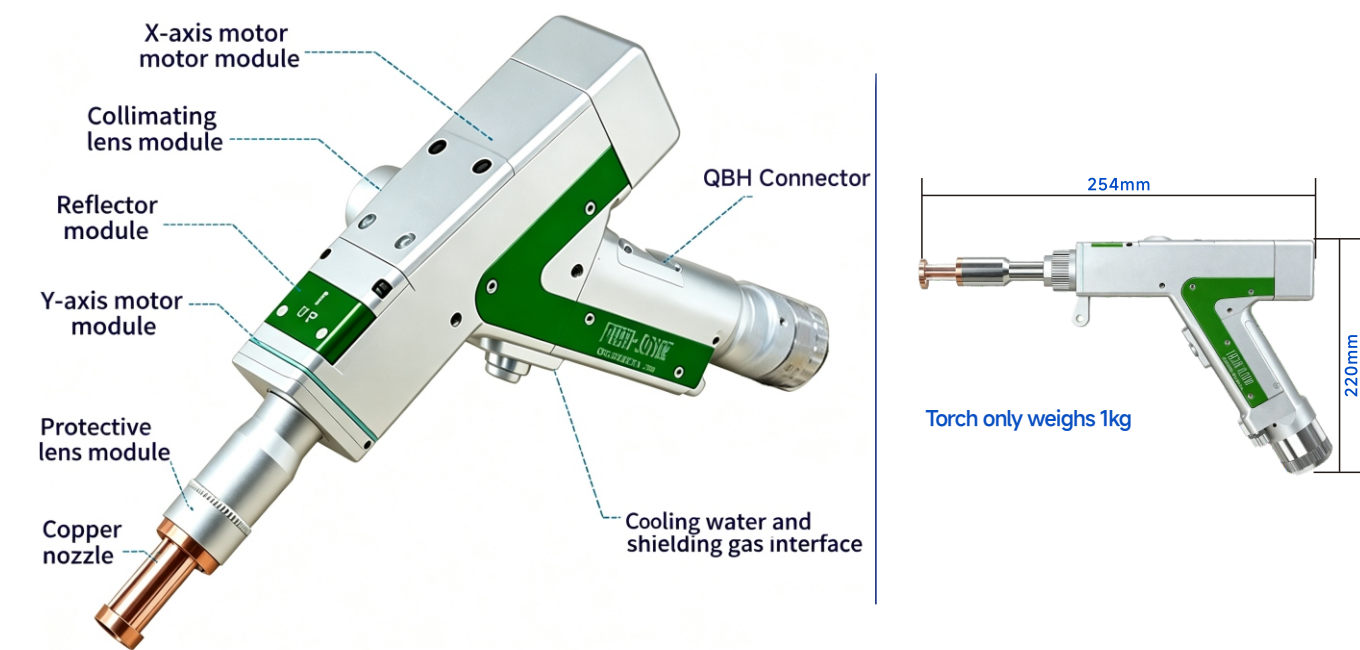


5-in-1 Handheld Laser Welding Machine



The 5-in-1 Handheld Laser Welding Machine features an integrated design, equipped with the latest-generation laser source, an integrated dual-drive automatic wire feeding system, and our independently developed dual-wobble welding torch. With five functions, including welding, cutting, cleaning, weld seam cleaning, and spot welding, it offers versatile performance, excellent beam quality, minimal deformation, attractive weld appearance, and high reliability. Designed for precision welding of complex metal structures, sheet metal components, and various irregular inner corners, outer corners, and joints, it delivers both spot welding and full welding capabilities. Featuring simple operation, superior weld aesthetics, and high welding speed. It is suitable for welding various metal materials such as aluminum alloy sheets, stainless steel sheets, iron sheets, and galvanized sheets. It is an ideal replacement for traditional TIG, MIG, and manual arc welding in many fabrication applications.

Intelligent Dual-Wobble 5-in-1 Welding Torch



Available Scan Patterns for spot welding function



Advantages

- 1. Optional circular, rectangular, linear & fill scanning modes for efficient multi-function welding
- 2. Intelligent optical protection system with real-time status monitoring
- 3. High-threshold optics for better welding performance
- 4. Drawer modular lenses, easy replacement
- 5. Full water cooling for sustained stability
- 6. Ergonomic handle, comfortable grip
- 7. Safe trigger: laser on metal contact, auto shutoff when lifted

Parameters	
Power Level	=<3000W
Collimation Focal Length	40mm
Focus Focal Length	150mm
Vertical Focus Adjustment Range	±10mm
Spot Adjustment Range	Line 0-5mm
Applicable Wavelength	1070±20nm
Weight	1.0Kg

Handheld Laser Welding Machine Specifications



参数	LWM-1500	LWM-2000	LWM-3000
Protective Gas	Argon / Nitrogen	Argon / Nitrogen	Argon / Nitrogen
Power Supply	220V	220V	380V
Auto Wire Feed	Support	Support	Support
Laser Wavelength	1064nm	1064nm	1080nm
Max Power	4.8kW	6.2kW	8.5kW
Weld Gap Req	<0.5mm	<0.5mm	<0.5mm
Aiming and positioning	Infrared	Infrared	Infrared
Robot Auto Welding	Support	Support	Support
Weld Capacity-Al	0.2-3.0mm	0.2-4.0mm	0.2-6.0mm
Weld Capacity-CS	0.2-4.0mm	0.2-5.0mm	0.2-7.0mm
Weld Capacity-SS	0.2-4.0mm	0.2-5.0mm	0.2-7.0mm
Weld Capacity-GS	0.2-3.0mm	0.2-4.0mm	0.2-6.0mm
Welding Speed Range	0-120cm/Min	0-120cm/Min	0-120cm/Min
Net Weight	252kg	274kg	208+88kg
Overall Dimension	1050×750×1170mm	1050×750×1170mm	1050x750x1170mm +650x540x1060mm

5-in-1 Laser Processing Functions

01

Continuous Laser Welding

High energy density welding with firm welds and minimal deformation, compatible with various metals.

02

Laser Cutting

Efficient laser cutting with smooth cuts and fast speed for various metal sheets.

03

Laser Rust Removal

High-energy laser removes rust and oxide layers without damaging substrates, eco-friendly and efficient.

04

Weld Seam Cleaning

Precise laser cleaning of weld seams and surface stains delivers remarkable results to improve workpiece quality.

05

Laser Sopt Welding

Ideal for precision welding of energy storage batteries with solid solder joints and excellent conductivity.

