

CNC Fiber Laser Cutting Machine for Metal

This fiber laser cutting machine excels in both plane and bevel cutting, delivering neat and smooth edges. It is suitable for high-precision metal plate cutting and, with an arm, can perform three-dimensional cutting, replacing traditional five-axis lasers.



ADDITIONAL IMAGES



Overview



The machine features a robust construction and advanced CNC control system for high-performance metal fabrication.

High-Precision CNC Fiber Laser Cutting

This CNC Fiber Laser Cutting Machine is engineered for high-precision metal plate processing, offering both plane and bevel cutting capabilities. It serves as an energy-saving alternative to CO2 lasers, featuring a high photoelectric conversion rate and reduced gas consumption. With its advanced three-dimensional cutting potential and narrow, parallel kerf width, it delivers smooth, finished edges that often require no secondary mechanical processing.

Performance Highlights

Key Performance Metrics

0.05 mm

Dimensional Accuracy

2000 W

Max Power Option

Cutting Capabilities

Laser Power vs. Material Thickness

Power Source	Carbon Steel (Max)	Stainless Steel (Max)	Aluminum (Max)	Brass (Max)
500W	8mm	4mm	2mm	2mm
700W	10mm	6mm	3mm	3mm

Compatible Materials

Stainless Steel, Mild Steel, Aluminum, Brass, Carbon Steel

Technical Advantages

Efficiency & Quality Benefits

- High photoelectric conversion rate for energy saving
- Minimal heat-affected zone to prevent workpiece deformation
- Narrow and parallel cutting knife edges
- Reduced space and gas consumption compared to CO2 lasers
- Capable of three-dimensional cutting with arm integration

Technical Specifications



Precision-engineered for cutting stainless steel, mild steel, and aluminum with high efficiency.

Available Power Options

1500W • 2000W

Positioning Accuracy

0.05 mm

Control System

Advanced CNC Control System