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› SCULPFUN S9 PRO Laser Engraver Instruction Manual

SCULPFUN S9PRO10W-ELE

SCULPFUN S9 PRO Laser Engraver Instruction Manual

Model: S9PRO10W-ELE

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your SCULPFUN S9 PRO 10W Laser Engraver. The S9 PRO features 10W laser beam shaping technology, offering a 0.06mm ultra-fine laser focus for strong cutting penetration and precision. It is capable of cutting materials such as 15mm thick wood and 10mm acrylic, and engraving ceramics and stainless steel. Please read this manual thoroughly before use to ensure proper setup, operation, and maintenance.

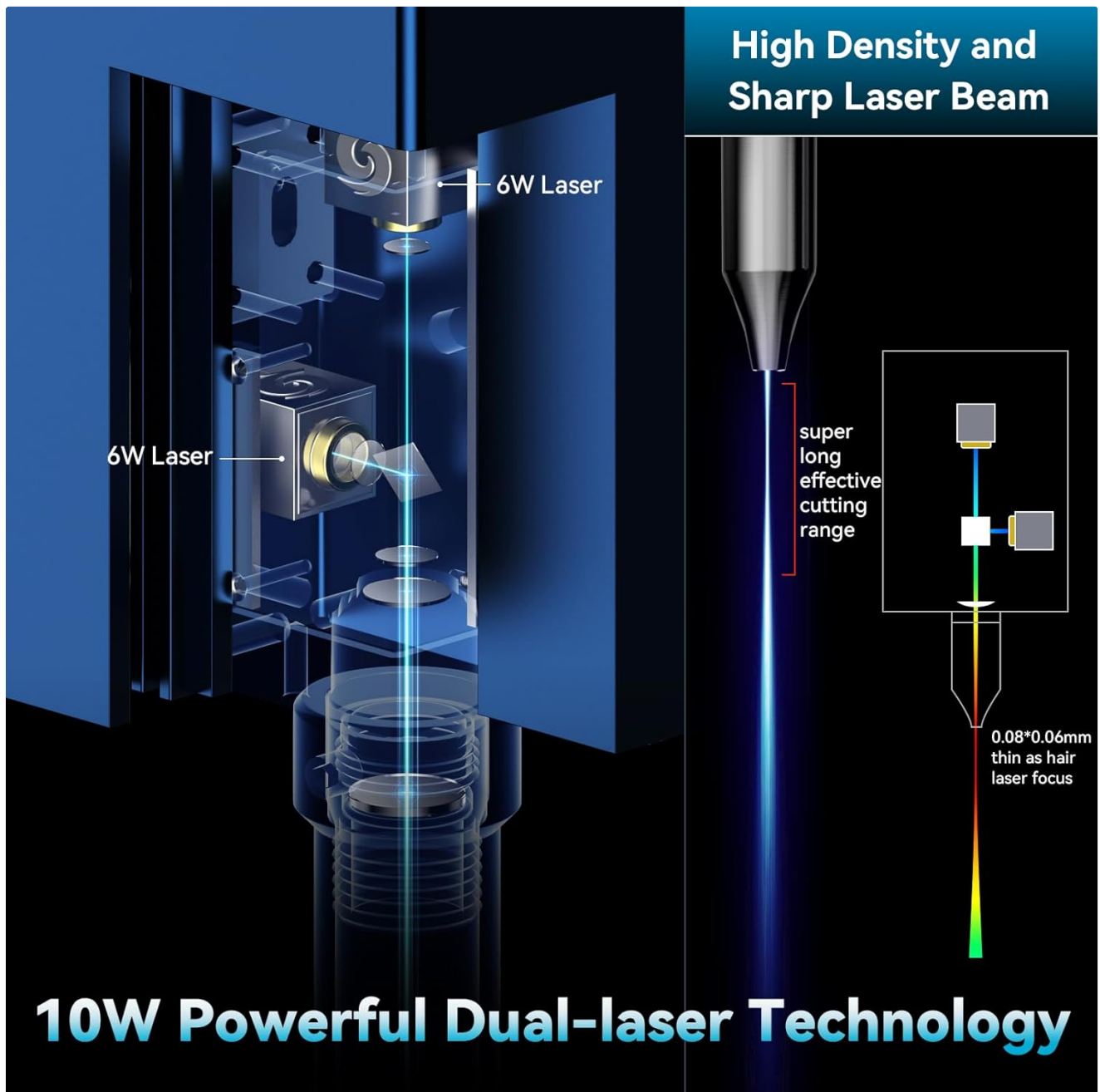


Image: An overview of the SCULPFUN S9 PRO 10W Laser Engraver, showcasing its compact design and main components.

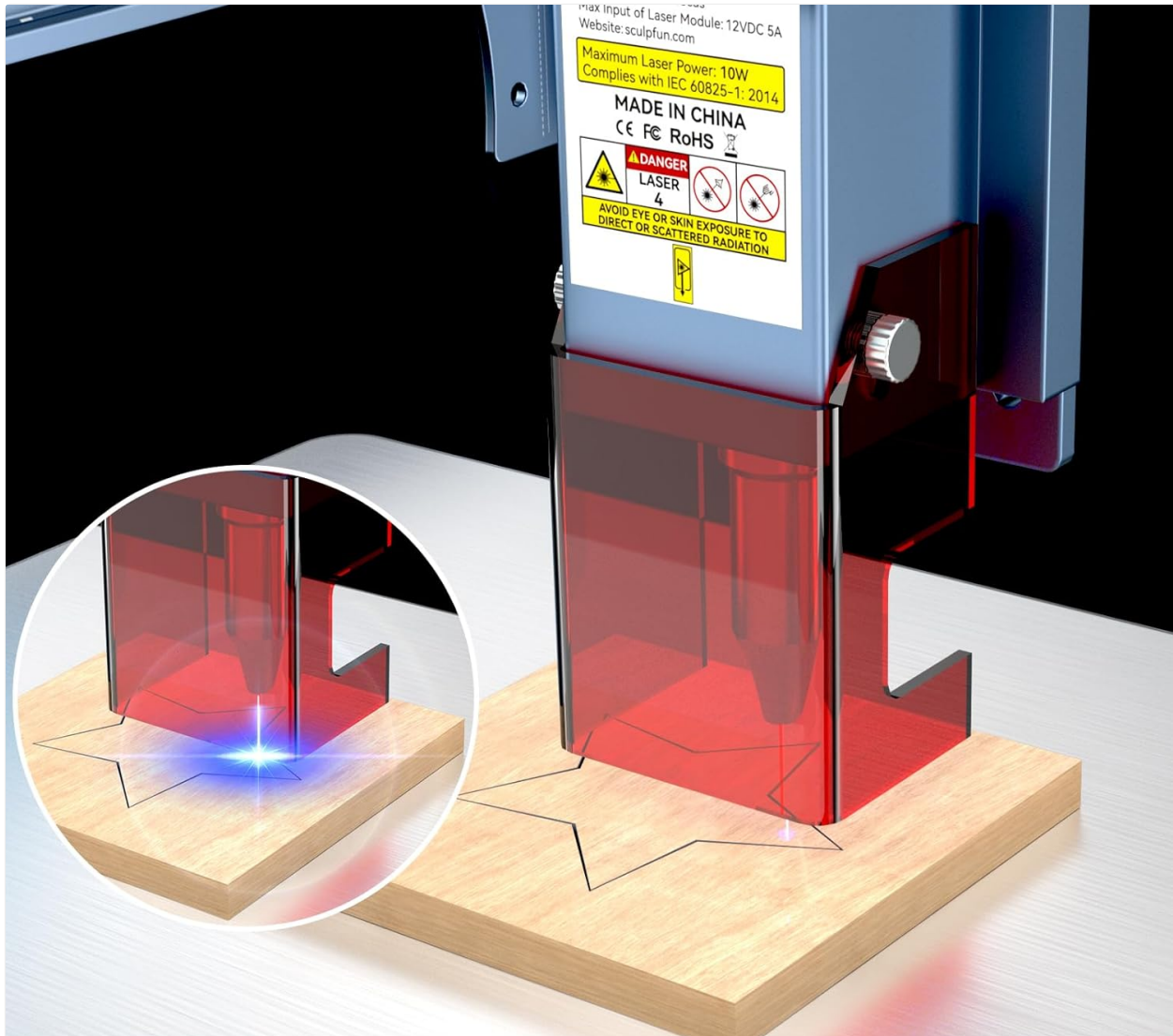
SAFETY INFORMATION

Operating a laser engraver involves potential hazards. Adhere to all safety guidelines to prevent injury or damage.

- **Eye Protection:** Always wear appropriate laser safety glasses when operating the machine. The integrated laser filter on the S9 PRO blocks 98% of ultraviolet light, allowing observation without additional safety glasses for bystanders, but direct laser exposure should always be avoided.
- **Power Switch:** The machine is equipped with a secure power switch. Always turn off the machine when not in use or during maintenance.
- **Secure Placement:** Utilize the fastening holes on the four feet and frame structure to secure the machine and data cables, preventing accidental movement.
- **Surface Protection:** Use the provided A4-sized steel pad to protect your work surface from laser

damage.

- **Ventilation:** Ensure adequate ventilation in your workspace to dissipate fumes produced during engraving and cutting.
- **Flammable Materials:** Do not engrave or cut highly flammable materials without proper precautions.
- **Children and Pets:** Keep children and pets away from the operating area. The laser point can attract attention, but direct exposure is dangerous.



Circle protective cover is better to observe from all angle
CIRCLE EYE PROTECTION

Image: Close-up of the SCULPFUN S9 PRO's laser module with its red protective cover, designed to filter laser light and enhance eye safety during operation.

PACKAGE CONTENTS

Verify that all components are present upon unpacking:

- 1 x SCULPFUN S9 Pro 10 W Laser Engraver
- A4-sized steel pad

- Power adapter
- USB cable
- Assembly tools
- User Manual (this document)

SETUP GUIDE

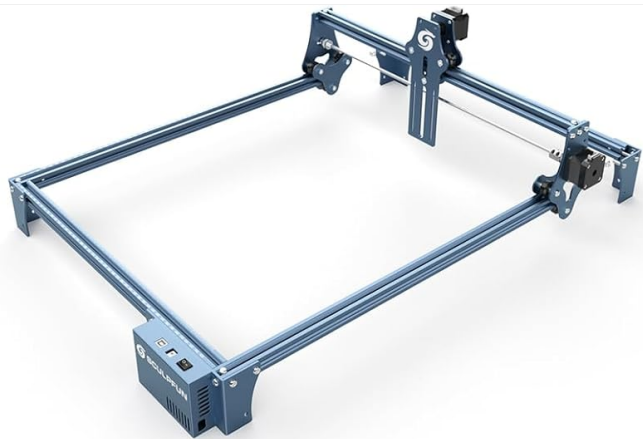
1. Assembly

The SCULPFUN S9 PRO features a fast assembly design, allowing for installation typically within 10 to 20 minutes. Follow the steps below:

1. **Step 1:** Assemble the main frame components.
2. **Step 2:** Attach the X-axis and laser module to the frame.
3. **Step 3:** Connect all necessary cables.
4. **Finish:** Ensure all connections are secure and the frame is stable.

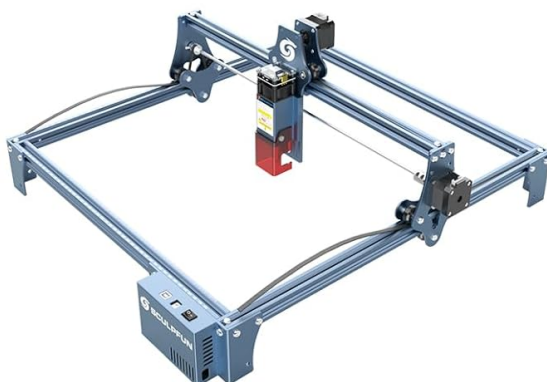


STEP 1

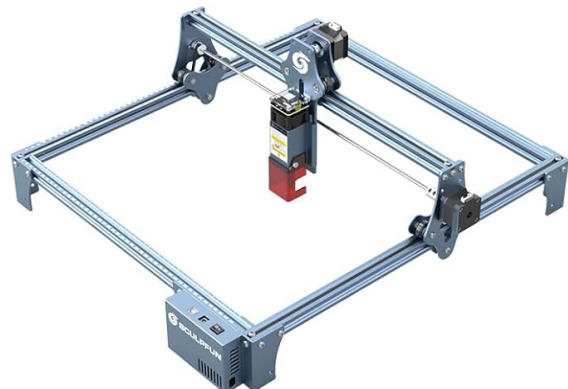


STEP 2

FAST ASSEMBLY DESIGN



STEP 3



FINISH

Image: Visual guide for the fast assembly process of the SCULPFUN S9 PRO laser engraver, showing four distinct steps from frame assembly to final setup.

The full-metal structure enhances robustness and engraving accuracy. The X and Y axes include precise scale lines, forming a rectangular measuring ruler for quick object sizing.

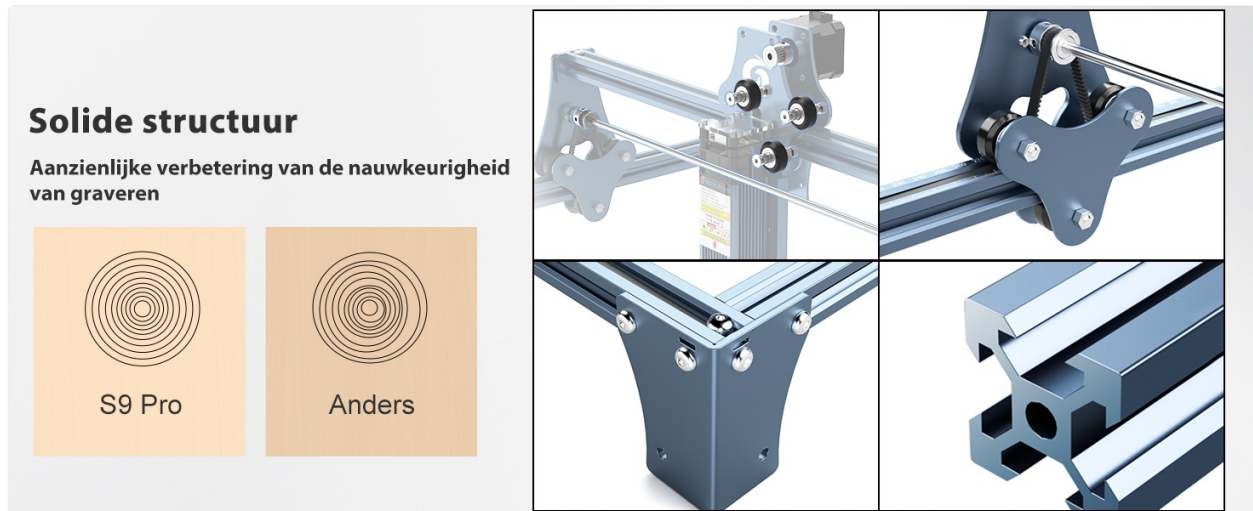


Image: Diagram illustrating the solid, full-metal structure of the SCULPFUN S9 PRO, highlighting its robust design for improved engraving accuracy.

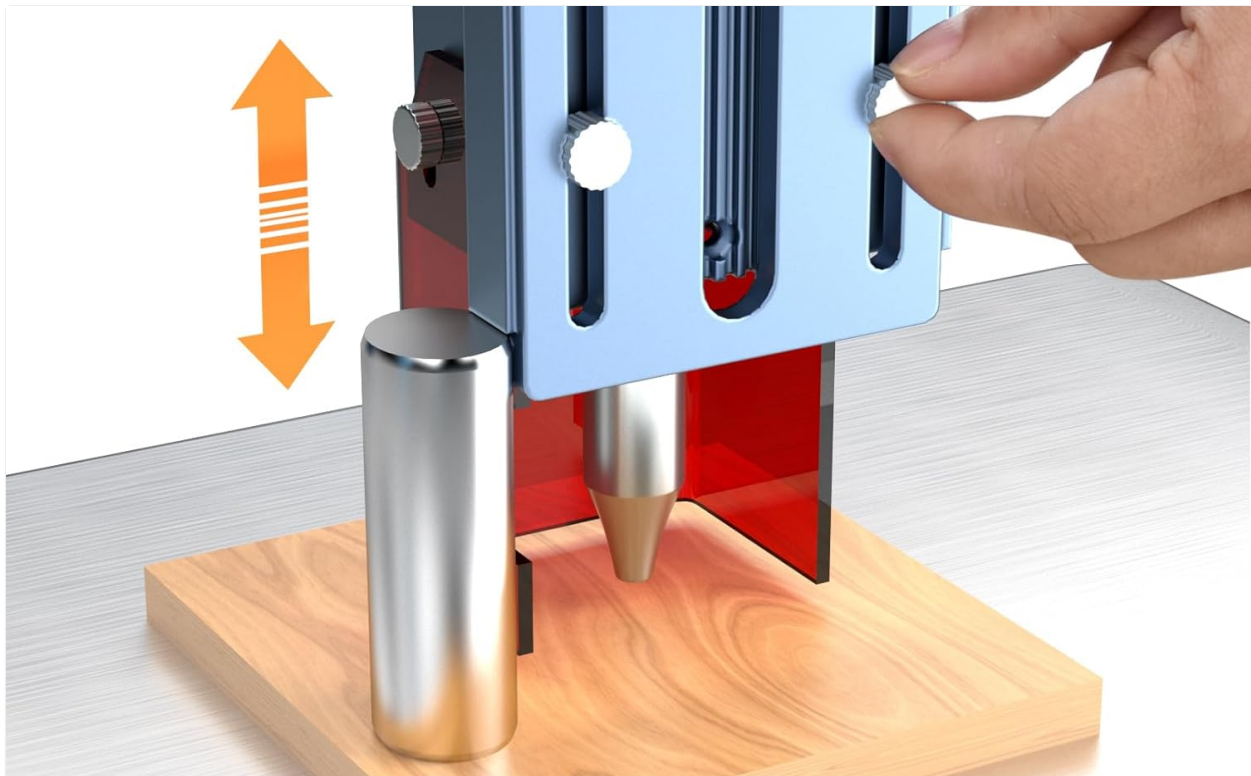


Image: Close-up of the SCULPFUN S9 PRO's X and Y axes with integrated scale lines, demonstrating their use as a square ruler for precise material placement and measurement.

2. Focus Adjustment

The S9 PRO features a quick fixed-focus design. The laser combines a fixed-focus lens with a sliding design for easy adjustment.

1. Place the laser module over your material.
2. Move the laser module up or down until the focus is achieved.
3. Tighten the screws to secure the laser module in place.



FIXED FOCUS + EASY SLIDING DESIGN

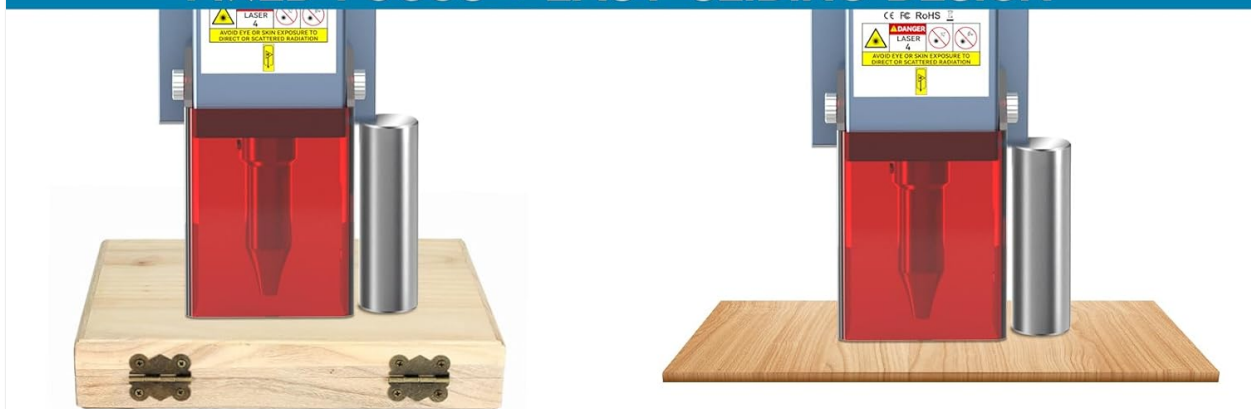


Image: Illustration of the SCULPFUN S9 PRO's fixed focus mechanism, showing how to adjust the laser module height using a sliding design and a cylindrical focus block.

OPERATING INSTRUCTIONS

1. Software Compatibility

The SCULPFUN S9 PRO is compatible with various advanced engraving software:

- LaserGRBL (Windows)
- LightBurn (Windows, macOS, Linux)
- Benbox
- GrblController
- LiteFire

It supports engraving in PWM mode and various file formats including JPG, PNG, DXF, SVG, AI, G-code, NC, and BMP.

BROAD COMPATIBILITY	
Windows WIN XP / WIN 7 / WIN 8 / WIN 10	
MAC	
LaserGRBL	
LightBurn	
JPG	SVG
PNG	DXF
TIF	BMP
PDF	NG
AI	...



Image: Display of the SCULPFUN S9 PRO's broad software compatibility, showing various operating systems and engraving software logos like LaserGRBL and LightBurn.

2. Material Capabilities

The 10W laser module provides strong cutting and engraving capabilities across a wide range of materials:

- **Cutting:** Up to 15mm thick wood, 10mm black acrylic.
- **Engraving:** Wood, leather, ceramics, stainless steel, aluminum oxide, PCB board, paper, cardboard, dark stone, and more.

Brede compatibiliteit



Voor Windows, MacOS en Linux
Ondersteunt JPG, PNG, DXF, SVG, AI, G-code, NC, BMP en andere graveerbestandsformaten



Voor LaserGRBL, LightBurn, Benbox, G-Code, G-Code, G-Code, G-Code

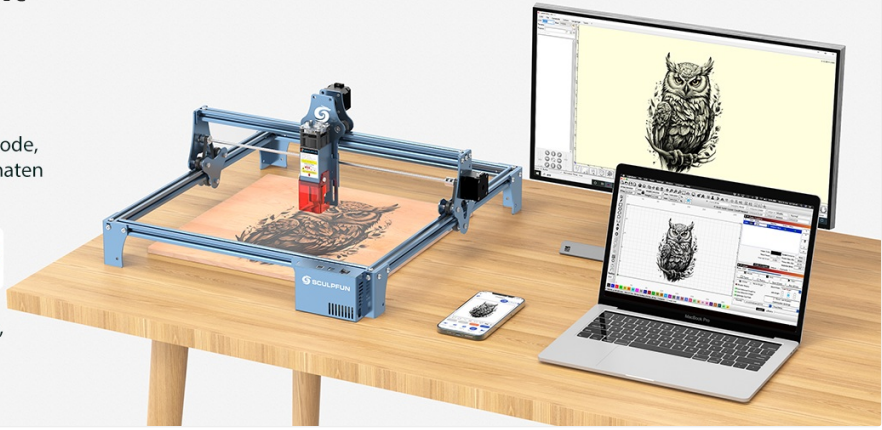


Image: Diagram illustrating the 10W powerful dual-laser technology of the SCULPFUN S9 PRO, showing how two 6W lasers combine to create a high-density, sharp laser beam with an ultra-fine focus for effective cutting.



Image: Collage showing various materials being engraved and cut by the SCULPFUN S9 PRO, including wood carving, leather carving, acrylic carving, steel carving, wood cutting, leather cutting, acrylic cutting, and cloth carving.

Super snijpenetratie en precisie

Graveernauwkeurigheid: 0,01mm



15mm dik hout



10mm zwart acryl

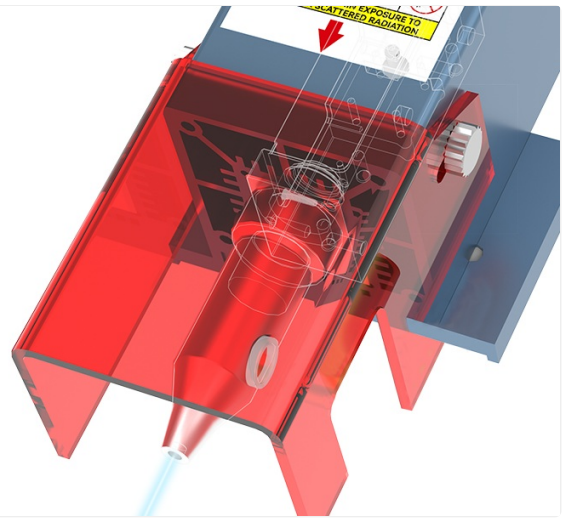


Image: Diagram illustrating the cutting capabilities of the SCULPFUN S9 PRO, showing it can cut through 15mm thick wood and 10mm black acrylic with high precision.

3. General Operation Workflow

1. **Design:** Create or import your design using compatible software (e.g., LightBurn, LaserGRBL).
2. **Material Placement:** Place your material on the work surface, ensuring it is flat and secure. Use the integrated rulers for precise positioning.
3. **Focus Adjustment:** Adjust the laser focus as described in the Setup section.
4. **Software Settings:** Configure laser power, speed, and passes in your chosen software according to the material and desired effect. Refer to software documentation for detailed settings.
5. **Start Operation:** Initiate the engraving or cutting process from the software. Monitor the machine during operation.
6. **Completion:** Once the process is complete, turn off the machine and carefully remove your finished piece.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your SCULPFUN S9 PRO.

- **Clean the Laser Lens:** Periodically clean the laser lens with a soft, lint-free cloth and lens cleaning solution to maintain laser precision.
- **Clean the Work Area:** Remove debris and dust from the engraving area after each use to prevent interference with machine movement.
- **Inspect Belts and Rails:** Check the drive belts for tension and wear. Keep the guide rails clean and lubricated if necessary to ensure smooth movement of the laser module.
- **Firmware Updates:** Check the official SCULPFUN website for any available firmware updates to ensure your machine has the latest features and improvements.

TROUBLESHOOTING

This section addresses common issues you might encounter.

- **Laser Not Firing:**

- Check if the power cable is securely connected and the power switch is on.
- Verify that the USB cable is connected to your computer and the machine.
- Ensure the software is correctly configured and sending commands.
- Check the laser module connection.

- **Poor Engraving/Cutting Quality:**

- Re-check the laser focus. An incorrect focus is a common cause of poor quality.
- Adjust laser power and speed settings in your software. Different materials require different settings.
- Ensure the material is flat and securely placed.
- Clean the laser lens if it appears dirty.

- **Machine Not Moving Correctly:**

- Check for any obstructions on the rails or belts.
- Ensure belts are properly tensioned and not slipping.
- Verify that all cables are securely connected.
- Restart the software and the machine.

- **Software Connection Issues:**

- Ensure the correct COM port is selected in your software.
- Try restarting your computer and the engraver.
- Reinstall the software or drivers if necessary.

For persistent issues, refer to the SCULPFUN support website or contact customer service.

SPECIFICATIONS

Brand	SCULPFUN
Model Number	S9PRO10W-ELE
Laser Power	10W (Diode Laser)
Laser Focus	0.06mm (Ultrafine)
Engraving Accuracy	0.01mm

Engraving Area	400 x 410 mm
Power Source	AC
Package Dimensions	61.79 x 38.4 x 13.4 cm
Package Weight	4.95 kg
Included Components	1 x SCULPFUN S9 Pro 10 W laser engraver
Software Compatibility	LaserGRBL, LightBurn, Benbox, GrblController, LiteFire
Supported OS	Windows, macOS, Linux
Supported File Formats	JPG, PNG, DXF, SVG, AI, G-code, NC, BMP

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact SCULPFUN customer support through their official website or the retailer where the product was purchased. Keep your purchase receipt as proof of purchase.

Manufacturer: SCULPFUN

First Available Date: November 29, 2024