

# Roto-Mini Plus

## User's Guide

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# TABLE OF CONTENTS

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Introduction	4
Specifications	4
Installation	5
Operation	6
Maintenance	7
Ordering Information	7
Warranty	7

# Introduction

The Roto Mini Plus is a tube and plate rotator that enables a wide range of mixing capabilities. Suitable for an array of laboratory applications including resuspension, protein binding, nucleic acid purification, histochemistry, hybridization, etc., the Roto Mini Plus includes interchangeable tube holders for accommodating all common tube sizes from 0.5 mL to 50 mL.

# Specifications

ROTO MINI PLUS	
Speed	Adjustable from 1 to 70 rpm
Maximum Capacity	6 x 50 mL / 20 x 15 mL / 44 x 1.5-2.0 mL
Dimensions (WxDxH)	27.5 x 15.2 x 16.5 cm (10.8 x 6.0 x 6.5 in.)
Electrical	100V-240V / 50-60 Hz / 0.25A / 5W
Weight	1.4 kg / 3 lb.
Operating Environment	4°C-65°C
Warranty	2 years

# Installation

1. Place the Roto Mini Plus on a clean and stable surface. Ensure that there is at least three inches of open space both in front of and behind the instrument.
2. Plug the instrument into an outlet of the appropriate voltage.

## Tube Holder

The instrument includes an assortment of tube holders and posts.

1. Attach the tube holders (refer to Figure 1) to the included post with two arms.



**Figure 1**  
1.5-2.0, 5, 7, 10, and 15 mL Tube Holders

2. Press holders on firmly to prevent them from coming loose during use.
3. Once pressed on firmly, attach the post to the rotator by inserting the post into the left side of the rotator first and then into the main body (right side).
4. Once inserted, rotate the post until it is fully installed, see Figure 2.



**Figure 2**  
Post Rotation

## ADJUST TUBE ROTATION ANGLE

To adjust the angle at which the tubes rotate, simply rotate the position of the tube holders by hand until the desired rotational angle is achieved.

1. Attach the large tube holder directly to the rotator (without posts).
2. Insert the holder into the left side of the rotator first and then into the main body (right side).
3. Once inserted, rotate the post until it is fully installed.



**Figure 3**  
0.5 mL and 50 mL  
Tube Holders

## ROTATE TUBES HORIZONTALLY

To rotate tubes horizontally (rolling/hybridization motion):

1. Attach the two small posts to the center of the large tube holder. (One post has a small flat that can be inserted to correspond to the flat located in the center of the tube holder). Thread the two posts together by turning the post (without flat) clockwise until fully tightened.
2. Insert posts into the rotator.
3. Load the test tubes by pressing the test tubes firmly into the appropriate holder. Always ensure a balanced load across both sides of the rotational axis. (When mixing 15 and 50 mL tubes, always load a similar quantity of tubes on each side of the rotational axis.)

## Operation

### Set the Rotational Speed

The rotational speed can be selected by pressing the  and  arrows to adjust the display to the desired speed setting (5 to 70 rpm).

### Choose the Mixing Mode

The Roto Mini Plus offers three additional mixing modes: Mix, Pause, and Rock.

- To activate, press the **Mode** button.
- To toggle between modes, press the **Mode** button again.
- To return to the standard rotating mode, press the **Mode** button until all LED indicators are off.

## Maintenance

No routine maintenance is required other than to keep the unit clean. Cleaning can be done with a damp cloth.

**NOTICE**

Avoid the use of harsh solvents.

## Ordering Information

PART NUMBER	DESCRIPTION
36110100	Roto Mini Plus with tube holders, 115V, US cord
36110110	Roto Mini Plus with tube holders, 230V, EU cord (uses 3-pin cord)
36110120	Roto Mini Plus with tube holders, 230V, UK plug
36110130	Roto Mini Plus with tube holders, 230V, AU cord

## Warranty

Gilson warrants this instrument against defects in material under normal use and service for two years from the date of purchase. This warranty is valid only if the instrument is used in the manner described in this guide and for the purpose for which it is designed. Gilson is not responsible for consequential damages resulting from the misuse or bad cleaning or decontamination of this instrument. Enclose with the returned instrument a description of the problem that has occurred.

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