SAW-1500W-NFC

Introduction to Fiber Laser Welding Machine Technology

1. Device Information:

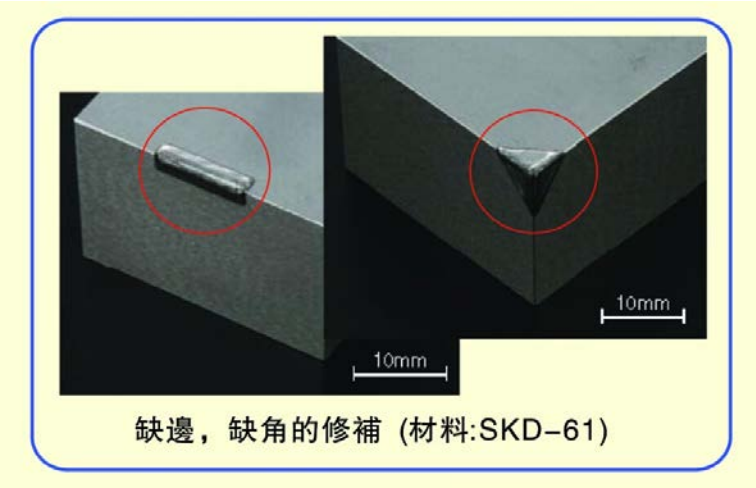
Product Name	Spec	Size	Price	Remarks
SAW-1500W-NFC **Fiber laser welding machine**		**1**	**-**	**Made in China**

2. Equipment Usage and Advantages

2.1 Use to

2.1.1 Meet the requirements of small and precise welding and repair of edge and corner defects in die-casting molds.

Place the small mold directly on the workbench for repair.



2.1.2 For rapid repair of overweight and huge automobile die-casting molds, remove the workbench, place the mold directly on the ground or on the tool car, and use electric control of the handle for laser repair welding.

2.2 Performance advantages

2.2.1 Fiber laser has high energy, stable light output, good welding quality, and ultra long service life.

2.2.2 Adopting imported condenser cavity, with high reflectivity, strong energy, high temperature resistance, corrosion resistance, and ultra long service life.

2.2.3 Large welding penetration, stronger repair welding, no air holes or sand holes in the welding flesh, and small welding marks.

2.2.4 Independent electric pillar bracket, adjustable for lifting and multi-dimensional rotation; Electric handle controls repair welding operations, with a large welding stroke and a wide welding range; Flexible adjustment of welding angles and positions, suitable for welding various molds; Equipped with pulleys, easy to move, and can also be moved to the side of giant molds for direct repair welding, without the need to disassemble cavity inserts.

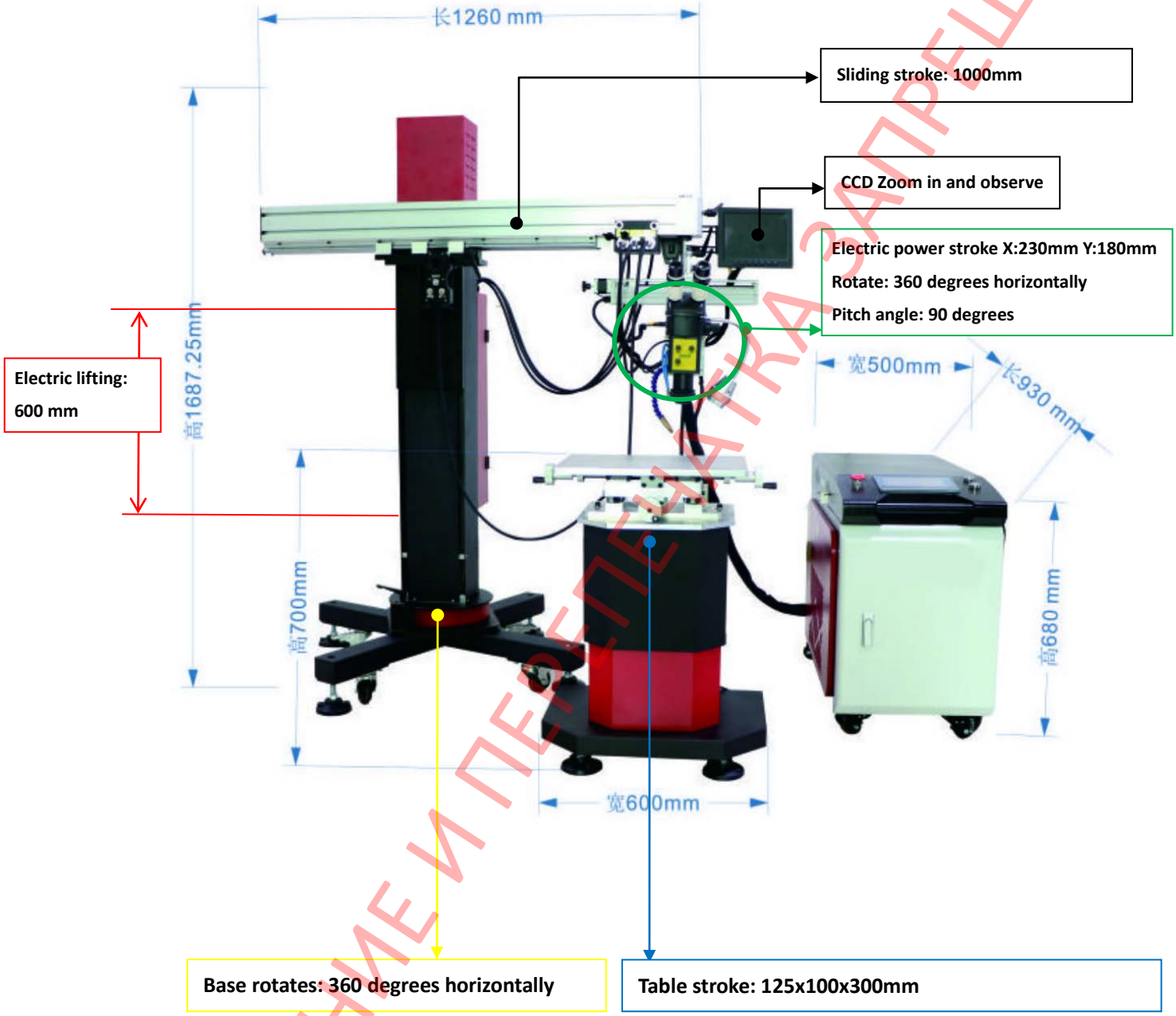
2.2.5 The laser head can slide back and forth, and the pitch angle and left and right sides can be adjusted by 90°, making it convenient for repairing the diamond corner or side edge of the mold.

2.2.6 Equipped with a high-power dual temperature hot and cold water heater, it can meet long-term and high-power welding operations, ensuring better laser stability.

2.2.7 The base of the three-dimensional workbench is electrically lifted, and the workbench is moved using precision ball screws and high-precision straight guide rails. It is lightweight and flexible, with precise positioning and a load-bearing capacity of up to 200KG.

2.2.8 CCD camera high-temperature display screen, which can zoom in and observe the status of precision welding parts in real time, as well as exchange, observation, and education and training of welding techniques among colleagues.

3. Equipment diagram parameters



4. Smoke and dust purification device (optional), four layer filtration, activated carbon purification of smoke and dust generated during fusion, protecting the health of operators.

5. Universal rotating chuck (optional) to meet the demand for circular fusion welding.

6. Technical parameters of the equipment

Laser type	ND：Fiber Laser
Wavelength	1064 nm
laser power	1500W
Cooling method	Dual temperature water cooling
pulse width	1.0-60Ms
pulse frequency	1-20Hz
light spot	0.3-2mm
Fusible welding wire	Fe: Φ0.2-0.8mm
	AL/CU: Φ0.2-0.5mm
Aiming and positioning party	Microscope, CCD camera system, red light
Supply voltage	220V±5V 50Hz/60A
Overall energy consumption	6.5KW
bearing capacity	200KG+ Data collection (mold placed on the ground or tool cart)
Package size	Host 149*64*104mm weight: 217KG Electric lifting arm 89*89*189mm weight: 200KG