

FASTWELDER W-FH HANDHELD LASER WELDER



- FastWelder W1000FH
- FastWelder W1500FH
- FastWelder W2000FH

Easy to learn, without professional welders
Efficiency is 4 times the traditional welding
Multifunctional equipment for welding and cutting



SIEMENS Electronic System
Durable and Contact

**Self-Developed MACWELD
Operating Software**

Full touch operation display
Unique and powerful

**Built-in Constant
Industrial Water Chiller**

Intelligent control, superior performance and environmentally friendly

Brand Laser Source

Good beam quality,
High energy density,
High electro-optical efficiency

Human Design Handle

Reasonable design,
Comfortable grip, Easy to move

Universal Pulley

Strong bearing capacity, universal movement, quiet and wear-resistant

10 Meters Optical Fiber Cable

Suitable for long-distance welding

INTRODUCTION

Handheld Laser welder adopts continuous fiber laser source, and is equipped with self-developed hand-held welding head. In terms of shape, structure and human-machine interface, it is optimized based on humanization and work effectiveness. The hand-held welding joint can be customized according to actual production, which is not often used in non-standard production. It adopts water-cooled design, long-time welding without burning, small diameter and hand-held easily. It has the advantages of simple operation, beautiful welding effect, fast welding speed and no consumables.



Options / Accessories

New Generation Automatic Wire Feeder

Automatic retract , speed up to 6 m/min, suitable for large welding seam processing

Double Wobble Head

Flexible and applicable, only weight 0.88KG (without QBH connector)

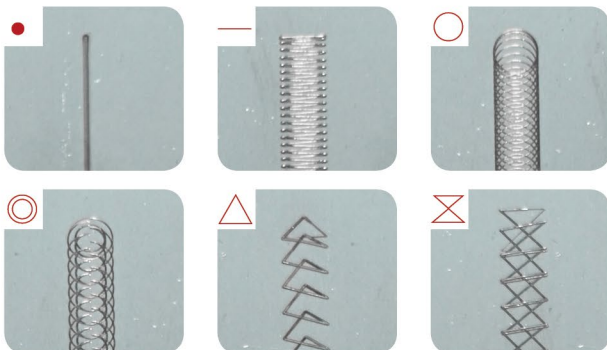


Various Copper Nozzle

Meet different welding needs



Six spot mode, Exquisite welds



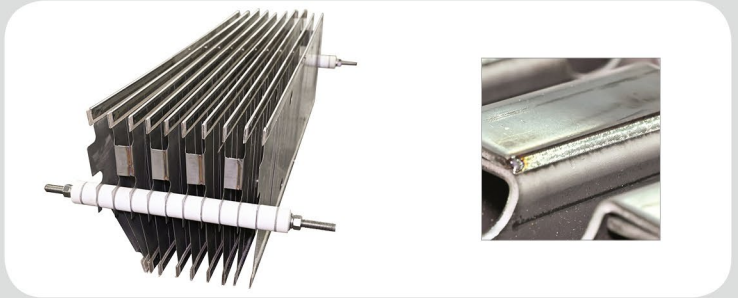
Built-in Wobble Welding

Wobble width up to 5mm



APPLICATION INDUSTRY

It is easy to handle Thick Metal / Thin Metal / High Reflection Metal, including galvanized sheet, aluminum, alloy, stainless steel and other materials
It is mostly suitable for Metalfabrication shops, Construction and piping, Maintenance and repair, Automotive, Advertising, Farm, Furniture & appliances, Medical instruments, Aerospace & transportation.



MATERIAL RANGE

Material	Thickness Single-side Weld	Thickness Double-side Weld
Stainless Steel	Up to 5mm(0.197 in)	Up to 15mm(0.590 in)
Galvanized Steel	Up to 5mm(0.197 in)	Up to 15mm(0.590 in)
Mild Steel	Up to 5mm(0.197 in)	Up to 15mm(0.590 in)
Aluminum	Up to 4mm(0.157 in)	Up to 8mm (0.315 in)

FASTWELDER W-FH VS TRADITIONAL WELDING MACHINE

Type	FastWelder W-FH	Traditional Welder (MIG, TIG)
Speed	Up to 2-10 X	Average
Weld Types	> 6 Types (Including Fish Scale Patterns, etc.)	Single
Welding Heat Quality	Consistent High-Quality Results	Depends on User Experience
Learning Curve	Quick and Easy	Steep
Material Flexibility	Wide Range with No Set Up	Limited with Consumables Changes
Distortion & Deformation	Very Low	High
Heat Affected Zone	Small or None	Large with Burning Color
Wobble Welding	Yes - Additional Weld Width Up to 5mm(0.197 in)	No
Consumables	High with Professional Welder	Welding Rod
Environmental Pollution	Small	Large

WELDING TYPE


DATE-SHEET

Model	FastWelder W1000FH	FastWelder W1500FH	FastWelder W2000FH
Laser Power	1000W	1500W	2000W
Laser Type	Fiber		
Wavelength	1070nm		
Voltage	220V±10% / 50Hz / 30A	220V±10% / 50Hz / 30A 380V±10% / 50Hz / 40A	380V±10% / 50Hz / 40A
Gross Power	< 8000W		
Welding Thickness	< 8mm (0.315 in)		
Welding Gap Requirements	≤ 0.5mm (0.019 in)		
Welding Speed	0 -120 mm/s (0 - 4.724 in/s)		
Welding Head Configuration	Wobble Welding Head		
Beam Divergence Angle	≤ 1.2mrad / m		
Welding Joint Interface	QBH		
Laser Operation	Continuous / Modulation		
Umbilical Cable	< 10m (39.370 in)		
Spot Dia	0.2-2mm Adjustable		
Positioning	Red Pointer		
Cooling	Water Cooled - Inner Industrial Chiller		
Accessories	Safety Glasses, Power Connecting Plug		
Process Gas	Argon, Helium, Argon + CO2 Mix Pressure Approx. 620 kPa, (90 psi)		
Work Environment	5-35 °C (41-95 °F)		
Dimensions (L × W × H)	1200mm (47.244 in) × 600mm (23.622 in) × 1100mm (43.307in)		
Weight	245Kgs (540 lbs)		

User Interface: Touch screen panel controls of laser power, wobble mode, wobble length and frequency. Wobble head with digital display. Laser on / off, Key switch, Chiller on / off button, E-stop button, Status indicator lights.

LYUSTEC LASER

Specializing in developing, manufacturing and selling of industrial laser equipment system and customized automation devices. At present, it has developed into a global laser intelligent equipment service provider integrating automation solutions.

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