



## SN Machinery & Tools



# Fiber Handle Laser Welding Machine

### FEATURES

- ❖ The electro-optic conversion efficiency is high.
- ❖ Anti-high-reaction ability.
- ❖ Thin plate welding is efficient.
- ❖ Thick plate deep melting without splash.
- ❖ The output fiber length can be customized.
- ❖ Water cooling is more stable.
- ❖ Maintenance-free operation.
- ❖ Wide modulation frequency range.

### PRODUCT DESCRIPTION

Laser welding is a high efficient precision welding method which is the use of high energy density laser beam as a heat source. Laser welding is one of the important aspects of laser processing technology. Laser radiates and heats the workpiece surface, The surface heat diffuses to the inside through heat conduction, Then the laser makes the workpiece melting and from the specific welding pool by controlling the laser pulse width, energy, peak power and repetition frequency. Due to its unique advantages, it has been successfully applied to the precise welding for micro parts and small parts.

Laser welding is fusing welding technology, laser welder puts laser beam as the energy source, and make it impact on the weldment joints to realize welding.



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## TECHNICAL PARAMETERS

Laser source	Raycus / Max	Handle	Aluminium hand-held, light and easy to Master
Laser power	1500W / 2000W	Weave length	1080nm ±5
Laser incidence	Coaxial	Power stability	±1.5%
Laser Wavelength	1080	Laser repetition frequency	50-50,000Hz
Collimated focal length	50mm	Beam quality	$m^2 < 1.3$
Focusing focal length	100mm	Red light indicates output power	0.1 - 1mW
Operating Voltage	AC 220V 50 Hz	Fiber Core Diameter	25 $\mu$ m
Cross Power	< 5000W	Output cable length	10m
Gas Source	0.2 Mpa (Nitrogen)	Operating Mode	continuously
Cooling Style	Water cooling	Interface Type	QBH

## PRODUCT DETAILS

The custom welding head is designed with the body engineering design method, fully considering the comfort of the customer for long-term use, and has the protective measures of the butt welding material to prevent the customer from accidentally injuring others, It is easy to install with drawer type protective lens, and it is convenient for customers to carry out maintenance. At the same time, nozzles with different angles can be configured to meet the needs of customers to weld different products.



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