



Intelligent Handheld Laser Welder

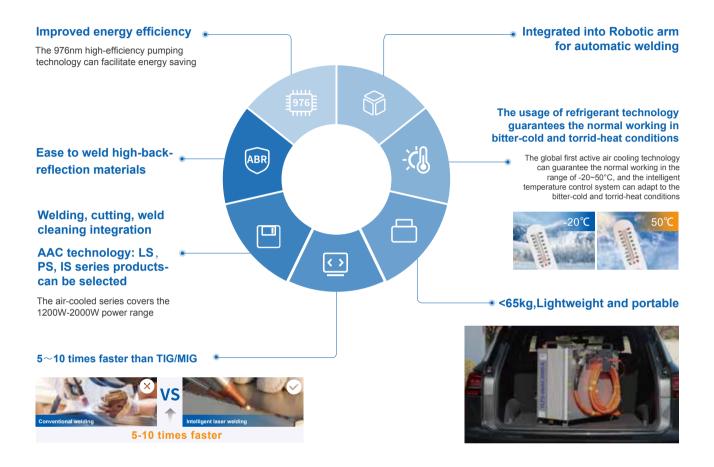
Welding/Cutting/Cleaning 3-in-1 Solution



AAC Active Air Cooling

Different steel sheets with different thicknesses (such as carbon steel and galvanized steel, aluminum alloy, red copper, stainless steel, etc.)

GW launched a new generation of active air cooling intelligent handheld laser welder, with high welding speed and good welding effect, being lightweight and portable, as well as easy for operation, and thus greatly improving the production efficiency and reducing processing costs.



Application



Windows and doors industry

Auto industry

Cabinet industry

Medical apparatus industry



Hardware and building materials



Elevator plates



Furniture and household appliances

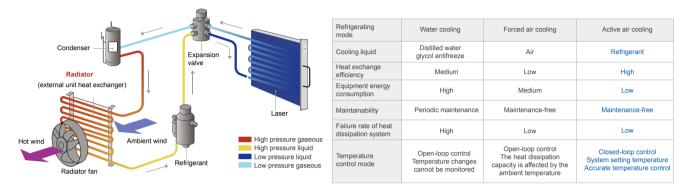


Mechanical engineering industry



Global First AAC active air cooling technology

The refrigerator and laser are combined into one to avoid the existence of water, and the removal of intermediate heat storage link makes the whole machine more integrated, with lightweight and compact structure yet better cooling efficiency.



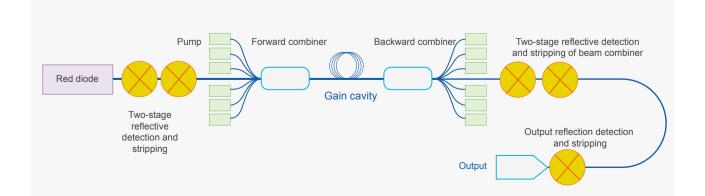
(Schematic diagram for active air cooling heat dissipation technology)

(Comparison of different heat dissipation methods)

- >> Active cooling, and on-demand cooling, with higher cooling efficiency
- >> Higher system integration, with lightweight and compact structure, reducing the difficulty of assembly and integration
- >> Maintenance-free refrigeration system, with no need to replace the cooling liquid and being free of maintenance investment
- >> Low standby power consumption, which makes that there is no need to maintain long-term high-power operation of the refrigerating system, bringing in lower operation cost of the whole machine
- >> Better environmental adaptability, being available for sustainable operation at -20 ~ 50°C ambient temperature

ABR Anti-back-reflection technology

The super proprietary anti-back-reflection (ABR) technology, using multiple anti-back-reflection structure design, can easily cut the high-back-reflection materials like copper, aluminum, gold, silver and so on, providing stable processing ability, and effectively increasing the reliability and service life of fiber lasers.



Penetration Data—Perfect Weld Seam Without Deformation

Power	Welding material	Stainless steel	Carbon steel	Aluminum	Brass	Red copper
1500W	Single-side penetration	4.5mm (1/5")	4.5mm (1/5")	4mm (1/6")	4mm (1/6")	2mm (1/12")
25um	Double-side penetration	9mm (1/3")	9mm (1/3")	8mm (3/10")	8mm (3/10")	4mm (1/6")
Power	Welding material	Stainless steel	Carbon steel	Aluminum	Brass	Red copper
Power 2000W	Welding material Single-side penetration	Stainless steel 6mm (1/4")	Carbon steel 6mm (1/4")	Aluminum 6mm (1/4")	Brass 5mm (1/5")	Red copper 2.5mm (1/10")

Weld seams **Different materials:**



Simple Operating System —— Super Simple and Easy To Use

Base Control Dense 50% 50% August 1 50% 6/5952/1. Imm August 1 Confirm Confirm Confirm			Simple button design, being easy Long service life, being more sui industrial scenarios				
	2 2 2		Choose				
Status	Control	Device		Control / User / I	100/0		
Status U.00	Control S.00 Preset	Device 0.2s Gas Pre-Flow	1.0s Gas Pre-Flow	Control / User / L 50 % Laser Power	J.00 / C 50 5.0 Hz mm Wobble Freq Width	200 ms Rise Time	

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Built-in 55 groups of parameters facilitate that the users can quickly select welding parameters according to different materials and thickness

Available for saving the customizable parameters

Materials	Stainless steel			Carbon steel			Aluminum alloy			Red copper
Weld wire Thickness	1.0mm	1.2mm	Self-fluxing	1.0mm	1.2mm	Self-fluxing	1.2mm	1.6mm	Self-fluxing	Self-fluxing
1mm	S.00	S.01	S.35	S.12	S.13	S.41	S.24	/	S.47	S.52
2mm	S.02	S.03	S.36	S.14	S.15	S.42	S.25	S.26	S.48	S.53
3mm	S.04	S.05	S.37	S.16	S.17	S.43	S.27	S.28	S.49	S.54
4mm	S.06	S.07	S.38	S.18	S.19	S.44	S.29	S.30	S.50	1
5mm	S.08	S.09	S.39	S.20	S.21	S.45	S.31	S.32	S.51	1
6mm	S.10	S.11	S.40	S.22	S.23	S.46	S.33	S.34	1	1

Control Panel and Interfaces

- >> All interfaces are uniformly arranged on the back of the machine, marked clearly, and easy to get started
- >> The optical fiber and welding head protective gas pipes and control wire are pre-assembled in the protection cable
- >> Plug in the AC power supply, connect the protective air source, set the parameters, and fix the workpiece to be processed, and then the equipment can be put into production



Lightweight and simple welding torch A variety of nozzle combinations make your operation more flexible

It weighs only 580g, with the control system compatible with pulse and continuous modes and available to switch over among the two modes. The welding torch is of ergonomic structure, being easy for welding, and perfectly meeting the needs of daily welding operations. It is available for free selecting of welding head and adjustable swinging of light spot breadth, making better functional weld seam, and preventing the wider welding seam.



Cutting copper nozzle

External angle self-fusion welding copper nozzle

Internal angle filler wire welding copper nozzle

Thick sheet external-angle filler wire welding copper nozzle

Thin sheet external-angle filler wire welding copper nozzle

Packing list

Commodities	Accessories				
	01 220V power cable *1	06 Protective lens [D20T3]*4			
	02 Key*2	07 Test report*1			
01 Air-cooled laser /1 set	03 [DB25] Handheld welding feeding wire *1	08 Goggles*1			
	04 Welding copper nozzle *8	09 Safety clamp*1			
	05 Wire-feed nozzle assembly (Wire guide pipe*1, wire guide pipe nozzle*4, wire feed kit*1, and wire feed pipe clamp*1) *1				

More accessories optional:







Laser shielding spectacles

Protective lens Wire feed rolls

Outer hexagon wrench

Internal hexagon wrench

bracket

Welder power cable

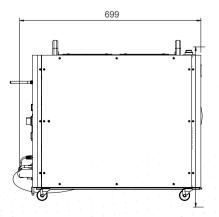
Wire feed signal line

Wire feeder power cable

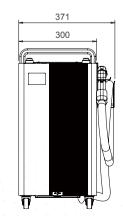
Model	YLPS-Weld-1500-A	YLPS-Weld-2000-A	YLIS-Weld-1500-A	YLIS-Weld-2000-A				
Output power	1500W	2000W	1500W	2000W				
Operating mode	CW / Modulation mode/ Linear array mode/ Pulse mode/ Timing mode							
Output power range (%)		1-100						
Output laser wavelength (nm)	1070 ± 10							
Power stability	< 3%							
Response time	< 5us							
Red diode wavelength	650nm							
Red diode power	<1mW							
Laser welding torch								
Wobble mode	Single							
Wobble format	0~5mm							
Cable length		5m±0.5m (Customizable)						
Others								
Cooling mode	Active air cooling							
Cooling and protective gas	Inert gas (nitrogen, argon)							
Coolant pressure	2-6bar							
Ambient temperature range	-20℃~ 50℃							
Input voltage	220VAC/50Hz							
Power consumption	<4.8 kW < 6.5 kW < 4.8 kW < 6.5 kW							
Ambient humidity range	<95 %							
Dimensions	699 x 371 x 618 mm (L×W×H)							
Weight	<62kg <65kg <62kg <65k							

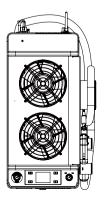
*The YLIS series of standard certified-type products have passed the certifications of CE, FDA, and TUV Rheinland, enjoying the joint warranty services in global service outlets

Dimension



Specifications





Founded in November 2015, GW is specialized in the business on fiber lasers and their supporting solutions. It is a global leader in high-brightness fiber lasers, ushering in the industrialization of bidirectional 976nm pump technology in China. Its technical team has focused on the research and development of lasers for nearly 20 years, enjoying a profound technical accumulation. With "Laser As A Tool" as our mission, we always adhere to the technology to lead the industry trend, center on the customers, constantly create value for users, and provide customers with high-quality and professional fiber laser products and services.



Custom-oriented Global Laser Solution Provider



Laser deployed worldwide



R & D personnel

Patented technology

>1000

4000m²

, base - Zibo

15000m²

6000m²

Optical module production base - Nantong

Shanghai headquarters

Global R&D center Operations center

Customers worldwide

Faster · Better · Smarter

E-mail: sales@gwlaser.tech

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