



## Fully Enclosed Pipe and Sheet Laser Cutter

### AF-G Series

SAFETY  
LEVEL

AESTHETICS

COSTING

- ◆ Stable and rigid bed adopts carbon structure steel plate welding, stagger casing construction, avoids welding stress deformation.
- ◆ The laser cutter combines the use of sheet metal cutting with pipe cutting, the enclosed cover is designed to effectively protect the operators.
- ◆ Heavy-duty gantry structure to ensure the stability of machine operation, with good impact resistance and wear resistance.
- ◆ High-precision gear and rack drive system ensure high-speed, high-precision and good dynamic characteristics. The drive structure with two synchronous servo motors balances the pressure and long service life.
- ◆ Dual worktables reduce loading and unloading time. Adopting the rotating ball rack on the worktable to make it more convenient to move the workpiece.
- ◆ Aluminum alloy beam can improve the running speed of the equipment, improve the processing efficiency and ensure the processing quality.
- ◆ Automatic programming, automatic translation of CAD drawings into CNC language, automatic layout, saving materials, improve production efficiency.
- ◆ Perfect cooling system, lubrication system and dust removal system to ensure stable, efficient and lasting machine operation.
- ◆ Unique tube plate up and down, front and back centering device to ensure that the material is placed in the center of the chuck when feeding.

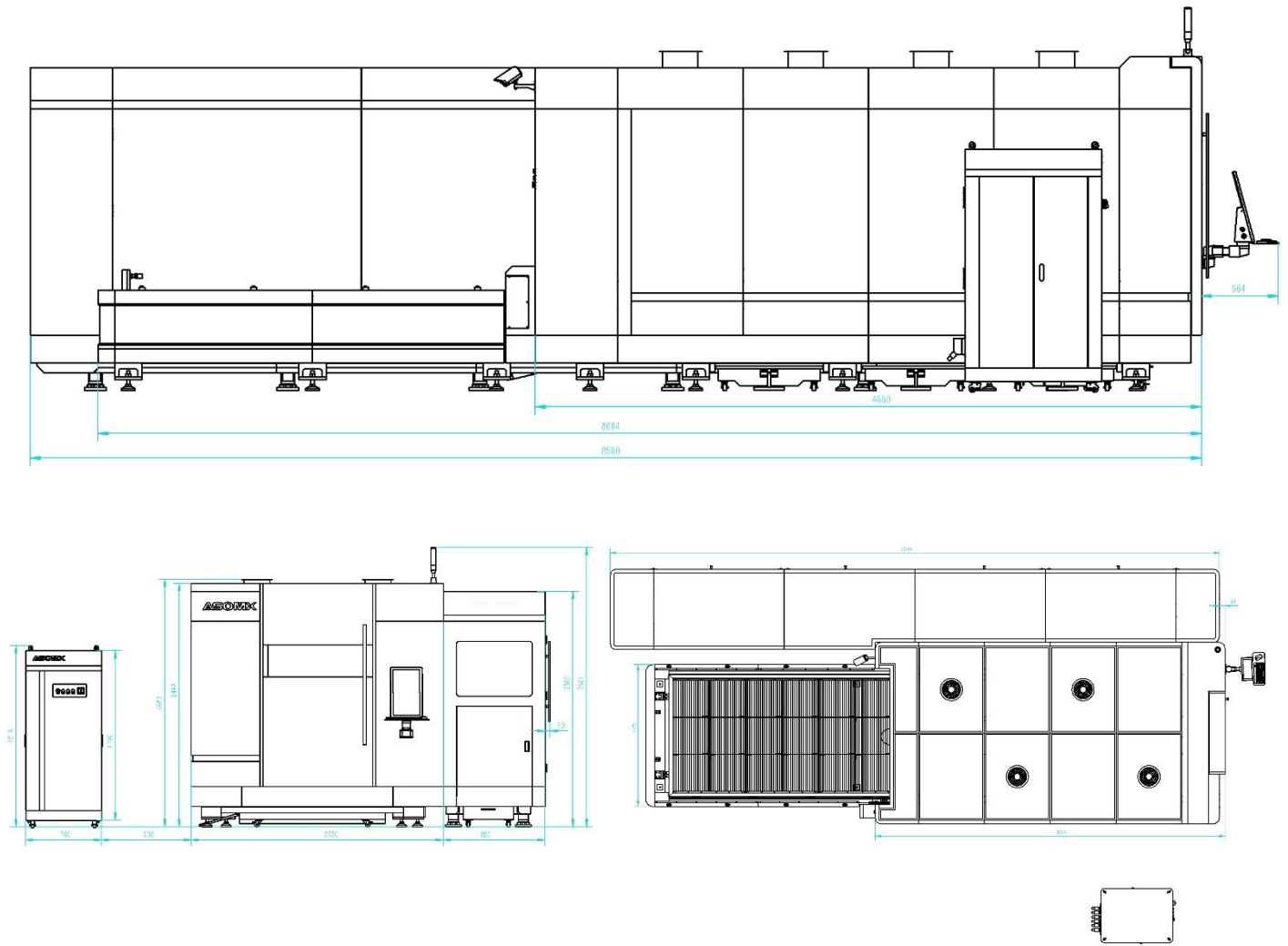
## Components



## Specifications

Model No.	AF-G 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
Min. Line Width	≤0.1mm
Worktable Max. Load	1600kg
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	8800kg

# 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

