

# GYRO MINI NUTATING MIXER

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## User Manual



**S0500**  
**S0500-230V-EU**  
**S0500-230V-UK**



Lit M00066

**Labnet**

Rev.2, July 2016

## About This Manual

This manual is designed to assist you in the optimal usage of your Labnet Gyro Mini Nutating Mixer. The manual is available in English, French, German, Italian, Portuguese, and Spanish on our website at [www.labnetinternational.com/document-center](http://www.labnetinternational.com/document-center)

## OVERVIEW

The GyroMini Nutating Mixer is a three dimensional shaker typically used for maintaining the uniform suspension of blood components in blood collection tubes without foaming. The GyroMini Nutating Mixer is also ideal for mixing large strands of DNA into solution in micro tubes or mixing blood into a buffer in large centrifuge tubes. The GyroMini achieves its 3-dimensional mixing by combining the rotating motion of an orbital shaker with the rocking motion of a platform rocker.

The modern styling of the Labnet GyroMini housing is achieved through the use of injection molded FR-ABS plastic. The large platform is constructed of powder coated aluminum topped with a rubber TPE mat.

## INSTALLATION

The Labnet GyroMini can be used on a bench, in a cold room or in an incubator up to 40C. Place the unit on a flat stable surface and be sure to leave sufficient room around the unit to allow both the platform and load to move freely. A minimum of 4 inches (10cm) clearance on all sides of the mixer is advised.

Plug the unit into a properly grounded outlet of the appropriate voltage as shown on the units data plate label.

## OPERATION

Tubes may be placed directly on to the dimpled mat. The dimple pattern is configured to allow blood tubes and centrifuge tubes to be securely placed on the mat without additional strapping in most cases. If tubes are to be stacked, they should be secured with rubber bands or bungee cords. Holes in the corners of the platform edges are provided for this purpose.

Always load the platform in a uniform and balanced fashion.

Use the On / Off switch to turn the unit on. The direction of rotation in which the unit starts is random and does not affect mixing. If desired, the rotational direction can be reversed by holding the unit's base and very briefly touching the rotating platform on the bottom at one corner. This technique can also be used to select the quietest direction of rotation.

## MAINTENANCE

Always disconnect cord from power source before maintaining or servicing.

The Labnet GyroMini requires no maintenance other than occasional cleaning with a damp cloth with mild detergent. The rubber dimpled mat may be washed in soap and water. **Do not immerse the unit in water or spill liquids over the unit.** Be sure the unit is dry before reconnecting to power.

## SERVICE & REPAIR

The Labnet GyroMini is a well-built unit that should provide years of trouble free service. Should service be needed, contact Labnet International at 732-417-0700. Service should only be performed by a qualified service technician.

## SPECIFICATIONS

S0500-MAT Replacement accessory dimpled mat

Mixing action: 3 dimensional rocking rotating

Mixing speed: 24 rpm fixed (120V model) 20 rpm fixed (230V model)

Platform Tilt angle: 20 degrees fixed

Platform dimensions: 9.5 in. x 6.75 in (24cm x 17cm)

Mixer dimensions w x h x d: (9.5 in x 5.75in x 6.75) (24cm x 14.6cm x 17cm)

Mixer weight: 1.88 lbs (0.85 kg)

Platform load capacity: 1.75 lbs balanced (0.8kg)

Platform capacity without stacking: 60 x 1.5ml micro centrifuge tubes; 30 x pediatric blood tubes (3ml);




17 x 15ml centrifuge tubes; 21 x standard blood tubes (7ml); 9 x 50ml centrifuge tubes

Ambient operating range 4°C to 65°C, up to 85% RH non-condensing

Electrical: 120V, 50/60Hz, 0.03 amps or 230V, 50 /60Hz, 0.015 amps

## SYMBOLS AND CONVENTIONS

The following chart is an illustrated glossary of the symbols that may be used in this manual or on the product.

	The electrical warning indicates the presence of a potential hazard which could result in electrical shock.
	<b>CAUTION</b> This symbol refers you to important operating and maintenance (servicing) instructions within the product Instruction Manual. Failure to heed this information may present a risk of damage or injury to persons or equipment.
	This symbol identifies a Protective Earth (PE) terminal, which is provided for connection of the supply system's protective earth (green or green/yellow) conductor.

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## LIMITED WARRANTY

Labnet International Inc. warrants that this product will be free from defects in material and workmanship for a period of one (1) year from date of purchase. This warranty is valid only if the product is used for its intended purpose and within the guidelines specified in the supplied instruction manual.

Should this product require service, contact Labnet's Service department at 732-417-0700 to receive a return authorization number and shipping instructions. Products received without proper authorization will be returned. All items returned for service should be sent postage prepaid in the original packaging or other suitable carton, padded to avoid damage. Labnet International Inc. will not be responsible for damage incurred by improper packaging. Labnet may elect for onsite service for larger equipment.

This warranty does not cover damage caused by accident, neglect, misuse, improper service, natural forces or other causes not arising from defects in original material or workmanship. This warranty does not cover motor brushes, fuses, light bulbs, batteries or damage to paint or finish. Claims for transit damage should be filed with the transportation carrier.

ALL WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION OF 12 MONTHS FROM THE ORIGINAL DATE OF PURCHASE.

LABNET'S SOLE OBLIGATION UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT, AT LABNET INTERNATIONAL INC.'S DISCRETION, OF A DEFECTIVE PRODUCT. LABNET INTERNATIONAL, INC. IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGE, COMMERCIAL LOSS OR ANY OTHER DAMAGES RESULTING FROM THE USE OF THIS PRODUCT.

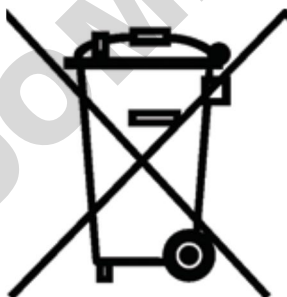
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**Please register your product online at:  
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**Warranty/Disclaimer:** Unless otherwise specified, all products are for research use only. Not intended for use in diagnostic or therapeutic procedures. Labnet International makes no claims regarding the performance of these products for clinical or diagnostic applications.

## EQUIPMENT DISPOSAL-EUROPEAN REGULATIONS



*According to Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE), Labnet GyroMini Nutating Mixer is marked with the crossed-out wheeled bin and must not be disposed of with domestic waste.*

*Consequently, the buyer shall follow the instructions for reuse and recycling of waste electronic and electrical equipment (WEEE) provided with the products and available at the following link: [www.corning.com/weee](http://www.corning.com/weee)*

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