

NEST<sup>®</sup>

# Mini Roller

105006US/EU & 105007US/EU

User's Manual



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## Introduction

Thank you for choosing NEST’s product. This product can be used in a variety of laboratory fields and work with different sized tubes.

Before you use the unit, please read this entire manual carefully to understand how to operate, and maintain. Your satisfaction with the unit will be maximized because of your increased understanding this instrument operation.

Keep this manual on-hand so it can be used by all operators of the unit. Be sure all operators of the unit are given appropriate training before you put the unit in service.

## Cautions for Usage

1. Be sure you follow any city, county, or other ordinances in your area regarding the use of this unit.
2. Use only approved accessories. Do not modify system components. Any alternations or modifications to your machine may be dangerous and will void your warranty.
3. Do not modify the power cord provided with the unit. If the plug does not fit an outlet, have a proper outlet installed by a qualified electrician.
4. Please only use the enclosed power supply adaptor to supply the unit.
5. Place the unit on level and sturdy surface to avoid vibration and noise.
6. Please use the unit in specified environment.
7. DO NOT move the unit while in operation.
8. DO NOT use flammable, volatile liquids or operate this unit under hazardous conditions.

## Receiving and Inspection

Your satisfaction and safety require a complete understanding of this unit, including its proper function and operational characteristics. Be sure operators are given adequate training before attempting to put the unit in service.

1. **Inspection:** The carrier, when accepting shipment, also accept responsibility for safe delivery and is liable for loss or damage claims. On delivery, inspect for visible exterior damage, note and describe on the freight bill any damage found and enter your claim on the form supplied by the carrier.
2. Inspect for concealed loss or damage on the unit itself, If any, the carrier will arrange for official inspection to substantiate your claim. Save the shipping crate until you are sure the unit has been delivered in good condition.
3. **Return Shipment:** If for any reason you must return the unit, contact your customer service representative for authorization and supply nameplate data.
4. **Accessories:** Make sure that all of the accessories indicated on the packing list is included with the unit. Carefully check all packaging before discarding. If there are any damaged or missing items, please contact your dealer.

## Disposal and Recycling Information



The symbol shown to the left indicates that this product shall not be treated as household waste. In line with EU Directive 2012/19/EU for waste electrical and electronic equipment (WEEE), this electrical product must not be disposed of as unsorted municipal waste.

Please dispose of this product by returning it to the point of sale or to your local municipal collection point for recycling.

## Installation

### 1. Control box installation

This unit is equipped with a separate control box (optional). Please fasten the nut on the connection plug of control box to the unit.

**NOTE:** Keys on the panel of the unit will become invalid when control box is connected. One control box controls one unit only.

### 2. Roller bars removal and installation

Roller bars can be removed and installed for different sized tubes.

#### 2.1 Roller bars removal

Turn the knob counterclockwise to be loose on the unit end (see Fig-1) and then lift the locking metal arm as shown in fig- 2. And remove it. Press the sheet metal to the original position and clockwise twist the knob for fastening.

#### 2.2 Roller bars installation

Turn the knob counterclockwise to be loose on the unit end (see Fig-1) and then uplift the pressure sheet-metal. Aim Hexagon Hole of roller at Hexagon shaft of the unit and press the other head into semicircle orifice. Press the sheet metal to the knob position and clockwise twist the knob for fastening.

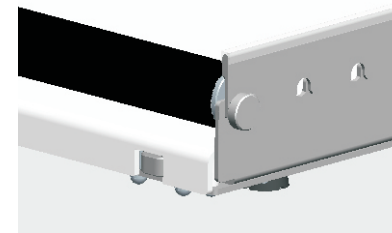


Fig-1

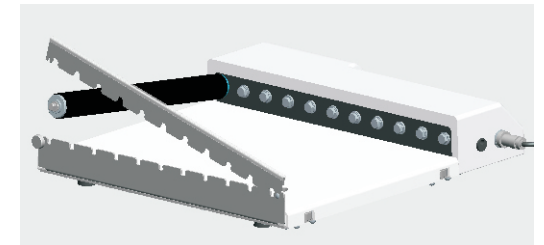


Fig-2

### 3. Rocking roller bars removing and installation

#### 3.1 Rocking roller bars removing

The way of removing the rocking roller bars is the same as the way of removing the roller bars.(see 2.1)

#### 3.2 Rocking roller bars installation

Counterclockwise twist the knob to be loose on the unit end(see Fig-1)and then uplift the pressure sheet-metal. Place the hexagon hole of the roller at the hexagon shaft of the unit and press the other head into semicircle orifice. After installing the first rocking roller bar,

you should rotate it as the direction of Fig-2. Stop and keep it when seeing that the notch in the rocking roller bar is aligning at the red line in the machine casing(see Fig-3). And then you can install the other rocking roller bars. When installing the other rocking roller bars, please insure that all of the notch in the rocking roller bar is aligned at the red line in the machine casing. Press the sheet metal to the knob position and clockwise twist the knob for fastening.

**Note:** Rocking roller bar and common roller bar can be installed in one machine. But you should space a roller between the rocking roller bar and the common roller bar.



Fig-3

#### 4. O-Rings

When rolling test tubes, tubes may roll off the bars due to the larger outer diameter of the tube cap. Please place o-rings on the other end of the tube (see Fig-3) to prevent the tube from falling. (Two o-rings for each tube are recommended.)

When using the rocking roller bars ,you can should not use the O-ring.And please place the test tube according to Fig-5.



Fig-4

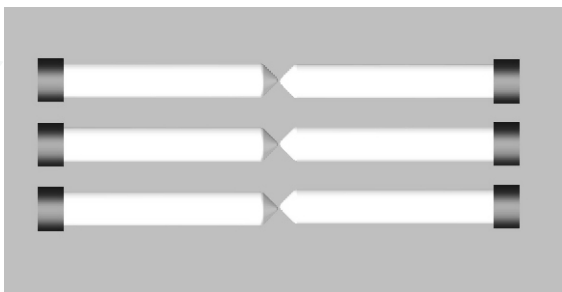


Fig-5

## Overview

### 【Features】

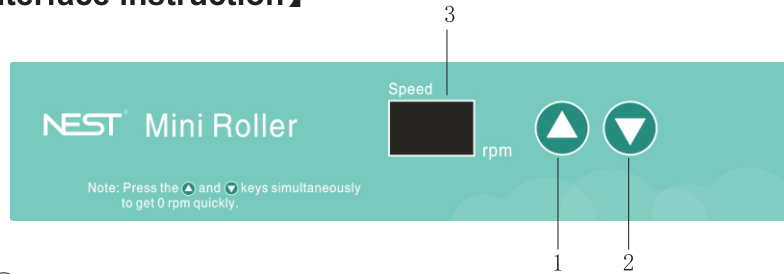
- Wide speed range: 0.5-80 rpm
- Timing function (control box connected)
- Remote control (control box connected)

### 【Specifications】

Model	105006US/EU	105007US/EU
Roller Bars	6	11
Control Box	N/A	Yes
Speed	0.5~80rpm	
Operating Mode	Way forward	
Roller Bars Dimensions	Ø28mmX259mm	
Available Tubes or Bottles	Max. Ø120mm bottles; tubes	
Positions	≤10	
Dimensions (W×D×H)	378×360×72mm	
Timer	0~999min or continuous run	
Max. Load	6.5Kg(With machine)	
Max. Power	10W	
Ambient Temperature	4°C~60°C	
Relative Humidity	≤95%	
Net Weight	6.5Kg	
Power Supply	AC100~240V, 50~60Hz	

## Operation

### 【Interface instruction】

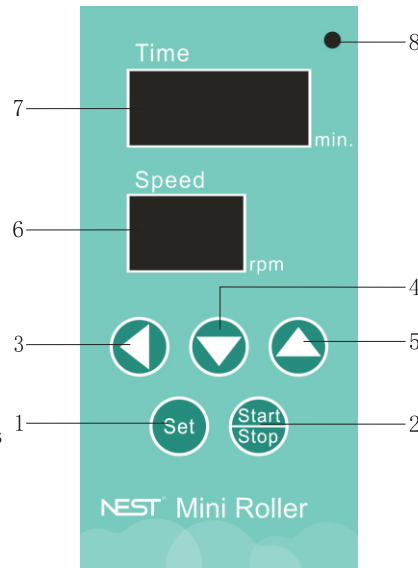


1. ▲: To increase value of roller speed.
2. ▼: To decrease value of roller speed.
3. Speed display: Show current speed of roller.

The speed of the Mini Roller will drop to 0 RPM when the down arrow key and up arrow key are pressed simultaneously.

### 【Control box instruction】

1. To set value of time and speed.
2. To start or stop the unit.
3. To move the cursor.
4. To decrease value. Hold for 3 seconds to quickly decrease the value.
5. To increase value. Hold for 3 seconds to quickly increase the value.
6. To display current speed of roller.
7. Displays remaining hours. When it reads "00", Continuous working Mode is activated. NOTE: Timing function is deactivated when the unit is in continuous working Mode.
8. Power indicator.



## Troubleshooting

Error	Cause	Solution
Unit does start	Power cable not connected	Check that power cable is firmly plugged into wall outlet.
	Power Supply	Check that cable is correctly installed into the unit
	Control box has been connected	Remote control box from unit
No display	Power failure	Ensure unit is powered on
	Time cycle completed	Repeat run
LED light on, unit not working	Overloaded	Check and repeat run
Not-responsive keypad	Control box is connected	Remote control box

## Packing List

List	Qty	Model	
		105006US/UE	105007US/UE
Machine	1	1	1
Control box			1
Power cables	1	1	1
Manual	1	1	1
O-Ring (23.5X3.55mm)	20	20	20
O-Ring (13.2X2.65mm)	20	20	20

## WARRANTY CARD

Save this card carefully please. When you need service, contact the service company with card & invoice.

Warranty Card			
User Name		Telephone	
Address			
Zip Code		E-mail	
Product Name		Model	
Serial number		Purchase Date	

● **Warranty Scope:**  
 1. Warranty period is 24 Months from purchase date.

● **Warranty is not valid under the following circumstances:**  
 1. Warranty term is expired.  
 2. Damage due to improper use, maintenance or handling.  
 3. Unmatched serial numbers, or modification of serial numbers.

Customer service hotline: **0510-68788698**  
 User: the above information should be completed by the seller.

Maintenance records				
The following should be completed by maintenance staff.				
First	Name of service		Maintenance date	
	Address		Telephone	
	Maintenance sheet number		Maintenance staff signature	
Second	Name of service		Maintenance date	
	Address		Telephone	
	Maintenance sheet number		Maintenance staff signature	
Third	Name of service		Maintenance date	
	Address		Telephone	
	Maintenance sheet number		Maintenance staff signature	