

# **HRLASER**

## **Welding New Technology**



**A1SE40i A1SE60i**

Introducing the future of mobile welding technology

# Product Specification

Product Model	A1SE40i / A1SE60i
Machine Weight	<38kg
Machine Volume	<0.1m³
Overall Dimensions	667mm*276mm*542mm
Torch Weight	0.68kg
Working Mode	Continuous/Pulse
Laser Wobble	0-4mm
Input Voltage	220VAC
Rated Power	4500W / 6000W



Model	Material	Stainless Steel	Cabon Steel	Galvanized Steel	Aluminium
A1SE40i	Single-side penetration	4.0mm	4.0mm	4.0 mm	3.0mm
A1SE60i	Single-side penetration	6.0mm	6.0mm	6.0mm	5.0mm

# Product Packaging Contents

Handheld Laser (5.6m armored cable included)	1		Protective lens (Φ20*3)	5	
Welding Torch	1		Lock Ring Wrench	1	
Wire Feed Machine (including wire feeder tube,wire feed wheel)	1		Wire Feed Nozzle Assembly	1	
Power Cable (10m)	1		Welding Torch Fixture	1	
Ground Wire (10m)	1		Cotton Swab 1 (25 pcs)	1	
Eye Protection (OD8+)	3		Cotton Swab 1 (25 pcs)	1	
Gun Head Rack	1		Cotton Swab 1 (25 pcs)	5	
Armored Cable Rack	1		Dust Mask	2	
12 pcs of Hexagon socket head countersunk head screws	1		Screwdriver	1	
Nozzles (1, 3, A, B and flat nozzle)	5				

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# Leading the Way in Laser Technology Excellence

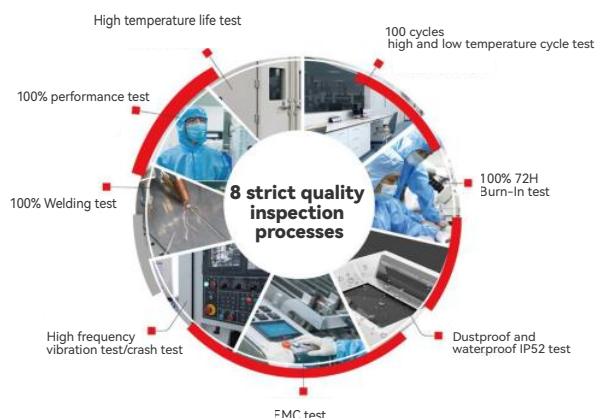
## Professional

HRLaser introduces an advanced, tool-grade, air-cooled laser, forged with the latest laser technology expertise. Our handheld laser welding equipment reimagines welding, offering unmatched ease, efficiency, stability, and reliability.

## Stable

### High-Temperature Endurance Verified

Every machine undergoes eight comprehensive tests for stability, reliability, and quality before it's shipped, ensuring unmatched stability and reliability during usage. Your peace of mind is our priority.



## Reliable

### Reliability Tested in the Hottest Summer in 60 Years

Supported by scientific evidence and factual data, the intelligent phase-change thermal conductivity system demonstrates exceptional heat dissipation performance. This ensures prolonged and stable operation for small and medium-power handheld laser welding equipment.



## Portable

### Lightweight, Portable, and Maintenance-Free

Integrated design, no water tank, no maintenance costs. No need for water refills, no condensation in summer, and no freezing in winter, saving time and cost. Lightweight and easy to carry, suitable for mobile and outdoor welding



**Weight**  
**< 38kg**



**Volume**  
**< 0.1m<sup>3</sup>**



## Secure

**The whole machine is self-developed, with 6 major safety protections, to eliminate the risk of strong electricity and laser**

A1 series products are independently designed, developed and produced by HRLaser, in addition to performance and quality, a full range of safety protection design, effectively ensure equipment safety and life safety.



- Connection reliability detection and protection measures
- Protective air pressure detection and safety alarm
- Welding torch button switch, laser switch
- LOOP safety lock
- Emergency stop button, laser power switch
- Warning light



Handheld laser welding belongs to Class IV laser, in order to ensure the safe operation of the equipment, there is a need for a full range of protective measures

## Compact hand torch for easy hand efficiency

The collimated QCS interface greatly reduces the size and weight of the welding torch, only 680g, the optical design and the QCS output head perfectly match, and the transmission efficiency is high. The welding gun is ergonomic, comfortable to hold and easy to operate. In addition, the welding gun has a built-in laser swing function to achieve wide weld welding.



## Effortless, Efficient, and the Mastery of Welding

The intelligent operating system enables users to swiftly and effortlessly select welding process parameters according to different materials and thicknesses. Even novices can achieve high-quality, consistent welds, showcasing the artistry of welding.

