

Creality Rotary Kit

Creality Laser Rotary Roller Pro for Creality Series Laser Engraver - Instruction Manual

Brand: Creality | **Model:** Rotary Kit

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of the Creality Laser Rotary Roller Pro. This Y-axis rotary chuck is designed to expand the capabilities of Creality series laser engravers, enabling precise engraving on cylindrical and irregularly shaped objects. Please read this manual thoroughly before operation to ensure proper setup and usage.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x Creality Laser Rotary Roller Pro
- 4x 56mm Risers (M6 Screw compatible)
- 8x 28mm Risers (M6 Screw compatible)
- 1x Professional Goggles (for 180nm-540nm wavelength)
- 1x Connection Cable (compatible with Falcon/Falcon2/Falcon2 Pro/Falcon2 Pro S series machines)

Note:

The connection cable for A1 series machines is typically included with the A1 series machine package and is not part of this Rotary Roller Pro package. Users connecting to A1 series machines should use the specific cable provided with their A1 machine.



Image: Contents of the Creality Laser Rotary Roller Pro package, showing the main unit, various risers, safety goggles, and examples of items that can be engraved.

3. SAFETY INFORMATION

Always prioritize safety when operating laser engraving equipment. The included professional goggles are designed to protect your eyes from laser harm within the 180nm-540nm wavelength range. Ensure you wear these goggles, or equivalent certified laser safety eyewear, at all times during laser operation.

Comes with Professional Goggles

Protect your eyes from laser harm and keep eyes comfortable.
Laser safety goggles for 180nm-540nm wavelength.



Image: Professional laser safety goggles, essential for eye protection during laser engraving operations.

4. PRODUCT OVERVIEW

The Creality Laser Rotary Roller Pro features a robust all-metal construction for durability and stability. Its innovative 3-in-1 adjustable jaws provide versatility for engraving a wide range of object shapes and sizes.

4.1 Multifunctional Adjustable Jaws

The rotary roller is equipped with versatile jaws to accommodate various object types:

- **Clamp from the Outside:** Suitable for cylindrical objects with a diameter of 1-110mm, such as cans or thermos pots.
- **Prop up from the Inner Side:** Ideal for cylindrical objects with a diameter of 25-75mm, like red wine glasses.
- **Hex Stud:** Designed for spheres with a diameter of 10-130mm, or rings and bracelets with a diameter of 15-100mm.

Rotary Kit Pro for Curved Surface Engraving

One set of jaws for multiple needs



No Assembly
Required



Multifunctional
Adjustable Jaws



One-handed
Clamping of
Engraved Items



Adjustable
Rotary Chuck

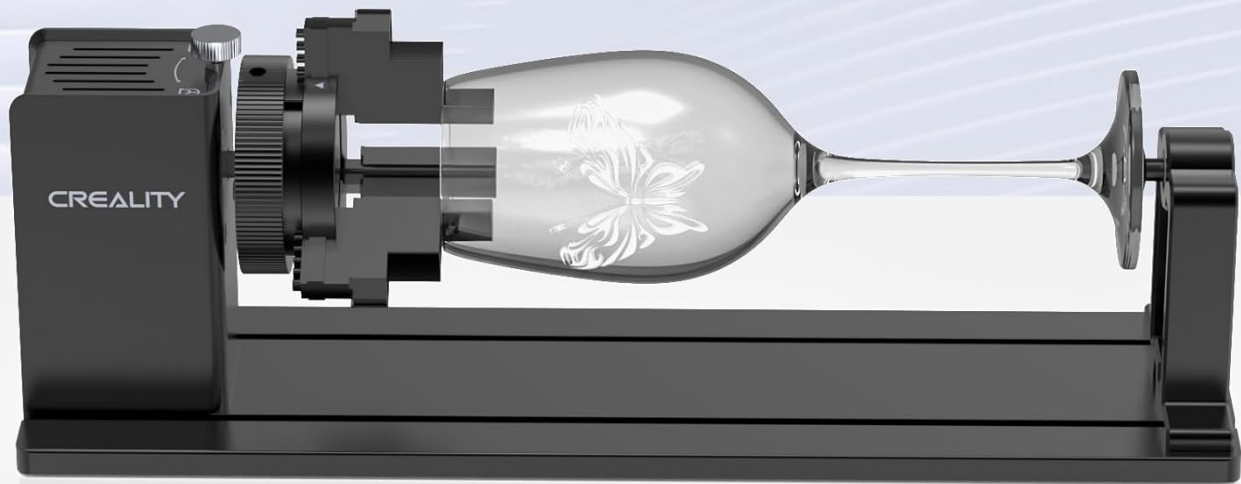


Image: The Rotary Kit Pro demonstrating its ability to clamp a wine glass for engraving curved surfaces.

Multifunctional Adjustable Jaws



Clamp from the outside

Cylindrical objects with a diameter of 1-110mm



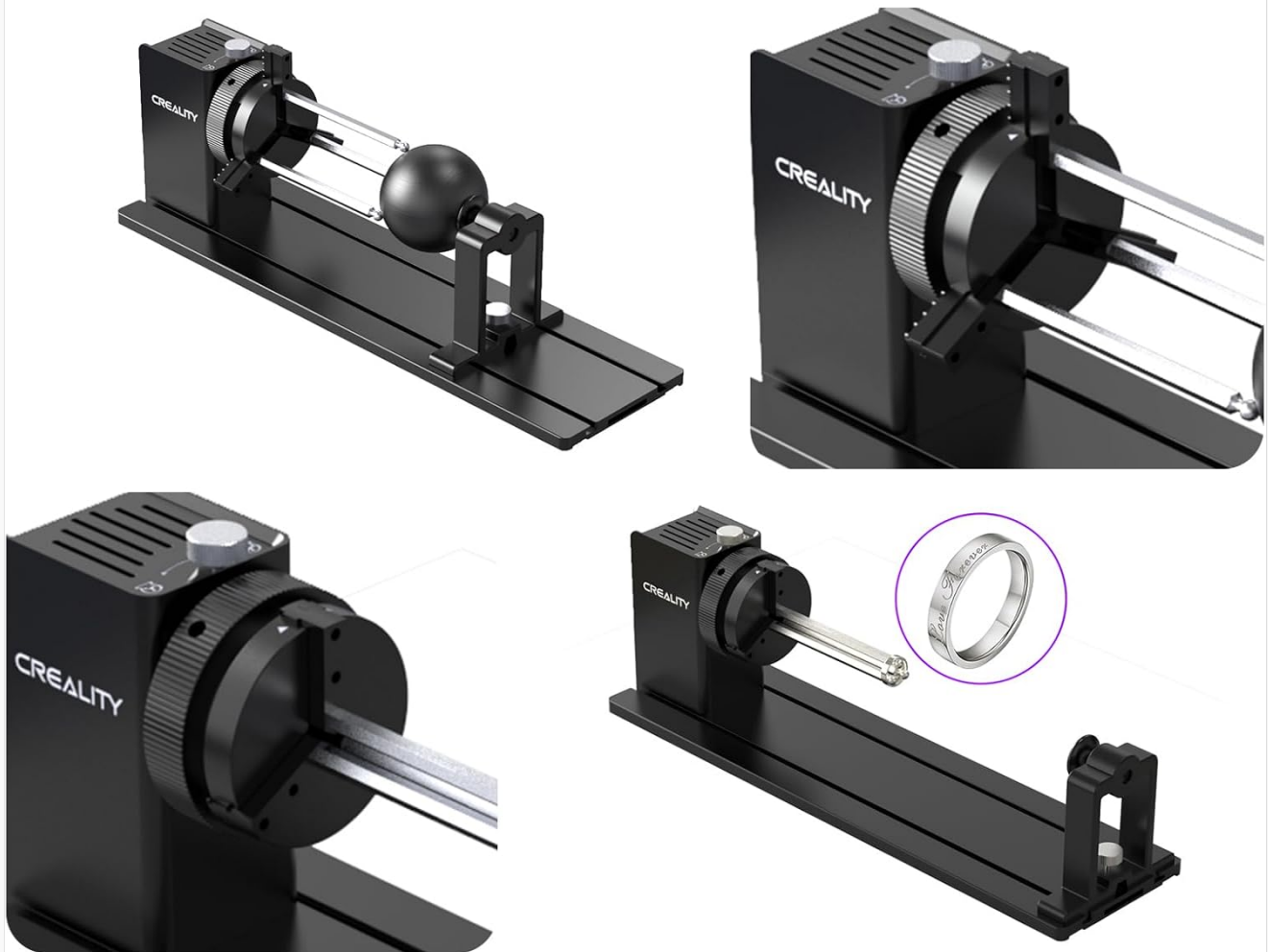
Prop up from the inner side

Cylindrical objects with a diameter of 25-75mm



Image: Detailed views of the rotary roller's jaws, illustrating external clamping for larger cylinders and internal propping for delicate items like wine glasses.

Multifunctional Adjustable Jaws



Hex Stud

Sphere with a diameter of **10-130mm** or rings, bracelets and other ring-shaped objects with a diameter of **15-100mm**

Image: The rotary roller configured with hex studs to securely hold spherical objects and rings for precise engraving.

4.2 Detail Features

- **Rotary Adjustment:** Allows for precise control over the rotation and positioning of the object.
- **Anti-slip Soft-pad:** Ensures secure gripping of objects, preventing slippage during engraving.
- **One-handed Clamping:** Designed for ease of use, allowing quick and secure clamping of items.

Detail presentation

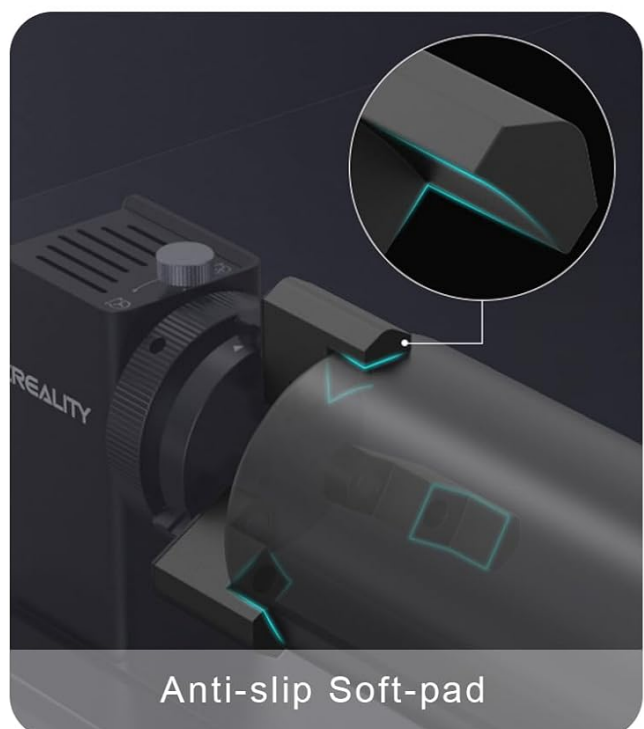
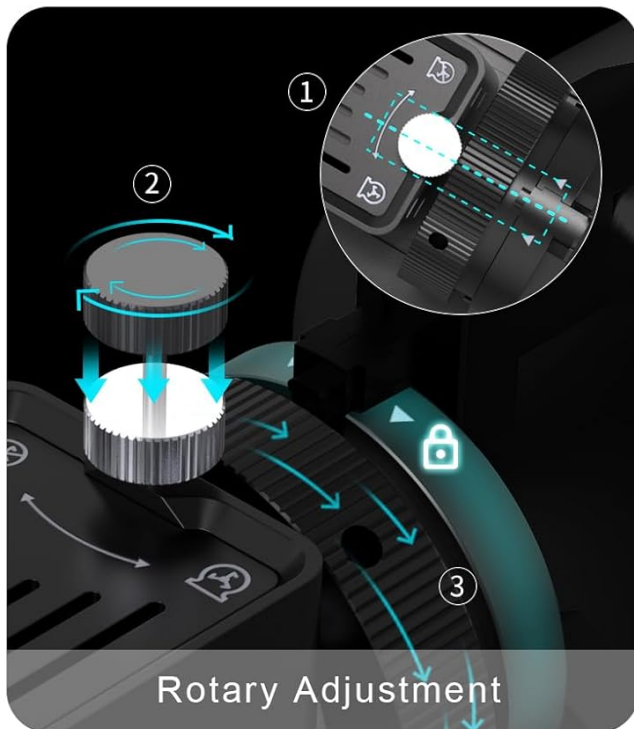


Image: Close-up views highlighting the rotary adjustment mechanism, anti-slip soft-pads for secure object handling, and the hex stud in use.

5. SETUP INSTRUCTIONS

The Rotary Kit is designed for straightforward setup. No complex assembly is required as the external clamp type is pre-installed by default.

5.1 General Setup Steps

1. **Remove the Bottom Tray:** If your laser engraver has a bottom tray, remove it to create space for the rotary roller and risers.
2. **Install Risers:** Based on the size of the item you intend to engrave, install the appropriate risers (56mm or 28mm) to elevate your laser engraver. These risers are connected via M6 screws and are suitable for Creality Falcon A1 series and other laser engraving machines with M6 standard feet.
3. **Connect the Cables:** Connect the provided connection cable from the rotary roller to the Y-axis motor port of your Creality laser engraver.
4. **Adjust the Jaws:** Place your object into the rotary roller and adjust the jaws to tighten it securely. Ensure the

object is centered and stable.

Easy to Install



Step 1: remove the bottom tray.



Step 2: Install risers based on your item's size.



Step 3: Connect the cables with the A1.



Step 4: Adjust the jaws to tighten tightly.

Image: Visual guide for setting up the rotary roller, including tray removal, riser installation, cable connection, and jaw adjustment.

5.2 Riser Information

The package includes 4 pieces of 56mm risers and 8 pieces of 28mm risers. These allow for different height adjustments to accommodate various engraving targets, increasing the working space under the laser engraver for larger items.

Work with Falcon A1

3 different raisers are recommended for installation to meet most daily engraving needs.



Image: Illustration of the included risers (56mm and 28mm) and their M6 screw compatibility, specifically for the Falcon A1 series.

6. OPERATING INSTRUCTIONS

Once the Rotary Roller Pro is physically connected to your laser engraver:

1. **Power On:** Start your laser engraving machine.
2. **Software Connection:** Connect your laser engraver to your computer and open the operating software (e.g., LightBurn, LaserGRBL, Creadity Laser software).
3. **Software Configuration:** It is crucial to adjust the relevant settings and parameters within your laser engraving software to recognize and properly control the rotary axis (Y-axis). Refer to your software's documentation for specific rotary setup procedures. This typically involves enabling the rotary axis, setting the correct steps per rotation, and defining the object's diameter.
4. **Test Engraving:** Before performing a final engraving, conduct a low-power test run on a similar scrap material to verify settings and object stability.

7. MAINTENANCE

To ensure the longevity and optimal performance of your Creality Laser Rotary Roller Pro:

- **Cleaning:** Regularly clean the rotary roller, especially the jaws and moving parts, to remove dust, debris, and engraving residue. Use a soft, dry cloth. Avoid abrasive cleaners or solvents.
- **Lubrication:** Periodically check for smooth movement of the adjustable jaws and rotary mechanism. Apply a small amount of light machine oil if any stiffness is observed, ensuring not to over-lubricate.
- **Storage:** When not in use, store the rotary roller in a clean, dry environment away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your Creality Laser Rotary Roller Pro, consider the following:

- **Rotary Not Moving/Responding:**

- Ensure the connection cable is securely plugged into both the rotary roller and the Y-axis motor port of the engraver.
- Verify that the rotary axis is enabled and correctly configured in your laser engraving software. Check steps per rotation and other relevant parameters.
- Confirm that the laser engraver itself is powered on and communicating with the computer.

- **Engraving Distortion/Slippage:**

- Ensure the object is securely clamped and centered in the rotary jaws.
- Check that the anti-slip soft-pads are clean and providing adequate grip.
- Reduce engraving speed or acceleration settings in your software if the object is slipping or losing position during rotation.
- Verify that the object's diameter is correctly entered in the software.

- **Incompatibility with A1 Series:**

- Remember that A1 series machines require their specific connection cable, which is not included with the Rotary Roller Pro. Ensure you are using the correct cable.

For further assistance, please refer to the support resources provided by Creality or consult your laser engraver's specific documentation.

9. SPECIFICATIONS

Feature	Detail
Product Dimensions (Rotary Kit Pro)	360*122*100mm (approx. 14.17 x 4.8 x 3.94 inches)
Product Weight (Rotary Kit Pro)	1.95kg (approx. 4.3 lbs)
Safety Goggles Dimensions	154*55*55mm
Safety Goggles Weight	0.5kg
56mm Risers Weight (4 pcs)	0.098kg

Feature	Detail
28mm Risers Weight (8 pcs)	0.111kg
Cylindrical Object Diameter (Outside Clamp)	1-110mm
Cylindrical Object Diameter (Inner Prop)	25-75mm
Spherical Object Diameter (Hex Stud)	10-130mm
Ring/Bracelet Diameter (Hex Stud)	15-100mm
Compatibility	Creality series laser engravers (Falcon/Falcon2/Falcon2 Pro/Falcon2 Pro S, Falcon A1 series with specific cable)

Comes with Professional Goggles





Protect your eyes from laser harm and keep eyes comfortable.
Laser safety goggles for 180nm-540nm wavelength.



Image: Summary of product parameters including dimensions and weights for the rotary kit and accessories.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Creality website or contact Creality customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

<div><div>CREALITY</div><div>CR-Laser Falcon User Manual CR-Laser Falcon 快速使用指南</div><div>020</div><div></div><div>深圳市创想三维科技股份有限公司</div></div>	<p>Creality CR-Laser Falcon User Manual</p> <p>User manual for the Creality CR-Laser Falcon, a laser engraving machine. This guide provides instructions on setup, operation, safety precautions, and troubleshooting.</p>
<div><div>CV-40 说明书</div><div>激光功率：220W/40W 切割速度：12000mm/min，切割深度8mm 雕刻速度：12000mm/min，雕刻深度5mm 雕刻工艺：矢量雕刻 雕刻工艺：矢量雕刻</div></div>	<p>Creality Falcon A1 Laser Engraver User Manual</p> <p>Comprehensive user manual for the Creality Falcon A1 laser engraver, covering installation, operation, safety, specifications, maintenance, and troubleshooting. Includes details on Falcon Design Space software and community resources.</p>
<div><div>CREALITY</div><div>CR-Laser Falcon User Manual CR-Laser Falcon 快速使用指南</div><div>020</div><div></div><div>深圳市创想三维科技股份有限公司</div></div>	<p>Creality CR-Laser Falcon User Manual</p> <p>User manual for the Creality CR-Laser Falcon, providing instructions for setup, operation, and maintenance of the laser engraving machine.</p>
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<div><div>CREALITY</div><div>Creality Falcon Pro 10W User Manual</div><div>020</div><div></div><div>深圳市创想三维科技股份有限公司</div></div>	<p>Creality Falcon Pro 10W User Manual</p> <p>User manual for the Creality Falcon Pro 10W laser engraver, covering setup, operation, safety, and troubleshooting.</p>