ELEGOO Rotary Attachment

ELEGOO Rotary Attachment User Manual

For Laser Engravers

Introduction

Thank you for choosing the ELEGOO Rotary Attachment. This device is designed to expand the capabilities of your laser engraver, allowing you to precisely engrave cylindrical objects such as cups, bottles, and rings. With its adjustable width and high-speed motor control, it ensures accurate and professional results on curved surfaces. Please read this manual thoroughly before use to ensure proper setup and operation.

Safety Information

Always observe the following safety precautions when using the Rotary Attachment in conjunction with your laser engraver:

- **Eye Protection:** Always wear appropriate laser safety goggles when the laser engraver is in operation.
- **Ventilation:** Ensure adequate ventilation in your workspace to dissipate fumes and smoke generated during engraving.
- **Stable Surface:** Place the laser engraver and rotary attachment on a stable, level, and non-flammable surface.
- **Flammable Materials:** Keep flammable materials away from the engraving area.
- **Supervision:** Never leave the laser engraver unattended during operation.
- **Power Off:** Disconnect power to both the laser engraver and rotary attachment before performing any maintenance or adjustments.
- **Children and Pets:** Keep children and pets away from the operating area.

Package Contents

Verify that all items are present in the package:

- ELEGOO Rotary Attachment Unit
- Connection Cable
- User Manual (this document)



Figure 1: ELEGOO Rotary Attachment as packaged.

Setup

Follow these steps to set up your ELEGOO Rotary Attachment:

1. **Placement:** Place the rotary attachment on a stable surface, ideally directly under your laser engraver's working area. Ensure it is level.
2. **Connection:** Connect the rotary attachment to your laser engraver using the provided connection cable. The connection port is typically located on the side or back of the rotary unit. Refer to your laser engraver's manual for specific rotary attachment port locations.
3. **Power:** Ensure both the laser engraver and the rotary attachment are powered off before connecting. Once connected, you can power on your laser engraver. The rotary attachment draws power directly from the engraver.



Figure 2: Overview of the ELEGOO Rotary Attachment.

Operating Instructions

Using the rotary attachment for engraving cylindrical objects involves adjusting the width, placing the object, and configuring your engraver's software.

1. Adjusting the Width

The rotary attachment supports an adjustable width up to 70mm to accommodate various cylindrical object diameters. To adjust:

- Locate the adjustment knob on the side of the rotary attachment.
- Turn the knob to move the rollers closer or further apart, matching the diameter of your object.
- The scale markings (0mm to 70mm) on the unit provide a visual guide for the roller center distance.



Figure 3: Adjustment knob and width scale for cylindrical objects.



Figure 4: Side view illustrating the vertical width adjustment scale.

2. Placing the Object

Once the width is adjusted, carefully place your cylindrical object onto the rollers. Ensure the object sits securely and can rotate freely without obstruction.



Figure 5: The rollers of the rotary attachment, ready for object placement.

3. Software Configuration

The rotary attachment is controlled through your laser engraver's interface or software. Specific settings may vary depending on your engraver model and software (e.g., LightBurn, LaserGRBL). Generally, you will need to:

- Enable "Rotary Axis" or "Cylindrical Engraving" mode in your software settings.
- Input the diameter of the object you are engraving.
- Set the desired rotation speed and engraving parameters (power, speed, passes) as you would for flat engraving, but with rotary mode enabled.
- Perform a frame test to ensure the engraving path is correctly aligned on your object.

The high-speed motor ensures synchronous control of the object's rotation, leading to accurate and error-free pattern alignment on curved surfaces.

Maintenance

To ensure the longevity and optimal performance of your ELEGOO Rotary Attachment, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the rollers and the main unit with a soft, dry cloth to remove dust and debris. Avoid using abrasive cleaners or solvents.

- **Lubrication:** Periodically check the moving parts (e.g., lead screw for width adjustment) for smooth operation. If necessary, apply a small amount of light machine oil or silicone grease to ensure smooth movement.
- **Storage:** When not in use, store the rotary attachment in a clean, dry environment, away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Periodically inspect the connection cable for any signs of wear or damage. Replace if necessary.

Troubleshooting

If you encounter issues with your ELEGOO Rotary Attachment, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Rotary attachment not responding.	Loose connection cable; Rotary mode not enabled in software; Power issue.	Check cable connection; Ensure rotary mode is active in engraver software; Verify engraver is powered on.
Object slipping on rollers.	Rollers are dirty; Object not securely placed; Incorrect width adjustment.	Clean rollers; Re-position object firmly; Adjust width to fit object snugly.
Engraving is distorted or misaligned.	Incorrect diameter setting in software; Object not rotating smoothly; Excessive engraving speed.	Verify object diameter in software; Check for obstructions preventing smooth rotation; Reduce engraving speed.
Adjustment knob is stiff.	Accumulated dust/debris; Lack of lubrication.	Clean the lead screw area; Apply a small amount of light machine oil.

Specifications

Feature	Detail
Product Dimensions	9.65 x 3.74 x 11.42 inches
Item Weight	4.29 pounds
Adjustable Width Range	Up to 70mm
Manufacturer	ELEGOO
First Available Date	November 13, 2023

Warranty and Support

ELEGOO products typically come with a standard manufacturer's warranty. For detailed warranty information, please refer to the warranty card included with your product or visit the official ELEGOO website. For technical support, troubleshooting assistance, or any inquiries, please contact ELEGOO customer service through their official channels. You can often find support contact information on the ELEGOO website or within your laser engraver's documentation. As per ELEGOO's business profile, they have a group of electrical engineers for support and provide instruction tutorials in text and video. Feel free to reach out for assistance.
Official Website: www.elegoo.com (Please check the actual official website for the most accurate link)

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