

# Double Welding Path Channel Letter Laser Welding Machine

(Model: ELW-300 II ,ELW-500 II )





**1.**

**Double Fiber Path,  
double improve the  
working efficiency**

**2.**

**Most Powerful  
Technology**

**3.**

**Most Efficient  
Processing**

**4.**

**Non Destructive  
Welding**

1. Double laser welding path with 5m Length Fiber Laser Cable, which brings large convenience for your job.

2. Laser head can electrically move back and forth, up and down, left and right and rotate 360 degree.

3. Heat affected zone is small. The work piece surface will not deformed.

4. For letters in the advertising industry, there is specially lengthened optical path and the telescopic scope can be added to 800mm.

5. There is no raised spot after welding. No requirement of polishing process. Saving time and labor. The appearance is beautiful and tight.

6. There is CCD monitor. The welding effect is more clear and intuitive.

1. Some manufacturers are not very big, many welding workers for double light path welding machine technology is not mature.

2. Single Light Path Laser Welder on the cost price is low. For the welding details, it needs extra processing. If using double laser beam welding machine, it can improve working efficiency and does not need extra treatment.

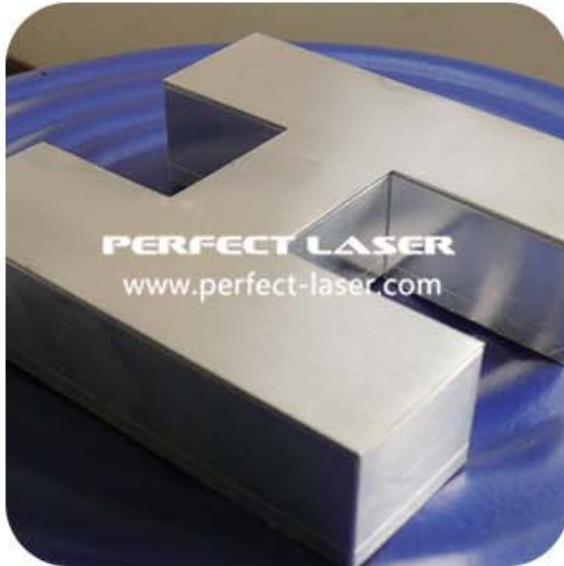
3. Handheld optical fiber welding head standard length is 5m, which is made of valuable fiber cable and can bring large convenience to operators.

4. Perfect Laser has more than 20 years specializing in optical fiber laser welding machine, welding machine for double light path technology is very mature, able to provide the most advanced and the best quality products to customers, won the praise of industry users at home and abroad, not only occupies a leading position in domestic sales, but also the wind in more than 180 countries and regions in the world.

5. Perfect Laser brings together relevant professional top talent and technology, has a high quality, the internationalization of talent team.

6. "Excellent quality, service" around the world. Implement the strategy of global sales, international sourcing strategy, international technology platform strategy, build a solid development platform for the company.

0.1-2mm stainless steel, galvanized plate and bronzing plate; 2mm copper and aluminum.



## Application Field

Advertising letter laser welding machine is used for making a variety of stainless steel letter, LED luminous characters, AD Logos, signs and other fast welding.

LCD Touch Screen



CCD Camera



7P Water Chiller



Marble Work Table



- 1 Standard 5m fiber laser cable and handy pen  
More freely, more flexible  
Operators can hold the laser pen and weld  
work pieces what they want.**



## Why choose Double Light Path?



	Single Light Path	Double Light Path
Light Outlet	One	Two
Converter Boxes	None	The converter boxes, hard and soft laser beam
Welding Characters	Only small characters	Only small characters
Handheld Optical Fiber Welding Head	None	None
Ease of Welding	Take more time to weld into details	Welding into details with high efficiency

## 2 LCD Colorful Screen

Pulse width, frequency and speed can be adjusted on the screen and no need PC. You can save 10 sets of parameters in need.



### 3 Exquisite Marble Work Table

Compared to metal work table, marble work table can not rust. It can not be welded together with the objects, while metal table can be easily welded with the metal material. Except for that, Marble work table looks exquisite and beautiful.





## 4 CCD Camera

Adopts China famous brand CCD camera, LCD screen and red pointer. CCD camera can photo-shot the welding details and transmit the signal to LCD screen. The welding effect is more clear and intuitive.



### 5 LCD screen

Reduces the bright board cutIt Can reflects the welding details intuitively which can not be discovered by human eyes  
Help operators to test and adjust the parameters correspondingly.



### 6 Red pointer

It is easy to for red light to find the welding point fast, and position faster.

### 7 Water Chiller

1HP water chiller can cool the machine and make the machine work in good condition.

Operators can adjust the temperature parameters on the chiller panel. The water chiller comes with air-conditioner system.



### Laser Head

The laser head can rotate 360 degrees, which is more convenient for positioning and welding of special shaped objects.



## 9 Electrical Controlling System

Controlling board and cable connection are integrated to avoid confusion.



## Technical Data

Model	PE-W300II	PE-W500II
Max laser power	300W	500W
Double Laser Welding Path	Handheld 5m Length Fiber Laser Cable	Handheld 5m Length Fiber Laser Cable
Welding Depth for Carbon Steel / Stainless Steel / Galvanized Steel / Golden-Plate Steel	0.1-2mm	0.1-2mm
Welding Depth for Brass, Aluminum	0.1-1mm	0.1-2mm
Single power energy	100J	120J
Laser Lamp	single lamp	double lamp
Electrical source	220v/ 50Hz/ Single Phrase	380v/ 60Hz/ Three Phrase
Laser wave-length	1064nm	
Pulse width	0.3-20ms	
Welding frequency	0.5-40HZ	
Adjustable Facula Size	0.2-2mm	
Power consumed	≤9KW	
Laser Cavity	UK imported "Morgen" brand	
Standard worktable	800*1000mm	
Positioning	CCD Screen + Red Dot Pointer	
2-linertary	200mm	
Mobile level	200mm	



Item	Specification	One Year Using Quantity	Image
USA Imported Xenon Lamp	<ul style="list-style-type: none"> <li>* 8 million times' lighting</li> <li>* imported material</li> <li>* 12 months lifetime</li> </ul>	4-12 pieces	
Imported Protection Lens	<ul style="list-style-type: none"> <li>* imported material</li> <li>* 6-12 months lifetime</li> </ul>	2-4 pieces	



### PE-W300

Length (m)	Width (m)	Height (m)	Measurement (m3)	Gross weight(kg)
1.59	0.87	1.28	1.771	300
0.66	0.6	0.95	0.376	80



## Warranty & After-sales services

- 1). Guarantee for the whole machine: 12 month
- 2). Providing professional service to customers, any call for technical help will be solved in 24 hours
- 3). Free training, free maintenance and free technical support within warranty period
- 4). We supply life-long free service in technical upgrading.

## FAQ



**Q:** What' s the package?

**A:** We have 3 layers package. For the outside, we adopt wood craft case. In the middle, the machine is covered by foam, to protect the machine from shaking. For the inside layer, the machine is covered by thickening plastic bag for waterproof.

**Q:** Will the package damaged during transportation?

**A:** Our package is considerate all the damage factors and make it to be safe, and our shipping agent have full experienced in safe transportation. We have exported to 180 countries worldwide. So please don' t worry, you will receive the parcel in good condition.

**Q:** How to install and run the machine?

**A:** Our technician have installed the machine before shipping. For some small parts installation, we will send detail training video, user' s manual along with the machine. 95% customers can learn by themselves.