

Fiber Laser Cutting Machine for Metal Fabrication

This fiber laser cutting machine is designed for high-precision cutting of metal sheets. It features a high-rigidity machine bed and an imported fiber laser for stable performance and long service life.



ADDITIONAL IMAGES



Overview

High-Performance Metal Fabrication Solution

This fiber laser cutting machine is engineered for high-precision processing of carbon steel and stainless steel. It features a high-rigidity machine tool bed treated with a standard annealing process to ensure long-term accuracy and stability. With an electro-optical conversion efficiency of up to 30%, it offers a low-cost, energy-efficient alternative to traditional YAG and CO2 laser systems.

Performance Metrics

Key Performance Indicators

100000 Hours
Laser Service Life

30 %
Conversion Efficiency

3 x
Thin Plate Speed vs YAG

Laser Technology

Laser Source Efficiency Comparison

Laser Source Model	Efficiency (%)
Fiber Laser	30%
Disc Laser	15%
CO2 Laser	10%

Machine Construction

Bed Construction	High-rigidity bed with high-temperature numerical control electric furnace annealing treatment
Drive System	Imported guide-driven original and servo motor

Operational Advantages

Core Features

- Maintenance-free fiber laser source
- No reflection lens or light path adjustment required
- Instant cutting of complex graphics and text
- Smooth, flat cutting edges with minimal deformation
- Gas-free laser production (supports air cutting)
- Low power consumption (1/3 to 1/5 of VAG power)

Environmental Impact

Yes

Material Compatibility

Compatible Materials

Carbon Steel, Stainless Steel, Thin Metal Plates