



Precision Fiber Laser Cutting Machine

AF-1390 Series







- Excellent three-dimensional machine bed structure, strict heat treatment technology and precision processing level, ensure the high-performance machining equipment features.
- Auxiliary low gas pressure alarm function, provide real-time pressure detection, abnormal information report to ensure the laser cutting effect.
- The new security tracking module, in the cutting process, always maintains the distance between the laser head and the materials, reduce the risk of collision, to ensure cutting efficiency.
- Single-phase power supply can ensure the normal operation of the laser machine. This function makes it more convenient for the machine to connect the power supply and can work in various places.
- Automatically monitor the working range of crossbeam and cutting parts to keep them in the machining range.
- New drawer-type worktable is convenient for loading and unloading, greatly reducing the machine floor area, effectively improve the space utilization.
- Intelligent layout of graphics cutting, support multi-graphics input, automatically optimize the cutting order, intelligent edge search, automatic positioning.
- Automatic lubrication system provides the equipment with regular and quantitative lubricating oil to ensure the normal and high-speed operation of the laser cutter and has the function of abnormal alarm and liquid level alarm.
- All-around protection design, sealed operation space, completely shield smoke and laser radiation, minimize pollution and ensure safety.

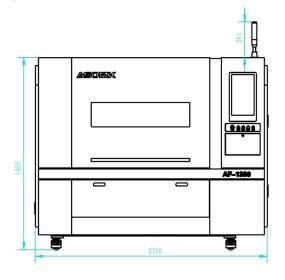
Components

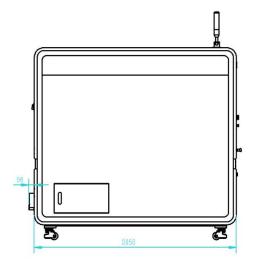


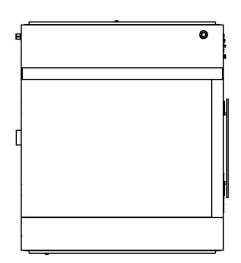
Specifications

Laser Power Laser Wavelength Laser Type Single-Core Junction Semiconductor Module Cutting Head Working Range Optional Range Optional Range Max. Load Max. Load Max. Acceleration Control System Positioning Accuracy Positioning Accuracy Cooling Type Graphic Format Supported DST, PLT, BMP, DXF, DWG, AJ, JPG, DXP, PGN, TIF, LAS, etc. Compatible Software Electricity Supply Unit Power Laser Type 1000W/1500W/2000W/3000W Swiss Raytools / German Precitec Working Humidity Afs%-95% no condensed water		
Laser Wavelength Laser Type Single-Core Junction Semiconductor Module Cutting Head Swiss Raytools / German Precitec Working Range 1300mm*900mm Optional Range 600mm*600mm Min. Line Width \$0.1mm Worktable Max. Load 250kg Max. Acceleration 0.8G Max. Moving Speed 80m/min Control 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 110V/220V±10% 50/60Hz Unit Power Auxiliary Gas Operating Temperature 0°C-45°C	Model No.	AF-1390 Series
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Cutting Head Working Range Optional Range 600mm*600mm Min. Line Width \$0.1mm Worktable Max. Load 250kg Max. Acceleration 0.8G Max. Moving Speed 80m/min Control System Positioning Accuracy #0.01mm Repeatability Accuracy 10.02mm 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 110V/220V±10% 50/60Hz Unit Power Auxiliary Gas Operating Temperature 0°C-45°C	Laser Wavelength	1080±10nm
Working Range Optional Range 600mm*600mm Min. Line Width Worktable Max. Load 250kg Max. Acceleration 0.8G Max. Moving Speed 80m/min Control 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 110V/220V±10% 50/60Hz Unit Power Auxiliary Gas Compressed Air / Nitrogen / Oxygen Operating Temperature 0°C-45°C	Laser Type	Single-Core Junction Semiconductor Module
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Min. Line Width Worktable Max. Load 250kg Max. Acceleration 0.86 Max. Moving Speed 80m/min Control System Cypcut System ### ### ### ### #### #### ##########	Working Range	1300mm*900mm
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Auxiliary Gas Compressed Air / Nitrogen / Oxygen Operating Temperature 0°C-45°C	Electricity Supply	110V/220V±10% 50/60Hz
Operating Temperature 0°C-45°C	Unit Power	12kw/13.7kw/15.6kw/26kw
	Auxiliary Gas	Compressed Air / Nitrogen / Oxygen
Working Humidity 45%-95% no condensed water	Operating Temperature	0°C-45°C
Working Hamarty 10% 30% no condended water	Working Humidity	45%-95% no condensed water
Laser Module Life 100000hours	Laser Module Life	100000hours
Gross Weight 1500kg	Gross Weight	1500kg

Layout







Configurations







Welding Structure Bed



Yaskawa Servo Motor



IPG/Raycus Resonator



Hiwin Guide Rail



YYC Rack Pinion



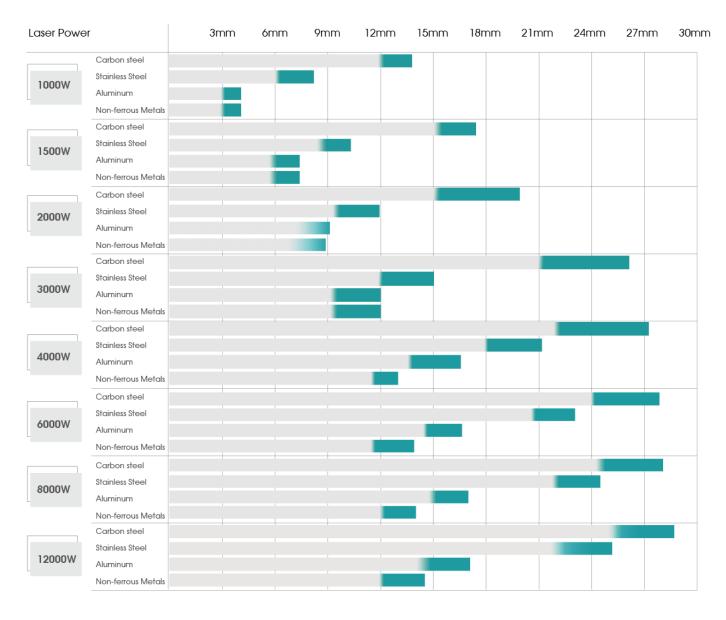
Precitec Cutting Head



MotoReducer

Parameters

Material thickness



Max. cutting thickness (do not suggest to cut for a long time)

Samples











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