

Fiber Laser Cutting Machine

This fiber laser cutting machine is designed for industrial applications, delivering precise cuts on materials like steel, aluminum, and stainless steel. It features a robust frame, an advanced control system, and a high-power fiber laser source for efficient and accurate cutting.



ADDITIONAL IMAGES



Overview

High-Performance Fiber Laser Cutting System

This industrial fiber laser cutting machine is engineered for high-precision sheet metal processing, featuring a robust gantry structure and advanced CNC control for 24/7 continuous operation. It combines high-speed dual gear rack transmission with a specialized fiber laser source to deliver clean, accurate cuts on materials like carbon steel and stainless steel. Designed with operator efficiency in mind, the system includes automated material handling, pneumatic clamping, and a comprehensive safety enclosure.

Performance Metrics

Cutting Capabilities

| | | |
|------------------------------|--|--|
| 1000 W Laser Power | 12 mm Max Carbon Steel Thickness | 6 mm Max Stainless Steel Thickness |
|------------------------------|--|--|

Precision Specifications

| Parameter | Value |
|--------------------|------------|
| Axial Accuracy | ±0.05 mm/m |
| Repeat Accuracy | ±0.03 mm/m |
| Min Beam Width | d0.125mm |
| Max Combined Speed | 98 m/min |

Technical Specifications

Dimensions & Weight

- Work Area: 1500mm x 3000mm
- Outline Size: 4400mm x 2450mm x 1750mm
- Machine Weight: 4500kg

Power Supply

380V / 50Hz, Three-phase five-line

Features

Safety & Environment

Enclosed Design • Safe Guard Rail • Laser Environment Control • Air Dryer System

System Highlights

Continuous 24h Operation, Pneumatic Clamping, Auto Oil Filling, Dust Extraction Unit, Dual Temp Water Chiller, Red Light Positioning