

Compact Metal Laser Cutting and Engraving Machine

This YAG metal laser machine offers 500W laser power. It cuts thicknesses from 0.1mm to 6mm with a maximum speed of 35mm/s.



Overview

Compact Precision Metal Processing

This YAG metal laser cutting and engraving machine is designed for precision applications in microelectronics, medical devices, and custom metal fabrication. Capable of processing a wide array of metals including stainless steel, copper, aluminum, and titanium alloys, it offers high stability for 24-hour continuous operation. The system features a compact 500mm x 500mm processing area, making it an ideal choice for prototyping and small-scale production environments.

Technical Specifications

Machine Performance Metrics

500 W

Output Power

1064 nm

Wavelength

35 mm/s

Max Cutting Speed

400 kg

Weight

Process Capabilities

Parameter	Value
Processing Scale	500mm x 500mm
Cutting Thickness	0.1mm - 6.0mm
Min. Line Width	0.15mm
Pulse Frequency	1 - 300 HZ
Geometric Accuracy	$d \pm 0.05 \text{ mm} / 1000 \text{ mm}$

Compatible Materials

Stainless Steel, Mild Steel, Carbon Steel, Copper, Aluminum, Alloy Steel, Spring Steel, Galvanized Plate, Titanium Alloy

Operational Requirements

Utility Requirements

- Electrical: 380V / 50HZ / 100A
- Cooling: 5P water-cooling system

Support & Warranty

Comprehensive Support

The machine includes a one-year warranty and lifetime maintenance support. Technical assistance is available 24/7 via online and telephone channels, with on-site technician deployment options provided when necessary to ensure uninterrupted production.