

LUNYEE 3018 pro ultra

Lunyee 3018 Pro Ultra CNC Machine User Manual

MODEL: 3018 PRO ULTRA

Brand: LUNYEE

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Lunyee 3018 Pro Ultra CNC Machine. Please read this manual thoroughly before assembly and operation to ensure proper use and to maximize the lifespan of your machine.

2. KEY FEATURES

- **New Upgrade:** Features a Z-Axis Height of 80mm and a 500W Spindle. The X-Axis is upgraded to HGH15 Linear Guide, enhancing metal engraving capabilities for materials like Brass, Copper, and 6061 Aluminum.
- **High Precision:** Built on the 3018 Pro Max foundation, with upgraded linear guide structure, 2040 X-Axis Profiles, and 4040 Y-Axis Profiles for significantly enhanced engraving accuracy and processing strength. Addresses Z-Axis instability common in other desktop CNC machines.
- **Scale Grid Aluminum Plate Platform:** One-piece machined and molded aluminum design ensures flatness and strength. Integrated measurement scale aids material positioning. Includes 2pc T-Track Mini Hold Down Clamp Kit for secure material fastening.
- **Integrated Switching Power Supply Design:** Streamlines installation and improves safety with an integrated power supply, reducing wiring time.
- **Easy Assembly and Support:** Features pre-assembled main parts and clear cable management. Assembly videos and paper user manuals are provided.
- **Auxiliary Instructions:** Machine installation and wiring videos are available on the product link page. A 4G USB Flash Drive with pre-installed relevant software is included in the package.



Figure 2.1: Lunyee 3018 Pro Ultra CNC Machine overview.

3. SETUP AND ASSEMBLY

The Lunyee 3018 Pro Ultra CNC Machine is designed for quick and easy assembly, with many main parts pre-assembled. Follow these general steps for setup:

1. **Connect XY Assembly with Platform:** Secure the X and Y axis components to the main platform.
2. **Install the Rubber Feet:** Attach the rubber feet to the base of the machine for stability.
3. **Install the Spindle:** Mount the 500W spindle securely into its designated housing.
4. **Install Power and Wiring:** Connect the integrated power supply and ensure all cables are managed clearly and correctly.

Refer to the provided assembly videos and paper user manuals for detailed, step-by-step instructions. The included 4G USB Flash Drive contains necessary software and additional resources.

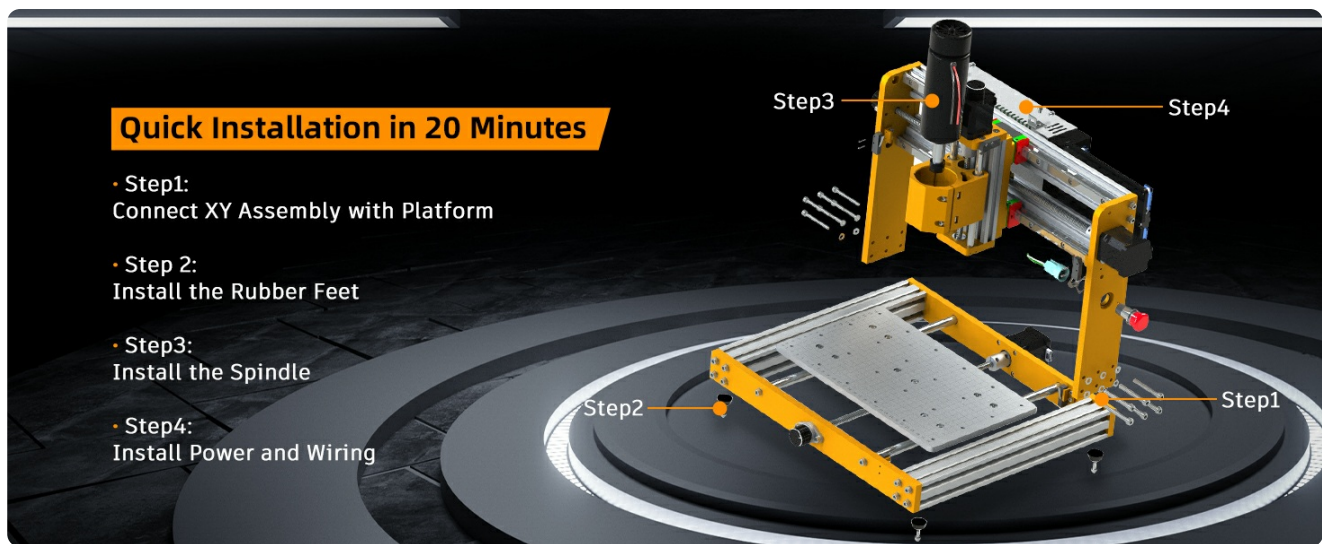


Figure 3.1: Visual guide for quick installation.

4. OPERATING THE CNC MACHINE

The Lunyee 3018 Pro Ultra supports both CNC and optional Laser Modes, offering versatility for various projects.

4.1 Software Compatibility

The machine is compatible with GRBL control software such as Candle and other GRBL-compatible software like UGS (Universal Gcode Sender). The included USB drive contains pre-installed software.

4.2 Offline Control

For standalone operation, the machine can be controlled using the offline controller, allowing you to execute G-code without a direct computer connection.

4.3 Spindle and Working Area

- **Spindle Power:** 500W, with a maximum speed of 12000 RPM/Min.
- **Effective Working Area:** 300mm x 180mm x 80mm (11.81in x 7.09in x 3.15in).

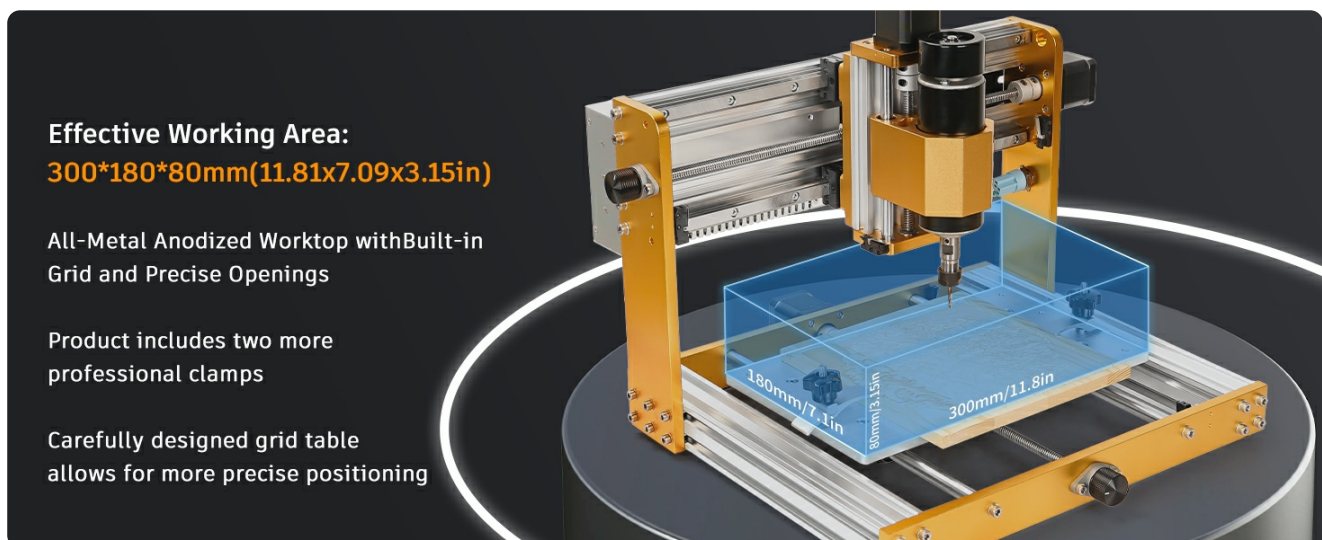


Figure 4.1: Effective working area dimensions.

4.4 Supported Materials

The Lunyee 3018 Pro Ultra is suitable for engraving and cutting a wide range of materials, including:

- Wood
- Bamboo
- Acrylic
- Plastic
- PVC
- ABS
- PCB
- Brass
- Resin



Figure 4.2: Examples of materials that can be processed.

4.5 Milling Tools

The machine comes with various milling tools suitable for different applications. Ensure you select the correct tool for your material and desired cut.

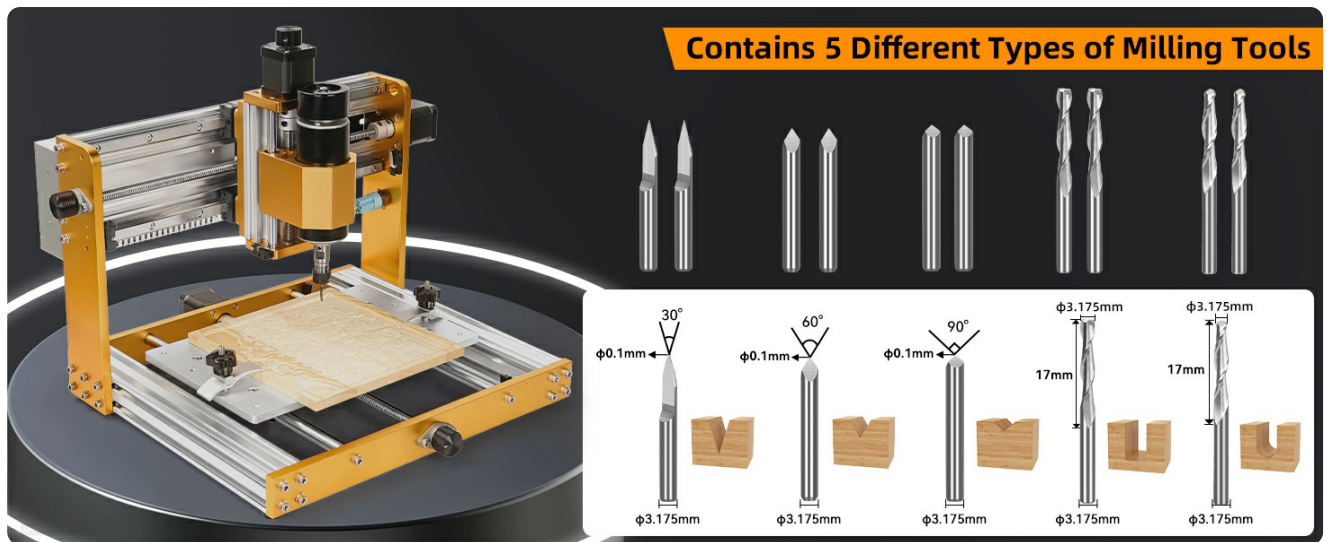


Figure 4.3: Overview of included milling tools.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your CNC machine. Keep the machine clean from dust and debris, especially around the linear guides and lead screws. Periodically check all connections and fasteners to ensure they are secure.

6. TROUBLESHOOTING

If you encounter any issues with your Lunyee 3018 Pro Ultra CNC Machine, please refer to the troubleshooting section in the detailed user manual (PDF) or contact customer support. Common issues often relate to software configuration, material clamping, or tool selection.

7. SPECIFICATIONS

Attribute	Value
Manufacturer	LUNYEE
Part Number	3018 pro ultra
Item Weight	30.8 pounds
Package Dimensions	20.7 x 18.2 x 11.9 inches
Item Model Number	3018 pro ultra
Style	3018 pro ultra
Material	Aluminum

Power Source	ac/dc
Voltage	110 Volts
Wattage	500 watts
Horsepower	500 Watts
Batteries Included?	No
Batteries Required?	No
Description File	Corded electric
Date First Available	September 8, 2023

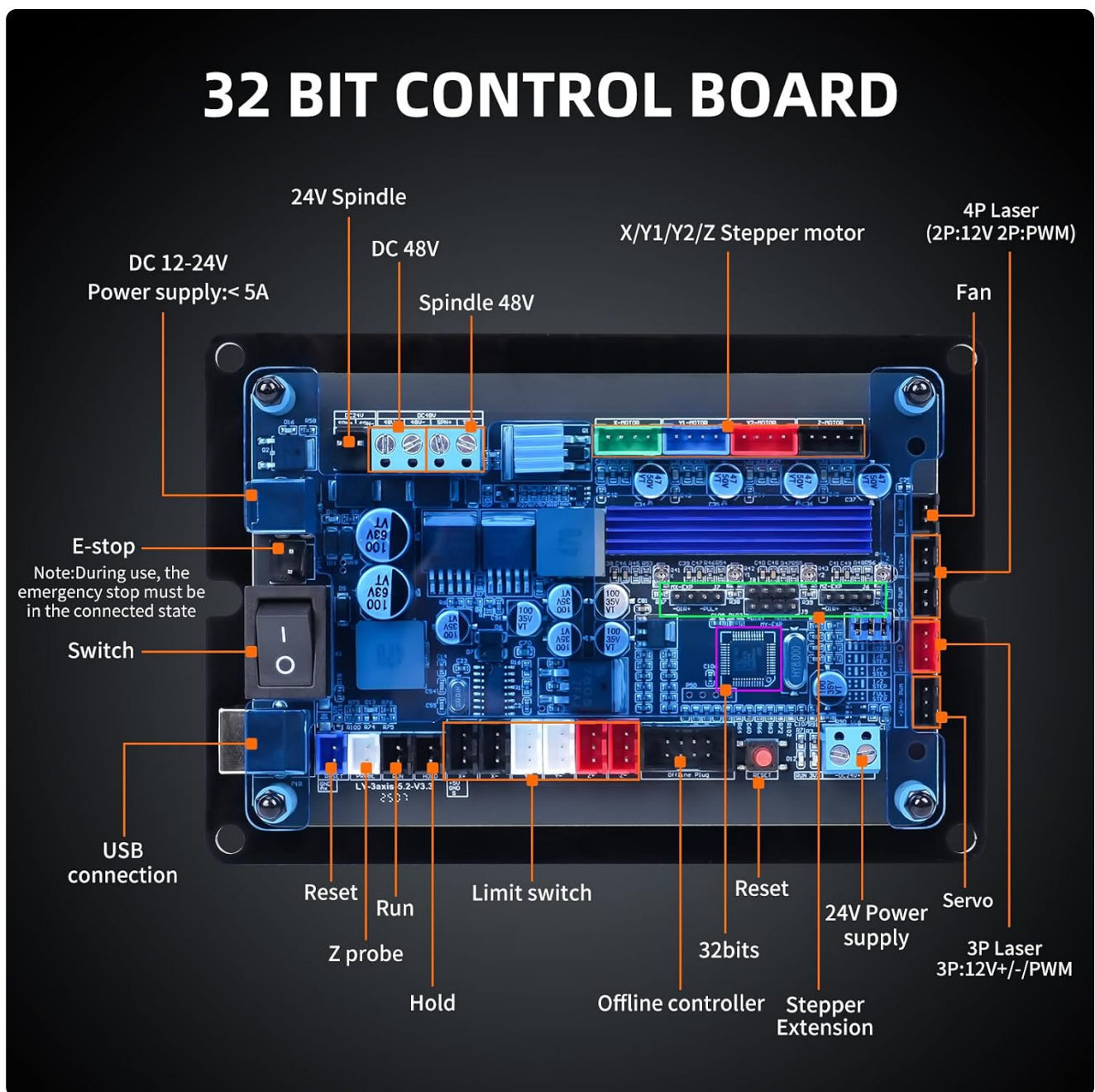


Figure 7.1: Detailed view of the 32-bit control board.

8. WARRANTY AND SUPPORT

LUNYEE is committed to providing excellent customer support. If you have any queries or require assistance, please contact the support team. They aim to respond within 24 hours.

For a complete user guide, please refer to the official PDF document:[User Guide \(PDF\)](#)

You can also visit the official LUNYEE store for more information and products:[LUNYEE Store](#)

9. ADDITIONAL PRODUCT VIEWS

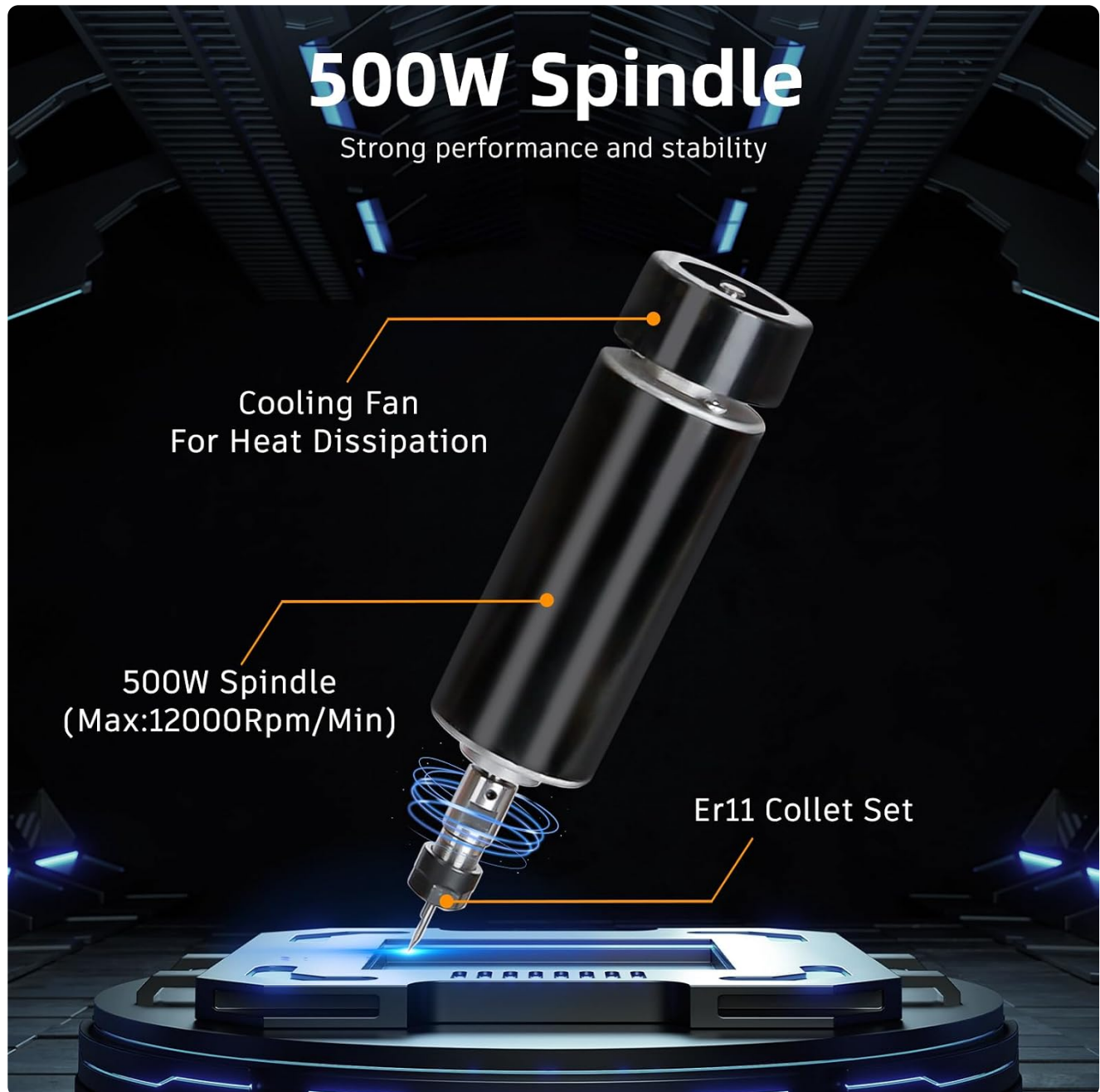


Figure 9.1: Close-up of the 500W spindle, highlighting its cooling fan and ER11 collet set.

All Metal Body

All metal frame, stronger, safer and more durable

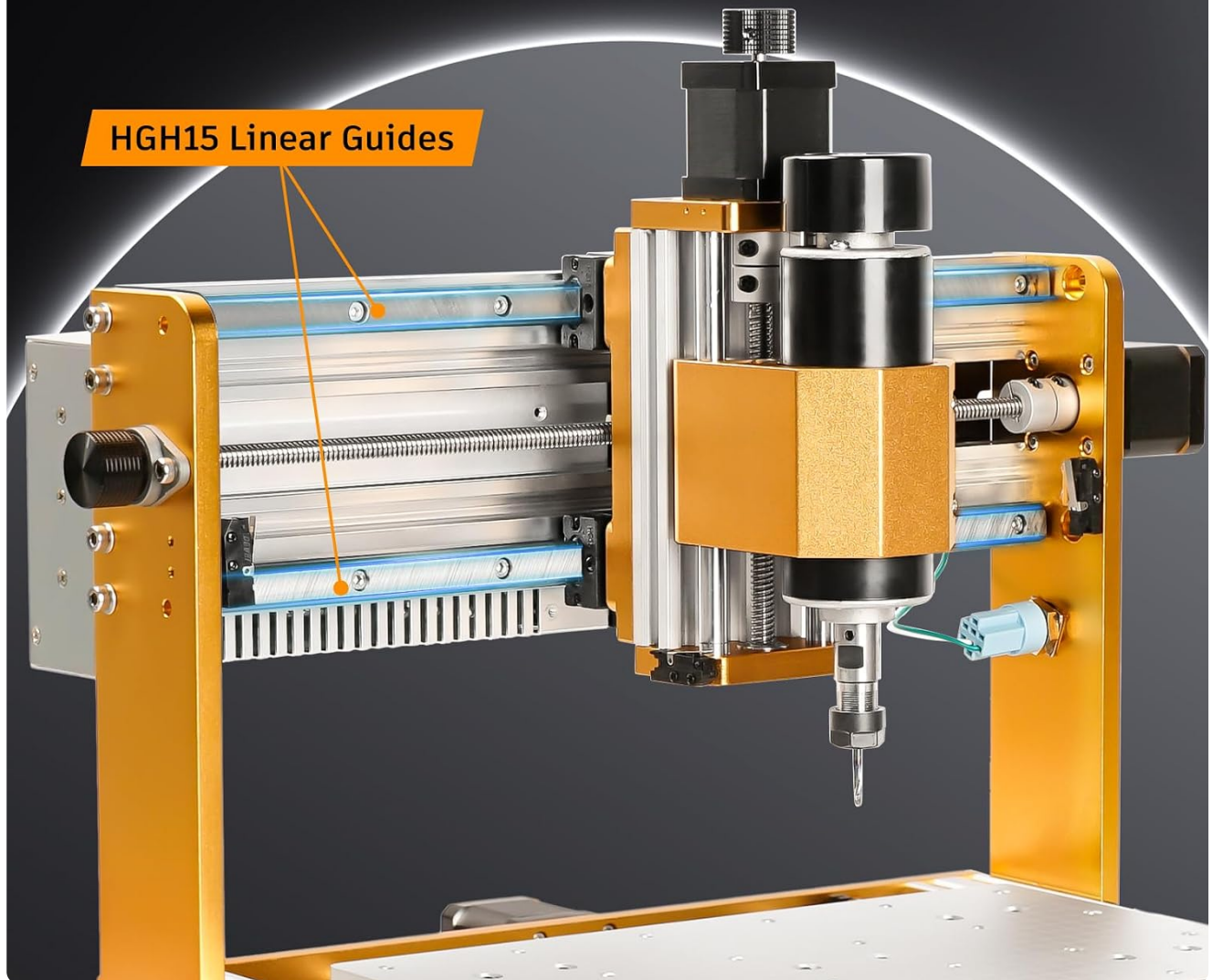


Figure 9.2: The robust all-metal body construction featuring HGH15 linear guides for enhanced stability.



Figure 9.3: Illustration of the X-axis (20x40mm) and Y-axis (40x40mm) aluminum profiles, contributing to high precision.

One-piece All-Metal Anodized Work Surface

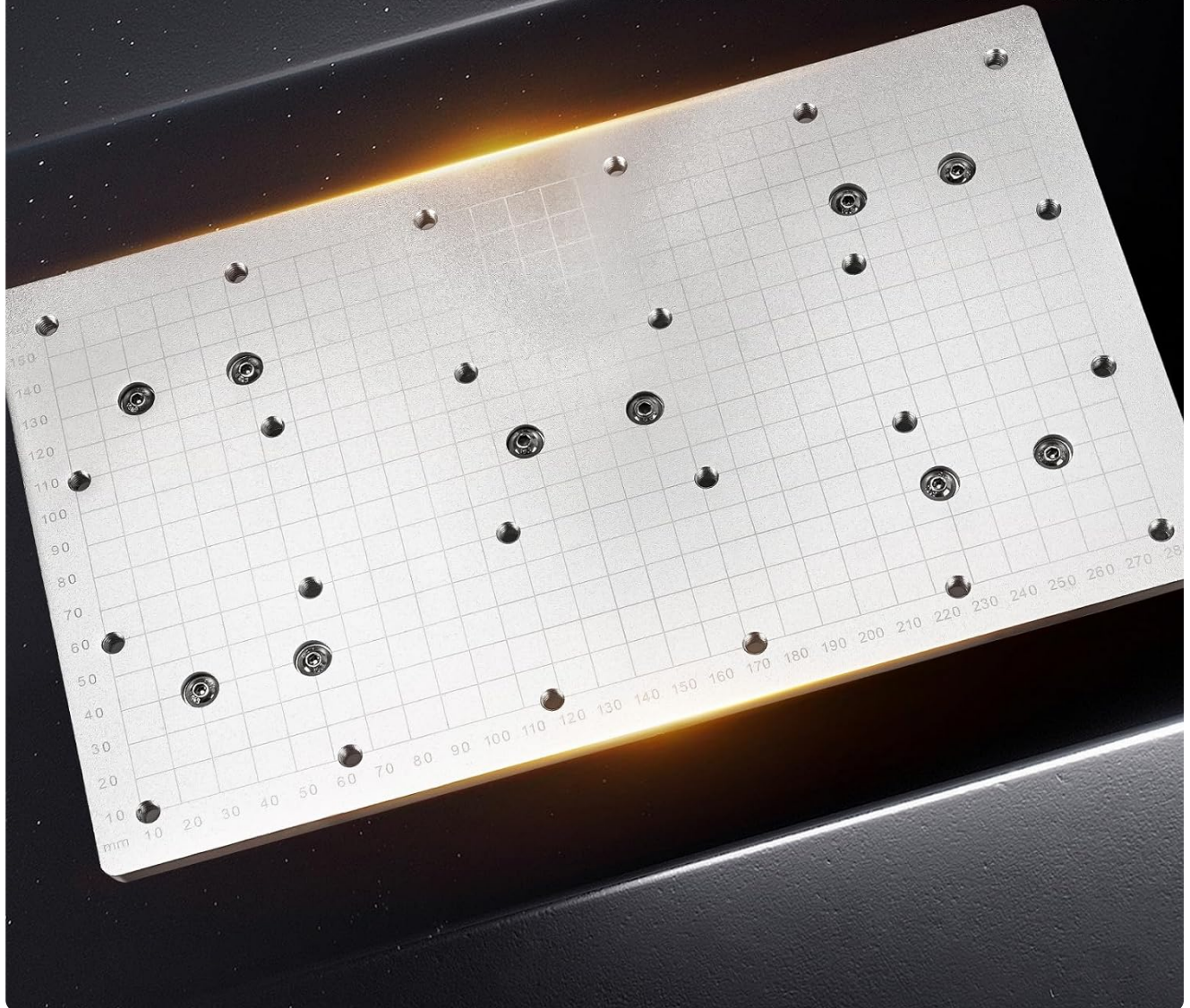
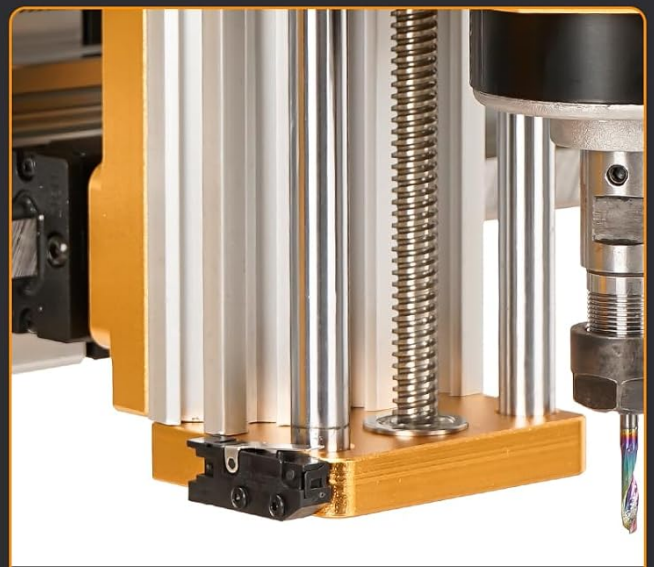


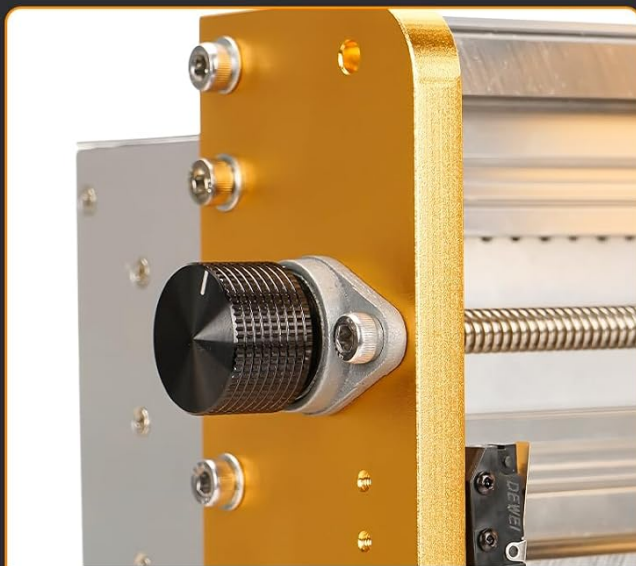
Figure 9.4: The integrated one-piece all-metal anodized work surface, featuring a grid for precise material positioning.



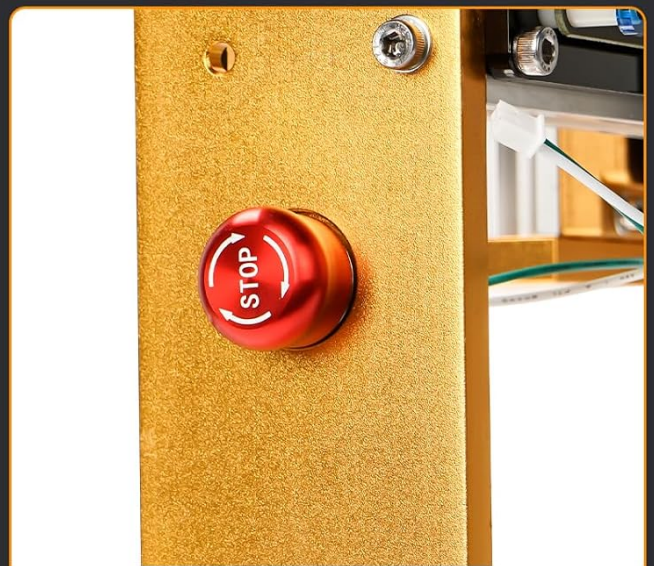
500W Spindle & ER11 Collect



X Y Z Limit Switches



Hand Knob



Emergency Stop Switches

Figure 9.5: Overview of key functional components including the spindle, limit switches, hand knob, and emergency stop.

Perfect Compatible System

- **Supported Software:** Grblcontrol(Candle),other GRBL compatible software
- **Supported System:** Windows XP/7/8/10,Mac OS(UGS)



Figure 9.6: The machine's compatibility with popular GRBL control software like Candle and UGS.

Two-in-One

Supports CNC and Laser Modes, Easy and quick to replace

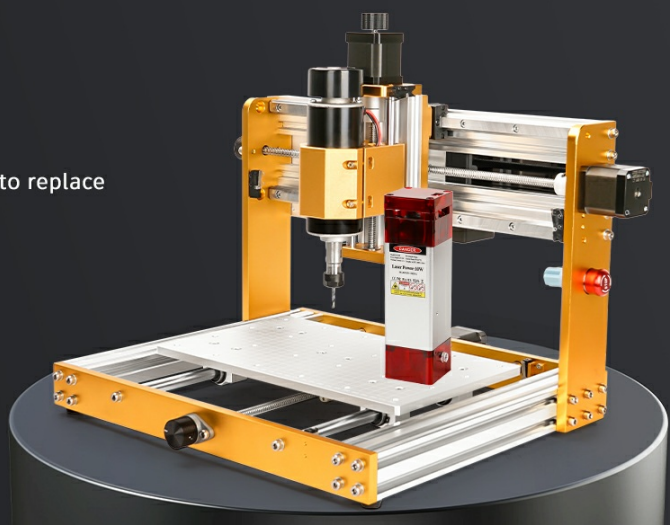
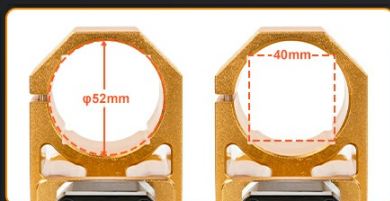


Figure 9.7: The machine's dual functionality, supporting both CNC milling and laser engraving modes.

Figure 9.8: The integrated power supply design, enhancing safety and simplifying wiring.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question