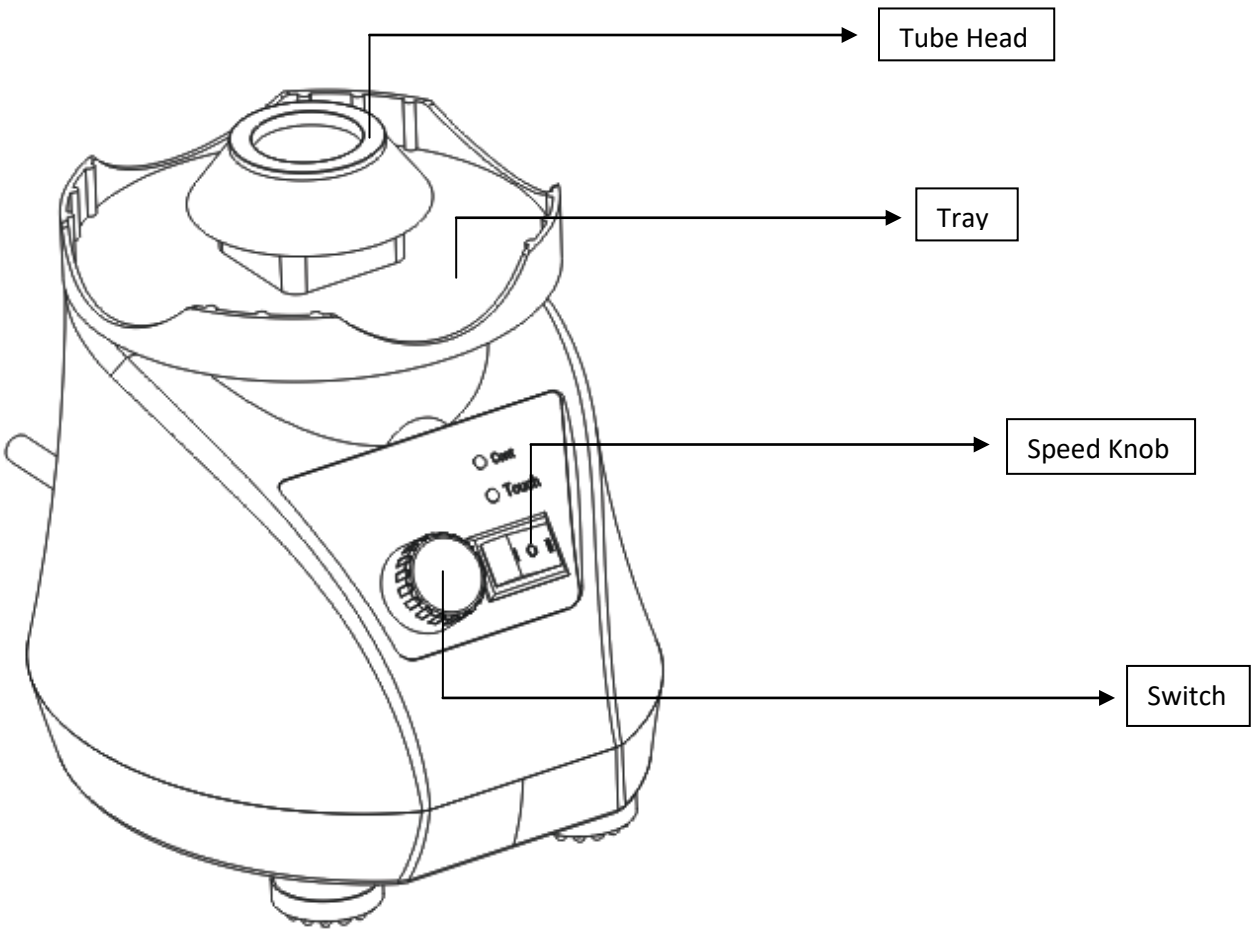
Mini Vortex Mixer MV-2500

1. Product Introduce

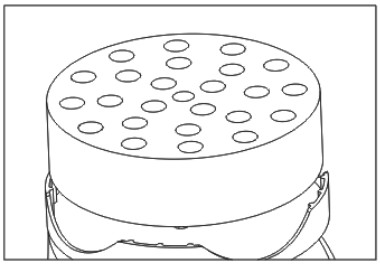
MV-2500 is widely used in life science, physical and chemical analysis fields, for vigorous re-suspension of cells or chemical pellets. It is suitable for 0.2-50ml microtubes and test tubes or small containers less than 108mm diameter.

2. Operation Guide

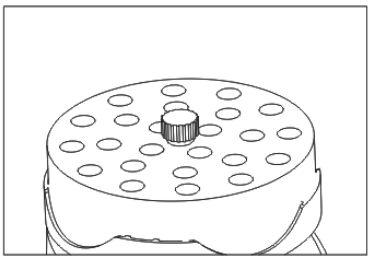
2.1 Structure Description



2.2 Install the Tube Rack

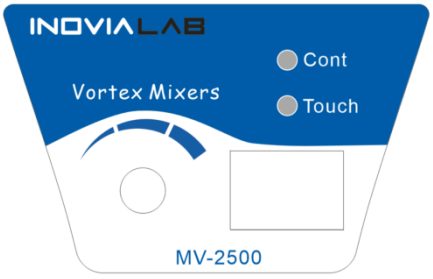


1. Put the tube rack into the tray



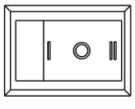
2. Nut lock tube rack and tray

2.3 Keyboard and Display Panel



2.4 Key Functions

Speed Knob: Rotate the knob to set the speed. The max speed is 2500 RPM.



Switch: Press to left, the cont light is on and the instrument is continued operation; Press to right, the touch light is on and the instrument is transient oscillation. Press to center, the instrument is off.

2.5 Operation Guide

The operation

a) Turn on the instrument, when press the switch to lift, the Cont light is on; press to right, the Touch light is on.
b) The Cont light is on, rotate the knob to set the speed.
c) When the Touch light is on, it is transient oscillation. The max speed is 2500rpm.

Warning:

1. Avoid putting the liquid into the instrument;
2. Stop operate the instrument If it runs with abnormal noisy;
3. Do not use multiple tubes at the same time;
4. Do not operate the instrument without the rotor;
5. Do not add samples to the tubes installed in the rotor;
6. Do not move the instrument when it is running.

3. Clean

Clean the instrument with a dry cloth and a non-corrosive cleaning solution with a pH of 7 ± 1; Do not immerse the instrument in a liquid or use a liquid to wet the instrument; Ensure that all parts of the instrument are completely dry before running the instrument.

4. The Parameters

Type	MV-2500
Operation Way	Knob + Ruling
Orbital Diameter	3mm
Oscillation Method	Circle
Operation	Continued / Transient Oscillation
Speed	0 – 2500 RPM
Timing	/
Voltage	AC 220V / AC 110V, 50/60Hz
Power	60W
Fuse	250V, 1A, Φ5x20
Dimension (WxDxH)	134x156x150mm
Weight	2.4 Kg
Tube Holder	Refer table of “Tube Holder”

5. Error Analysis and Recovery Processing

Fault	Cause	Recovery
The rotor doesn't work when it powers on	1. No Power	Chech the power switch and power cord
	2. The over not closing	Close the cover again
	3. Fuse burned	Exchange fuse / Contact to the seller
High Noise, abnormal noise and strong vibration	1. The instrument not placed horizontally	Place the instrument is horizontally
	2. The tube rack not properly installed	Installed the tube rack properly
	3. Tubes not symmetrically distributed	Distribute tubes symmetrically
	4. Various tubes	Use the same tubes
	5. Broken rotor cover	Attention to maintenance

6. Packing List

No	Item	Type	Quantity
1	Mini Centrifuge	MV-2500	1
2	Rubber Mat		1
3	Tube Head		1
4	Locknut	30mm / 50mm	1
5	Manual		1
6	Certificate		1
7	Tube Rack		1
8	M4x8 Countersunk Screw		6

7. Performance Test

No.	Content	Methods	Standards	Result
1	Speed	Test	2500±300	Qualified
2	Basic Function	Visualization	Valid	Qualified
3	Appearance	Visualization	Coincidence	Qualified
4	Label	Visualization	Coincidence	Qualified
5	Operation	Test	72h without Trouble	Qualified

8. Tube Holder

No.	Picture	Tube Holder
X1		Standard rubber head for tubes and small containers less than 30 mm diameter
X2		Standard plastic tray
X3		Foam Tray used with X2 (standard tray), for tubes or small containers less than 108mm in diameter
X4		Foam module used with X2(standard tray), for 0.2ml test tube, aperture Φ5mm×96
X5		Foam module used with X2(standard tray), for 0.5ml test tube, Φ6.6mm×37
X6		Foam module used with X2(standard tray), for 1.5/2.0ml tube, Φ9.8mm×24
X7		Foam module used with X2(standard tray), for 15ml test tube, Φ14mm×8
X8		Foam module used with X2(standard tray), for 50ml test tube, Φ26.2mm×4
X9-10		Microplate tray for various microplates, deep well plates, etc.
X11		Foam module used with X2(standard tray), for 0.2ml, 0.5ml, 1.5ml, 2.0ml tubes
X12		Foam module used with X2(standard tray), for 5ml/7ml test tube ×8