

# MULTI - SHAKER OPERATING MANUAL

## MULTI - SHAKER

• FMS3



### Operating Manual

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**FINEPCR**<sup>®</sup>

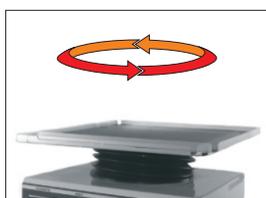
CE ISO 9001

## CHARACTERISTICS

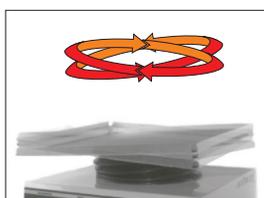
- Orbit of 18mm for best mixing result especially for gel and blotting
- Simple and easy of angle adjustment system
- High quality permanent DC brushless motor for gentle and powerful motion
- Continuous or timed operation
- Dual mat to accommodate each vessels in the proper mat
- BAE 07 mechanism (patented,5 step angle adjustment system) allows orbital motion and various twist movement

## SPECIFICATION

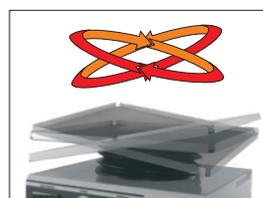
MODEL	FMS3
Speed range	30~300 rpm
Shaking angle	Orbital range - $\Phi$ 18mm
	3D twist 5°
	3D twist 10°
	3D twist 15°
3D twist 20°	
Motor	BLDC motor
Temp. Resist	Lower than 55°C(Dry air 85%)
Loadable weight	3 kg
Speed Timer	180 min
Weight	12 kg
Dimensions(mm)	W300mm x D300mm x H155mm
Platform(mm)	W300mm x D300mm
Wattage	50W
Power	Free Voltage (AC100 ~ 240V)



Orbit of  $\Phi$ 18mm



3D motion 5° tilt angle



3D motion 20° tilt angle

## USER CONSIDERATION

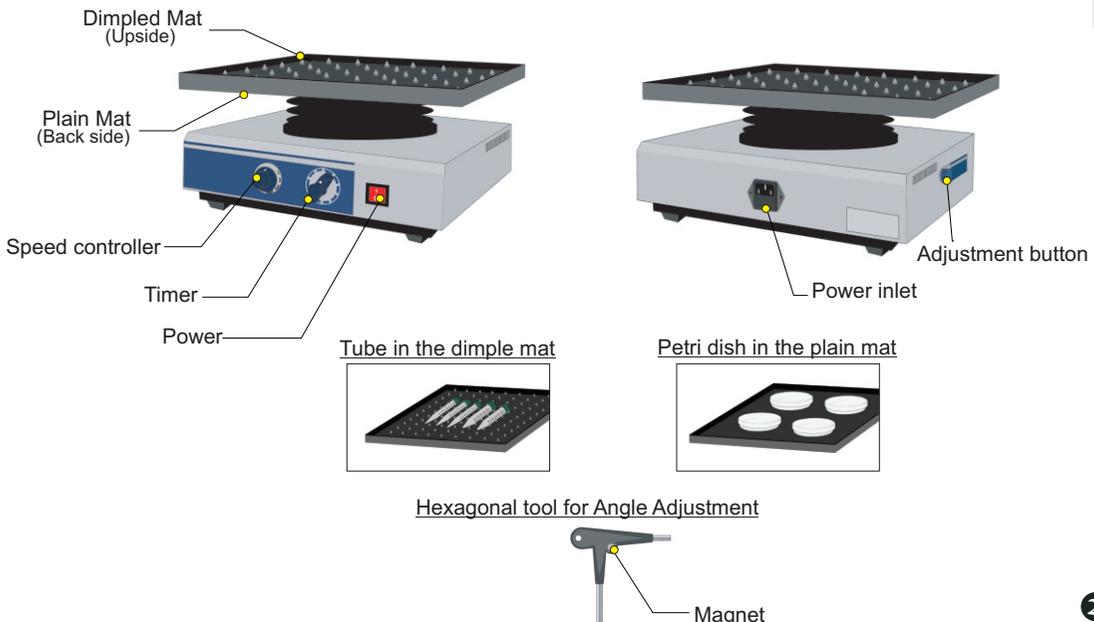
- Check whether the voltage specified on the appliance matches the local mains voltage before plug the cord into the electrical outlet.
- Place the unit on a stable, flat and clean surface and check if the four rubber legs are touched firmly on the surface.
- Avoid spilling chemical solutions on the unit to prolong the unit's performance and prevent injury due to electric shock.
- Read the instruction for the angle adjustment carefully before attempting to Change the angle. The incorrect procedure will cause damage to the unit.
- According to the state of electronic currency, the mixing speed could be changeable.



### ENVIRONMENTAL CONDITIONS

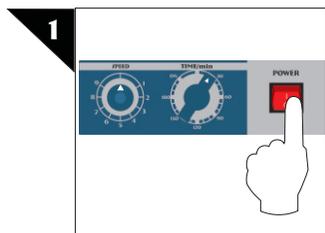
- Indoor use
- Environment temperature 5 °C to 40 °C
- Maximum relative humidity 80% for temperature up to 31 °C
- Mains supply voltage fluctuations not to exceed 10% of the nominal voltage
- Other supply voltage fluctuations as stated by the manufacturer
- Installation category : CAT II
- Pollution degree 2
- IPXO (ordinary)

## DESCRIPTION

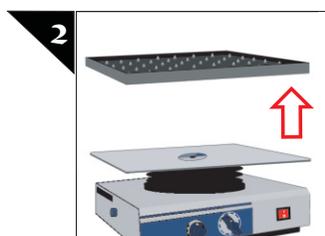


## USER OPERATION

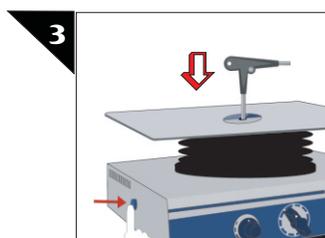
This section summarizes operation procedures for controlling multi SHAKER



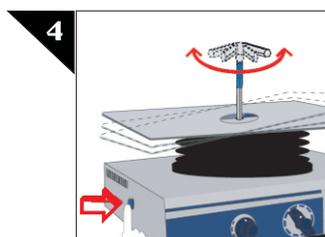
Place the speed control knob to "0" position and turn the power off before angle adjustment



Take a rubber mat out of the platform and turn the power off before angle adjustment



Press the button and Insert the hexagonal tool into the insertion hole till the tool fits the hole properly.



Push the button strongly and turn the tool clockwise at the same time. When you adjust tilt angle clockwise the tilt angle will be changed as below

Step	tile angle	Mode
1	0°	Orbital motion
2	5°	3D motion
3	10°	3D motion
4	15°	3D motion
5	20°	3D motion

◆ For returning the previous angle then just turn the tool counterclockwise in the same way.

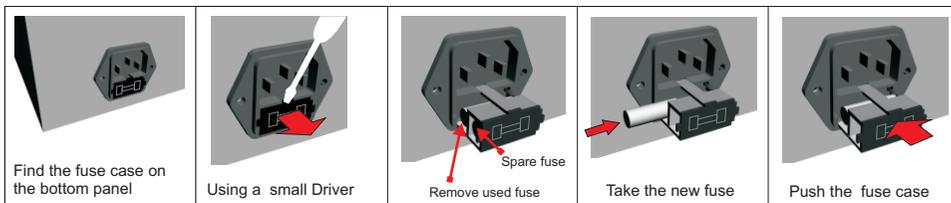
## MAINTENANCE AND CLEANING

- ⚠ Always unplug the instrument before you start to clean the unit.
- ⚠ Never immerse the appliance in water or in other liquids.
- ⚠ Never use the instrument if the plug, the cord or the instrument itself is damaged.

To prolong the life of the instrument, clean the surface of the multi SHAKER periodically. Clean the surfaces with a soft cloth soaked in water containing a surfactant detergent additive or isopropyl alcohol.

## FAULTY RUNNING

1. During mixing, the mixer is moving around on the bench
  - Check whether the unit is placed on stable, flat and clean surface so the rubber feet could touch on the surface properly.
2. The mixing speed does not meet a requirement.
  - FINEPCR's units can be simply adjusted in max. and min. Speed. Refer to the max/min speed control section of technical specification.
3. The electronic fuse blows out.
  - You can find the fuse box for spare one in the power module as the below drawings.



If the equipment have other defects, It should be informed to an authorized servicing agent.

## 1 YEAR WARRANTY

### Limited Warranty :

This equipment has been tested all the functions and parts for proper operation before shipment.

Please read this manual carefully. If you have any questions or problems, check with your dealer or write us direct. This equipment is warranted for a period of 1years from date of purchase against defects in workmanship and material only.

If a system component should ever fail to work perfectly, It can be repaired or replaced by our after-sales service without difficulty.

Model#: \_\_\_\_\_

Serial# : \_\_\_\_\_

Date Purchased : \_\_\_\_\_

Dealer Name : \_\_\_\_\_

City and Country : \_\_\_\_\_

**FINEPCR**

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