



Fiber Tube Laser Cutting Machine

AF-T Series

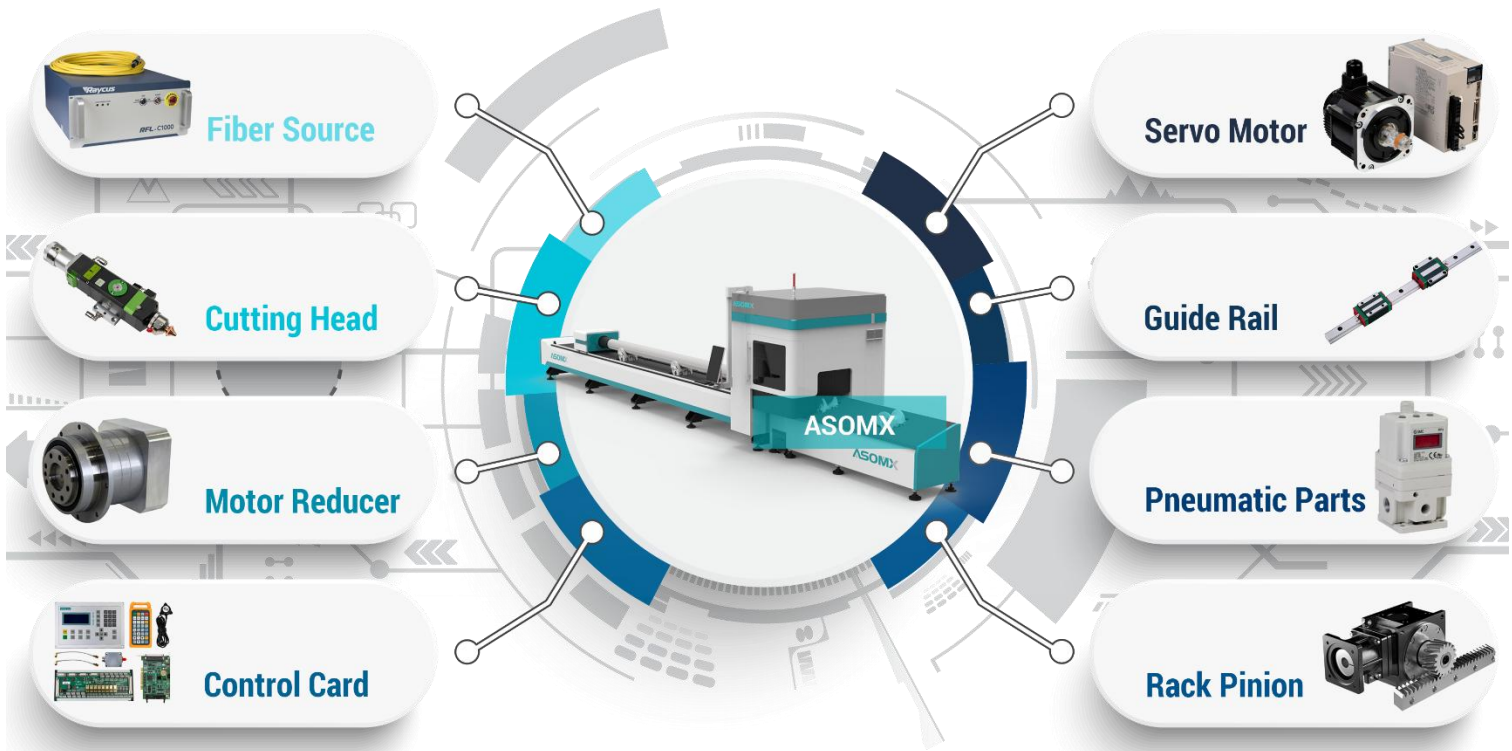
SAFETY
LEVEL

AESTHETICS

COSTING

- ◆ The mechanical structure uses the integrated gantry design, the performance is stable, the equipment runs smoothly.
- ◆ Equipped with digital smart chuck, can realize the full-stroke pipe processing without manual adjustment. Intelligent system can easily identify and fix various types of pipes.
- ◆ Professional pressure feedback system can automatically adjust the pressure according to different diameters and thickness, real-time detection and alarm, high efficiency and safety.
- ◆ Imported rack and pinion suitable for high-speed movement and greatly reducing the driving horsepower required for the tube laser cutting machine.
- ◆ Automatic drift correction function, automatic center finding function, easy to operate, very intelligent and practical.
- ◆ Fully automatic pneumatic chuck can quickly align the workpiece, also through pressure adjustment to ensure the stability of the clamping force.
- ◆ Professional automatic nesting software, automatic one-key typesetting, no longer wastes customers' materials, provide igs format three-dimensional digital and analog graphics.
- ◆ Four-edge search function, optimized edge search pattern and algorithm make the detection of pipe more accurate.
- ◆ Shortest travel path and the fastest movement speed by using the unique pipe database in the cutting software and the closed-loop feedback between the height controller and the laser head.

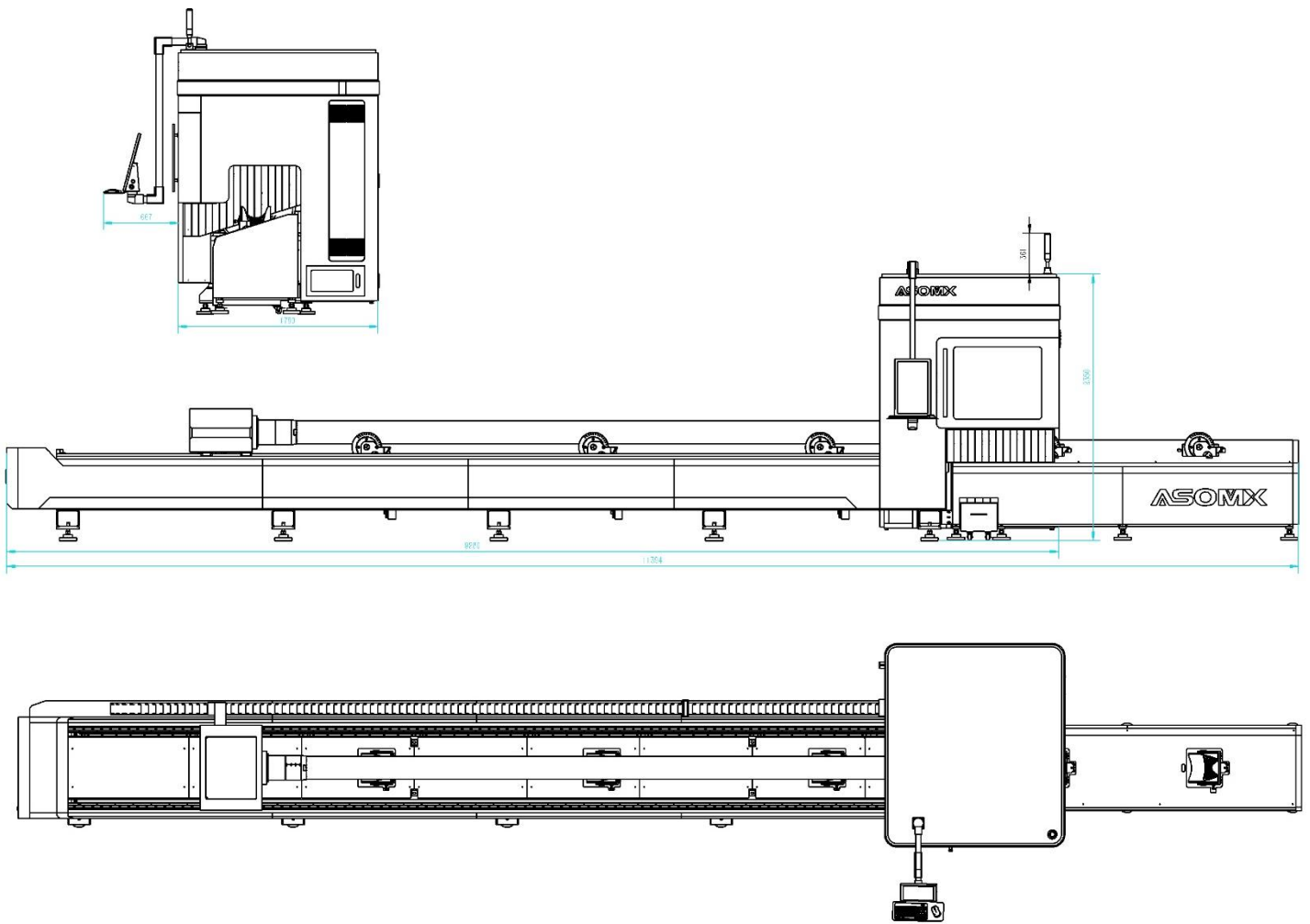
Components



Specifications

Model No.	AF-T Series
Laser Power	1000W/1500W/2000W/3000W/4000W
Laser Wavelength	1080±10nm
Laser Type	Single-Core Junction Semiconductor Module
Cutting Head	Swiss Raytools / German Precitec
Working Range	6000mm
Optional Range	12000mm
Min. Line Width	≤0.1mm
Worktable Max. Load	400kg
Max. Acceleration	1.5G
Max. Moving Speed	120m/min
Control System	TubePro 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	15kw/17kw/19kw/28kw/34kw
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	4750kg

Layout



Configurations



Back-up roller



Welding Structure 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

