

High Power Fiber Laser Cutting Machine

AF-P Series

SAFETY
LEVEL

AESTHETICS

COSTING

- ◆ Stable and rigid bed adopts carbon structure steel plate welding, stagger casing construction, avoids welding stress deformation.
- ◆ High-low switching platform, the switching cycle is only 15 seconds, two work tables move independently and do not interfere with each other.
- ◆ Yaskawa motor and drive systems offer customers faster revs and better stability.
- ◆ Automatically adjust the focal length according to the thickness of the plate, which can read system storage parameters automatically and save time and manpower.
- ◆ Independent electric cabinet design, enables the equipment to operate more stably.
- ◆ The rack-and-pinion transmission system has better ink viscosity and higher precision, which can shorten feeding time and improve operating efficiency.
- ◆ A high-resolution camera is installed inside the machine to monitor the operation inside the protective cover in real-time and to capture any possible problems.
- ◆ Cast aluminum beam made of 10 tons of steel die is more rigid and weighs 1/2 less than conventional welded gantry frames.
- ◆ Fully enclosed protection design, equipped with optical fiber protection glass, improve the safety level of operators.

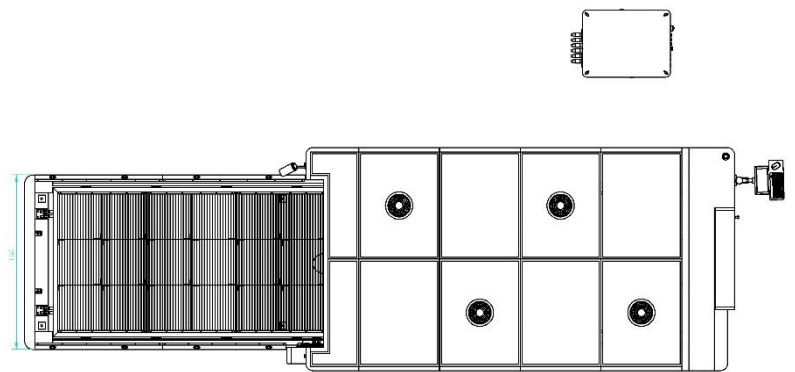
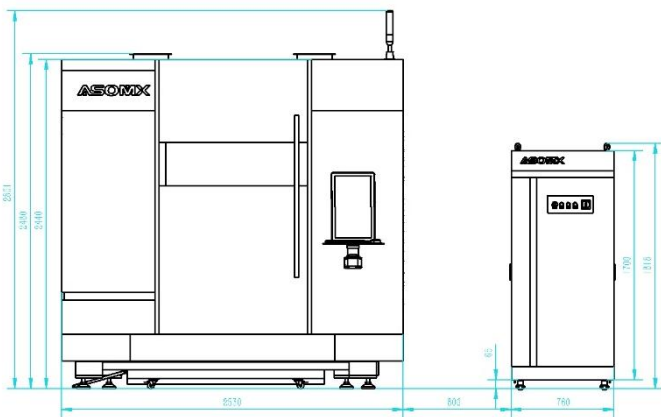
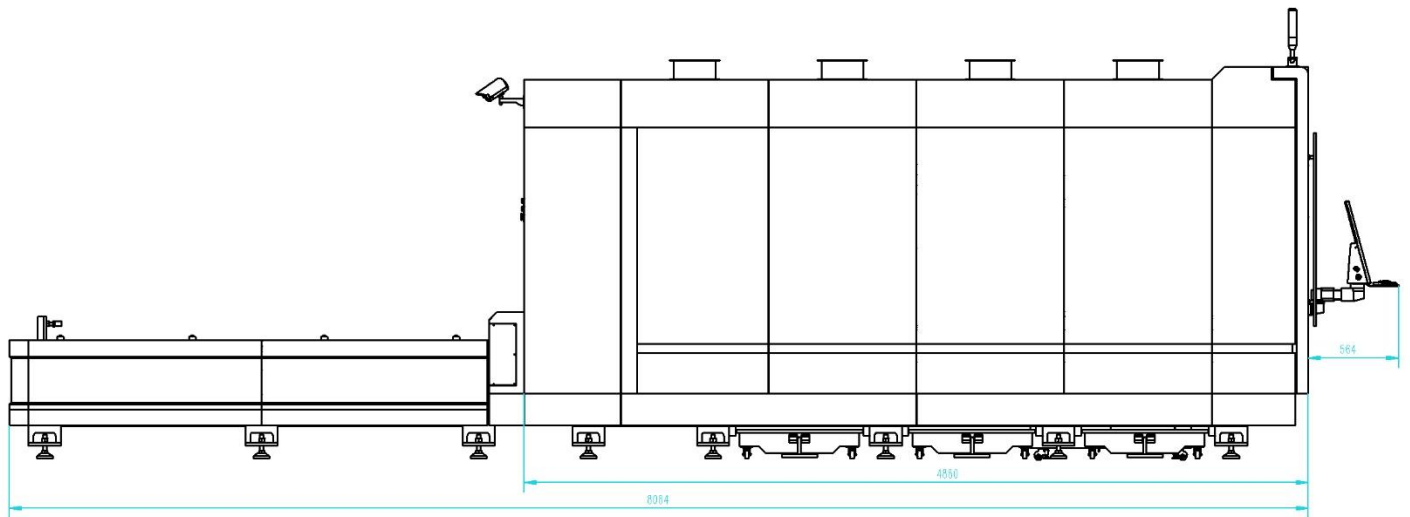
Components



Specifications

Model No.	AF-P Series
Laser Power	1000W - 12000W
Laser Wavelength	1080±10nm
Laser Type	Single-Core Junction Semiconductor Module
Cutting Head	Swiss Raytools / German Precitec
Working Range	1500mm*3000mm
Optional Range	2000mm*4000mm / 2000mm*6000mm / 2500mm*6000mm
Min. Line Width	≤0.1mm
Worktable Max. Load	1000kg
Max. Acceleration	1.5G
Max. Moving Speed	150m/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	220V/380V±10% 50/60Hz
Unit Power	15.6kw/18.1kw/22.8kw/25.8kw/29.1kw/37kw/45kw/61kw
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	8600kg

Layout



Configurations



Cast Aluminum Beam



Plate Welding Bed



Yaskawa Servo Motor



IPG/Raycus Resonator



Hiwin Guide Rail



YYC Rack Pinion



Precitec Cutting Head



MotoReducer

Parameters

Material thickness

Laser Power		3mm	6mm	9mm	12mm	15mm	18mm	21mm	24mm	27mm	30mm
1000W	Carbon steel										
	Stainless Steel										
	Aluminum										
	Non-ferrous Metals										
1500W	Carbon steel										
	Stainless Steel										
	Aluminum										
	Non-ferrous Metals										
2000W	Carbon steel										
	Stainless Steel										
	Aluminum										
	Non-ferrous Metals										
3000W	Carbon steel										
	Stainless Steel										
	Aluminum										
	Non-ferrous Metals										
4000W	Carbon steel										
	Stainless Steel										
	Aluminum										
	Non-ferrous Metals										
6000W	Carbon steel										
	Stainless Steel										
	Aluminum										
	Non-ferrous Metals										
8000W	Carbon steel										
	Stainless Steel										
	Aluminum										
	Non-ferrous Metals										
12000W	Carbon steel										
	Stainless Steel										
	Aluminum										
	Non-ferrous Metals										

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

Samples

