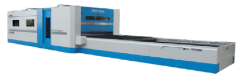
High Power Fiber Laser Metal Cutting Machine

This fiber laser cutting machine uses a fiber laser to produce a high-energy density laser beam. The beam melts and sublimates the workpiece surface, achieving automatic cutting through a CNC mechanical system.

ADDITIONAL IMAGES



Overview

High-Performance Fiber Laser Cutting

This high-power fiber laser cutting machine utilizes advanced optical focusing technology to deliver smooth, precise cuts on metal plates. Designed for industrial efficiency, it features a gantry-type structure with an aviation-grade aluminum alloy beam for superior stability and speed. With dual exchange working tables and high photoelectric conversion efficiency, it is an ideal solution for heavy-duty metal processing across sectors like aerospace, automotive, and engineering.

Technical Specifications

Laser Power Range

2000 W	12000 W
Minimum Power	Maximum Power

Machine Model	FPED2060
Cutting Thickness	0.5 - 30mm
Working Area	2000 x 6000mm

Performance Metrics

Maximum Speed	120 m/min
Max Acceleration	1.5 G
Repeat Positioning Accuracy	±0.02mm

Construction & Design

Frame Structure	Gantry type, welded rectangular tubes with internal stiffeners
Beam Material	6061 T6 Aviation Aluminum Alloy
Table Weight	4500 kg
Rectangular Pipe Wall Thickness	10 mm

Electrical Requirements

Voltage and Frequency	380V 50Hz/60Hz

Features

Key Features	Exchange Working Tables, Aviation Aluminum Beam, High Photoelectric Efficiency, Energy Saving, Gantry Structure

Industries

Suitable Industries

- Aerospace
- Automobile
- Electrical Equipment
- Shipbuilding
- Elevator Manufacturing
- Household Appliances
- Decoration & Advertising