

Dual-Platform Automatic Exchange Laser Cutter

AF-E Series

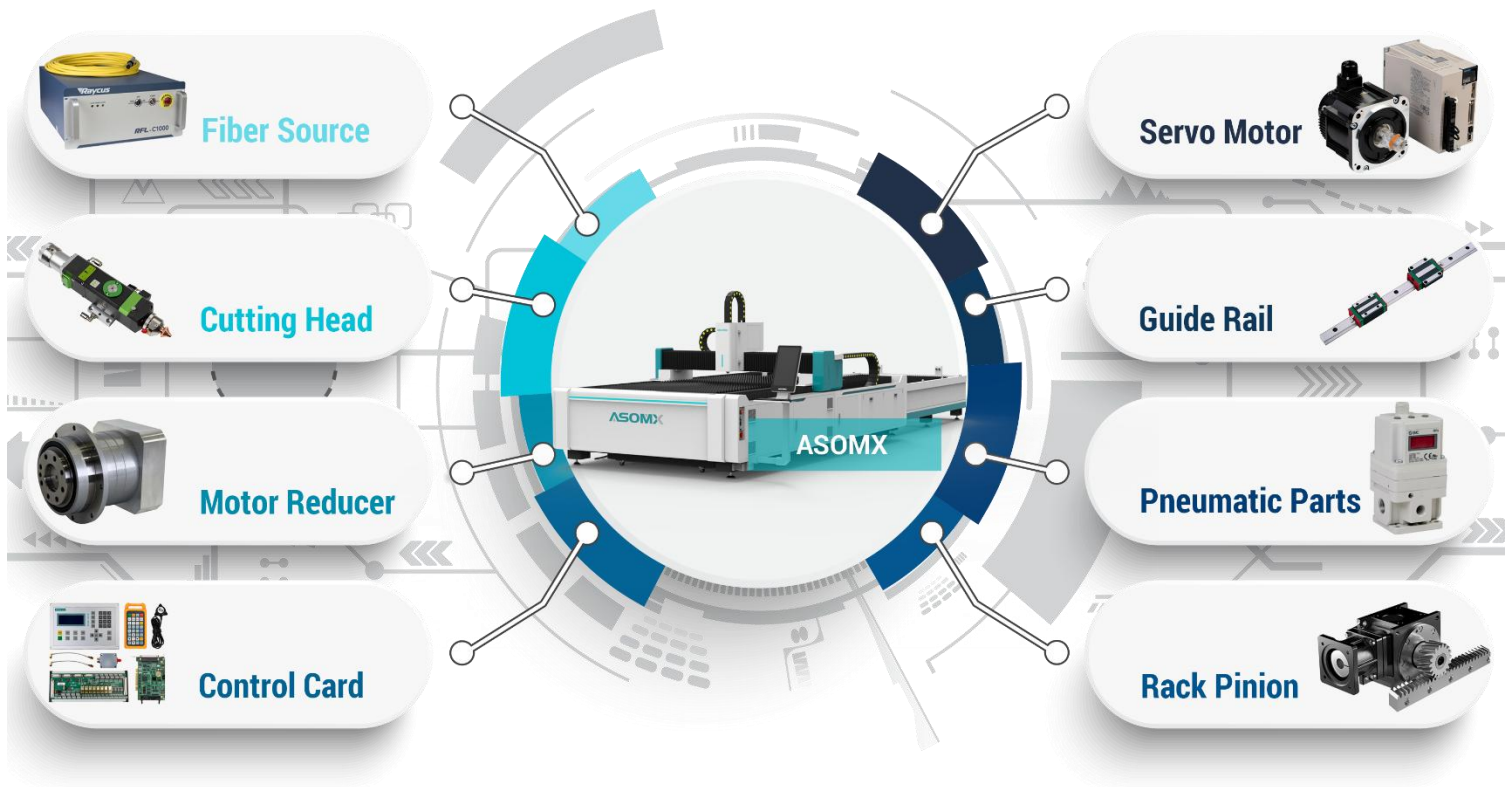
SAFETY
LEVEL

AESTHETICS

COSTING

- ◆ The machine body processed by the gantry milling machine, through 600°C thermal aging treatment, to ensure that the machine tool bed solid and non-deformation.
- ◆ Machine bed stability is high, can reduce feeding time, help place the metal plate, equipped with automatic feeding and exchanging platform, which simplifies the working procedure and saves working time.
- ◆ 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.
- ◆ Flying cutting function, control the change of cutting path, improve cutting efficiency and save working time.
- ◆ Cast aluminum crossbeam, integral steel die casting, light, flexible and efficient, after artificial aging, solid solution treatment and finishing, the beam has good integrity, stiffness, surface quality, toughness and ductility.
- ◆ Intelligent layout of graphics cutting, support multi-graphics input, automatically optimize the cutting order, intelligent edge search, automatic positioning.
- ◆ Automatically sensing the cutting edge of the material and automatically adjusting the cutting range according to its inclination angle in any incorrect position.
- ◆ Imported high-precision transmission, with the perfect cooperation of servo system, to ensure the accuracy and efficiency of laser cutting.

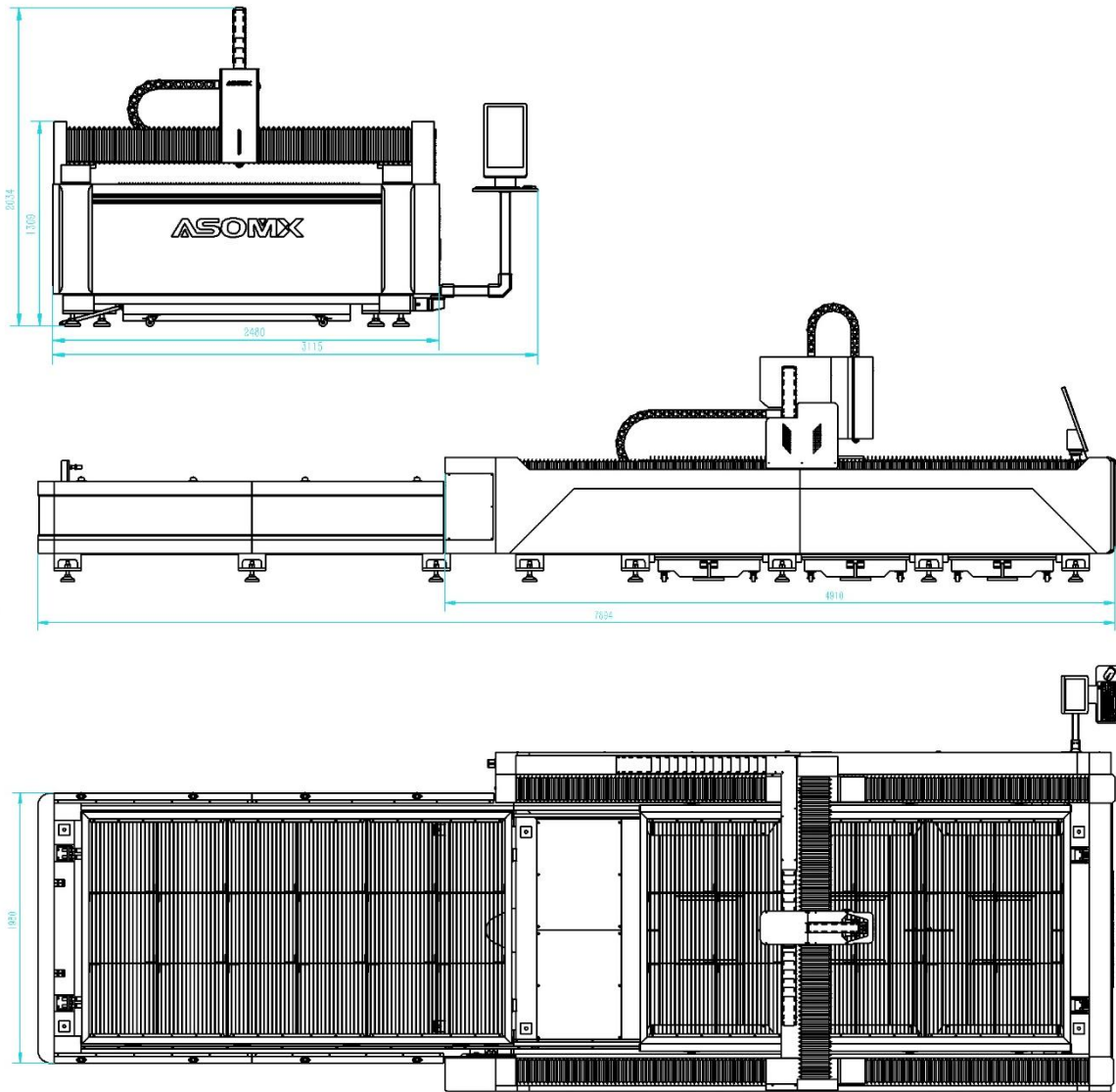
Components



Specifications

| | |
|--------------------------|--|
| Model No. | AF-E 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 | 1500mm*3000mm |
| Optional Range | 1500mm*4500mm / 2000mm*4000mm / 2000mm*6000mm |
| Min. Line Width | ≤0.1mm |
| Worktable Max. Load | 1200kg |
| 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 | 15.6kw/18.1kw/22.8kw/25.8kw/29.1kw |
| 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 | 5500kg |

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

