

Rotary Pro 2

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Tyvok
User Manual

Rotary Pro 2



1.Packing List

		
Base Plate		
		
Roller Stand*2		
		
Three-jaw Chuck		
		
Motor Component		
		
Support Module		
		
Angle Adjustment Handle*2		
		
Step Jaw*3		
		
Rotating Axis for the Stand*2		
		
Silicone Cap for M3 Stud*3		
		
Silicone Cap for M4 Stud*3		



M3 Stud*3



M4 Stud*3



M3 Screw for the Base Plate*4



M3 Screw for the Jaw*6



Washer*2



M3 Half-thread Screw
for the Stud*3



Mini Spirit Level



Connection Cable



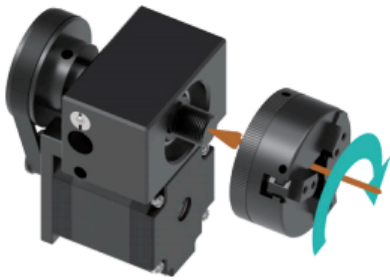
1.5m Soft Ruler



Hex Key (2mm, 3mm)

2. Installation Guide for Jaw

2.1 Assemble the three-Jaw chuck with the motor component.



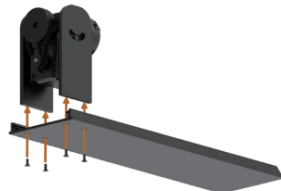
2.2 Insert the rotating axis into the holes on both sides of the motor component.



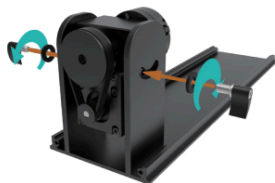
2.3 Install the roller stand.



2.4 Mounting the stand onto the base plate.



2.5 Install the angle adjustment handle.

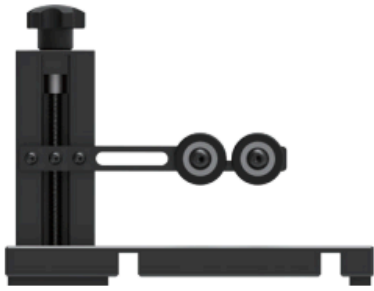


2.6 Installation completed.



3. Module Using Method and Installation

3.1 Module Combination and Specifications

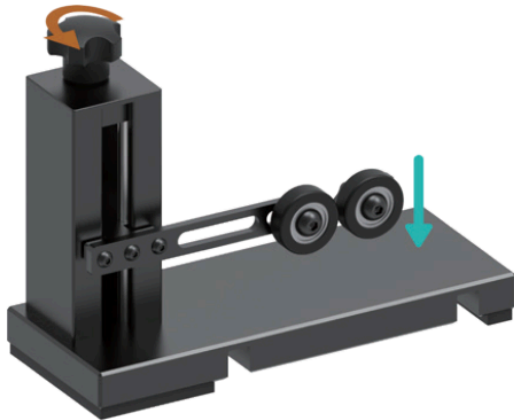
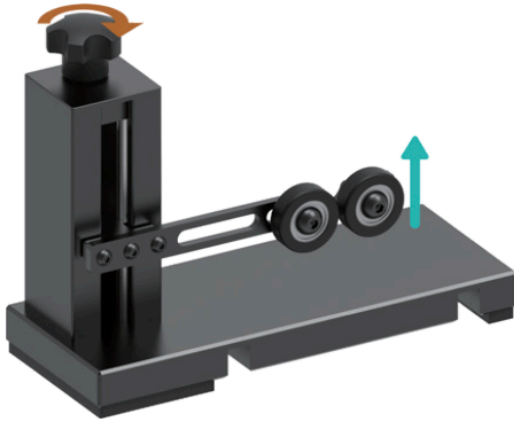
Components		Suitable for
		Irregular or extra long objects
		Non-rounded objects with a diameter of 1mm to 106mm
	 (M3 Stud)	Objects with a round hole of less than 15mm diameter
	 (M3 Stud)	Objects with a round hole of 15mm-60mm diameter
	 	Cylindrical bottom objects with an outer diameter of 40mm-103mm/ Objects with an inner diameter of 57mm-117mm



Note: You can install a silicone cap on the stud to prevent damage to the surface of engraved objects.

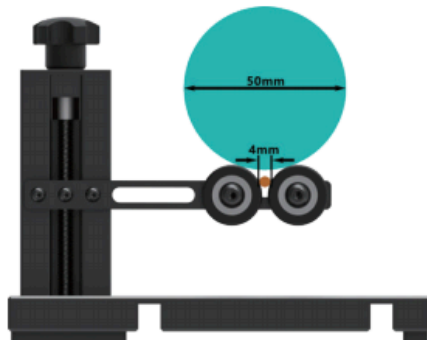
3.2 Support Module

3.2.1 Using Method

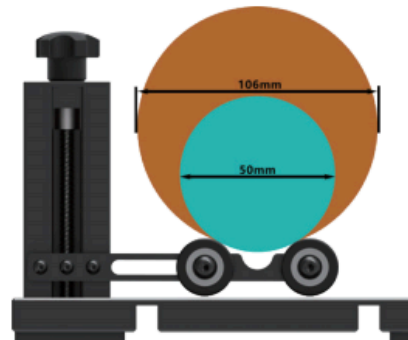


3.2.2 Position Adjustment

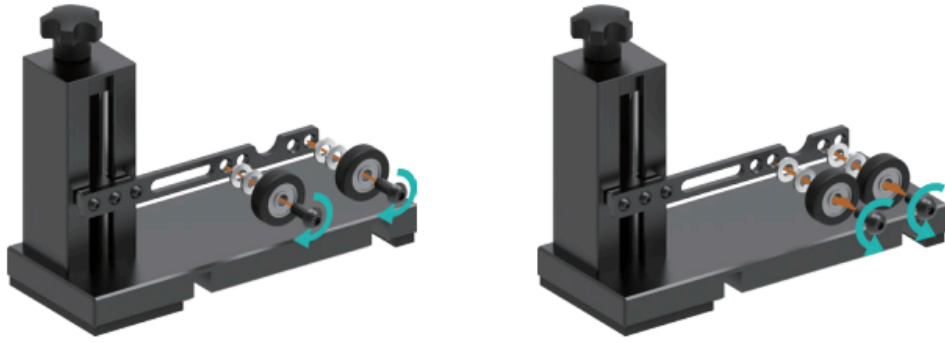
Position 1: Suitable for objects with an outer diameter of 4mm-50mm.



Position 2: Suitable for objects with an outer diameter of 50mm-106mm.



3.2.3 Position Adjustment Method

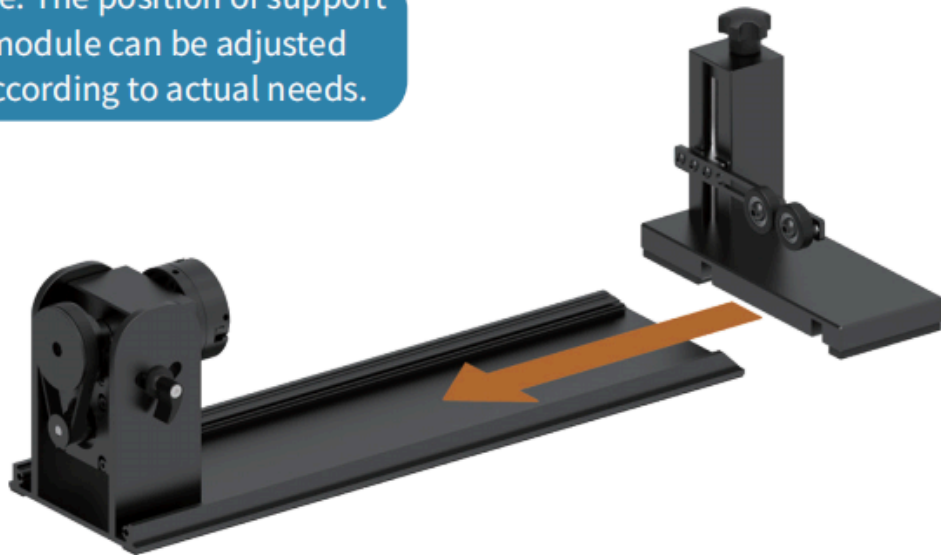


3.2.4 Support Module is Used in Conjunction with Rotary Pro



Note: The position of support module can be adjusted according to actual needs.

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Suitable for engraving longer cylinders

3.3 Step Jaw

3.3.1 Component



3.3.2 Installation



3.3.3 Applicable Objects (Reference)



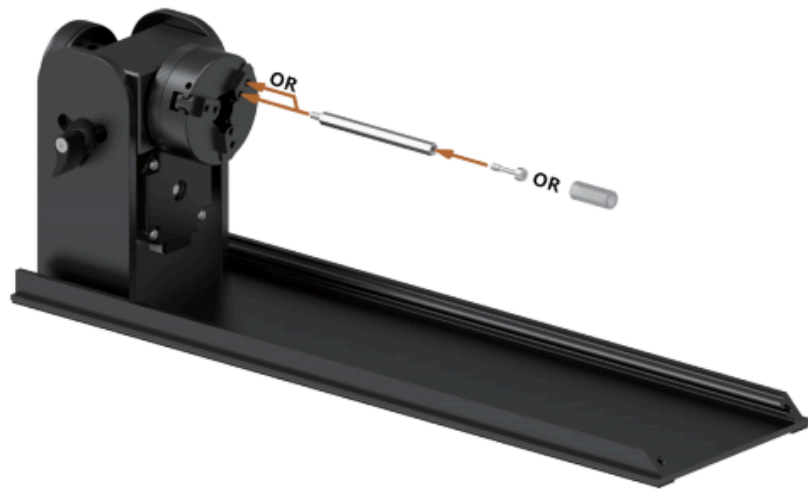
Applicable to objects with non-rounded edges

3.4 M3 Stud

3.4.1 Component



3.4.2 Installation



3.4.3 Applicable Objects (Reference)



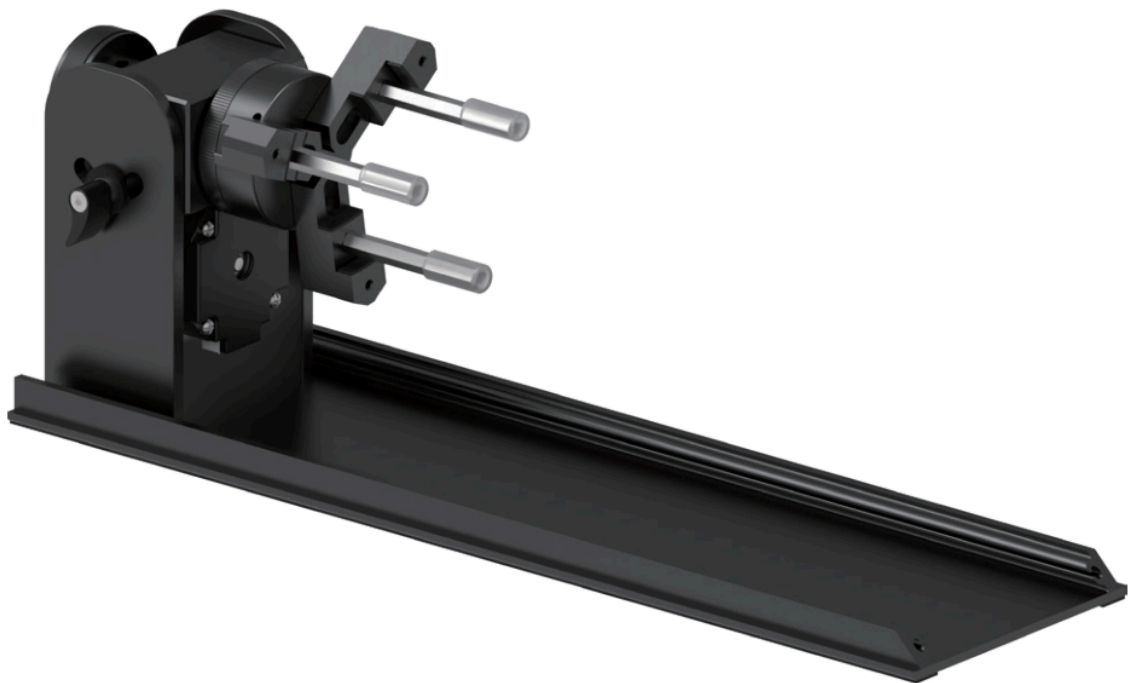
Rings (half-thread screws are required) or other objects with round holes within the clamping range.

3.5 Step Jaw + M4 Stud

3.5.1 Component



3.5.2 Installation



3.5.3 Applicable Objects (Reference)

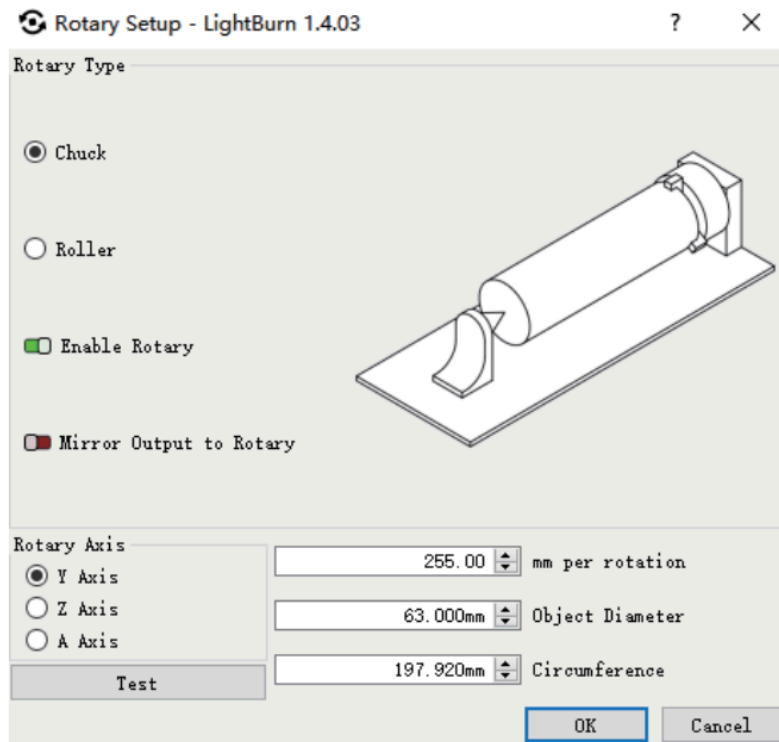


Cylindrical objects within the clamping range/objects with large inner holes/objects with rounded edges.

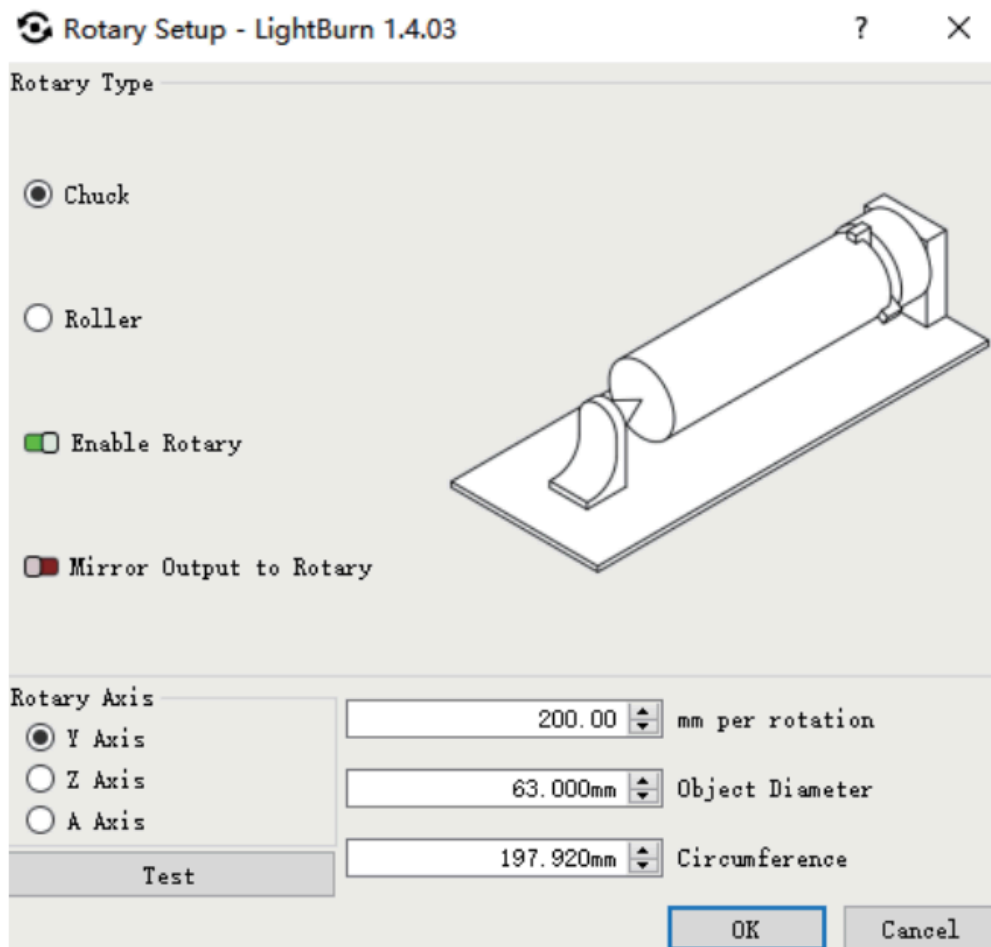
4. How to test the rotation parameters of Rotary Pro

4.1 Choose a long and rigid cylindrical object and measure its diameter.

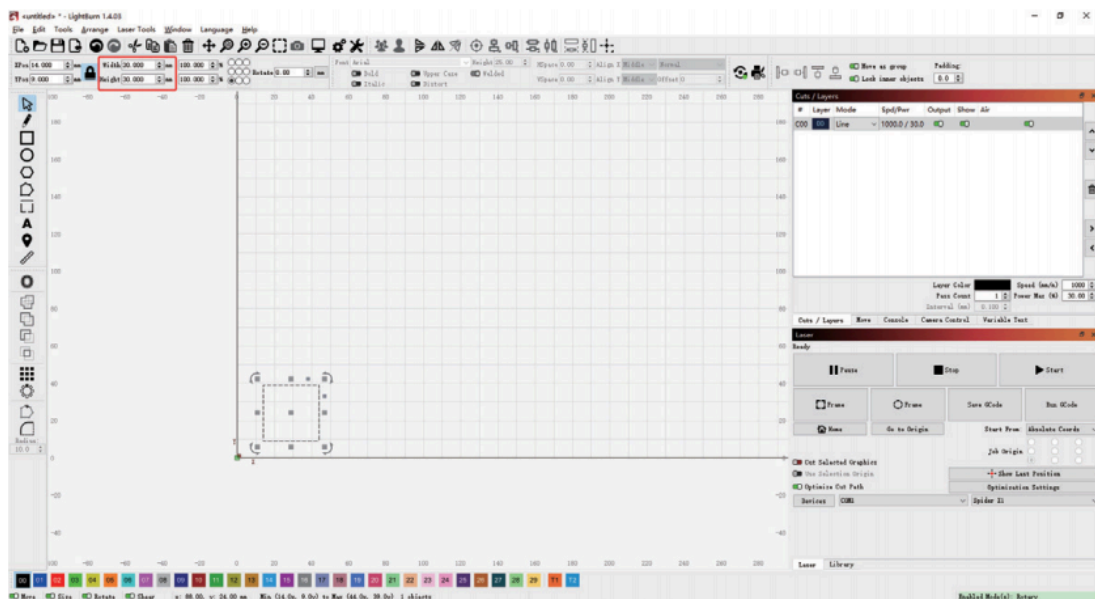
4.2 Clamp the object securely onto the chuck in an appropriate manner and use a level to ensure that its top surface is horizontal. Connect it to the laser engraving machine.



4.4 In the "mm per rotation" field, enter an arbitrary integer value such as 100, 200, etc. and click OK.



4.5 Draw a 30*30mm square on the canvas for engraving test. The specific parameters need to be determined according to the laser and material used by the user , but they need to be able to leave clear enough engraving marks on the surface to be engraved.



4.6 Before engraving, ensure that the baseplate of the chuck is parallel to the X-axis of the laser head. After engraving, measure whether the length of the square's sides, in the direction of chuck rotation, is 30mm (Note: it is not the length in the direction of laser head motion).

4.7 If it exceeds 30mm, decrease the parameter value of "mm per rotation" until the measured side length is 30mm.

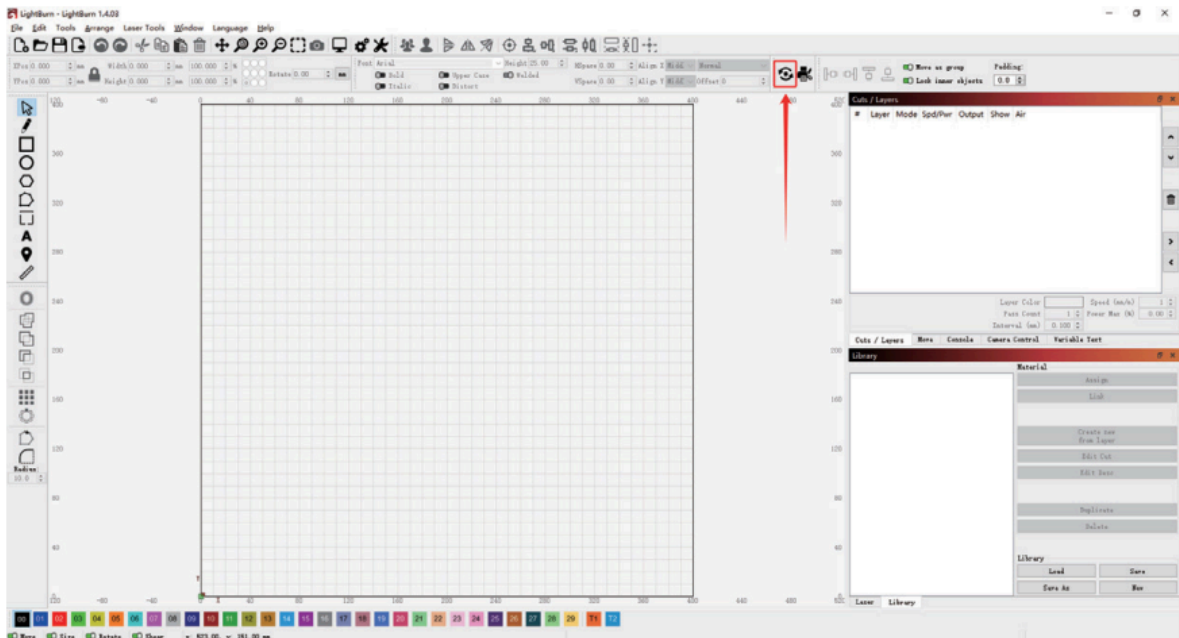
4.8 If it is less than 30mm, increase the parameter value of "mm per rotation" until the measured side length is 30mm.

5. Rotary Pro lightburn parameters

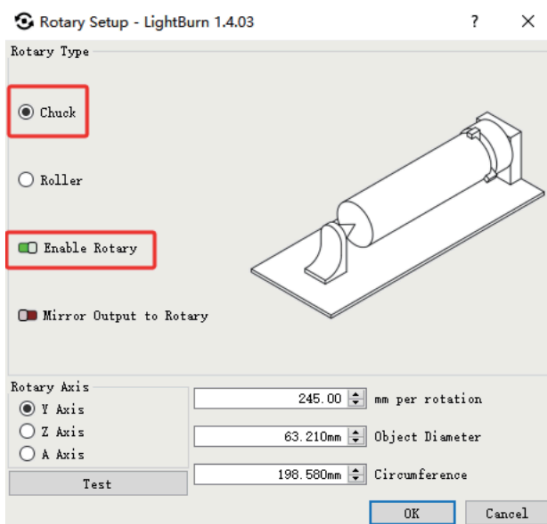
After connecting the chuck to the machine, you need to enable the Rotary function in LightBurn and set the relevant rotation parameters.

Follow these steps

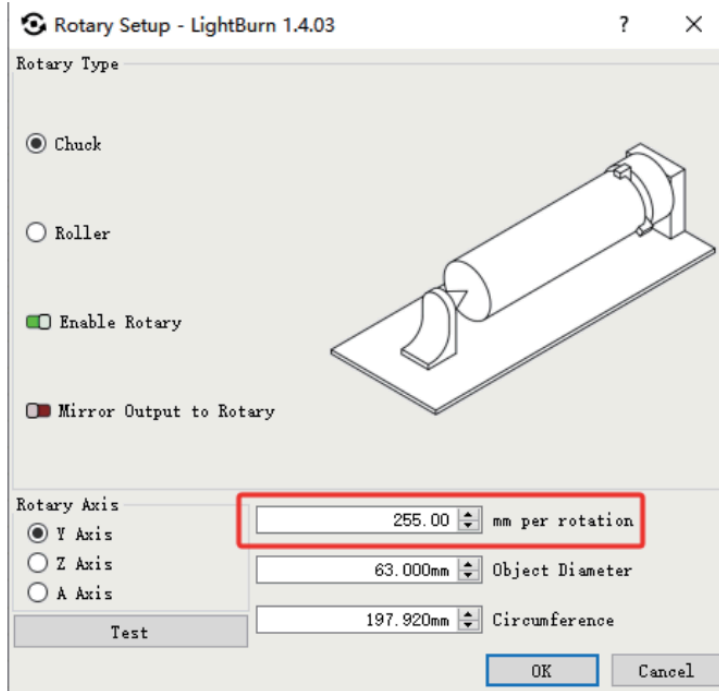
5.1 Open LightBurn and click on "Rotary Setup" in the top menu bar.



5.2 In the popped-up Rotary Setup window, make sure to select the Chuck mode and click on "Enable Rotary".

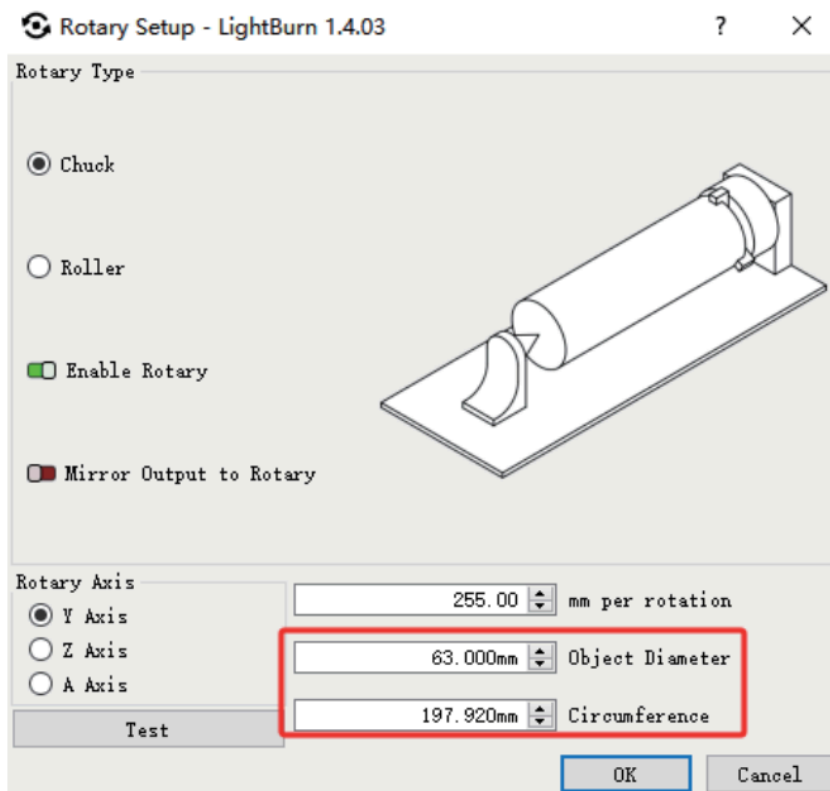


5.3 Set the Spider X1/X1S to Single Mode and then set the rotation parameter to "255 mm per rotation".



Tips: Rotary Pro is compatible with other laser machines. For example, XTOOL D1Pro sets the parameters to "95 mm per rotation". Other brands require users to test the rotation parameters by themselves.

5.4 In the Rotary Setup window, the "Object Diameter" should be measured based on the diameter of the object being engraved, and the corresponding diameter parameter should be entered. The "Circumference" below will be automatically calculated based on it.



WARRANTY

Before returning the product and filling in a warranty, please contact after-sale person for going through after-sale formality. And attach this warranty card along with the returned machine.

Repair ☐ Change ☐ Return ☐
Name: _____ Telephone: _____
Serial Number: _____ Order Number: _____
Channel: _____ Date of Purchase Day: _____
Manufacture Problem Description and Return Reasons/Suggestions: _____
Repair Records: _____

Note: Client needs to fill in basic info. and return reasons. Repair records shall be retained for technicians.

※ Users should abide by the laws and regulations of the country and region where the equipment is located (place of use), abide by professional ethics, and pay attention to safety obligations. It is strictly forbidden to use our products or equipment for any illegal purpose. Our company is not responsible for the relevant legal responsibilities that the violator should bear.

Since each model is different, the actual product may be different from the picture. Please refer to the actual product.

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Company: Shenzhen Sky Electronics Co.,Ltd.
Address: Room 508,Block 11,Ping an Ave,No.3,Pinghu Street, Longgang, Shenzhen
Website: www.spiderlasers.com
Email: spiderx1@spider-laser.com

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