

# Hand Held

**Compact “Air-Cooled” Fiber Laser Welding**  
**PRC A1500-A2000**



## Welding Processing limit

Laser Power	Mild Steel	Stainless Steel	Aluminum	Brass	Red copper
1500W	5mm	5mm	4mm	4mm	2mm
2000W	7mm	7mm	6mm	5mm	3mm

## Product Specifications

Output power	1500W/2000W	Wobble Width	0-5mm
Voltage Input	220VAC/50Hz/60Hz	Wobble Freq.	0-300HZ
Dimension	650x300x621[mm](L×W×H)	Build-in programs	55 programs
Weight	62kg	Avg. Elec power	< 5700/4650W

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### Applications

Used in welding of hardware, home appliances, furniture, kitchen & sanitary ware, batteries, lighting equipment, door & window guardrails, elevators, medical equipment, electrical cabinets, etc...



Metal Furniture



Electrical Cabinet



Elevator Manufacturing



Door/Window Guardrail



Battery Welding



Kitchenware



Light & Decoration

### Welding Samples



Stainless Steel Welding



Aluminum Welding



Mild Steel Welding



Pipe Construction Welding



Exhaust Welding



Construction Welding

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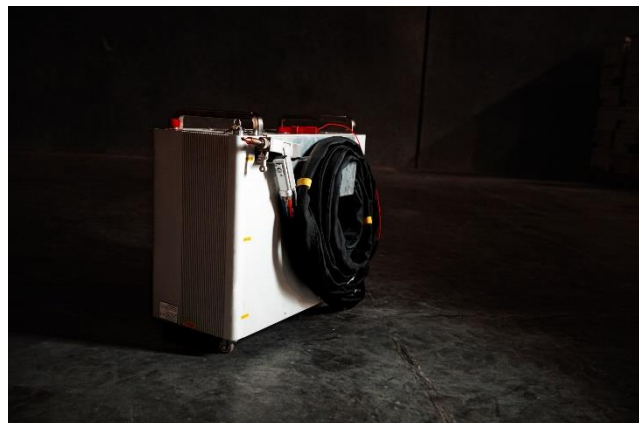
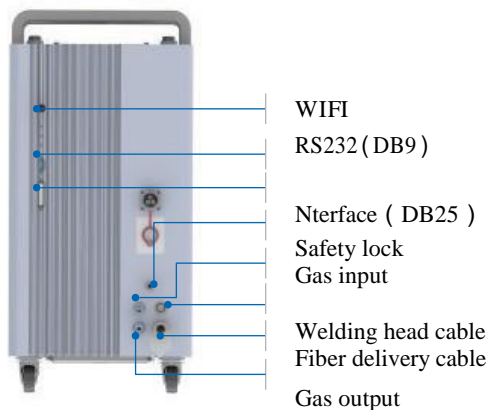
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### Control panel and Interface

All interfaces are uniformly arranged on the backside of the laser, clearly marked to facilitate quick start. Fiber delivery cable, gas pipes and control cables are pre-assembled into the protective cable harness (5m/10m).

Plug in AC power supply, insert the protective gas pipe, set the parameters, and fix the work-piece to be processed, and the laser welder will be ready to operate.

Advanced parameter setup can be accessed through Ethernet /WIFI, for fine adjustment and saving the parameters.



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### Packing List and Optional Accessories

Power cable	QBH delivery	Wire feeder ( Optional )
Laser welder body	cable(5m/10m) Handheld	Welding helmet (Optional)
User Manual	Welding gun Welding nozzles 5 types	Goggles (Optional )



#### Welding Nozzles for different welding application



The welding gun has been developed with an ergonomic design, for smooth and easy operation.  
Suitable for continuous welding operations with high quality and safety!

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## Compact "Air-Cooled" Fiber Laser Welding PRC A1500-A2000

**PRC Laser Welding Helmet with Double Safety Interlock  
&  
Eye-safe protection for Fiber laser wavelength & IR & UV light**



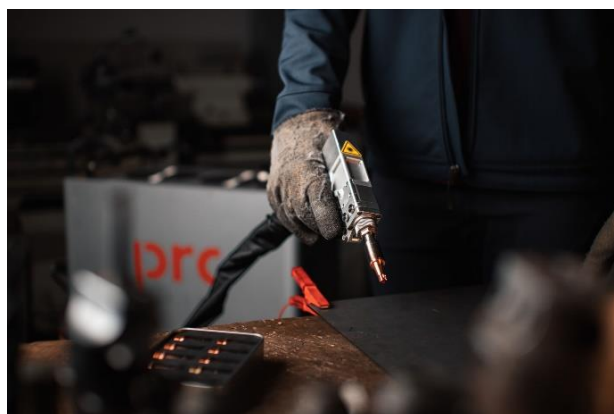
Laser Safe PRC Welding Helmet



Laser Safe PRC Welding Helmet



PRC Laser Safe Welding Goggles



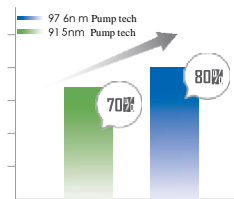
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### Six Important Advantages!

#### Higher Efficiency

Independent intellectual property rights 976nm high-brightness single-module laser technology, and New “Air-cooled” technology platform architecture with active refrigerant type heat dissipation!



Optical-Optical



Air-cooled tech platform

#### Ultra-Compact & Fully Portable, Easy to carry

Weight and volume are much less than water cooled hand-held laser welding systems. The volume is about 1/4, the weight is about 1/3 of it.

Extremely lightweight body, easy-to-carry, increasing the application field to nearly double! Just take it with you, plug and play (220V).

The integrated body design meets ergonomics and improves the mobile reliability of the whole equipment.



Easy to load, more portable

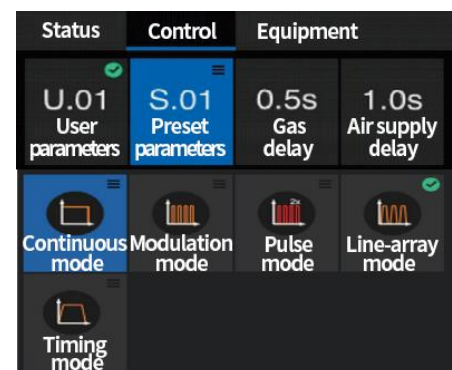
#### Easy to Operate

**Integrated operator's touchscreen control with preset parameter library, wobble modes, automatic shielding gas control, and safety functions.**

Compared with operating traditional welding equipment, novice welders do not need a lot of time for training and experience accumulation, only need a few hours of learning to get started.

The machine has 55 presets of commonly used welding parameters, which can be quickly switched to the best welding parameters according to different materials and thickness.

Parameters are set through the touch panel, the operation is very intuitive and concise, and can be customized and saved at the same time.



Built-in 55 programs + customizable

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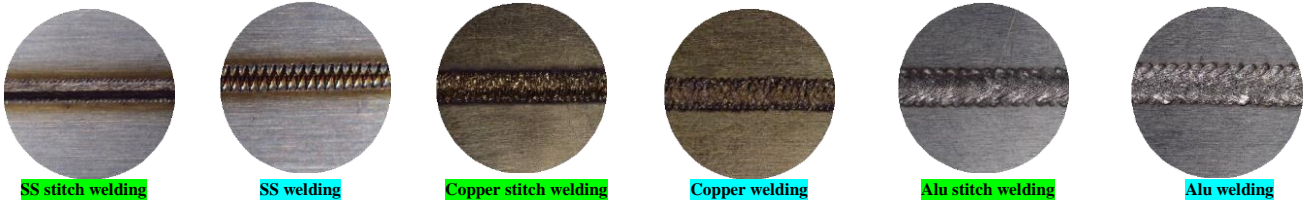
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## Compact "Air-Cooled" Fiber Laser Welding PRC A1500-A2000

### Better performance

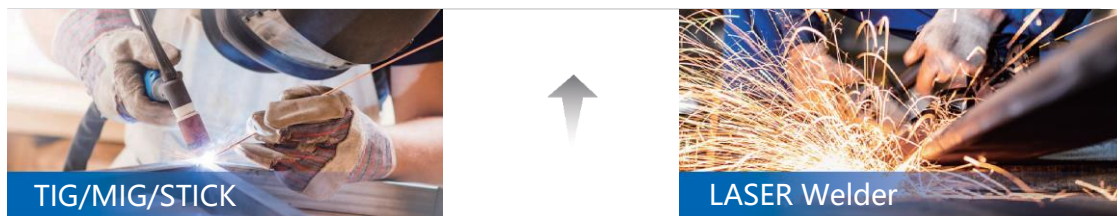
In different materials and thicknesses, better welding effect, without distortion, undercut or burn-through. Smooth process with a beautiful result, deep penetration, no deformation and no need for subsequent processing.



### Improved Processing Efficiency

Compared with the traditional welding method, it has an unparalleled speed advantage! Production efficiency in some scenarios, is almost 10 times higher than traditional welding processes!!

The welding seam is smooth & beautiful, with no deformation, which improves the one-time pass rate of the workpiece. Only a small or zero amount of solder splashes, which reduces subsequent grinding and polishing, improves production rate & efficiency, reduces waste and workpiece cost.



### More Safe

The Laser welder is class IV laser products. In order to operate safely, several protective measures have been foreseen:

- Key switch and an emergency stop button to ensure the safety.
- QBH interlock ensures laser transmission integrity.
- Operation with colored LED lights.
- Work-piece and welding gun interlock, as well as Helmet interlock. The laser will automatically turn off when the welding gun does not touch the work-piece, and/or the Operator does not wear the helmet properly.

**Welds stainless & mild steel, aluminum, brass & other materials up to 7 mm!**

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