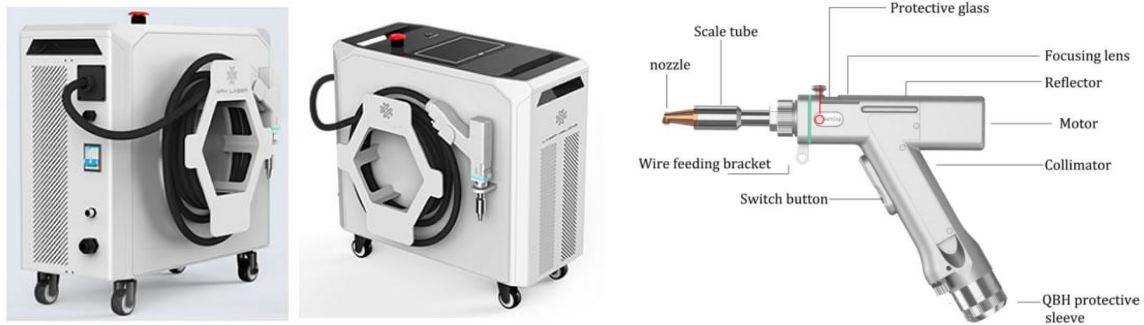


SXF Series Air-cooled Handheld Laser Welding Machines



The advantages of air-cooled handheld laser welding machines mainly include the following points:

- Compact size and strong portability: Its size is similar to that of a computer host, so it is very suitable for on-site operations in terms of operation. On site operations or occasions that require mobile welding.
- Multiple power options available: offers three power options, 700W, 1200W and 1500W, which can adapt to different welding needs, whether it is precision welding or welding of thicker materials.
- Wide welding thickness range: 700W of power is suitable for welding with a thickness of 0.4 to 3 mm, while 1500W of power can handle materials with a thickness of 0.4 to 5mm, covering the most common welding needs.
- Easy to operate: Simply press to start welding, suitable for operators with different skill levels.
- Accurate control of welding parameters: capable of accurately controlling key parameters during the welding process, ensuring welding quality, and meeting high standard welding requirements.

These advantages make air-cooled handheld laser welding machines efficient, flexible, and reliable welding tools, suitable for various industrial and manual welding scenarios.

Technical Specifications

Model Number	SXF-700W	SXF-1200W	SXF-1500W
Laser power	700W	1200W	1500W
Dimension	570x260x540mm	570x260x540mm	570x260x540mm
Weight	29kg	43kg	48kg
Max. power required	2.5kW	4kW	4.5kW
Input voltage	220VAC, 50/60Hz	220VAC, 50/60Hz	220VAC, 50/60Hz
Cooling method	Air-cooled	Air-cooled	Air-cooled
Operation temp.	-20 ~ 40 degree C	-20 ~ 40 degree C	-20 ~ 40 degree C
Laser wavelength	1070nm	1070nm	1070nm
Welding handle length	10m	10m	10m
Welding speed	0-2m/min	0-2m/min	0-2m/min
Welding thickness	0.4-3mm	0.4-4mm	0.4-5mm
Scan width	0-8mm	0-8mm	0-8mm
Welding material	Carbon steel, stainless steel, aluminum, galvanized material & other metal materials		
Pointing light	Red light	Red light	Red light
Capable of functionality	Welding, cutting, cleaning		
Adapted welding wire dia.	0.8/1.0/1.2/1.6/2.0mm		
Automatic wire feeding	Standard configuration		
Welding wire specs.	Solid coiled wire, same as gas-shielded wire		
Welding wire material	Same as welded base material		
Protective gas	Nitrogen, argon, carbon dioxide		
Protective gas flow rate	10-15 liters per minute		

Product Features

POINT 1

All electrical components adopt Schneider and other first-line brands
Stable equipment



POINT 2

Dual protective lens design
Longer lasting and more durable



POINT 3

Drawer type lens design, easy to replace, simple maintenance



POINT 4



POINT 5

Top of screen design
Easy to operate



POINT 6

10 meters welding line
Wide area of use



POINT 7

Complete specification of accessories



POINT 8

Compact device, easy to move



Stainless Steel Welding

Smart Welding →



Aluminum Alloy Welding

Smart Welding →



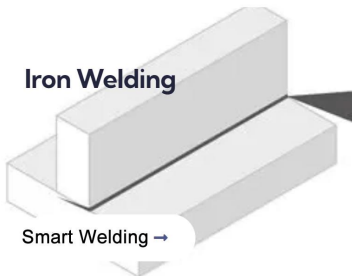
Galvanized Sheet Welding

Smart Welding →



Iron Welding

Smart Welding →



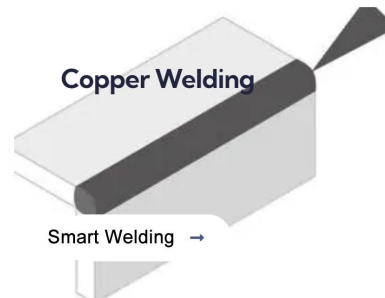
Carbon Steel Welding

Smart Welding →



Copper Welding

Smart Welding →



Comparison with TIG/MIG Welding:

TIG/MIG



VS



Air-cooled laser welding machine

Advantages of air-cooled laser welding machines

- No welding technology required
- Fast welding speed
- Beautiful weld seam
- No grinding
- Small heat distortion
- Low welding fume
- No glare during welding

Water-cooled laser welding VS. air-cooled laser welding

Water-cooled laser welding machine



VS



Air-cooled laser welding machine

Advantages of air-cooled laser welding machines

- Compact and easy to move
- Energy saving of 50% compared to water-cooled equipment
- No need to wait for the machine to start welding
- Maintenance-free mainframe, no need to add water and antifreeze
- Modular design, low failure rate

**Easy operating system
Intelligent machining mode**



Welding at any angle

Welding head can weld workpieces at any angle, suitable for various complex welds and various equipment



Flexible and convenient, Move according to one's heart, Act casually

Welding gun armor cable can be dragged.

weight

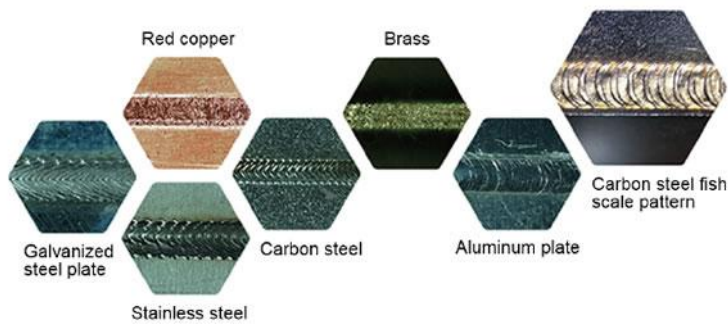
Easy to move by one person

volume

Less than 0.1 cubic meters



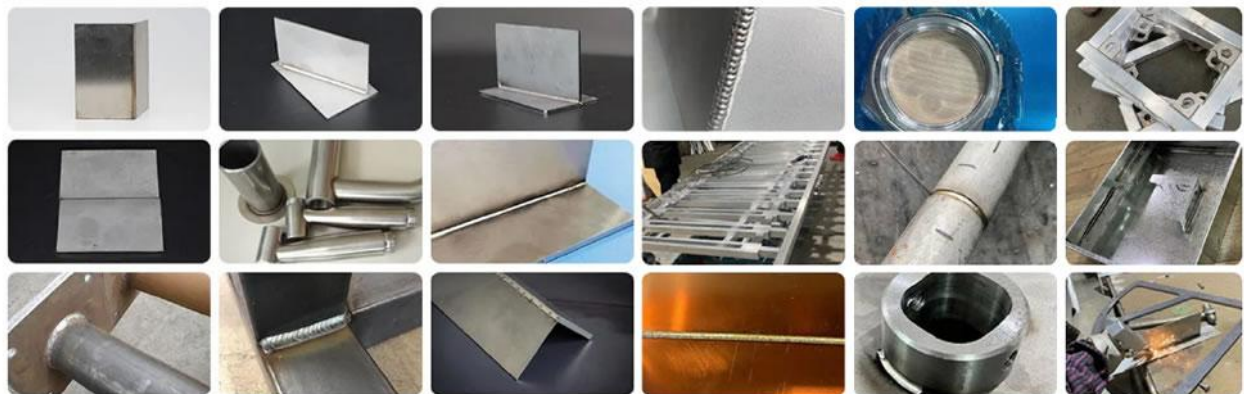
● Not only ease of use and efficiency, but also welding art



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



● Application cases



Packing List

- 1) Laser welding machine, including 10m of welding wire, one unit
- 2) Wire feeder, including wire feed tube, wire feed wheel accessories, one set
- 3) Safety goggles, one pair
- 4) Welding nozzle, five pcs
- 5) Protective lens, 18*2, five pcs (disposables)
- 6) Nozzle assembly, including 0.8/1.0/1.2/1.6mm wire nozzle and wire feeder, one set
- 7) Protective gas connection fittings, one piece

