

TwoTrees Laser Diode Engraver TTS-20 MAX - 60x60cm



Features

High-Precision Spot: Excellent spot compression for detailed engraving (0.08 mm), consistent with advanced COS diode setups

Fast & Affordable: Offers rapid engraving at high speeds—presented at a competitive price point, reflecting broader-feeling “generic” lines of Chinese diode lasers.

Material Capabilities: Designed for wood, leather, paper, sponge, plastic, bamboo, and stainless steel (mainly marking only).

Assembly & Control: Semi-assembled, plug-and-play with diverse connection options (USB, app, Wi-Fi, webpage control).

Best Practice: Many users recommend using LightBurn and adding air assist + honeycomb bed for cleaner results.

Limitations: While capable of marking coated or stainless steel, the max won't engrave raw metal deeply—diode lasers' wavelength limits apply.

Specifications	
Module	TwoTrees Laser Diode Engraver TTS-20 MAX - 60x60cm
Working Area	600 × 600 mm
Laser Power	20 W compressed spot (COS technology), wavelength 450 ± 5 nm, output ~20 W
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 15000 mm/min (≈500 mm/s)
Laser Module Features	Built in Air-Assist Input
Height Adjustment	Manual lifting module
Control Board	32-bit mainboard
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 (~96 W input)
Machine Size	787 × 770 × 124 mm
Package Size	160x830x190 mm
Machine Weight	~3.6 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

