

300W Fiber Laser Sheet Metal Cutter

This fiber laser cutting machine is CE certified. It cuts sheet metal below 3mm with a maximum speed of 10m/min across a 3000mmx1500mm area.



Overview

High-Precision Fiber Laser Cutting

This advanced fiber laser cutting machine integrates optical, mechanical, and electrical systems to provide efficient sheet metal processing. Designed for high-speed and high-precision tasks, it utilizes a semiconductor-pumped continuous ytterbium-doped fiber laser to deliver exceptional beam quality and focusing performance. It is an ideal solution for industries such as hardware, precision machinery, automotive parts, and jewelry manufacturing.

Performance Metrics

Key Performance Metrics

300 W

Laser Power

10 m/min

Max Cutting Speed

0.12 mm

Min Line Width

100000 hours

Pump Source Lifetime

Technical Specifications

Machine Dimensions	3750mm x 2280mm x 1680mm
Machine Weight	3000 kg
Max Cutting Range	3000mm x 1500mm
Cutting Depth	0.2 - 3mm
Power Requirements	380V / 50HZ / 12KVA

Laser System

Laser Medium	Semiconductor pumped continuous yb-doped fiber
Laser Wavelength	1070 nm
Electro-optical Efficiency	>25%
Beam Quality (M2)	<1.1

Operational Features

Cooling Method	Air Cooling
Suitable Materials	Stainless Steel, Alloy Steel, Copper, Titanium
Operating Temperature	5 - 35 °C
Continuous Operation	Yes