



Hanheld Laser Welder A1SE40



Six-Level Safety Protection Protecting Both Equipment And Operator

Handheld laser welding is the Class IV laser, and comprehensive protective measures are required to ensure the safe operation of the equipment.





Operators and personnel entering the welding area must wear all personal protective suit and device, including heat-resistant and flame retardant gloves, hats, clothing and accessories, and ensure that the welding work area is free from flammable and explosive materials.

More Nozzle Application



Flat welding ND18-019T



Flat wire-feeding ND18A-05-024T



External corner ND18-021T



0.8-1.0 Wire feeding ND18-187T



1.2-1.6 Wire feeding ND18-188T



Specification Sheet

Specification	Model	Weight	Volume	Dimension	Laser wavelength
Data	FWII-1200	<38kg	<0.1m³	667*276*542mm	1080nm
Specification	Working Mode	Output Power	Input Voltage	Swing Width	Swing Frequency
Data	Continuou s/ Pulse	1200w	220v	0~4mm	0~300hz
Specification	Preset Process Parameters		Rated Power	Welding torch interface type	
Data	32		6000w	QCS	

Packing List

1	Handheld Laser Welder A1SE40	
2	Welding Torch	1pc
3	Wire Feeder (individually Packaged)/ Including wire feeding tube and wire feeding wheel	1set
4	Power Cable	10m
5	Groud Wire	10m
6	Eye Protection (supporrt OD6+)	3pcs
7	Gun Head Rack/ Including hexagon socket head countersunk head screws(4pcs)	1set
8	Armored Cable Rack Including hexagon socket countersunk head screws(8pcs)	1set
9	Copper nozzles 1,3,A, B and flat nozzles	5pcs
10	Protective Lensφ20*3	5pcs
11	Lock Ring Wrench	1pc
12	Filament Nozzle Assembly/ 0.8/1.0/1.2/1.6mm wire feed nozzle and wire frame	1set
13	3 Tip Holder for use of disassembly and assembly of collimating and focusing lens	
14	4 Cotton Swab 25sticks	
15	5 Cotton Swab 25sticks	
16	16 Soundproof Earplugs (3M)	
17	7 High level dustproof Mask	
18	Screwdrive(inner hexagon)	



High Standard

New Generation of Handheld Laser Welder More Application Material & Easier Operation

FW II-1200 as a new generation of handheld laser welder developed by HR laser which is a company belongs MAX Laser features in fast welding speed, good effects, easy to learn and operate. It can greatly improve the production effeciency and reduce welding costs.

Good performance

- 4.0mm ultimate welding depth for stainless steel,
- 1.5mm ultimate welding depth for copper

Good effect

Precision laser control system, stable beam quality, high welding strength, and beautiful welding seams.

Long service life

Phase change heat dissipation technology, adaptive fan speed regulation,2-year warranty for the laser source

Wide application

Suitable for welding various materials, thicknesses, and ultra-thin parts

Fast speed

4-10 times faster than traditional welding ways, improving production efficiency

Remarkable engergy-saving

Compared to xenon arc welding, it saves about 80% to 90% of electricity.

Easy Operation

7-inch touch screen, a new generation intelligent operating system.

Safe enough

Six-level safety measures, pressure monitoring, and high protection for the safety of operators and equipment.

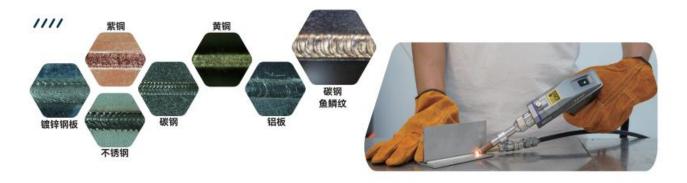
Welding Material	Stainess Steel	Carbon Steel	Galvanized Sheet	Aluminium	Brass	Red Copper
Single sided depth of welding	4mm	4mm	4mm	3mm	3mm	1.5mm
Double sided depth of welding	8mm	8mm	8mm	6mm	6mm	3mm



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Core Technology

Not Only Easy Operation And Efficiency But Also Welding Art



Through the intelligent operating system, users can quickly select the welding parameters based on different materials and thicknesses, high-quality and consistent welds can be achieved by beginners.

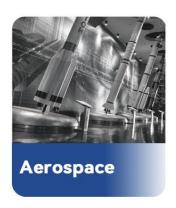
Application Field

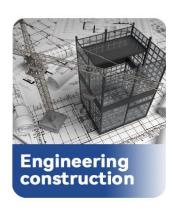














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Industry Upgrade

Say Goodbye To Traditional Welding And Enhance Productivity By Laser



	Traditional Welding V	rs Huanri Handheld Laser Welding		
Labor Costs	Difficult employment and high labor costs	Simple Operation and low labor costs		
Physical Hazards	Occupational disease with great physical harm	Non-direct radiation, low radiation, only laser goggles are needed to filter out strong light.		
Welding Speed	Slow speed and low efficiency	4-10 times faster than traditional welding		
HAZ	Large	Small		
Bending Deformation	Extremely subject to deformation	Not easily deformed		
Welding Quality	The weld seam is coarse and irregular, requiring polishing	Fine and beautiful welding seams, deep depth and high strength of welding		
Welding Seam Damage	There are pores and are easy to weld through	The weld depth is uniform and has good consistency		
Welding Material	Be subject to certain welding material	Wide range of welding materials		
Learning Difficulty	High technical threshold, requiring professional welders	Beginners only need half an hour to master the operation proficiently		



Easy To Take

Small volume and weight make it can be taken by anyway you like.



Volume <0.1m³







Product Lightest

Compact Handheld Design Makes The Welding Work Like Playing





Weight 680g

By applying the collimating QCS interface, it remarkably reduces the dimension and weight of the welding torch which weighs only 680g. The optic design and QCS output perfectly match with each other and enhance the transmittion efficiency. The ergonomic design of the welding gun make it can be handed comfortably and easily. What's more the laser swing function configured inside the welding torch makes welding the wide seam possible.



Easy Operation

Simple Operation System and Intelligent Welding Mode

The new generation handheld laser welding adopts a 7-inch industrial grade LED touch screen, intelligent operating system, and supports simple operation modes, making it easy to learn and operate quickly.

For beginners, it only takes 30 minutes of training to master welding operations, thereby saving training and production costs.32 sets of preset and user-defined process parameters allow users to quickly select welding parameters based on different materials and thicknesses. Beginners can also weld high-quality and consistent welds.

