

Sapphire Series — Product Specifications

Appearance			
Model	S55	S65	S85
Functions	Spot/Continuous Welding, Cutting, Cleaning, Rust Removal	Spot/Continuous Welding, Cutting, Cleaning, Rust Removal	Spot/Continuous Welding, Cutting, Cleaning, Rust Removal
Working Mode	Continuous, quasi-continuous, pulse	Continuous, quasi-continuous, pulse	Continuous, quasi-continuous, pulse
Operating Mode	7-inch screen + Mini program	7-inch screen + Mini program	7-inch screen + Mini program
Wire Feeder	Built-in	Built-in + External	Built-in + External
Wire Reel	H300	H300	H300
Gas Cylinder	External	External	External
Cooling Method	Composite liquid cooling	Composite liquid cooling	Composite liquid cooling
Overall Size	680*315*580mm	680*315*580mm	730*315*580mm
Overall Volume	0.125m³	0.125m³	0.135m³
Total Weight	45kg	49kg	55kg
Welding Gun weight	480g	480g	480g
Output Voltage	AC220V	AC220V	AC220V
Dustproof & Waterproof	IP52	IP52	IP52
Operating Temperature	-20~45°C	-20~45°C	-20~45°C

Sapphire Series — Application Parameters

S55	Materials:	Stainless Steel	Carbon Steel / Iron	Galvanized Sheet	Aluminum	Brass	Copper	
	Penetration Depth:	5.5mm	5.5mm	5.5mm	4mm	3mm	1.5mm	
S65	Materials:	Stainless Steel	Carbon Steel / Iron	Galvanized Sheet	Aluminum	Brass	Copper	
	Penetration Depth:	6.5mm	6.5mm	6.5mm	5mm	4mm	2.5mm	
S85	Materials:	Stainless Steel	Carbon Steel / Iron	Galvanized Sheet	Aluminum	Brass	Copper	
	Penetration Depth:	8.5mm	8.5mm	8.5mm	6.5mm	5.5mm	3.5mm	

HAN'S LASER

Make welding simpler!

Weld Whatever You Want
With Handheld Laser Welder

◆ Sapphire Series Liquid-Cooled Handheld Laser Welder ◆



Customer Support: 400-666-4000

Intelligent Integrated Precise Efficient



High Integration

All-in-one and modular design for easy maintenance.
Every product passes over 3,000 performance tests, 800+ functional tests and 100+ reliability tests to ensure the machine performance and your experience.

Super Portability

Lightweight design for easy transport and mobility, allowing seamlessly switch between indoor and outdoor welding scenarios.
Fearless of operating in extreme cold or hot temperature, instant startup with zero wait time, capable of 24-hour continuous operation.
Exceptional cooling performance ensures long-term stable operation.



High Penetration, Wide Fusion

Continuous laser output, and welding depth increases by 30% at the same power.
Supports multi-wire feeding, enabling weld width up to 8mm.
Ultra-fast performance boosts peak power for deeper penetration, ensuring high efficiency, low energy consumption, and deep weld seams.

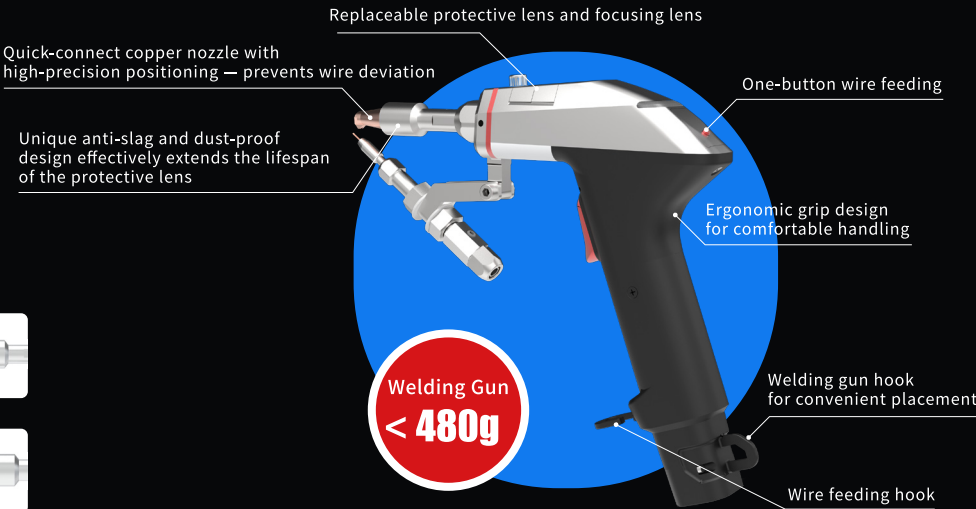
Intelligent System

Interaction and assistance for offline human-machine operation. Supports cloud-based remote diagnostics, upgrades, and safety alerts (interface upgrade options available).
Automatic power calibration with power fluctuation within $\pm 3\%$, and uniform beam brightness.
Precise control: wire feeding stops instantly when the laser stops—no sticking, no wire deviation.
Industrial-grade touchscreen enables instant operation, ushering in a new AI-smart era for integrated handheld laser devices.



Multifunctional Handheld Welding Gun High-Efficiency One-Button Wire Feeding

Uses a collimated QCS interface.
Gun weight is less than 480g.
Integrates spot welding, continuous welding, cutting, rust removal and cleaning.



Sapphire Series — Component Description



Ruby Series — Accessories List

Welding Nozzles 1.0 & 1.2 & 1.6	3 pcs	Wire Feeding Nozzles 0.8 & 1.0 & 1.2 & 1.6	4 pcs
Welding Nozzles D	1 pcs	Wire Feeding Assembly Kit	1 set
Welding Nozzles E	1 pcs	Dustproof Silicone Protective Cover	1 set
Cutting Nozzle	1 pcs	Laser Protective Goggles OD8+	1 pcs
Safety Loop Cable	1 strip	Cleaning Kit	1 set
Gas Purifier	1 pcs	Tool Kit	1 set