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**WANWUSANHE**

**Laser Welding Machine**

**Product Manual**

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# WANWU SANHE Laser Welding Machine Product Manual

## Product Introduction

WANWU SANHE handheld laser welding machine adopts a new generation of fiber laser generator, high-power water chiller and intelligent wire feeder, integrating four-in-one functions of welding, cutting, cleaning and derusting. The equipment is easy to operate, with high welding efficiency and excellent weld quality. It can perfectly replace traditional argon arc welding and electric welding, and is widely used in welding processing scenarios of various metal materials.

## Core Parameter Table

Item Name	Parameter Specification
Working Voltage	AC220V 50Hz
Input Power	≤8.5KW
Laser Power	6KW (Maximum Working Current 36A)
Laser Wavelength	1080nm
Fiber Length	10m
Welding Thickness	Stainless Steel/Carbon Steel: ≤6mm; Aluminum: ≤6mm
Scanning Speed Range	2-6000mm/S
Scanning Width Range	0-6mm (0-8mm in Dual Wire Feeder Mode)
Pulse Frequency Range	5-5000Hz (Recommended Value)
Protective Gas	Argon or Nitrogen (Purity ≥99.99%)
Working Ambient Temperature	-10℃ ~ +40℃
Relative Humidity	≤95% Non-Condensing
Control Method	Touch Screen Control (Supports 19 Languages Switching)

# Product Advantages

- A. High Efficiency and Energy Saving: Welding speed is 3-10 times that of traditional argon arc welding, and one equipment can save the cost of 3 welders
- B. High-Quality Weld Seam: The width of the weld seam can be adjusted between 0.1-5mm, the welding surface is beautiful, no weld marks, no discoloration, and no post-polishing is required
- C. Easy Operation: No professional training is required to get started. The welding torch is light in weight and small in size, with an ergonomic design for comfortable grip
- D. Intelligent Monitoring: The system real-time monitors the operating status of the laser, water chiller and control board, and timely feeds back equipment abnormalities
- E. Multi-Functional Integration: Supports four-in-one functions of welding, cutting, cleaning and derusting, adapting to various processing needs
- F. Stable and Reliable: The fully sealed structure has built-in water circuit and air circuit, strong anti-interference ability, and high-quality guarantee for core components
- G. Flexible Adaptation: Can complete all-position welding such as lap welding, butt welding, and internal corner welding, adapting to various metals such as stainless steel, carbon steel and aluminum

# Basic Configuration

Serial Number	Item Name	Quantity	Description
01	Fiber Laser	1 Unit	Keopsys CW20
02	Welding Control System	1 Set	Super Strong Weiye 21T (Four-in-One Function)
03	Handheld Welding Torch	1 Piece	Same as System Brand
04	Dual Wire Feeder	1 Set	Including Power Cord and Wire Feeding Wheel
05	Integrated Water Chiller	1 Unit	Dual Temperature

			Dual Control Hanli SCHYTJ2000
06	Protective Lens	5 Pieces	Free Gift with Machine
07	Dual Wire Feeding Welding Copper Nozzle	1 Set	Total 5 Types, 1 Piece of Each Type, 3 Nozzle Tips
08	Single Wire Feeding Copper Nozzle Accessory Box	1 Set	Total 8 Types, 1 Piece of Each Type
09	Supporting Accessories	1 Set	1 Data Cable, 6 Water Pipe Quick Connectors, 1 Set of Hexagon Socket Accessories

## Application Scenarios

Applicable Materials: Stainless steel, carbon steel, galvanized sheet, aluminum sheet and other metal materials

Applicable Industries: Stainless steel products, advertising industry, food machinery, automobile manufacturing, medical equipment, kitchenware and bathroom, etc.

Welding Processes: Lap welding, butt welding, fillet welding, stud welding, edge welding, T-joint welding, internal corner welding, external corner welding and other all-position welding

## Safety Warnings

- Danger of laser radiation. Operators must wear professional laser protective glasses before operation
- No personnel or flammable and explosive materials are allowed in front of the welding area to prevent laser burns or fire accidents
- The equipment must be reliably grounded to avoid static electricity or electric leakage damaging the equipment and injuring people
- Keep a distance of more than 4 meters from argon arc welding, plasma welding and other equipment to avoid electromagnetic interference

- The main power supply must be turned off before equipment maintenance and repair. Live operation is strictly prohibited

## **After-Sales Service**

1. All equipment has passed strict inspection before leaving the factory, and provides whole-machine quality assurance service (please consult customer service for specific quality assurance period)
2. Provide free technical consultation and operation training services to assist customers in completing equipment installation and commissioning
3. Establish a rapid response maintenance mechanism, and arrange technical personnel to handle it in a timely manner after receiving fault feedback
4. Provide original accessories supply to ensure long-term stable operation of the equipment