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› LASER TREE LT-EA-R1 Rotary Roller User Manual

LASER TREE LT-EA-R1

LASER TREE LT-EA-R1 Rotary Roller User Manual

Y-Axis 360° Rotary Attachment for Laser Engravers

1. INTRODUCTION

The LASER TREE LT-EA-R1 Rotary Roller is a Y-axis rotary attachment designed to expand the capabilities of your laser engraver. It enables precise 360° engraving on cylindrical and irregularly shaped objects, making it suitable for a wide range of items such as round wood, bowls, cups, cans, bottles, pipes, and drums.

This device is engineered for ease of use, offering a plug-and-play experience without complex installation. It supports various engraving software and operating systems, ensuring broad compatibility with most laser engraving machines.

Expand Capabilities, Achieve Possibilities

Support the most of cylindrical items



Image 1.1: The LASER TREE Rotary Roller demonstrating its capability to engrave various cylindrical items like cups, bottles, and pens.

2. SETUP GUIDE

The LT-EA-R1 Rotary Roller is designed for straightforward setup. Follow these steps to integrate it with your laser engraver:

2.1 Unpacking and Component Check

Carefully unpack all components and verify that all items listed in the user manual are present. The package typically includes:

- Rotary Roller x 1
- Side bracket x 1
- M3 Phillips screwdriver x 1
- M3 Phillips screw x 3

- L-shaped hex wrench x 1
- Rubber scraper x 1
- User Manual x 1
- Connecting wires (1 each of 3 types) x 3



Roller x 1



Side bracket x1



M3 Phillips
screwdriver x 1



M3 Phillips
screw x 3



L-shaped
hex wrench x 1



Rubber
scraper x 1



User Manual



Connecting wires (1 each of 3 types) x 3

Image 2.1: All components included in the LASER TREE Rotary Roller package.

2.2 Connecting to Your Laser Engraver

1. Ensure your laser engraver is powered off.
2. Identify the Y-axis motor port on your laser engraver.
3. Select the appropriate connecting cable from the three provided types that matches your engraver's port.
4. Connect one end of the cable to the rotary roller and the other end to the Y-axis motor port of your laser engraver.
5. The rotary roller is designed for plug-and-play operation, requiring no additional driver installation.

2.3 Installing the Height-Adjustable Bracket (Optional)

For irregular or extra-long items, the height-adjustable bracket can be used to ensure stability and horizontal positioning on the roller.

1. Locate the base mounting location on the rotary roller.
2. Attach the side bracket to the base using the provided M3 Phillips screws.
3. Loosen the screw on the bracket to adjust the pulley height as needed for your object.
4. Tighten the screw after adjustment to secure the bracket.

Height-adjustable Bracket

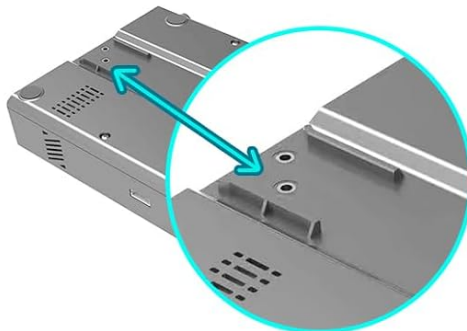
Keep the irregular and extra-long item horizontal and stable on the roller

Loosen this screw to adjust the pulley height.
Tighten the screw after adjustment.



Lateral Support Bracket

Base mounting location



Base mounting location

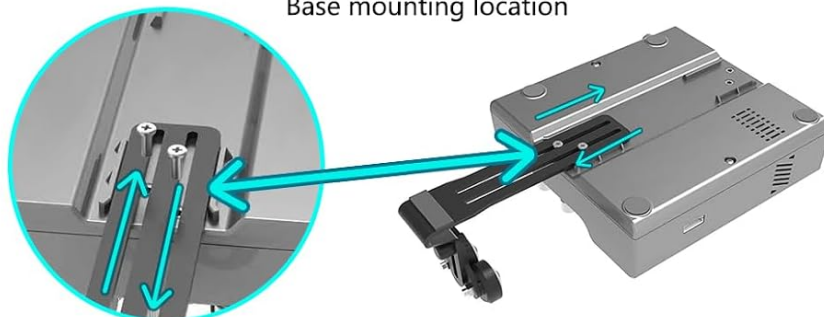


Image 2.2: Illustration of the height-adjustable bracket and its application for stable engraving.

3. OPERATING INSTRUCTIONS

Once the rotary roller is connected, you can begin engraving cylindrical objects. This device is compatible with popular engraving software such as LaserGRBL and LightBurn.

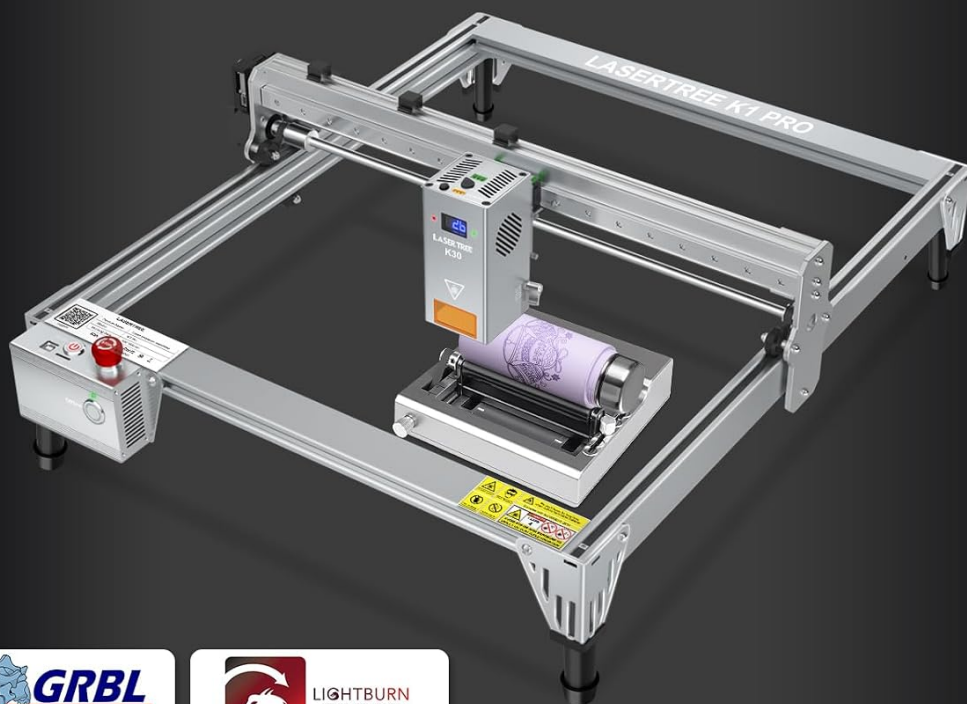
3.1 Software Compatibility

The rotary roller supports the following operating systems:

- Windows XP, 7, 8, 10
- Mac OS
- Linux

Ensure your engraving software is configured to use the Y-axis for rotary engraving. Refer to your software's documentation for specific rotary setup instructions.

Widely Compatible Design



Lightburn, LaserGRBL



Windows XP, 7, 8, 10, Mac OS, Linux



95% engraving machines on the market

Image 3.1: The rotary roller highlighting its wide compatibility with engraving software and operating systems.

3.2 Adjusting for Object Diameter

The rotary roller features 5 adjustable diameters to accommodate various object sizes. This allows you to increase the original engraving area and engrave at different angles.

1. Place your cylindrical object on the rollers.
2. Adjust the position of the active roller by rotating the engraving axis until the object is securely held and rotates smoothly.

3. The adjustable range is from 5mm (minimum diameter) to 100mm (maximum diameter). No tools are required for this adjustment.

Various Sizes Available

5 Gears for the Active Roller to Change Width



Flexible and Adjustable

5-gears width adjustment, 5-100mm adjustable range.
canbe adjusted without the use of wrench screwdriver

5-100mm

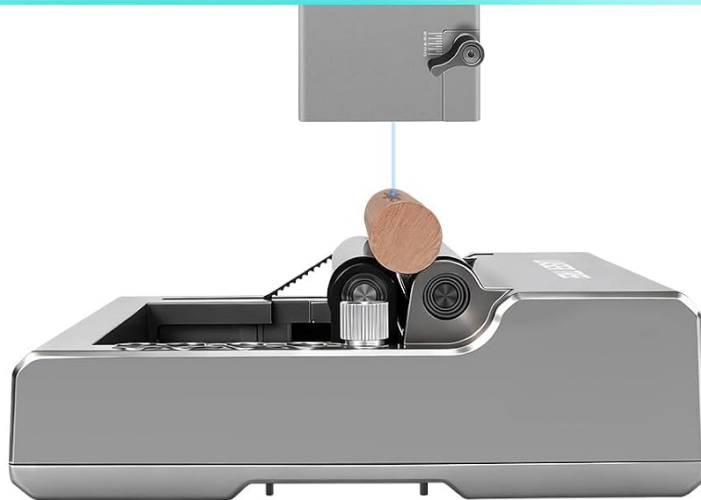
Image 3.2: Visual representation of the 5-gear width adjustment mechanism for the active roller.

Perfectly Compatible With LASER TREE laser Engraver

(K1 MINI 5W/10W, K1 Pro 30W/40W, K1 MAX 60W)

5mm

MIN Dia. Support



100mm

MIN Dia. Support



Image 3.3: Examples of the minimum (5mm) and maximum (100mm) diameter objects supported by the rotary roller.

3.3 Engraving Process

1. Prepare your design in your chosen engraving software.
2. Ensure the software is set to rotary engraving mode and the correct dimensions for your object are entered.
3. Place the object securely on the rotary roller, adjusting the rollers as necessary.
4. Perform a test run or frame check to ensure the laser path is correct and the object rotates properly.
5. Initiate the engraving process from your software.

4. MAINTENANCE

To ensure the longevity and optimal performance of your LASER TREE LT-EA-R1 Rotary Roller, follow these simple maintenance guidelines:

- **Cleaning:** Regularly clean the rollers and the base unit to remove dust, debris, and engraving residue. Use a soft, dry cloth. For stubborn residue, a slightly damp cloth can be used, ensuring the unit is completely dry

before next use.

- **Roller Inspection:** Periodically check the rollers for any signs of wear or damage. Ensure they rotate freely without obstruction.
- **Cable Integrity:** Inspect connecting cables for any fraying or damage. Replace damaged cables immediately to prevent electrical issues.
- **Storage:** When not in use, store the rotary roller in a clean, dry environment away from direct sunlight and extreme temperatures.

5. TROUBLESHOOTING

If you encounter issues with your rotary roller, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Rotary roller not moving	• Loose or incorrect cable connection. • Incorrect software settings. • Power issue.	• Check all cable connections to ensure they are secure and the correct cable type is used. • Verify Y-axis rotary settings in your engraving software (e.g., LaserGRBL, LightBurn). • Ensure the laser engraver is powered on and functioning correctly.
Engraving is distorted or uneven	• Object not securely placed. • Incorrect object diameter setting in software. • Rollers are dirty or obstructed.	• Ensure the object is stable and not slipping on the rollers. Adjust roller width if necessary. • Double-check the object's diameter in your engraving software settings. • Clean the rollers to remove any debris that might impede smooth rotation.
Software does not recognize rotary axis	• Software configuration issue. • Incompatible cable.	• Refer to your engraving software's manual for specific rotary axis setup. • Try a different connecting cable from the provided set.

6. SPECIFICATIONS

Feature	Detail
Model Number	LT-EA-R1
Product Dimensions	4 x 4 x 1.22 inches
Item Weight	1.9 pounds
Rotation Capability	360° Y-Axis Rotary Engraving
Adjustable Diameters	5 speeds/gears, 5mm to 100mm
Software Compatibility	LaserGRBL, LightBurn
OS Compatibility	Windows XP, 7, 8, 10, Mac OS, Linux
Connectivity	3 types of connecting cables included for broad compatibility

Feature	Detail
Manufacturer	LASER TREE

7. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your LASER TREE LT-EA-R1 Rotary Roller, please contact LASER TREE customer service directly. Refer to the contact information provided in your product packaging or visit the official LASER TREE website for assistance.

Online Resources:

- [Visit the LASER TREE Store on Amazon](#)

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question