



# Mini Centrifuge Operation Manual

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### Chapter 1 Important Statement

#### 1.1 Notice

Users need to read the operation manual carefully before using the devices!  
 NEST will not bear any consequences if the user fails to comply with the following requirements.  
 This manual is suitable for centrifuges of model C10609, C10605 and C11202.

#### 1.2 Symbol description

Symbol	Description
	This symbol means that if the user does not follow the procedures or instructions, it may cause physical injury or damage to the instrument.

#### 1.3 Safety Instructions

Users must follow the basic safety regulations at all stages of operation and maintenance of the equipment, and avoid unexpected Use.

##### A: Pay attention to the tightness of centrifugal tube

Make sure the lid of the centrifugal tube is tight before putting into device to prevent the liquid to corrode the centrifuge.

##### B: Pay attention to centrifuge tube placement

Centrifuge tubes must be evenly placed on the rotor along the circumference of the rotor, otherwise the centrifuge may be damaged. Only centrifuge tubes of the same size can be centrifuged together.

##### C: Avoid unlocking the lid unexpectedly

- a) Do not force the lid open before the equipment stops to avoid danger.
- b) If the equipment needs to be stopped for some special reason, press “STOP” button.
- c) Do not lock or unlock the lid frequently, and keep the interval longer than 20s.

##### D: Instrument operating environment

Ensure the device is operated indoors, prevent damage from high temperature and high wetland environment.

##### E: Maintenance

- a) Ensure that the fixed screw in the rotor is installed tightly before start.
- b) Use a clean cloth with alcohol to wipe if there is a stain on the surface of the device.
- c) If any abnormality occurs during centrifugation, please stop the device immediately.

##### Attention

1. The surface of the equipment can be cleaned only after the power is cut off.
2. It is forbidden to clean the surface of equipment with corrosive liquid
3. This device is designed for indoor use only.

**2.1 Product Appearance**

The lid will be locked when the device is running for safety, It can only be opened after it stops running. Postposition power switch and power socket.  
Dimension: 240\*200\*130mm.( Length\*Width\*Height)

**2.2 Product features**

Features	Details
<b>Safety</b>	The equipment with electronic locks will not run until the lid is closed, and will not open automatically until after centrifugation
<b>Convenient</b>	The rotor can be compatible with centrifugal tubes of different sizes because of the special design, so there is no need to replace the rotor in use
<b>Flexibility</b>	Centrifugal time and speed can be adjusted in standby or in operation
<b>Sensitive</b>	The device has high sensitivity capacitive touch keys
<b>Efficiency</b>	Fast speed rise and fall with low noise

- h) Holding the button all the time means the time will increase or decrease continuously, first slowly and then fast.
- i) After setting the rotation rate or time, the characters of rotation rate or time will flicker three times. Then the new parameter will be saved Automatically
- j) Press "START/STOP" to start or stop the device.
- k) The user can also reset rotation rate and time when the device is running and the device will run according to new parameter after two seconds.
- l) Acceleration and deceleration takes less than 10 seconds
- m) The device will not start to work until the user click the "START/STOP" button after the lid is covered and the electromagnetic lock is locked.
- n) The buzzer will ring three times after centrifugation is completed, then the lid will open automatically.

**3.2 Centrifuge Types And Specification**

Electromagnetic Lock Function: Yes

Rotation or time: Adjustable

Model	Max rotation (rpm)	Applications	Speed
C10609	6000	General rotor for 1.2/0.5/1.5/5ml centrifuge tubes	Low Speed
C10605	6000	Rotor for 5ml centrifuge tubes	Low Speed
C11202	12000	Rotor for 1.5ml and 2.0ml centrifuge tubes	High Speed

**3.1 Control panel introduction**

**3.1.1 Functions of touch keys**

<b>SET</b>	Switch to time and rotation rate setting mode
<b>▲/▼</b>	Set time and rotation rate.
<b>START/STOP</b>	Start or stop the device.
<b>OPEN</b>	Open the lid after stopping operation.

**3.1.2 Display content of interface**

16 characters per line, as shown below:



**3.1.3 Functional description**

- a) The screen will display the rotation rate and time last running after the power switch is turned on.
- b) Press the "SET" button, the characters of rotation rate on the screen will flicker continuously.
- c) Press "▲/▼" to increase or decrease rotation rate. Single click means increasing or decreasing 100rpm.
- d) Holding the button all the time means the rotation rate will increase or decrease continuously, first slowly and then fast.
- e) Double click "SET" button, the characters of rotation rate on the screen will flicker continuously.
- f) Double click "SET" button, the characters of rotation rate on the screen will flicker continuously.
- g) Press "▲/▼" to increase or decrease time. Setting range includes 15s, 20s, 30s, 45s, 1~99min, Single click means increasing or decreasing 1min.

**Appendix 1 After-sales warranty Policy**

**1. After-sales warranty Policy**

- 1.1 The warranty time of each component shall be as shown in the warranty certificate
- 1.2 If abnormal problems occur in normal use of equipment, You can contact our after-sales technicians with sale voucher
- 1.3 After exceeding the warranty period, consumers can obtain maintenance services by providing sales vouchers from distributors. Our company will charge basic fees.
- 1.4 Once the equipment is sold, it will not be returned. If the equipment is abnormal, it will be repaired or exchanged after evaluation by our technical staff.

**2. Relevant Notes**

Equipment abnormality refers to non-man-made damage or non-force majeure damage of equipment under normal environment and following operation manual.

**Contact us**

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