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WTTTOOLS 30W(with Battery) 100 X 100mm Lens

WTTTOOLS Fiber Laser Engraver User Manual

Model: 30W(with Battery) 100 X 100mm Lens

PRODUCT OVERVIEW

The WTTTOOLS handheld fiber laser engraver is a portable and versatile marking machine designed for engraving various materials, including metals and non-metals. It features a high-quality MAX laser source and a smart, ergonomic design for convenient operation.

Key features include:

- Output Power: 0.874mW
- Power Supply: 216wh Lithium Battery / 110/220 AC
- Marking Area: 110x110mm
- Laser Wavelength: 1064nm
- Marking Speed: <7000mm/s
- Line Width: 0.03mm
- Repeat Positioning Accuracy: 0.01mm
- Laser Level: Class 4
- Weight: Approximately 14 lbs (6.35 kg)
- Handheld design with a lightweight engraving gun head (2.2 lbs) to reduce hand fatigue.
- Dual power supply options: removable 216wh battery for cordless use or 110V/220V AC power.
- Wide application range for materials such as gold, silver, copper, steel, paper, plastic, and leather.



Figure 1: WTTTOOLS Fiber Laser Engraver with examples of engraved materials.

SAFETY INFORMATION

WARNING: This is a Class 4 laser product. Always wear appropriate laser safety glasses and follow all safety guidelines provided in this manual and local regulations. Never look directly into the laser beam or allow it to strike reflective surfaces. Ensure the engraving gun is equipped with protective shields on all sides during operation.

- Always operate the laser engraver in a well-ventilated area.
- Keep the work area clear of flammable materials.
- Ensure proper grounding of the equipment when using AC power.
- Do not attempt to modify or disassemble the laser unit.
- Keep out of reach of children and unauthorized personnel.

SETUP

Unpacking and Inspection

1. Carefully remove all components from the packaging.
2. Verify that all items listed in the packing list are present and undamaged.
3. Report any missing or damaged items to customer support immediately.

Component Identification

The main components of your WTTTOOLS Fiber Laser Engraver include:

- Main Control Unit with 8-inch color touch screen
- Handheld Engraving Gun with protective shield
- Power Cable (for AC operation)
- Removable Lithium Battery (for battery-equipped models)
- USB Cable (for data transfer, if applicable)
- Safety Glasses

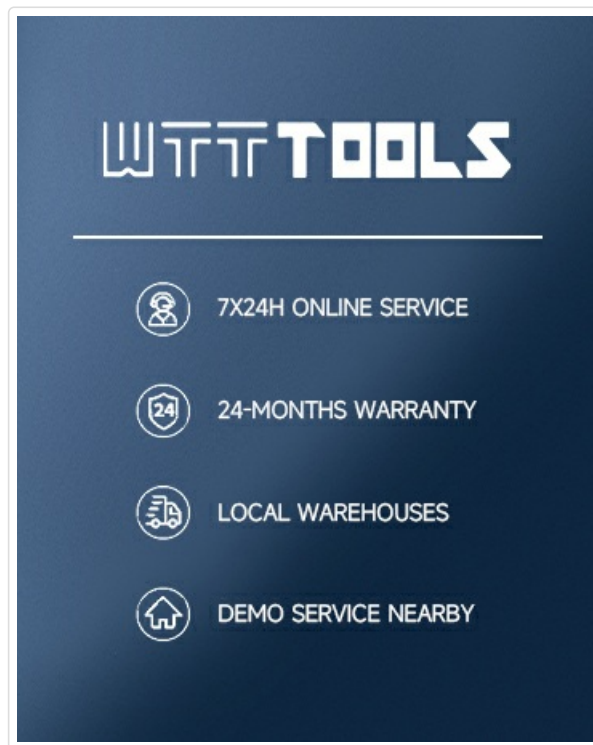


Figure 2: The compact and lightweight design of the WTTTOOLS Fiber Laser Engraver, highlighting its portability.

Power Connection

The engraver supports dual power supply:

1. **Battery Operation:** Ensure the 216wh lithium battery is fully charged. The battery can be charged while in use or separately.
2. **AC Power:** Connect the power cable to the main control unit and a compatible 110V/220V AC power outlet.



Established R&D Centers

We have numerous research labs and centers who are dedicated to advancing technologies and Upgrading products. Our extensive network of researchers enables us to provide high-quality services and cutting-edge solutions to customers.

Figure 3: Dual power supply system, allowing for both battery and AC operation.

OPERATING INSTRUCTIONS

User Interface

The engraver features an 8-inch color touch screen with a simple and easy-to-learn interface. Multiple language modes are available, including English, Japanese, Korean, Russian, and Arabic.



Figure 4: The 8-inch color touch screen provides an intuitive user interface.

Engraving Process

1. **Prepare Material:** Place the material to be engraved on a stable, flat surface.

2. **Design Setup:** Use the touch screen interface to create or load your engraving design. The system supports various file formats including BMP, DXF, HPGL, JPEG, and PLT.
3. **Positioning:** Utilize the red-light pointer for high-precision marking and accurate positioning. This feature eliminates the need for repeated focus adjustments.



Figure 5: The red-light pointer assists in precise positioning of the engraving area.

4. **Start Engraving:** Once the design is set and positioned, press the one-key trigger to begin the engraving process.

Material Compatibility

The WTTTOOLS laser marker machine can engrave a wide range of materials:

- **Metal materials:** Gold, silver, copper, steel, etc.
- **Non-metallic materials:** Paper, plastic, leather, etc.

This machine is suitable for personalized customization, trademark coding, and bar coding marking.



Figure 6: Examples of various materials successfully engraved by the machine.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your laser engraver.

- Keep the lens clean and free from dust and debris. Use a soft, lint-free cloth and lens cleaning solution.
- Periodically check all cables and connections for wear or damage.
- Ensure proper ventilation around the main control unit to prevent overheating.
- Store the engraver in a dry, dust-free environment when not in use.
- For battery models, follow battery charging and storage guidelines to maximize battery life.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Machine does not power on.	Power cable not connected; battery depleted; power switch off.	Check power connections; charge battery; ensure power switch is ON.
Laser not firing.	Safety interlock not engaged; laser enable button not pressed; error code displayed.	Ensure all safety features are correctly engaged; press laser enable; check screen for error messages and consult manual.
Engraving quality is poor.	Incorrect focus; dirty lens; incorrect power/speed settings for material.	Verify focus using red-light pointer; clean lens; adjust power and speed settings according to material type.
Software/USB issues.	Incompatible file format; USB drive not recognized.	Ensure design files are in supported formats (BMP, DXF, HPGL, JPEG, PLT); try a different USB drive or reformat it to a compatible file system (e.g., FAT32).

SPECIFICATIONS

Feature	Detail
Brand	WTTTOOLS
Model	30W(with Battery) 100 X 100mm Lens
Laser Output Power	0.874mW
Marking Range	110x110mm
Laser Level	Class 4
Laser Wavelength	1064nm
Marking Speed	<7000mm/s
Line Width	0.03mm
Repeat Positioning Accuracy	0.01mm
Power Supply	216wh Lithium Battery / 110V/220VAC
Power Consumption	145-250W
Working Temperature	0-40°C
Weight	Approx. 14 lbs (6-6.8 KG)
Material	Metal
Operation Mode	Manual



Sep.11-14th, 2023 in USA

Figure 7: Detailed product specifications table.

WARRANTY AND SUPPORT

WTTTOOLS, a subsidiary company of SFX Laser, has been manufacturing laser products since 2004. We are committed to producing quality products and ensuring customer satisfaction.

This product comes with a **1-year warranty** for the entire machine.

For any questions or problems, please contact us via Amazon. Our dedicated customer service team is available to assist you.



Figure 8: Customer support information.

Additional Support Resources

- 7x24H Online Service
- 24-Months Warranty (Note: Product description states 1 year, A+ content states 24 months. Please refer to your purchase documentation for definitive warranty terms.)
- Local Warehouses
- Demo Service Nearby



Figure 9: Overview of additional support and services.

OFFICIAL PRODUCT VIDEO

Watch the official introduction video from WTTTOOLS, a subsidiary of SFX Laser, to learn more about the company's commitment to quality and innovation in laser products.

Your browser does not support the video tag.

Video 1: Introduction of WTTTOOLS - Subsidiary Company of SFX Laser. This video provides an overview of the company's facilities, production process, and quality control measures.