

ATOMSTACK R8+H5

ATOMSTACK R8 Rotary Chuck Instruction Manual

Model: R8+H5 | Brand: ATOMSTACK

1. INTRODUCTION

The ATOMSTACK R8 Rotary Chuck is an advanced accessory designed to expand the capabilities of your laser engraving machine. It specializes in engraving a wide variety of irregular cylindrical objects, providing precision and versatility for your creative projects. This device allows for engraving on items such as balls, rings, spherical objects, and cups with handles, which are typically challenging for standard flatbed engravers.

Key features include a powerful high-torque motor for high-speed and accurate engraving, an adjustment angle of up to 180° and 360° rotation, and a durable high-hardness brass alloy claw for stable operation. The R8 Rotary Chuck is engineered for ease of use, requiring no complex installation, and boasts wide compatibility with popular laser engraving software and various machine brands.

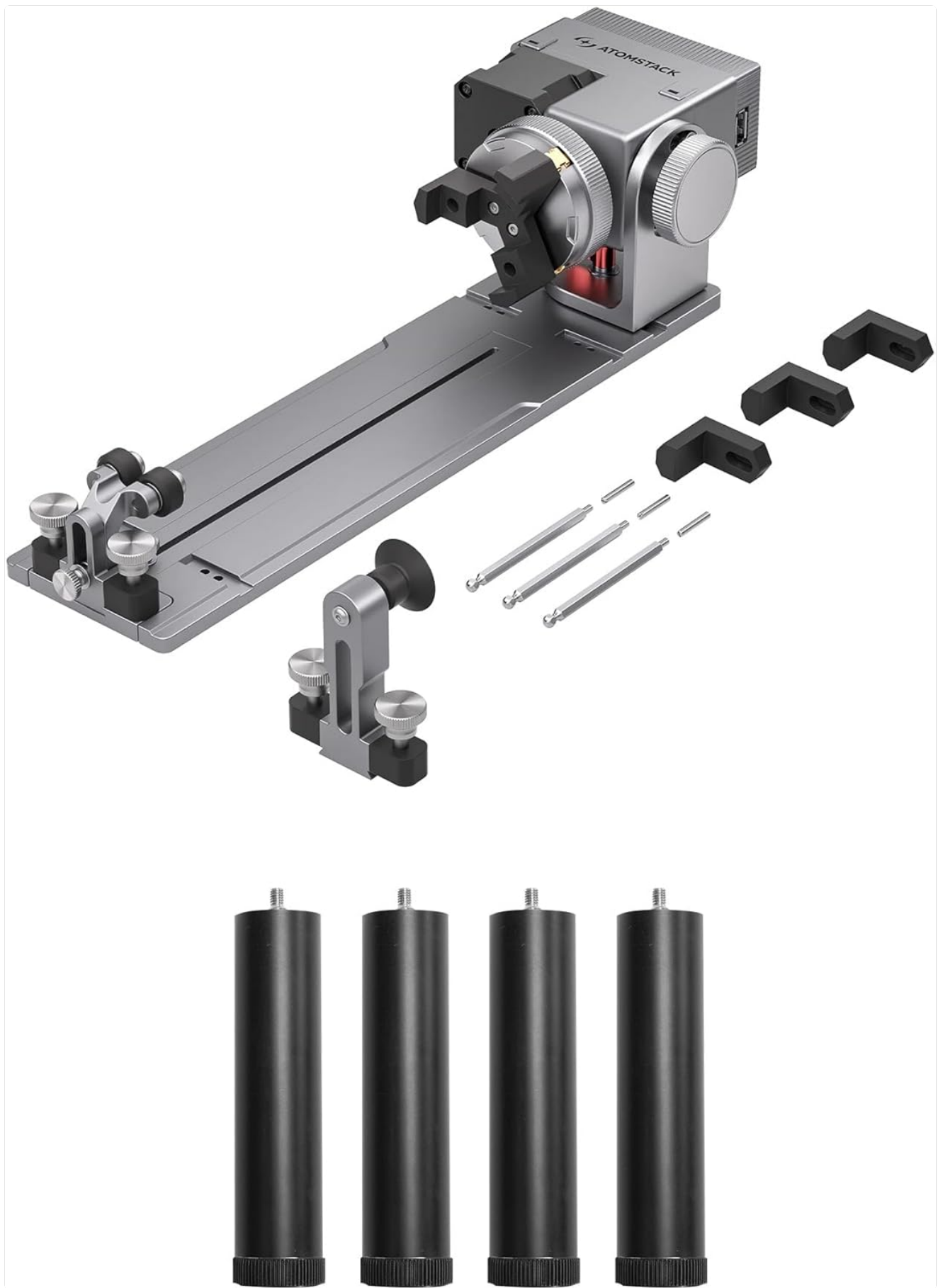


Figure 1.1: ATOMSTACK R8 Rotary Chuck with included accessories, including the main unit, various chuck jaws, and height-adjustable feet.

2. SETUP AND INSTALLATION

The ATOMSTACK R8 Rotary Chuck is designed for immediate use with minimal setup. It features a high-strength aluminum alloy structure that requires no complex assembly out of the box.

2.1 Initial Placement

Place the rotary chuck on a stable, level surface within your laser engraving machine's working area. Ensure there is sufficient clearance for the object to be engraved and for the laser module to move freely.

2.2 Connecting to the Engraver

To integrate the rotary chuck with your engraving machine, simply replace the Y-axis terminal of your engraver with the rotary chuck's connection. This creates a seamless connection, allowing the engraver's software to control the rotary motion.



Figure 2.1: USB connection setup for the R8 Rotary Chuck, enabling automatic roller processing mode in the engraving software.

2.3 Adjusting Height with Foot Pads

The package includes four 100mm high foot pads. These are used to raise your laser engraving machine, ensuring proper alignment and clearance when working with the rotary chuck, especially for larger or taller objects. Position these pads securely under the corners of your engraving machine.

2.4 Software Configuration

Before operating, it is crucial to change the configuration parameters within your laser engraving software (e.g., LaserGRBL, LightBurn) to recognize and properly control the rotary chuck. Refer to your software's specific documentation for detailed instructions on rotary axis setup.

3. OPERATING INSTRUCTIONS

The ATOMSTACK R8 Rotary Chuck is designed for precise engraving on various cylindrical and irregular objects. Follow these guidelines for optimal performance.

3.1 Loading Materials

The chuck's jaws are easily adjustable without tools. Securely clamp your cylindrical object (e.g., tumblers, pens, bottles) into the chuck. Ensure the object is centered and firmly held to prevent slippage during engraving.

GET RID OF THE PLANE LIMITATION USE R8 TO ENGRAVE ON THE SURFACE OF **VARIOUS MATERIALS**

MATERIAL 1: REGULAR CYLINDER



Figure 3.1: Example of engraving on regular cylindrical objects such as tumblers and cans.

3.2 Engraving Irregular Objects

For irregular cylindrical objects like wine bottles or uniquely shaped containers, the R8 Rotary Chuck offers an adjustment angle of up to 180° and a 360° rotation capability. This flexibility allows you to position the object optimally for engraving, ensuring the laser can reach all necessary surfaces.

MATERIAL 2:

SOME IRREGULAR CYLINDRICAL OBJECTS



Figure 3.2: Demonstration of engraving on irregular cylindrical objects like bottles and glasses.

3.3 Using Special-Shaped Material Fixtures

The R8 Rotary Chuck is equipped with three sets of fixtures designed to adapt to multiple special-shaped materials, including objects with handles or spherical items. Select the appropriate fixture set for your material to ensure secure holding and accurate engraving.

EQUIPPED WITH 3 SETS OF FIXTURES TO ADAPT TO MULTIPLE **SPECIAL-SHAPED** MATERIALS



Figure 3.3: The R8 Rotary Chuck demonstrating its ability to hold and engrave objects with handles and spherical items using specialized fixtures.

3.4 Angle Adjustment

The device allows for 30° elevation and 180° horizontal rotation, providing multiple angles to suit different materials and engraving requirements. Adjust these angles manually to achieve the desired laser path on complex surfaces.

30° ELEVATION + 180° HORIZONTAL ROTATION

MULTIPLE ANGLES TO SUIT DIFFERENT MATERIALS

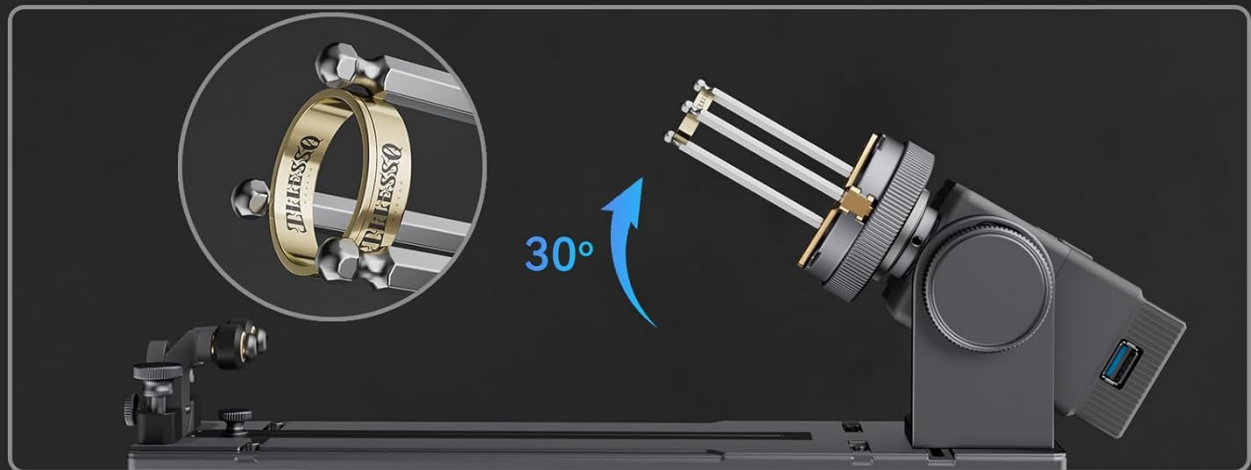
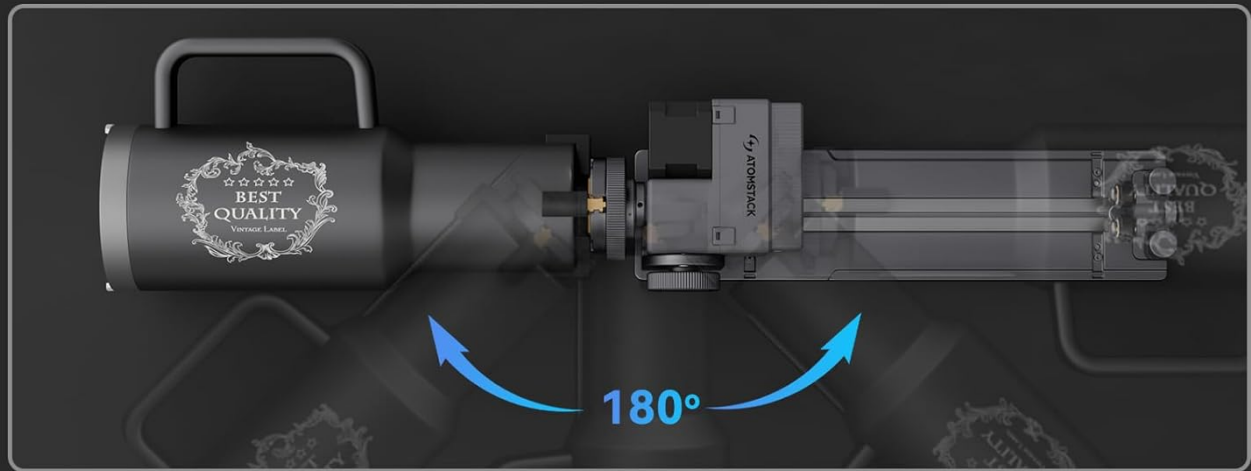


Figure 3.4: Illustrates the 30° elevation and 180° horizontal rotation capabilities of the R8 Rotary Chuck for versatile engraving.

3.5 Compatibility

The R8 Rotary Chuck is highly adaptable and compatible with 95% of desktop laser engraving machines. It works seamlessly with popular software such as LaserGRBL and LightBurn, and is compatible with various brands including ATOMSTACK, Creality, XTOOL, ORTUR, Sculfun, Genmitsu, LONGER, Twotrees, and ATEZR.

WIDE COMPATIBILITY

SUPPORTS **ALL** ATOMSTACK MACHINES
& **95%** OF OTHER BRANDS' LASER ENGRAVERS.

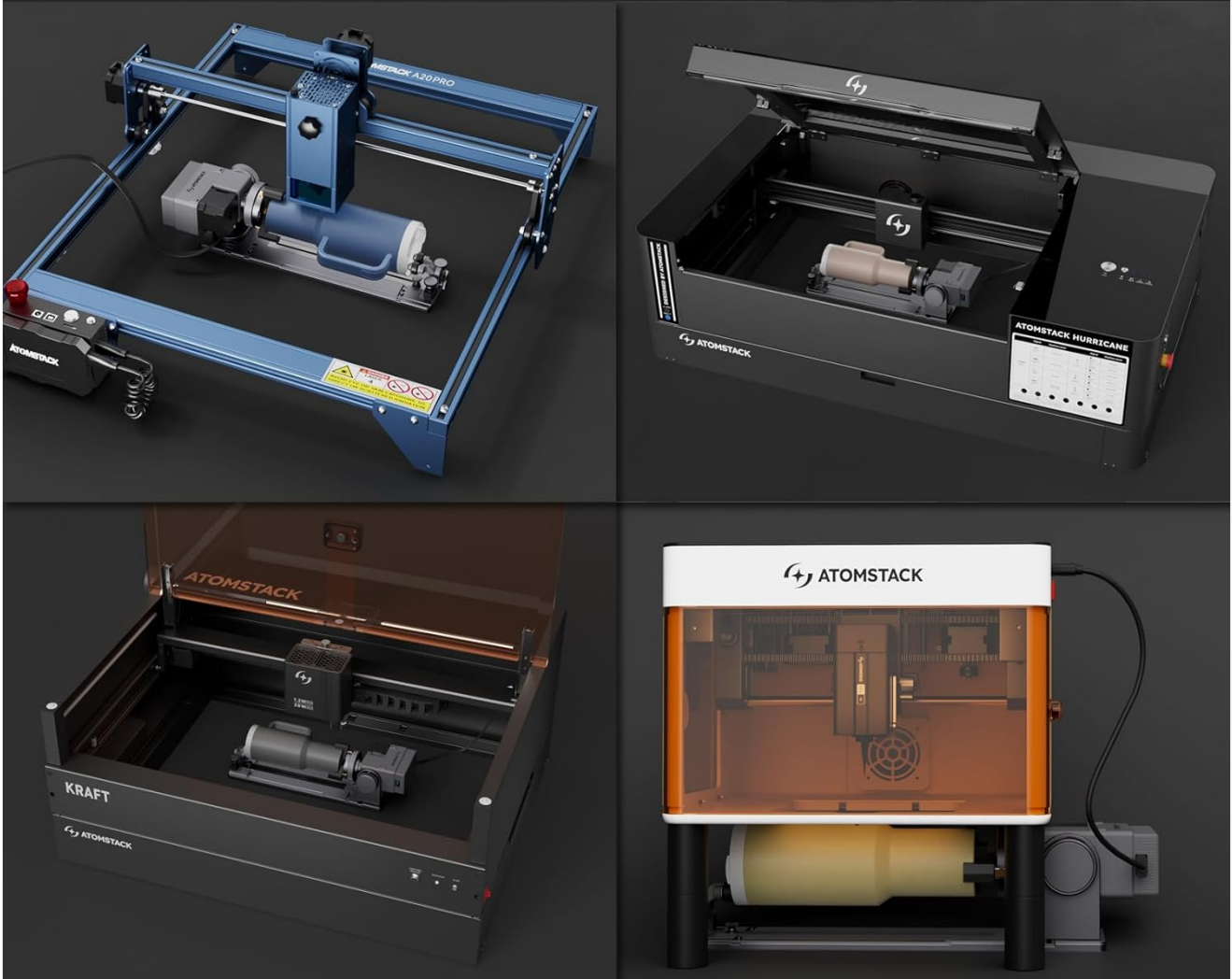


Figure 3.5: The R8 Rotary Chuck shown integrated with different models of laser engraving machines, highlighting its broad compatibility.

4. MAINTENANCE

To ensure the longevity and optimal performance of your ATOMSTACK R8 Rotary Chuck, regular maintenance is recommended.

- **Cleaning:** Periodically clean the chuck jaws and the main body of the rotary chuck to remove any dust, debris, or material residue from engraving. Use a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the finish or internal components.
- **Inspection:** Regularly inspect the moving parts, such as the chuck mechanism and rotation components, for any signs of wear or damage. Ensure all screws and fasteners are secure.
- **Lubrication:** If any moving parts feel stiff or noisy, a small amount of light machine oil can be applied to the appropriate points, taking care not to over-lubricate or get oil on electrical components.

- **Storage:** When not in use, store the rotary chuck in a clean, dry environment, away from direct sunlight and extreme temperatures.

5. TROUBLESHOOTING

This section provides general guidance for common issues. For more complex problems, please refer to the support section.

- **Engraving is not centered or distorted:**
 - Ensure the object is securely clamped and centered in the chuck.
 - Verify that the software parameters for rotary engraving are correctly set (e.g., object diameter, steps per rotation).
 - Check for any slippage of the object during engraving.
- **Rotary chuck not responding:**
 - Confirm the USB connection to the engraver is secure.
 - Ensure the Y-axis terminal replacement is correctly done.
 - Check if the laser engraving software recognizes the rotary axis.
- **Laser module hitting the object:**
 - Ensure the 100mm foot pads are correctly installed to raise the laser engraver.
 - Adjust the height of the laser module if possible, or use shorter objects.

If you encounter any problems that cannot be resolved using the above steps, please contact ATOMSTACK customer service for assistance.

6. PRODUCT SPECIFICATIONS

Feature	Detail
Brand	ATOMSTACK
Model Number	R8+H5
Size	R8 Rotary Chuck
Material	Aluminum Alloy
Recommended Uses	Engraving
Color	Silver
Item Weight	2.04 Kilograms (4.49 pounds)
Product Dimensions (L x W x H)	11.8 x 9.84 x 5.12 inches
Special Features	Keyless Chuck, Variable Speed

Feature	Detail
Included Components	Rotary Roller Set (R8 Rotary Chuck and high base)
Accuracy	0.1mm
Max Speed	6000mm/min

7. WARRANTY AND SUPPORT

ATOMSTACK provides comprehensive support for its products.

7.1 Quality Guarantee

The ATOMSTACK R8 Rotary Chuck comes with a one-year free maintenance period, including spare parts and technical support. This warranty covers defects in materials and workmanship under normal use.


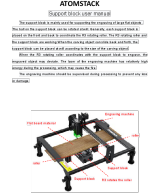
7.2 Customer Service


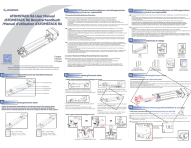
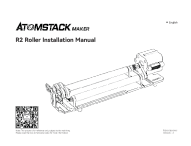

If you encounter any problems during the use of your ATOMSTACK R8 Rotary Chuck, or require technical assistance, please contact our seller's customer service. Our professional technical and support teams are available to resolve any issues as quickly as possible.

For further information or to access additional resources, please visit the official ATOMSTACK website or your purchase platform's support page.

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Related Documents - R8+H5

	<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 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 Air Assist Kit User Manual</p> <p>User manual for the ATOMSTACK Air Assist Kit, providing installation, usage, and precautions for ATOMSTACK laser engraving machines.</p>
	<p>ATOMSTACK R6 User Manual: Setup, Usage, and Safety</p> <p>Comprehensive user manual for the ATOMSTACK R6 rotary roller, providing setup instructions, usage guidelines, and important safety precautions in English, German, and French.</p>
	<p>ATOMSTACK MAKER R2 Roller Installation Manual</p> <p>This manual provides detailed instructions for the installation of the ATOMSTACK MAKER R2 Roller, including a packing list, step-by-step installation guide, wiring instructions, and usage guidance with LightBurn software.</p>
	<p>8BitDo Retro R8 Mouse Instruction Manual</p> <p>Official instruction manual for the 8BitDo Retro R8 Mouse, detailing setup, connection methods (2.4G, wired, Bluetooth), DPI settings, battery information, and support resources.</p>