

TwoTrees Laser Diode Engraver TS2 20W - 41x41cm



Features

The TwoTrees TS2 20W is a solid desktop laser engraver with a full-metal frame, modern design, and built-in safety features like a protective shield and emergency stop.

Capabilities: Equipped with a 20W output laser module, it delivers strong cutting power and precise engraving, handling wood, leather, and even stainless-steel marking.

Convenience: Supports WiFi, USB, TF card, and offline use, with air-assist compatibility and wide software support for easy operation.

Working Area: 410 × 410 mm workspace, large enough for bigger projects and batch processing.

Power: Runs on 24V / 4A DC (≈96W), ensuring stable and efficient performance.

Specifications	
Module	TwoTrees Laser Diode Engraver TS2 20W - 41x41cm
Working Area	410 × 410 mm
Laser Power	20 W (20,000 mW diode, 445 ± 5 nm)
Spot Size	0.08 × 0.08 mm, rectangular spot
Positioning Accuracy (X, Y)	0.01 mm positioning; ±0.1 mm engraving precision
Engraving Speed	Up to 12000 mm/min (≈500 mm/s)
Laser Module Features	Built in Air-Assist Input
Hight Adjustment	Height Adjustment: Auto-Focus Laser Head
Control Board	32-bit board, ESP32-D0WD-V3 with LX6 CPU for offline & app control
Connectivity	USB/Wi Fi/app/web terminal support
Supported Files	NC, DXF, BMP, JPG, PNG, G-code
Software Compatibility	LaserGRBL/LightBurn, supports Windows & macOS
Continuous Operation	Max ~6 hours recommended
Operation Conditions	5–40 °C, 20–60 % humidity
Construction	Construction: Aluminum profile + injection-molded parts
Language Support	Multi language UI, English, German, French, Russian, Portuguese, Italian, Japanese, Korean, etc.
Power Supply	24 V 4 A DC (~80 W input)
Machine Size	~735x720x250mm
Package Size	~220x735x330mm
Machine Weight	~6.5 kg

Capabilities	
Engraving	Wood, Plastic, Rubber, Leather, Textiles, Paper, Metals
Cutting	Wood, Leather, Textiles, Paper

Accessories Included

Eye Protective Glasses

SD Card with Adapter

Tool Kit

