



## Precision Fiber Laser Cutting Machine

AF-1390 Series

SAFETY  
LEVEL

AESTHETICS

COSTING

- ◆ Excellent three-dimensional machine bed structure, strict heat treatment technology and precision processing level, ensure the high-performance machining equipment features.
- ◆ Auxiliary low gas pressure alarm function, provide real-time pressure detection, abnormal information report to ensure the laser cutting effect.
- ◆ The new security tracking module, in the cutting process, always maintains the distance between the laser head and the materials, reduce the risk of collision, to ensure cutting efficiency.
- ◆ Single-phase power supply can ensure the normal operation of the laser machine. This function makes it more convenient for the machine to connect the power supply and can work in various places.
- ◆ Automatically monitor the working range of crossbeam and cutting parts to keep them in the machining range.
- ◆ New drawer-type worktable is convenient for loading and unloading, greatly reducing the machine floor area, effectively improve the space utilization.
- ◆ Intelligent layout of graphics cutting, support multi-graphics input, automatically optimize the cutting order, intelligent edge search, automatic positioning.
- ◆ Automatic lubrication system provides the equipment with regular and quantitative lubricating oil to ensure the normal and high-speed operation of the laser cutter and has the function of abnormal alarm and liquid level alarm.
- ◆ All-around protection design, sealed operation space, completely shield smoke and laser radiation, minimize pollution and ensure safety.

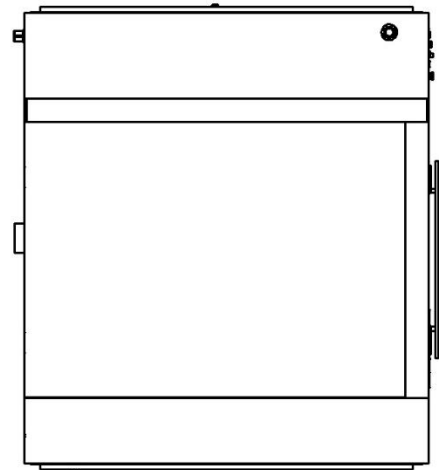
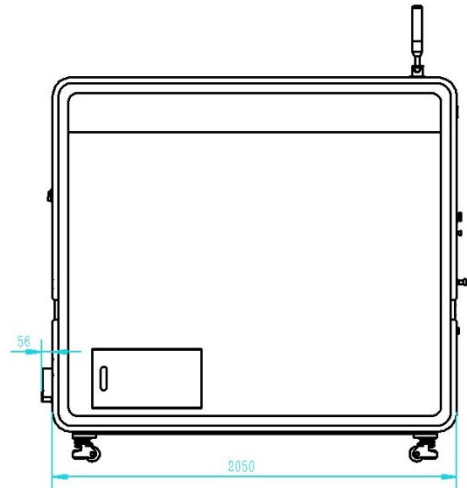
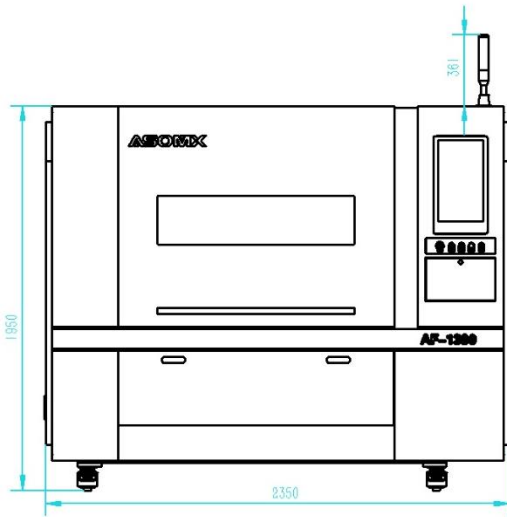
## Components



## Specifications

Model No.	AF-1390 Series
Laser Power	1000W/1500W/2000W/3000W
Laser Wavelength	1080±10nm
Laser Type	Single-Core Junction Semiconductor Module
Cutting Head	Swiss Raytools / German Precitec
Working Range	1300mm*900mm
Optional Range	600mm*600mm
Min. Line Width	≤0.1mm
Worktable Max. Load	250kg
Max. Acceleration	0.8G
Max. Moving Speed	80m/min
Control System	Cypcut System
Positioning Accuracy	±0.01mm
Repeatability Accuracy	±0.02mm
Cooling Type	Industrial Circulating Water Cooling
Graphic Format Supported	DST, PLT, BMP, DXF, DWG, AI, JPG, DXP, PGN, TIF, LAS, etc.
Compatible Software	CORELDRAW, PHOTOSHOP, AUTOCAD, ARTCUT, etc.
Electricity Supply	110V/220V±10% 50/60Hz
Unit Power	12kw/13.7kw/15.6kw/26kw
Auxiliary Gas	Compressed Air / Nitrogen / Oxygen
Operating Temperature	0°C-45°C
Working Humidity	45%-95% no condensed water
Laser Module Life	100000hours
Gross Weight	1500kg

# Layout



# Configurations



Cast Aluminum Beam



Welding Structure Bed



Yaskawa Servo Motor



IPG/Raycus Resonator



Hiwin Guide Rail



YYC Rack Pinion



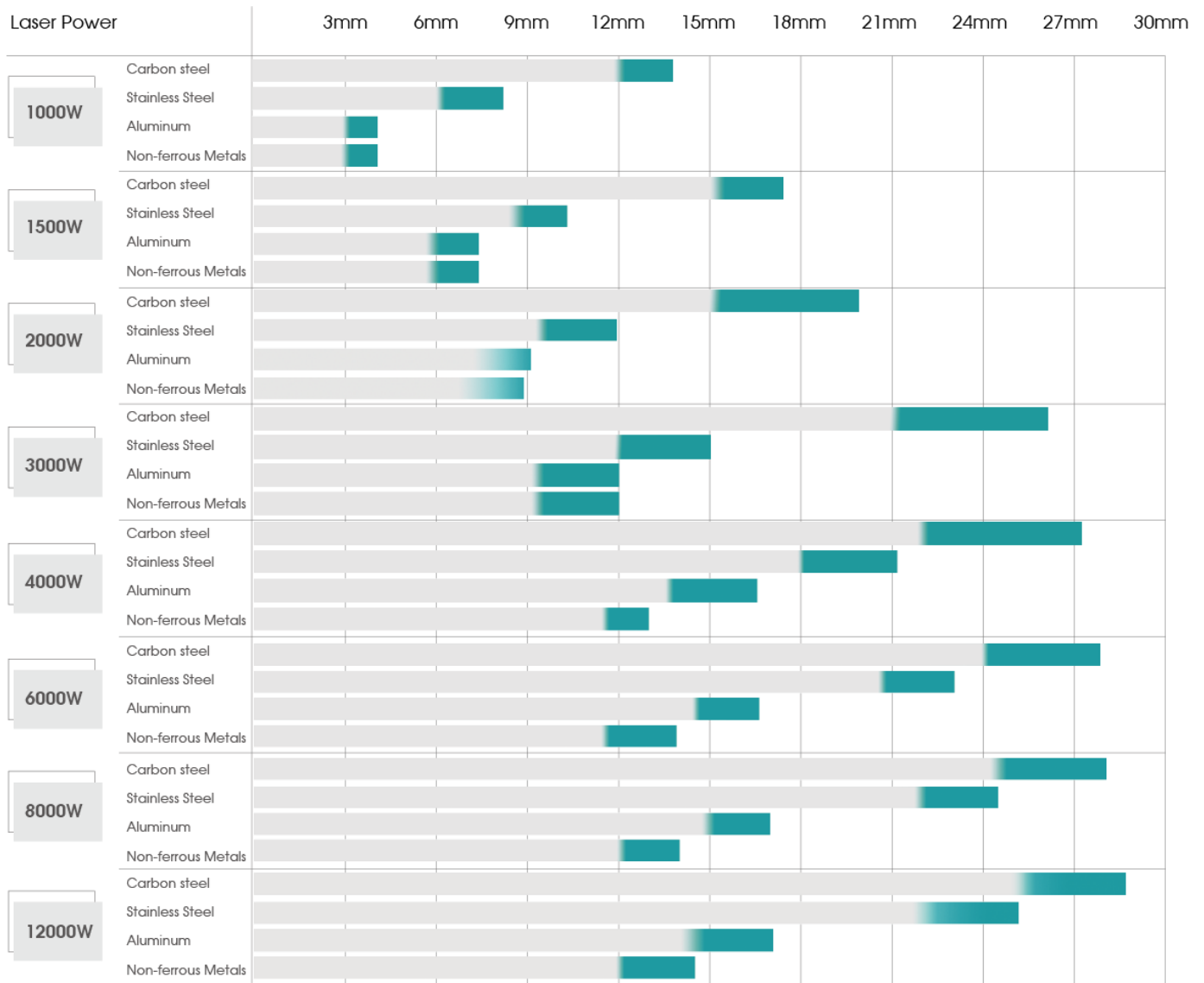
Precitec Cutting Head



MotoReducer

# Parameters

Material thickness



 Max. cutting thickness  
(do not suggest to cut for a long time)

# Samples

