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Sculpfun

Sculpfun G9 Max
Chuck SGD Software

Sculpfun G9 Max Chuck SGD Software User Guide

Contents

Sculpfun

Sculpfun G9 Max Chuck SGD Software

Specifications

- Model: G9
- Connection: USB
- Password: sculpfun001

Product Usage Instructions

Software Settings
Open the SGD Software and connect the G9 machine to the computer with a USB cable. After successful connection, follow these steps

1. Select Device information to check basic information, modify accessories, and display settings.
2. Configure accessory information when using the roller or chuck for engraving. Ensure the Safety Door is closed during use.
3. Do not use the slide extension for hot-swap. Connect it when the G9 machine is off.

Operating Steps

Roller Engraving

Step 1: Preparation

1. Create a new canvas and change the mode to Roller engraving in the software.
2. Measure the diameter of the material (not circumference) and input it into the software.

Step 2: Installation

1. Remove the Chuck and install the roller.
2. Place materials on the rotary roller and put the roller accessory on the machine working platform.

Step 3: Connection

1. Connect the rotary roller accessory using a cable to the G9 machine.
2. Turn on the machine after connecting.

Step 4: Engraving

1. **Focus:** Adjust materials on the platform for focus. Align red and blue dots by adjusting with the electric lift button.
2. **Parameters Settings:** Edit patterns or text on canvas and select appropriate parameters for engraving content and materials.
3. **Preview:** Check working range with Preview.
4. **Start Engraving:** Click Mark to begin engraving.

Chuck Engraving

Step 1: Preparation

1. Create a new canvas and switch mode to Claw engraving in the software.
2. Measure material diameter and input into software.

Step 2: Installation

1. Remove roller and install chuck.
2. Secure material in chuck and place roller accessory on the working platform. Use mini level for adjustment.

Step 3: Connection

1. Connect rotary roller with cable to G9 machine.
2. Power on the machine after connection.

Step 4: Engraving
**Focus:** Align materials on platform for focus using red and blue dots.

Frequently Asked Questions (FAQ):

- **Q: Can I use the slide extension for hot-swap?**
  - A: No, the slide extension is prohibited for hot-swap use. Connect it only when the G9 machine is off.
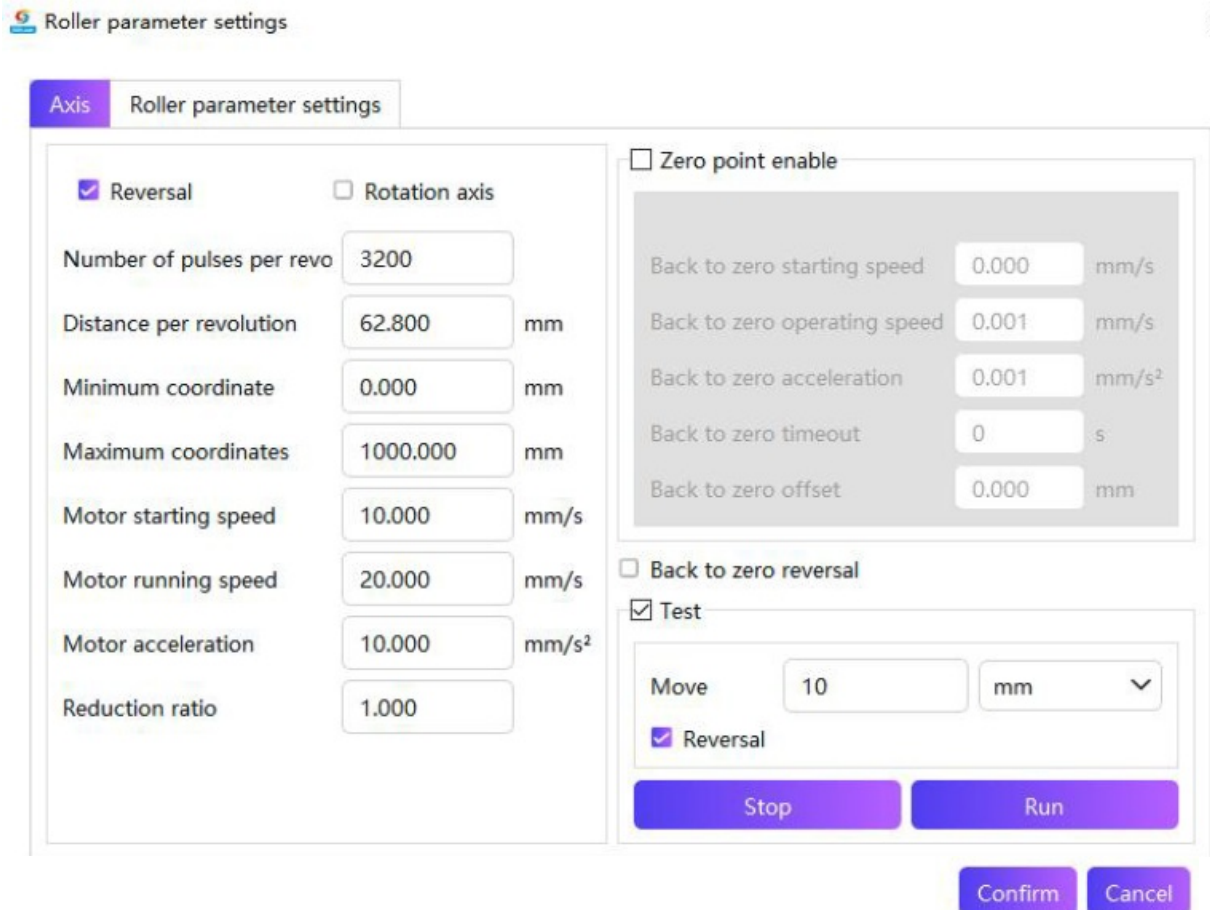
Software Settings

Open the SGD Software and connect the G9 machine to the computer with a USB cable. After successful

connection, you can select "Device information" to check the basic information, modify accessories and display settings. The accessory information needs to be configured when using the roller or chuck to engrave, meanwhile, Safety Door should be in a closed status. PLEASE NOTE that the slide extension is prohibited for hot-swap use and must be connected when the G9 machine is off.
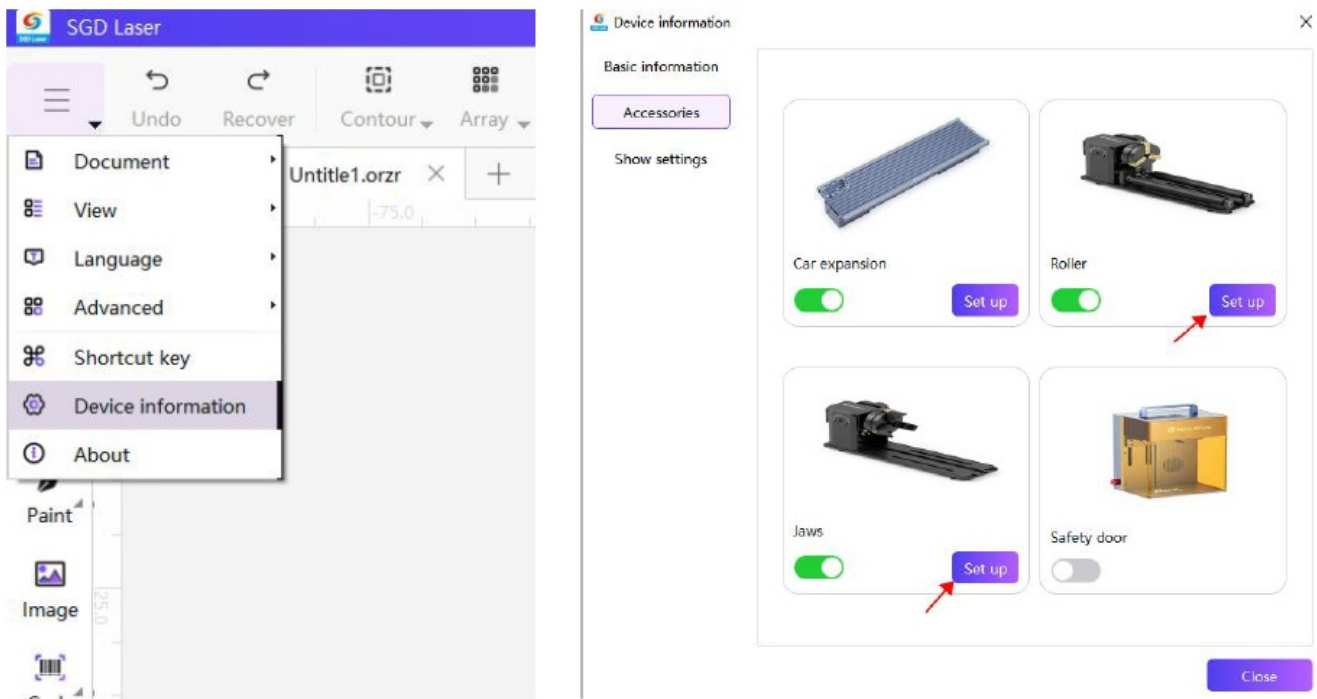
User Password: sculpfun001

The parameters are modified as follows Roller

Roller parameter settings

Axis | **Roller parameter settings**

Axis ID	0 ▾	Axis placement mode Swing sideways ▾
Combined acceleration	900000	(mm/s2)
Maximum roller speed	30 (mm/s)	Roller acceleration 100 (mm/s2)
Maximum speed of galv	5000 (mm/s)	Galvanometer accelerat 900000 (mm/s2)
Deduplication threshold	0	(mm)
Sharp corner arc thresh	0	(mm)
Speed interpolation thre	10	(mm/s)

☐ Enable optical power

☐ Return to zero point

[Confirm] [Cancel]

Chuck

Chuck parameter settings

Axis | **Chuck parameter settings**

☐ Reversal ☐ Rotation axis

Number of pulses per revo	12800	
Distance per revolution	10.000	mm
Minimum coordinate	0.000	mm
Maximum coordinates	1000.000	mm
Motor starting speed	1.000	mm/s
Motor running speed	2.000	mm/s
Motor acceleration	10.000	mm/s²
Reduction ratio	1.000	

☐ Zero point enable

Back to zero starting speed	0.000	mm/s
Back to zero operating speed	0.001	mm/s
Back to zero acceleration	0.001	mm/s²
Back to zero timeout	0	s
Back to zero offset	0.000	mm

☐ Back to zero reversal

☑ Test

Move	10	mm ▾

☑ Reversal

[Stop] [Run]

[Confirm] [Cancel]

Chuck parameter settings

Axis	**Chuck parameter settings**		

Axis ID	0 ⌄	Axis placement mode	Swing sideways ⌄
Combined acceleration	900000	(mm/s2)	
Maximum roller speed	30	(mm/s) Roller acceleration	100 (mm/s2)
Maximum speed of galvan	5000	(mm/s) Galvanometer acceleration	900000 (mm/s2)
Deduplication threshold	0	(mm)	
Sharp corner arc threshold	0	(mm)	
Speed interpolation thresh	10	(mm/s)	

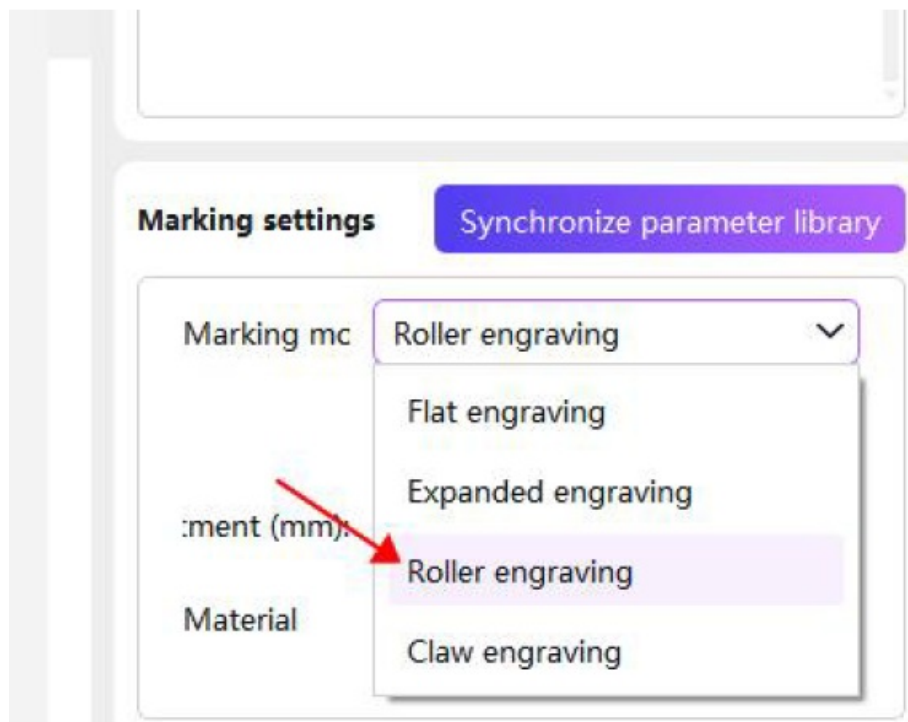☐ Enable optical power co
☐ Return to zero point aft

Confirm　Cancel

Operating Steps

Roller Engraving

Step 1: Preparation
Create a new canvas. You can change the mode to "Roller engraving" in the lower right corner of the SGD software interface.

Marking settings　Synchronize parameter library

Marking mc　Roller engraving ⌄

Flat engraving

Expanded engraving

Roller engraving
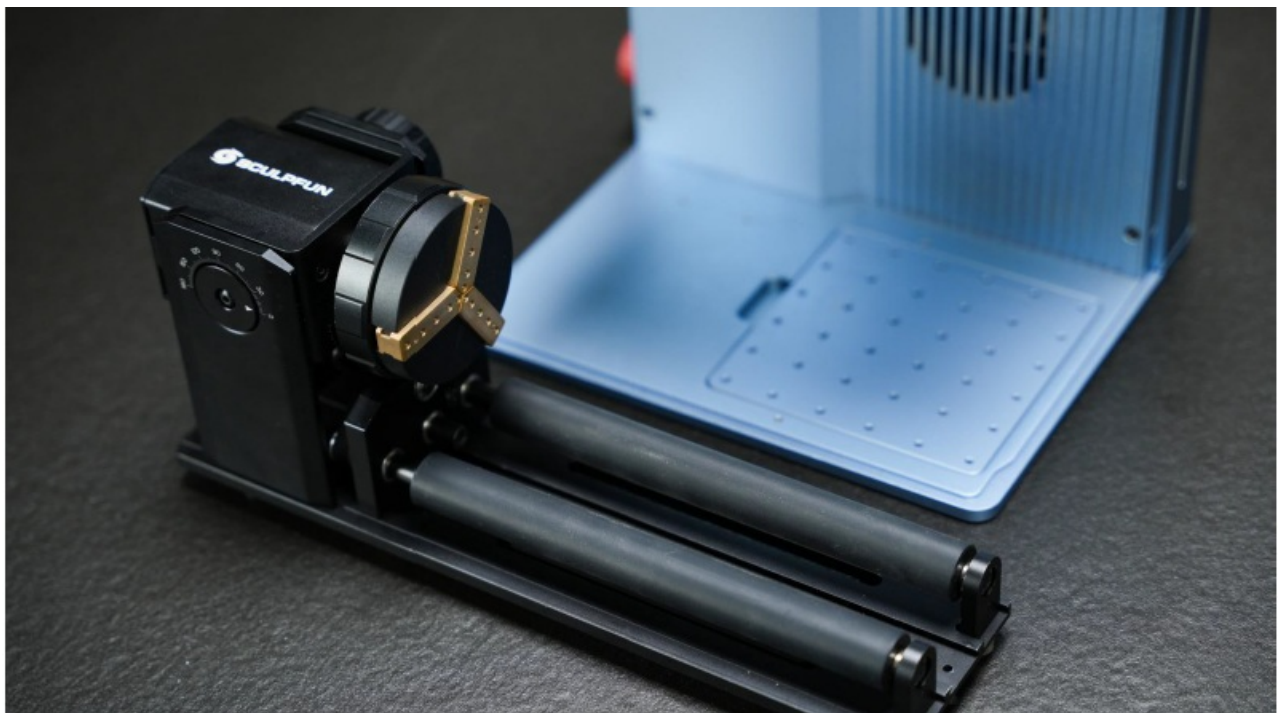
Claw engraving

:ment (mm):

Material

Measure the Diameter of the material in advance (Note That It Is Not The Circumference) and enter it into the software.
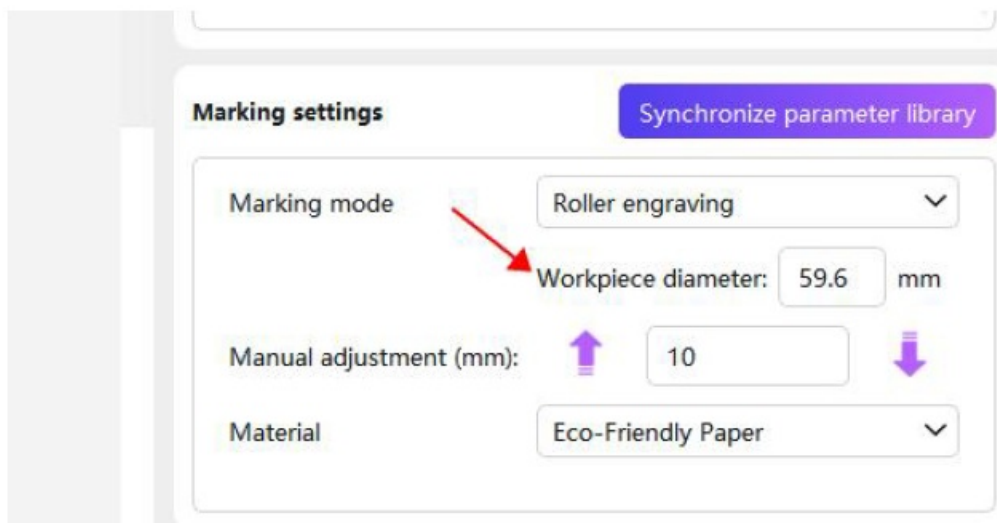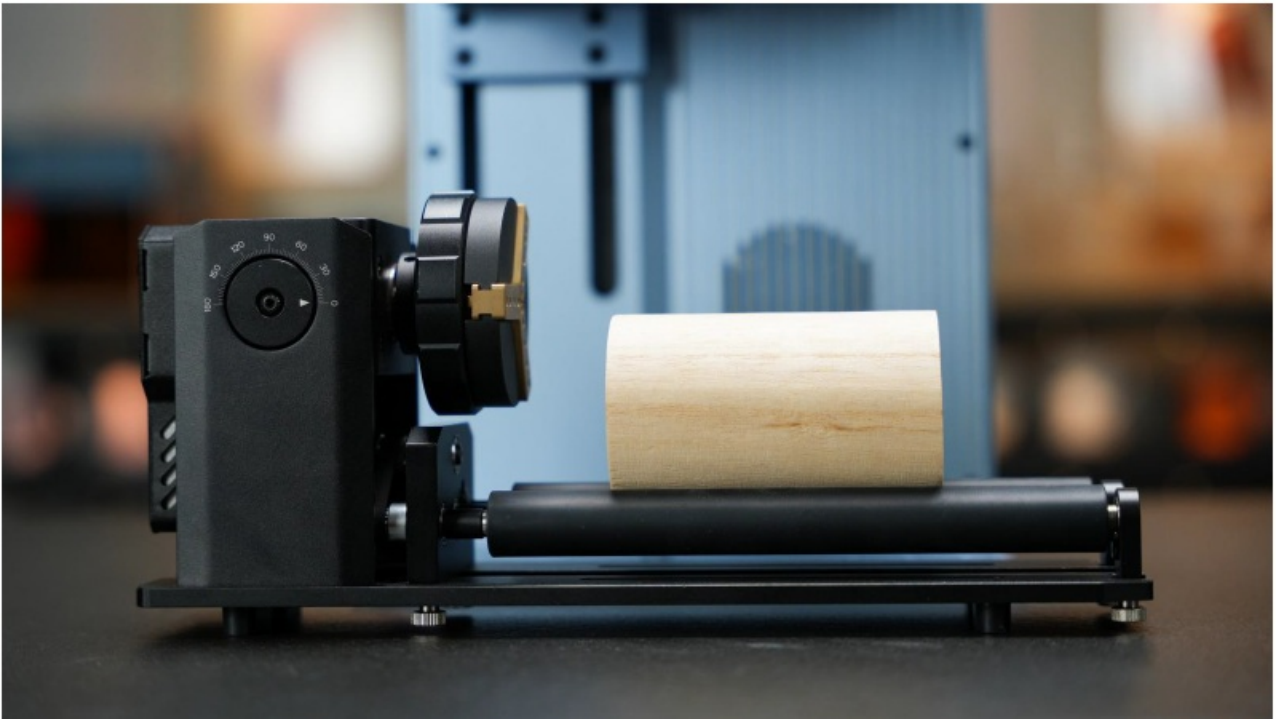
Installation

1. Remove the Chuck and install the roller on it.

2. Place the materials on the rotary roller and put the roller accessory on the machine working platform.

Step 3: Connection

Use one end of the connection cable to connect the rotary roller accessory, and the other end to connect the accessory interface on the back of the G9 using an adapter cable. After that you can turn on the machine for use.

Step 4: Engraving

1. **Focus**

   Place the rotary roller with materials on the machine working platform and click to focus. Red and blue dots will appear on the materials, adjusting them with the electric lift button to make the two dots coincide to complete the focus. **NOTE:** To reach a better engraving effect, the rotation direction of the materials must be level with the y-axis direction of the laser engraver.

2. **Parameters Settings**

   You can edit patterns or text on the canvas and select proper parameters according to the engraving content and materials. In particular, the engraving effect of performing vector graphics lines using rotary roller is not well.

3. **Preview**

   Click on "Preview" to check the working range of the machine.
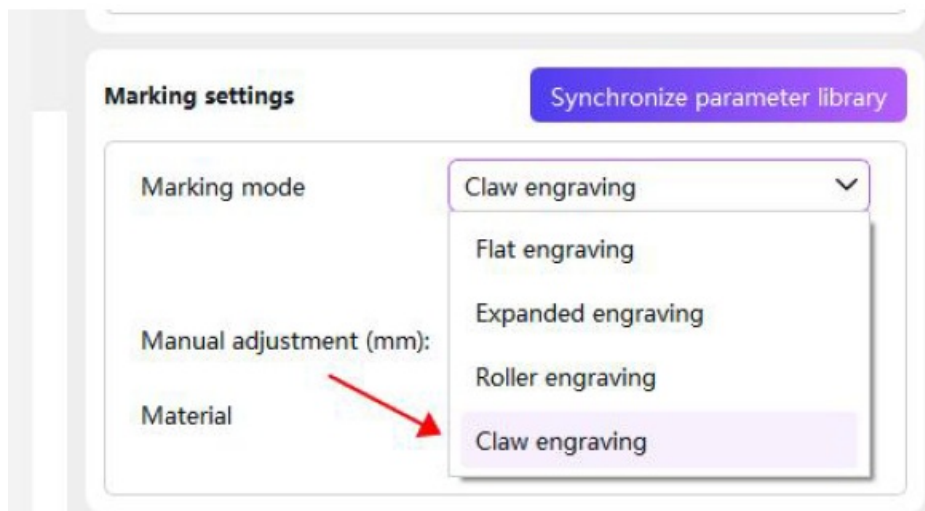
4. **Start Engraving**
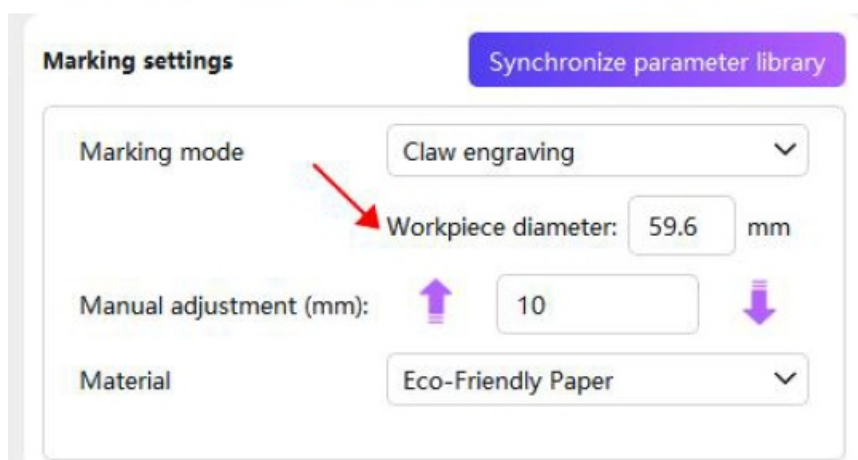
   Click on "Mark" to start working.

Chuck Engraving

Step 1: Preparation

Create a new canvas. You can change the mode to "Claw engraving" in the lower right corner of the SGD software interface.

Marking settings   Synchronize parameter library

Marking mode   Claw engraving ⌄

                          Flat engraving

                          Expanded engraving

Manual adjustment (mm):   Roller engraving

Material   Claw engraving

Measure the Diameter of the material in advance (Note That It Is Not The Circumference) and enter it into the software.

Marking settings   Synchronize parameter library

Marking mode   Claw engraving ⌄

                    Workpiece diameter: 59.6   mm

Manual adjustment (mm):   ⬆   10   ⬇

Material   Eco-Friendly Paper ⌄

Step 2: Installation

1. Remove the roller and install the chuck.

2. Secure the material in the chuck, ensuring it won't fall off. Afterward, place the roller accessory on the machine working platform. Use the mini level to adjust the level of the material for accurate printing of the pattern onto the material.

Step 3: Connection
Use one end of the connection cable to connect the rotary roller, and the other end to connect the accessory interface on the back of the G9 using an adapter cable. After that you can turn on the machine for use.

Step 4: Engraving

1. **Focus**

   Place the rotary chuck with materials on the machine working platform and click to focus. Red and blue dots will appear on the materials, adjusting them with the electric lift button to make the two dots coincide to complete the focus. **NOTE:** To reach a better engraving effect, the rotation direction of the materials must be level with the y-axis direction of the laser engraver.

2. **Parameters Settings**

   You can edit patterns or text on the canvas and select proper parameters according to the engraving content and materials.

3. **Preview**

   Click on "Preview" to check the working range of the machine.

4. **Start Engraving**

Click on "Mark" to start working.

Documents / Resources

Sculpfun G9 Max Chuck SGD Software [pdf] User Guide
G9 Max Chuck SGD Software, G9, Max Chuck SGD Software, Chuck SGD Software, SGD Software, Software

References

- **User Manual**