



[www.pro-cnc.com.pl](http://www.pro-cnc.com.pl)

PRODUCTION  
SPECIALIZED  
MACHINES

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# **PRO-LASER**

## **4 IN ONE**

PRO-LASER is available in the power variants: 1000W, 1500W, 2000W, 3000W. The PRO-LASER laser welding machine has, among others: a laser source, a laser head with a moving beam system. An automatic wire feeder is included with the laser welder. Single-module fiber power supplies the device with constant, stable power and perfect quality of the welding beam.

The weight of the device is about 300 kg.

Advanced welding technology available to everyone is an innovative and comprehensive device consisting only of reliable components produced by global giants.

### **Advantages of laser welding technology:**


- High strength welds
- No flux or filler material required
- Ability to weld different materials
- Narrow joint with good appearance
- Consistent, repeatable welds
- High degree of accuracy and control
- Small heat affected zone
- Simple process automation
- Faster than other techniques, resulting in higher throughput
- Versatility (the same tool can be used for cutting, notching and drilling)





## REAL PHOTOS OF THE FINISHED MACHINE




## OPERATING SYSTEM





### Laser welding system



Scan speed	mm/s	Laser enable	 Home
Scan width	mm	Indication of red light	 Technology
Peak power	W	Welding mode	 Setting
Duty cycle	%	Secure lock	 Monitor
Frequency	Hz		

### Laser cleaning system



Scanning frequency	Hz	Laser enable	 Home
Scan width	mm	Indication of red light	 Technology
Peak power	W		 Setting
Duty cycle	%		 Monitor
Frequency	Hz		

## MAIN COMPONENTS



### Laser source

Single-mode continuous fiber laser adopts modular design, highly integrated system, maintenance-free, and high reliability. The laser power is continuously adjustable, with high beam quality and high laser stability.



### 4 in 1 Wobble Laser Head

Handheld laser head for welding/cleaning/seam cleaning/cutting. Lightweight shape, body engineering design method, comfortable grip; One hand easy to control, easy to operate.



### Auto Wire Feeder

The device is equipped with a fully automatic wire feeder. The system allows

## TECHNICAL DATA

No.	Components	Specification			
1.	Machine Power	1000W	1500W	2000W	3000W
2.	Laser wavelength	1070 NM			
3.	Fiber cable length	10m (possible up to 15/20m)			
4.	Operating mode	Continuous&Modulation			
5.	Oscillation operating mode	Single/Double, different points, line			
6.	Welding thickness range	0.5-3 MM	0.5-4 MM	0.5-6 MM	0.5-8 MM
7.	Gas flow	5-15L/min	10-15L/min	10-15L/min	10-15L/min
8.	Voltage	220V	220V	220V	380V
9.	Power consumption	5KW	7KW	9KW	11KW
10.	Frequency	50/60 HZ			
11.	Currency	23A	30A	35A	30A
12.	Focus length	150mm			
13.	Welding speed	0-85cm/min	0-95cm/min	0-105cm/min	0-110cm/min
14.	Laser protection method	laser beam lock + security lock + safety button			
15.	Touch screen	PLC screen and board			
16.	Wire feeder	Auto wire feeding			
17.	Wire diameter in automatic mode	0,8mm, 1,0mm, 1,2mm, 1,6mm, 2,0mm			
18.	Total weight	250kg		270kg	300kg
19.	Overall size	1070× 640 × 1040 MM			
20.	4in1 laser head weight	760g			
21.	4in1 laser head size	L: 273.38mm, W: 36.5mm, H: 168.57mm			
22.	2in1 laser head weight	920g			
23.	2in1 laser head size	L: 253.3mm, W: 48mm, H: 217mm			
24.	Positioning	Red laser dot			
25.	Cooling system	PRO-CNC water cooling system			

## SAMPLES

