

ATOMSTACK R6 Rotary Roller AH243101

ATOMSTACK R6 Laser Rotary Roller Instruction Manual

Model: R6 Rotary Roller (AH243101)

1. INTRODUCTION

The ATOMSTACK R6 Laser Rotary Roller is an accessory designed to enhance the capabilities of compatible laser engravers, allowing for precise engraving on cylindrical and irregular objects. This manual provides essential information for the proper setup, operation, and maintenance of your R6 Rotary Roller.



Image 1.1: The ATOMSTACK R6 Laser Rotary Roller, shown with included raised footpads for height adjustment.

2. PRODUCT FEATURES

- **Versatile Engraving:** Designed for engraving a variety of irregular cylindrical objects, offering an adjustment angle of up to 180° and 360° rotation. This includes items such as balls, rings, spherical objects, and cups with handles. The high-quality rotary chuck ensures smooth and stable rotation for improved engraving accuracy.
- **Simplified Setup:** The rotary roller requires no assembly. Roller distance can be adjusted without tools. For integration with an engraver, only the Y-axis terminal needs to be connected.
- **Software Configuration:** Requires modification of configuration parameters within laser software (e.g., LaserGRBL, LightBurn) before use.

- **Included Accessories:** The package includes four 100mm raised footpads, compatible with ATOMSTACK P1 and K2 Engraver Machines, to elevate the laser engraving machine for proper fit with the rotary roller.
- **Broad Compatibility:** Supports LaserGRBL, LightBurn, and is suitable for approximately 95% of desktop laser engravers. Compatible brands include ATOMSTACK, Creality, XTOOL, ORTUR, Sculpfun, Genmitsu, LONGER, Twotrees, and ATEZR.

3. SETUP INSTRUCTIONS

3.1 Unpacking and Inspection

Carefully remove all components from the packaging. Verify that all parts listed in the product specifications are present and undamaged. If any components are missing or damaged, contact customer support immediately.

3.2 Connecting to Your Engraver

The R6 Rotary Roller connects to your laser engraver via the Y-axis terminal. Disconnect the existing Y-axis motor cable from your engraver and connect the R6 Rotary Roller's cable to this terminal. This allows the engraver's software to control the rotary motion.



Image 3.1: Illustration of dual wiring modes, demonstrating how the rotary roller connects to various ATOMSTACK machines and other compatible engravers.

3.3 Adjusting Roller Spacing

The spacing between the rotating axes is adjustable to accommodate objects of different sizes. This adjustment can be performed without the need for additional tools. Simply slide the movable roller assembly to the desired position to securely hold your object.

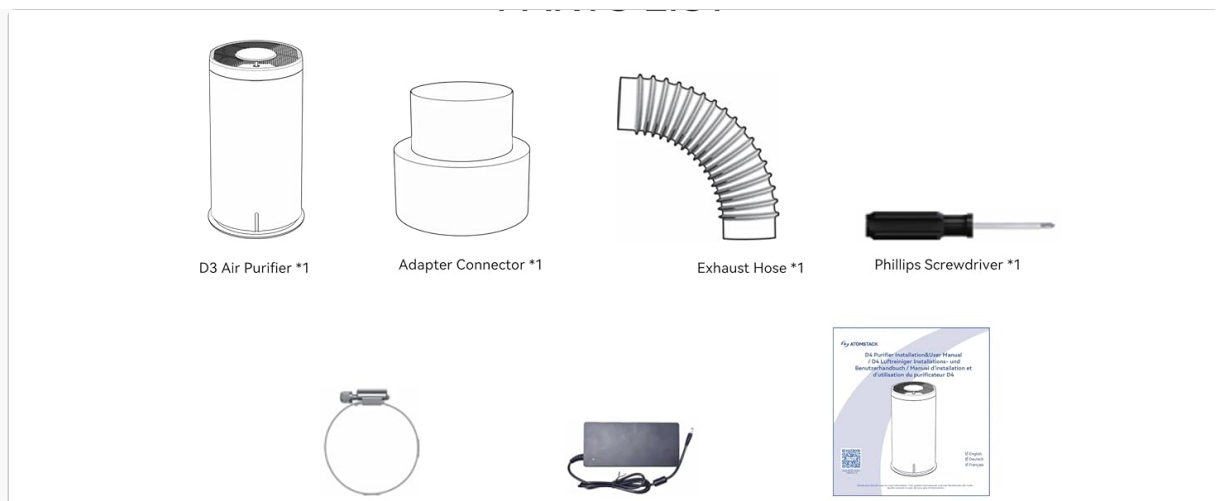


Image 3.2: The adjustable spacing mechanism of the rotary roller, allowing it to securely hold objects of varying diameters.

3.4 Using Raised Footpads

For certain laser engraver models, such as the ATOMSTACK P1 and K2, the engraver may need to be elevated to provide sufficient clearance for the R6 Rotary Roller and the object being engraved. Use the four included 100mm raised footpads by attaching them to the base of your engraver.

3.5 Software Configuration

Before operating the rotary roller, it is crucial to modify the configuration parameters within your laser engraving software (e.g., LaserGRBL, LightBurn). Refer to your software's documentation for specific instructions on enabling and configuring rotary axis engraving. The USB connection may automatically prompt the software to enter roller processing mode.



Image 3.3: A visual representation of the software interface, indicating the selection of 'Roller' processing mode for cylindrical objects.

4. OPERATING INSTRUCTIONS

4.1 Placing the Object

Carefully place the cylindrical or irregular object onto the R6 Rotary Roller. Ensure the object is centered and securely held by the rollers. Adjust the roller spacing as needed to prevent slippage during engraving.

4.2 Engraving Regular Cylinders

For objects like cans, tumblers, or pencils, ensure they are placed horizontally and stable on the rollers. The software will translate linear engraving paths into rotary motion.

PRODUCT SPECIFICATIONS

- Compatible Models: FB2, FB2 Plus, B3, A6, A12, A24, K2, P1, L1, K2 LITE, etc.
- Product Dimensions: 290*290*590 mm
- Product Weight: 3.6 kg
- Number of Filter Layers: 5 layers
- Rated Voltage: 12V
- Rated Current: 3A
- Rated Power: 36W
- Rated Speed: 3500 rpm $\pm 10\%$



Image 4.1: Various regular cylindrical items, such as tumblers and cans, positioned on the rotary roller for engraving.

4.3 Engraving Irregular Cylindrical Objects

The R6 Rotary Roller is capable of handling irregular shapes such as wine bottles, cups with handles, or spherical items. Position these objects carefully, utilizing the 180° adjustment angle and 360° rotation capability to achieve the desired engraving area.



Image 4.2: Examples of irregular cylindrical objects, including bottles and various cups, set up for engraving using the rotary roller.

4.4 Engraving Long Items

The exclusive extended support design allows for the processing of extra-long items, up to 1 meter in length, provided their weight is within the bearable range of the roller.



Image 4.3: The rotary roller demonstrating its capability to engrave extended items such as baseball bats and rolling pins.

4.5 Initiating Engraving

Once the object is securely placed and the software is configured, follow your laser engraver's standard operating procedures to start the engraving process. Monitor the engraving to ensure proper rotation and laser alignment.

5. MAINTENANCE

To ensure the longevity and optimal performance of your ATOMSTACK R6 Laser Rotary Roller, follow these general maintenance guidelines:

- **Cleaning:** Regularly clean the rollers and the base of the unit to remove dust, debris, and engraving residue. Use a soft, dry cloth. Avoid abrasive cleaners or solvents that could damage the materials.
- **Lubrication:** Periodically check the moving parts for smooth operation. If any friction is observed, apply a small amount of appropriate lubricant to the bearings or sliding mechanisms.
- **Storage:** When not in use, store the rotary roller in a clean, dry environment, away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

If you encounter issues with your R6 Rotary Roller, consider the following:

- **Object Slippage:** Ensure the object is firmly seated and the roller spacing is correctly adjusted for its diameter. The object's surface should be clean and free of oils or debris that could reduce grip.
- **No Rotation:** Verify that the rotary roller is correctly connected to the engraver's Y-axis terminal. Check software settings to confirm that rotary engraving mode is enabled and configured properly. Ensure all cables are securely connected.
- **Inaccurate Engraving:** Confirm that the object is stable and not moving during engraving. Check software settings for correct object diameter and rotation parameters. Ensure the laser engraver itself is calibrated and functioning correctly.
- **Engraver Clearance Issues:** If the engraver head collides with the object or the rotary roller, ensure the raised footpads are installed on your engraver if necessary.

For persistent issues, refer to the support section below.


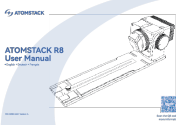

7. SPECIFICATIONS


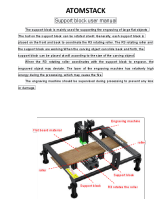

Feature	Detail
Manufacturer	ATOMSTACK
Model Name	R6 Rotary Roller
Model Number	AH243101
Item Weight	3.03 pounds (1.37 kg)
Product Dimensions	11.8 x 9.84 x 5.12 inches (30 x 25 x 13 cm)
Color	Silver
Material	Aluminum Alloy
Power Source	AC/DC
Included Components	Rotary Roller Set, 4x Raised Footpads

8. WARRANTY AND SUPPORT

ATOMSTACK provides professional customer service and technical support for the R6 Laser Rotary Roller. The product includes a 1-year warranty and lifetime technical support. A dedicated support team is available 24/7 to address any questions or concerns you may have regarding the product. For assistance, please contact ATOMSTACK customer service through their official channels.

Related Documents - R6 Rotary Roller AH243101

	<p>ATOMSTACK MAKER R1 Rotary Chuck User Manual and Installation Guide</p> <p>This comprehensive guide details the installation, connection, and operation of the ATOMSTACK MAKER R1 Rotary Chuck for laser engraving machines. It covers packing contents, setup procedures, software configuration with LightBurn, and essential notes for engraving cylindrical, spherical, and other shaped objects.</p>
	<p>ATOMSTACK R8 Rotary Chuck User Manual - Laser Engraving Guide</p> <p>Comprehensive user manual for the ATOMSTACK R8 rotary chuck attachment. Covers setup, assembly, usage, connection, software settings, and safety precautions for laser engraving various object shapes.</p>
	<p>ATOMSTACK Support Block User Manual for R3 Rotary Roller</p> <p>User manual for the ATOMSTACK Support Block, an accessory for the R3 Rotary Roller laser engraver. Learn about its function, usage, and safety precautions.</p>

	<p>ATOMSTACK R1 V2 Rotary Roller Installation and User Manual</p> <p>Comprehensive guide for the ATOMSTACK R1 V2 Rotary Roller, detailing installation, setup, usage with LightBurn software, and notes for laser engraving cylindrical and spherical objects.</p>
	<p>ATOMSTACK Support Block User Manual for Laser Engraving</p> <p>User manual for the ATOMSTACK Support Block, detailing its use for stabilizing large flat objects during laser engraving, including safety guidelines and customer support information.</p>
	<p>ATOMSTACK A5 Pro Laser Engraving Machine Manual</p> <p>Comprehensive user manual for the ATOMSTACK A5 Pro laser engraving machine, covering safety, software installation (LaserGRBL and LightBurn), operation, and troubleshooting.</p>