

Open-Type Fiber Laser Cutting Machine

AF-N Series

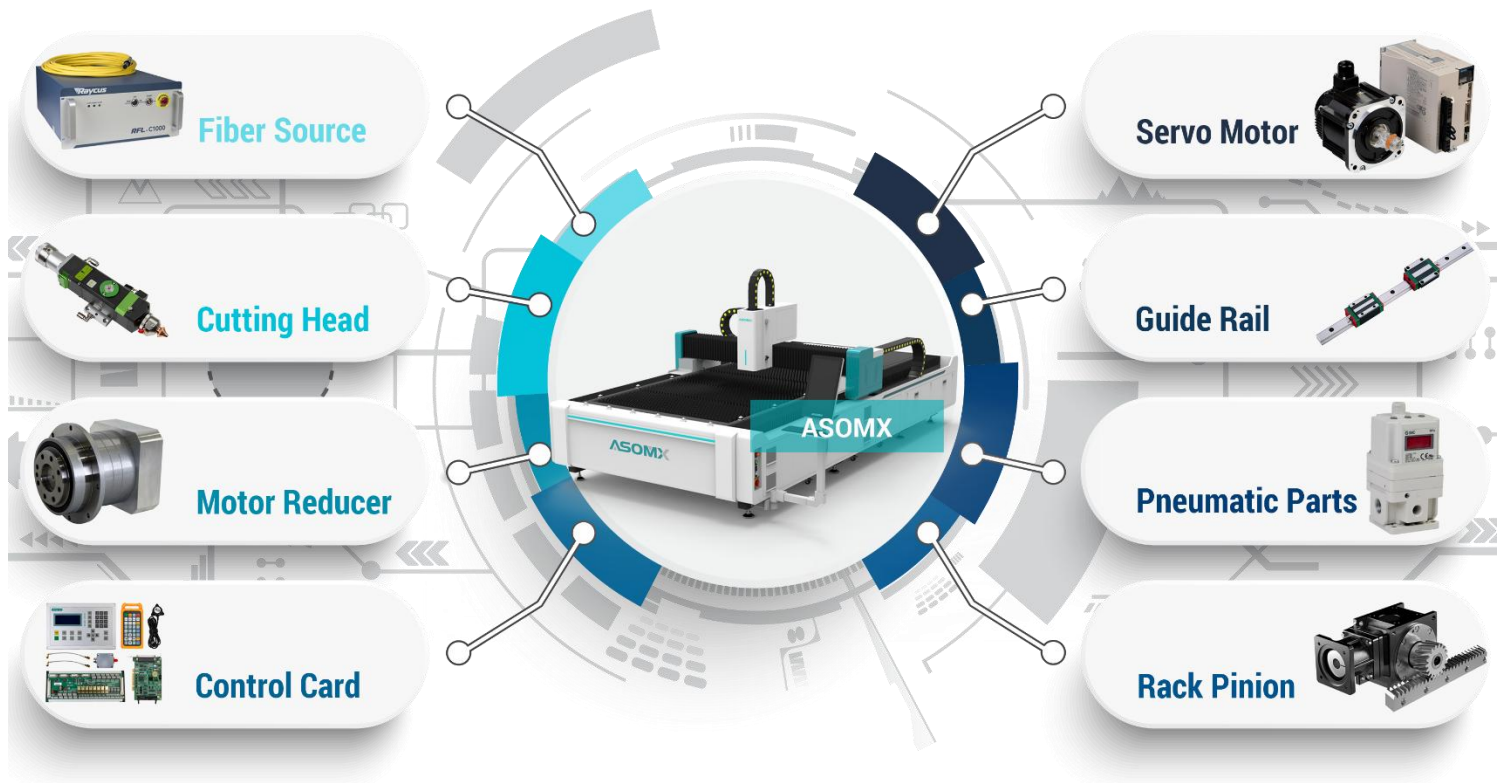
SAFETY
LEVEL

AESTHETICS

COSTING

- ◆ European standard design, every detail is perfect, independent control cabinet, suspension lamp design, stainless steel edge.
- ◆ 600 degrees heat treatment, cooling in the furnace for 24 hours, after the completion of annealing treatment, the use of gantry milling processing to improve accuracy.
- ◆ Optical fiber transmission, no need to adjust the laser path.
- ◆ Automatically adjust the focal length according to the thickness of the plate, which can read system storage parameters automatically and save time and manpower.
- ◆ Heavy-duty gantry structure to ensure the stability of machine operation, with good impact resistance and wear resistance.
- ◆ Imported rack and pinion for high-speed movement and greatly reducing the driving horsepower required for the laser cutting machine.
- ◆ The machine operation interface optimizes the function and the algorithm to make the system more stable and efficient.
- ◆ Aluminum alloy beam is good for high-speed cutting based on high precision and improve the running speed of the equipment, improve the processing efficiency and ensure the processing quality.
- ◆ Perfect cooling system, lubrication system and dust removal system to ensure stable, efficient and lasting machine operation.

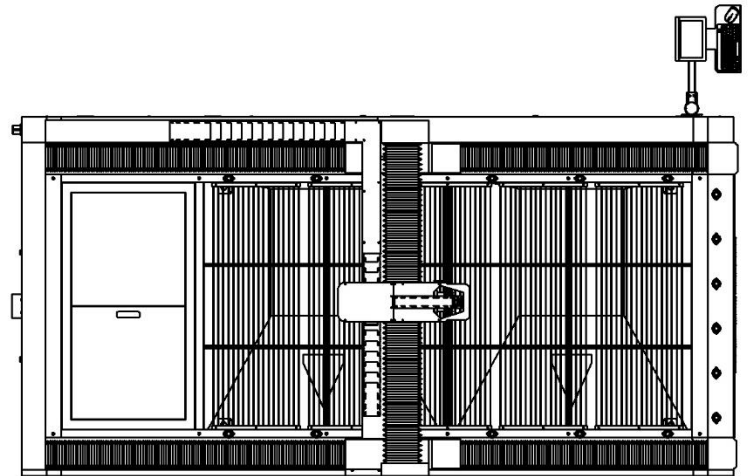
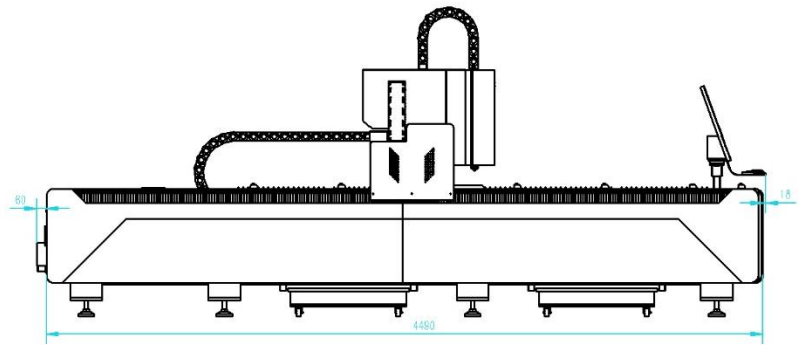
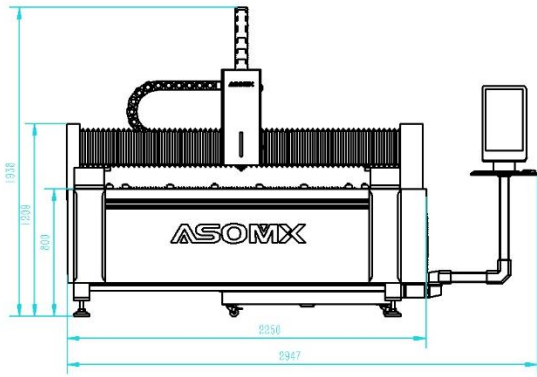
Components



Specifications

Model No.	AF-N 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	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
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	12.6kw/15.1kw/19.8kw/22.8kw
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	4500kg

Layout



Configurations



Cast Aluminum Beam



Plate Welding Bed



Yaskawa Servo Motor



IPG/Raycus Resonator



Hiwin Guide Rail



YYC Rack Pinion



Raytools 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

