

Exchangeable Table Plate and Tube Laser Cutter

AF-S Series

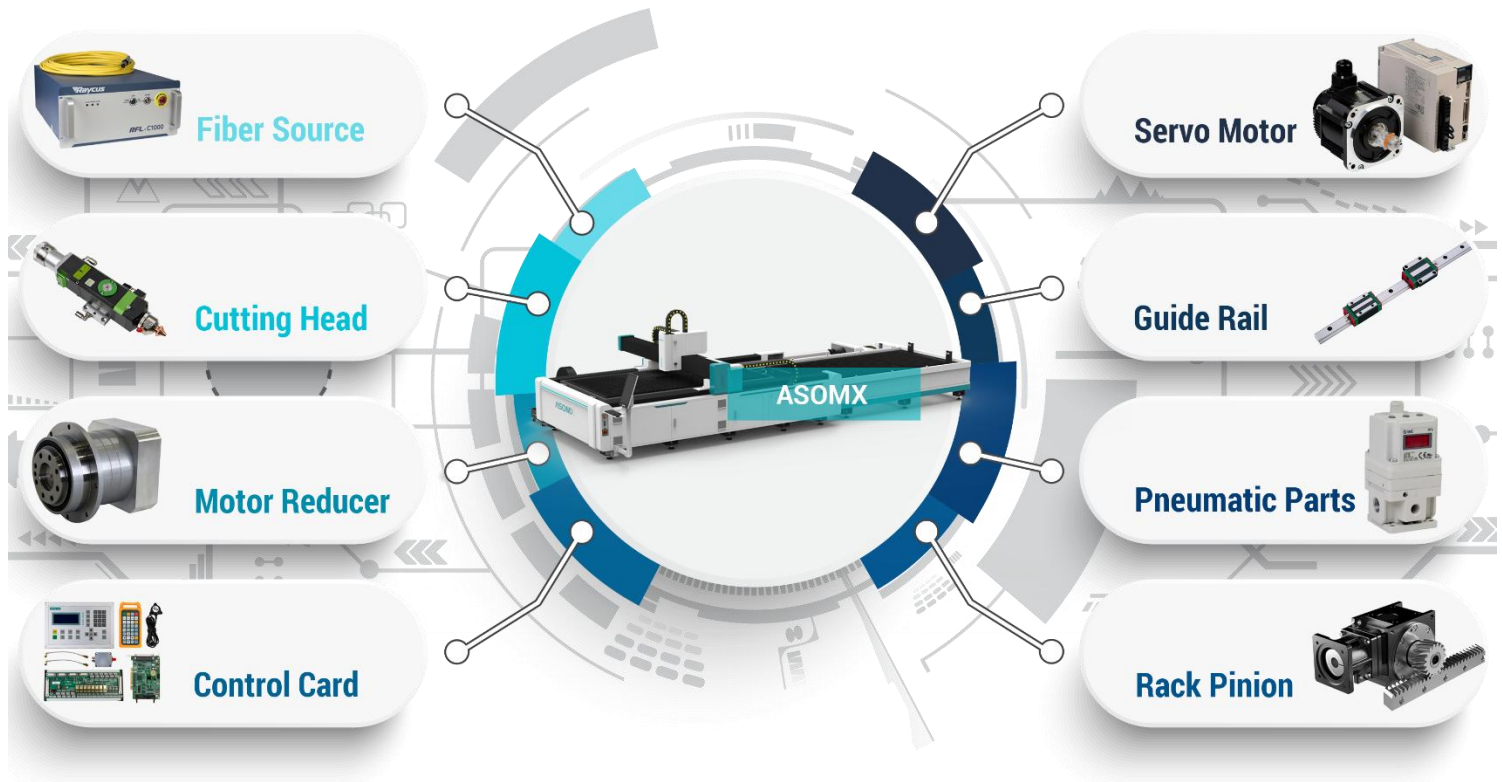
SAFETY
LEVEL

AESTHETICS

COSTING

- ◆ The machine bed is heated to 600 degrees and then cooled in the furnace for 24 hours.
- ◆ Upper and lower exchangeable worktable, shortens the standby time, the drawer type material collection device makes the collection more convenient.
- ◆ 360-degree radar system will predict and detect any obstacles, making the Z-axis high-speed to immediately avoid colliding obstacles.
- ◆ The rack and pinion drive system has better rigidity and higher precision saves feeding time and makes the operation more efficient.
- ◆ Wireless remote control laser cutter, one-handed operation, magnetic design can be adsorbed on the machine body, available at all times.
- ◆ Aluminum alloy beam can improve the running speed of the equipment, improve the processing efficiency and ensure the processing quality.
- ◆ Automatic edge tracking for both sheet and tube applications. By using a new method of graphics rendering and display, the pipe parts can be displayed both in-plane and in three dimensions.
- ◆ Non-destructive clamping pipe, fast automatic centering clamping pipe, more stable performance.
- ◆ Self-centering pneumatic chuck, gear transmission mode, high transmission efficiency, long service life, high reliability.

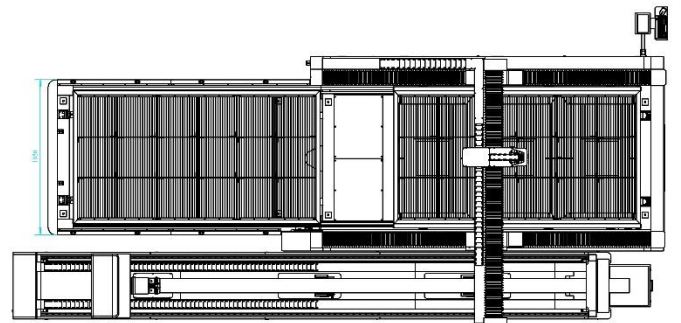
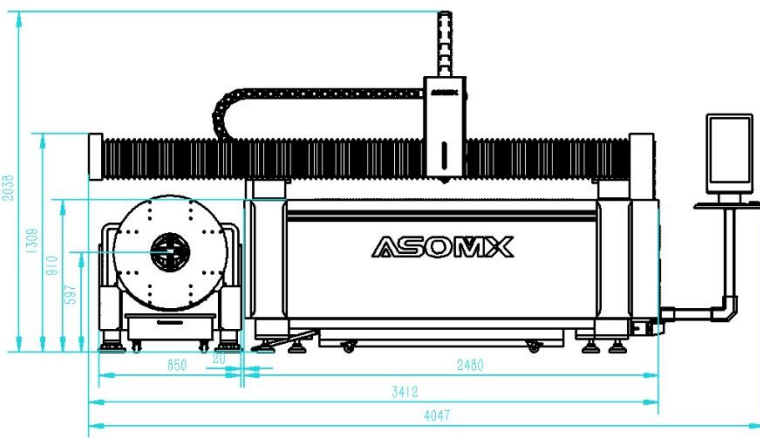
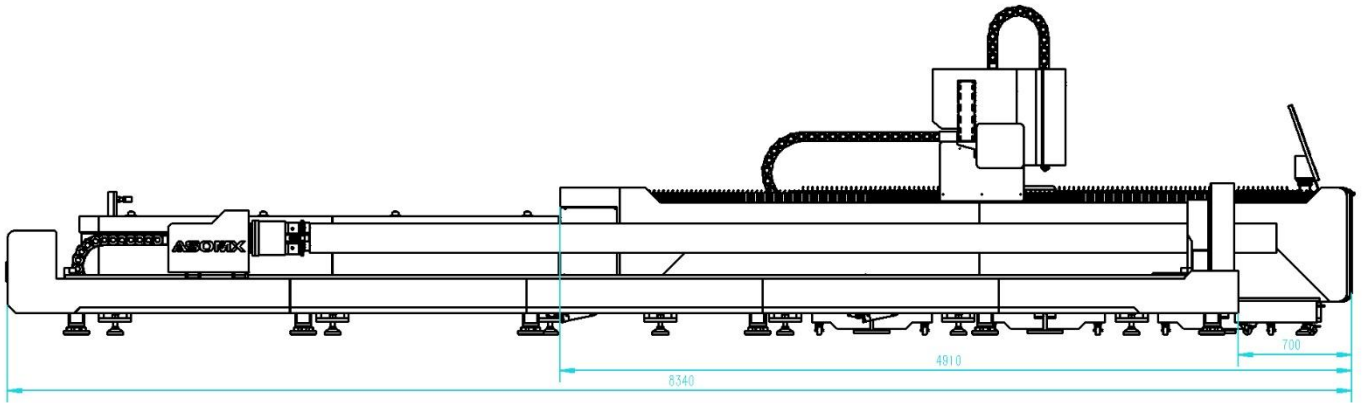
Components



Specifications

Model No.	AF-S Series
Laser Power	1000W - 8000W
Laser Wavelength	1080±10nm
Laser Type	Single-Core Junction Semiconductor Module
Cutting Head	Swiss Raytools / German Precitec
Working Range	1500mm*3000mm
Optional Range	1500mm*4500mm / 2000mm*4000mm / 2000mm*6000mm
Min. Line Width	≤0.1mm
Worktable Max. Load	1000kg
Max. Acceleration	1.5G
Max. Moving Speed	120m/min
Control System	Cypcut System / Cypcube 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	19.3kw/21.8kw/26.5kw/29.6kw/33.4kw/41.4kw/52kw
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	7500kg

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

