

Small flat fiber laser cutting machine

The small flat fiber laser cutting machine is a main product launched for the small and medium-sized power cutting market. It is an efficient, high-precision, and cost-effective cutting and hole cutting integrated machine. The machine tool adopts a gantry moving platform structure, and is welded with mixed plates and pipes. The moving parts are equipped with high-precision screw rods and linear guides, servo motor transmission, and cutting accuracy and speed are higher than ordinary standard flat plate laser cutting machines, Mainly suitable for small precision cutting, with all the advantages and functions of unique planar cutting. The integrated design of one machine for dual use allows for both sheet metal and pipe fittings processing. It can be customized and installed with clamp heads to fix short pipe fittings and achieve various small pipe cutting and punching. It is economically practical, covers a small area, is convenient to use, and is convenient to move and place. With new technological solutions, it solves the investment income ratio of growing customers. The problem of high equipment maintenance costs effectively improves processing efficiency, and the operation is simple and convenient. It is very suitable for teaching and experimental research, and can be customized according to customer needs.



Main features:

- ✧ Gantry mobile platform structure, welded plate and tube bed, ensuring long-term stability of operation;
- ✧ High precision screw and linear guide rail, stable transmission, improving cutting efficiency and accuracy;
- ✧ Professional CNC industrial control computers effectively ensure the stable operation of the system and CNC software;
- ✧ Integrated control cabinet design, extremely convenient operation and maintenance;
- ✧ Non contact processing without damaging the workpiece, saving costs, no consumables, and one-time cutting and forming;
- ✧ Professional laser cutting software with graphic layout and sharp corner smoothing functions;
- ✧ The operation is simple and fast, with a rich process database embedded, which can be called or modified with one click;
- ✧ Stable and reliable performance, efficient and energy-saving, low maintenance costs, and long service life;
- ✧ Customizable collet fixtures to achieve high-speed cutting of small pipe fittings;

Ordering Guide

Model STC-XXXX-YY-AABB

STC	XXXX Laser power (W)	YY model	AA X-axis stroke	BB Travel Y-axis
laser cutting	one thousand and five hundred	PC: Small flat cutting machine	04:400mm	20: 2000mm
	two thousand		06:600mm	
	three thousand			

Main technical parameters:

Laser generator	High performance anti high reflection fiber laser
Laser power	1500W/2000W/3000W
X. Y-axis positioning accuracy	≤ 0.05mm/m
X/Y Repetitive positioning accuracy	≤ 0.03mm
X-axis stroke	400mm, width direction
Travel Y-axis	2000mm, length direction
Z-axis travel	200mm, cutting head stroke
Processing format (length × Wide)	2000mm × 400mm
Cutting range	Plate: 2000mmX400mm, pipe fittings: depending on fixture
Platform material	Grade 00 marble
Maximum cutting thickness	Plate carbon steel ≤ 12mm, stainless steel ≤ 6mm, aluminum plate: ≤ 4mm
Power requirements	Three phase five wire system AC380V 50HZ
Equipment size	4000 * 1000 * 1600mm; Covering an area of ⁶ m ²

Note: 1. The above parameters are based on a 1500W laser, which can be customized non-standard according to customer requirements. The configuration and parameters of each model are subject to the technical solution provided by our company; 2. Although the processed workpiece belongs to the same specification variety, there may be differences in processing performance and quality due to differences in actual processing parts, surface conditions, material composition, or processing shapes.

Application field:

Mainly designed for high-speed cutting and cutting of various metal sheets and small pipe fittings, it is particularly suitable for metal materials such as stainless steel, aluminum zinc plated plates, silicon steel, alloy steel, copper, square pipes, circular pipes, etc. It is widely used in various metal processing industries such as sheet metal processing, kitchen and bathroom, surface plate processing, automotive parts, handicrafts, hardware products, etc.

Processing sample display:

