

Intelligent Laser Welding Solutions

Your Reliable Manufacturing Partner

Laser Welding One-Stop Solution to Empower
Your Metal Manufacturing



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About Us

Riselaser Technology Co., Ltd.

Company Profile

Founded in 2015 and headquartered in Bao'an, Shenzhen, Riselaser is a professional one-stop laser welding solution provider with nearly ten years of experience in intelligent laser equipment manufacturing. We integrate R&D, production and global sales of laser welding machines, automated welding production lines and core laser components, realizing vertical integration from core spare parts, complete equipment to customized welding process solutions for manufacturers worldwide.

Our core product portfolio covers handheld fiber laser welders, robotic automatic welding workstations, precision mold repair welding equipment and special welding machines for new energy batteries



Research Innovation



Quality Manufacturing



International Service



OEM/ODM

CERTIFICATES



Why Partner with Riselaser ?

Trusted Laser Welding Solution Provider

- 10+ years of professional manufacturing experience in integrated laser welding and precision metal processing equipment.
- Serving industrial clients in over 90 countries, our laser welding solutions deliver stable, high-precision results, lower production costs, and drive sustainable growth for our global partners!

Group photo with clients



Certificates & Cooperation



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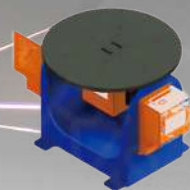
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01 Automatic Laser Welding Workstation

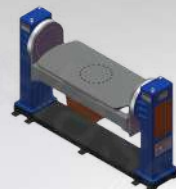
1.1 Robot Laser Welding Machine



Single-Axis Vertical Frame



Dual-Axis Horizontal Rotary



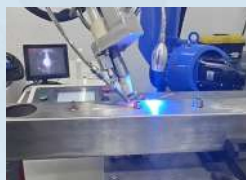
Dual-Axis U-Frame



Product Advantages

- Minimal welding deformation with smooth welds, little grinding required.
- Fast welding speed and high production efficiency.
- 6-axis robot handles complex irregular workpieces.
- Consistent welding quality and fewer defective products.
- Low consumable costs and labor savings.

Welding Samples



Internally Threaded Boss



Guardrail Mesh



Aluminum Scaffolding



Precision Threaded Base



Sheet Metal



Industrial Piping Seal Weld

Product Specifications

Item	Parameter			
Model	RL-FM1500	RL-FM2000	RL-FM3000	RL-FM6000
Power	1500W	2000W	3000W	6000W
Welding Head	Industrial laser welding head (optional: CCD ; Anti-collision)			
Wire Feeder	Automatic push-pull wire feeding system			
Robot	6-axis high-precision robot (optional: weld seam tracking system)			
Optional Accessories	Positioner, ground rail, etc.			

1.2 Cobot Laser Welding Machine



Product Advantages

- No safety fence required, small footprint.
- Human-machine collaborative operation, flexible to use.
- Lightweight and movable, quick product changeover.
- Easy programming, low operation threshold.
- Minimal deformation & nice laser welding seams.

Welding Samples



Tube-Sheet Welding



Tube-Sheet Welding



Plate Splicing Welding



Plate Splicing Arc Welding



Tube Splicing Welding



Tube Splicing Welding

Product Specifications

Item	Parameter			
Model	RL-FW1500	RL-FW2000	RL-FW3000	RL-FW6000
Power	1500W	2000W	3000W	6000W
Welding Head	Industrial laser welding head			
Wire Feeder	Automatic push-pull wire feeding system			
Robot	Collaborative 6-axis robot			
Optional Accessories	Positioner, mobile base, etc.			

1.3 Cobot MIG/MAG Welding Machine



Product Advantages

- Auto wire feed for continuous welding, higher efficiency than TIG.
- Deep single-pass penetration for medium/thick plates, fewer weld passes.
- Robot-compatible, perfect for automated mass production lines.
- High metal deposition rate, cost-effective for mass structural workpieces.
- All-position welding, simple vertical & horizontal welding operation.

Welding Samples



Intermittent Weld



Mechanical Parts Weld



U-groove weld



Construction Machinery



Steel Structure Weld



Golden SS T-joint

Product Specifications

Item	Parameter		
Model	CR7-7	CR5-5	CR12-12
Rated Payload	7kg	5kg	12kg
Max Reach	988mm	1406mm	1434mm
Repeatability	±0.02mm	±0.03mm	±0.03mm
Protection Grade	IP67	IP54	IP67
Robot Body Weight	~25kg	~28kg	~41kg
Welding Machine Model	AOTAI MKA350RL	AOTAINBC500RP PLUS	
Rated Input	3PH AC380V±25%, 50/60Hz		3PH AC380V±15%, 50/60Hz

Cobot MIG/MAG Welding Machine



Product Advantages

- Human-machine collaborative operation, no safety fence required.
- Lightweight robot body, easy moving and quick production switching.
- Drag-to-teach programming, simple operation with low learning cost.
- Stable arc, uniform welding bead, less spatter.
- Continuous long-time welding, stable batch welding quality.

Welding Samples



Iron Frame Welding



Bracket Welding



Steel Structure Weld



Construction Machinery



Construction Machinery



Iron Gate Welding

Product Specifications

Item	Parameter	
Model	RL-Y500	RL-Y600
Welding Power Source	Digital MIG/MAG welding machine	
Wire feeder	Integrated wire feeding unit, adjustable wire speed	
Robot	6-axis high-precision robot	
Optional accessories	Positioner, mobile base, etc.	

1.4 Free Programming Robotic Welding Machine



Product Advantages

- FSCUT No-Teaching System, No manual point teaching needed.
- Real-Time Arc Tracking, Auto adjust for clamping & deformation errors.
- Built-in Welding Database, Auto match parameters for various steels.
- Digital Twin Simulation, Prevent collisions and cut waste.
- Stable Low-Spatter Welding, Consistent welds for mass production.

Welding Samples



I-beam Welding



Frame Welding



Base Welding



Guard shell weld



Divider cell weld



Hopper Welding

Product Specifications

Item	Parameter	
Category	Component	Specification / Note
Robot Unit	6-Axis Industrial Robotic Arm	FANUC/YASKAWA
Control System	Teaching-Free Welding Control System	FSWELD2800/FSWELD3800
Vision System	3D Industrial Camera / Laser Scanner	Scan accuracy up to 0.05mm for seam recognition and 3D reconstruction
Welding System	Welding Power Source	Aotai/ Megmeet
	Wire Feeder	Mounted on the robotic arm
	Welding Torch	Water cooling
Auxiliary Devices	Mobile Guide Rail / Track	8-12M
	Torch Cleaner	/

1.5 Multi-Axis Linkage Fiber Laser Welding Machine



Product Advantages

- Multi-Axis Linkage for Omnidirectional 3D Welding.
- Flexible Fiber Laser Output for Versatile Processing.
- Minimal Heat-Affected Zone to Prevent Workpiece Deformation.
- Dense, Robust Welds with Superior Air Tightness.
- Programmable Automation Ensures Stable Mass Production.

Welding Samples



Splicing Welding



Welding Profile



Inner Corner Welding



Sealed Welding



Rotary Welding



Dissimilar Material Welding

Product Specifications

Item	Parameter			
Model	RL-F1500D	RL-F2000D	RL-F3000D	RL-F6000D
Power	1500W	2000W	3000W	6000W
Welding Head	High-Speed Oscillating Welding Head (optional: CCD ; Anti-collision)			
Wire Feeder	with optional automatic wire feeding system			
Welding Work Platform	3-axis / 4-axis / 5-axis / 6-axis gantry (optional: weld seam tracking system)			
Optional Accessories	Clamp, rotary, positioner, etc.			

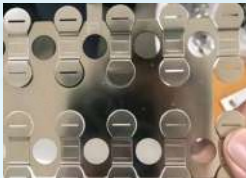
1.6 Galvotype Fiber Laser Welding Machine



Product Advantages

- Galvo-Driven Beam Travel Greatly Boosts Productivity.
- Weldable for Various Materials & Dissimilar Metals.
- Controllable Heat Input Prevents Burn & Distortion on Micro-Parts.
- Easy Programming & Arbitrary Graphic Editing.
- Optional Coaxial Vision Positioning for High Error Tolerance.

Welding Samples



Precision Micro-Welding



Pattern Welding



Battery Cover Seal Welding



Electrode Welding



Module-level Welding



Li-Battery Electrode Welding

Product Specifications

Item	Parameter			
Model	RL-FA1500	RL-FA2000	RL-FA3000	RL-FA6000
Power	1500W	2000W	3000W	6000W
Welding Head	High-speed Galvanometer Welding Head (CCD Vision Capturing System Optional)			
Welding Worktable	3-axis(4-axis/5-axis/6-axis Gantry) Linked Control			
Optional Accessories	Clamp, rotary, positioner, etc.			

02 Mold Repair Laser Welding Series

2.1 Joint Arm Laser Welding Machine (QCW)



Product Advantages

- QCW laser delivers strong welds, tiny heat zone and no mold deformation.
- Built-in chiller guarantees stable long-time welding.
- Articulated arm, omni wheels & 3-axis joystick for flexible multi-angle positioning.
- 180° rotatable laser head for convenient all-side repair welding.
- Equipped with a quick-rotating parameter screen, parameters can be easily adjusted.

Welding Samples



Small Mold



Injection Mold



Edge Repairing



Surface Filling



Hole Repairing



Mold Repairing

Product Specifications

Item	Parameter	
Power	150W	300W
Laser Wavelength	1080±5nm	1080±5nm
Laser Frequency	1-30Hz	1-30Hz
Pulse Width	1-20ms	1-20ms
Spot Size Adjustment Range	0.2-3mm	0.2-5mm
Aiming & Positioning	Microscope (optional camera system)	Microscope (optional camera system)
Chiller Cooling Power	0.6P	0.6P
Rated Power Consumption	2.5kW	3kW
Power Supply Requirement	220V±5V 50/60Hz	220V±5V 50/60Hz

2.2 Joint Arm Laser Welding Machine (CW)



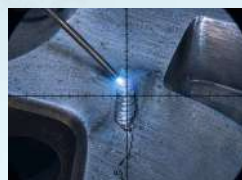
Product Advantages

- QCW laser delivers strong welds, tiny heat zone and no mold deformation.
- Built-in chiller guarantees stable long-time welding.
- Articulated arm, omni wheels & 3-axis joystick for flexible multi-angle positioning.
- 180° rotatable laser head for convenient all-side repair welding.
- Equipped with a quick-rotating parameter screen, parameters can be easily adjusted.

Welding Samples



Mold Corner Repair



Injection Mold



Edge Repairing



Surface Filling



Hole Repairing



Mold Surface Restoration

Product Specifications

Item	Parameter	
Power	150W	300W
Laser Wavelength	1080±5nm	1080±5nm
Laser Frequency	1-30Hz	1-30Hz
Pulse Width	1-20ms	1-20ms
Spot Size Adjustment Range	0.2-3mm	0.2-5mm
Aiming & Positioning	Microscope (optional camera system)	Microscope (optional camera system)
Chiller Cooling Power	0.6P	0.6P
Rated Power Consumption	2.5kW	3kW
Power Supply Requirement	220V±5V 50/60Hz	220V±5V 50/60Hz

2.3 Jib Arm Laser Welding Machine (QCW)



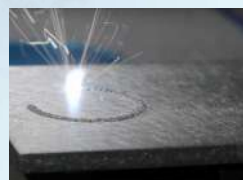
Product Advantages

- QCW laser delivers strong welds, a tiny heat zone, and no mold deformation.
- Built-in chiller guarantees stable long-time welding.
- Articulated arm, omni wheels & 3-axis joystick for flexible multi-angle positioning.
- 180° rotatable laser head for convenient all-side repair welding.
- Equipped with a quick-rotating parameter screen, parameters can be easily adjusted.

Welding Samples



Small Item Repair



Spot Welding



Aluminum Wire Repairing



Stainless Steel Mold



Tiny Part Repairing



Mold Repair

Product Specifications

Item	Parameter		
Power	150W	200W	300W
Laser Wavelength	1080±5nm		
Laser Frequency	1-30Hz	1-30Hz	1-30Hz
Pulse Width	1-20ms	1-20ms	1-20ms
Spot Size	0.2-3mm	0.2-5mm	0.2-5mm
Aiming & Positioning	Microscope (optional camera system)	Microscope (optional camera system)	Microscope (optional camera system)
Chiller Cooling Power	0.6P	0.6P	0.6P
Rated Power Consumption	2.5kW	3kW	5kW
Power Supply Requirement	220V±5V 50/60Hz	220V±5V 50/60Hz	220V±5V 50/60Hz

2.4 Compact Jib Arm Laser Welding Machine (CW)



Product Advantages

- Water-cooled Jib Arm CW Mold Welding Machine.
- Integrated Water-Cooling System for Extended Operation.
- Enhanced Mobility and Positioning.
- User-Friendly Interface with Quick Parameter Adjustment.
- Easy maintenance compared to YAG machines.

Welding Samples



Injection Mold Repairing



Injection Mold Repairing



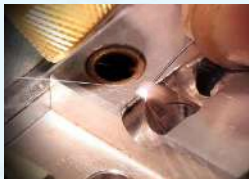
Injection Mold Repairing



Small Item Repair



Small Item Repair



Small Item Repair

Product Specifications

Item	Parameter	
Power	1500W	2000W
Laser Wavelength	1080±10nm	1080±10nm
Laser Frequency	1-25Hz	1-25Hz
Working mode	Continuous / Pulse	Continuous / Pulse
Pulse Width	1-60ms	1-60ms
Aiming & Positioning	Microscope (optional camera system)	Microscope (optional camera system)
Chiller Cooling Power	1500W	2000W
Rated Power Consumption	7kW	9kW
Power Supply Requirement	220V±5V 50/60Hz	220V±5V 50/60Hz

2.5 Compact Jib Arm Laser Welding Machine (QCW)



Product Advantages

- QCW laser delivers strong welds, a tiny heat zone, and no mold deformation.
- Built-in chiller guarantees stable long-time welding.
- Articulated arm, omni wheels & 3-axis joystick for flexible multi-angle positioning.
- 180° rotatable laser head for convenient all-side repair welding.
- Equipped with a quick-rotating parameter screen, parameters can be easily adjusted.

Welding Samples



Edge Repairing



0.2-1.0mm Wires



Hole Filling



Wire Welding Samples



Injection Mold Repairing



Edge Repairing

Product Specifications

Item	Parameter		
Power	150W	200W	300W
Laser Wavelength	1080±5nm		
Laser Frequency	1-30Hz	1-30Hz	1-30Hz
Peak Power	1500W	2000W	3000W
Pulse Width	1-20ms	1-20ms	1-20ms
Spot Size	0.2-3mm	0.2-5mm	0.2-5mm
Aiming & Positioning	Microscope (optional camera system)	Microscope (optional camera system)	Microscope (optional camera system)
Rated Power Consumption	3.3kW	4.2kW	5.5kW
Power Supply Requirement	220V±5V 50/60Hz	220V±5V 50/60Hz	220V±5V 50/60Hz

2.6 Boom-type Laser Welding Machine (CW)



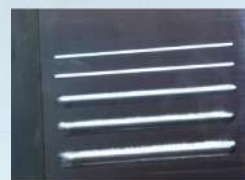
Product Advantages

- Dual-temperature dual-control chiller ensures stable long-term performance during high-power welding.
- Electrically lifted worktable base with precision ball screw and high-accuracy linear rail – smooth, precise, up to 100 kg load.
- Sliding laser head with water-cooled lens; 90° rotation for easy side repair welding
- Deep, firm welds with full fusion, no pores or pitting; clean and neat repair marks.

Welding Samples



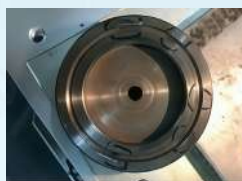
Welding Circle



Different Welding Mark



Round Welding



Inner Welding



Different Wires & Weld Marks



Inner Circle Welding

Product Specifications

Item	Parameter	
Model	RLW-1500W-LX	RLW-2000W-LX
Power	1500W	2000W
Laser frequency	1-30Hz	
Chiller cooling power	1.5P	3P
Rated power	8kW	12kW
Position System	Red Light	
Focusing cavity reflector	Imported ceramic focusing cavity	
3D load-bearing worktable travel	Three-dimensional load-bearing worktable travel	
3D load-bearing workbench travel load	100KG	

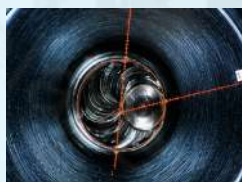
2.7 Rotary Type Laser Welding Machine (YAG)



Product Advantages

- Advanced auto-shading system to reduce eye strain.
- 360° rotating laser head, large worktable for molds, electric lift.
- Touchscreen interface - simple and easy to use.
- Argon gas protection keeps product color and weld quality intact.
- High welding energy, melts thicker wire than standard machines, stable performance.

Welding Samples



Smooth and Strong Welds



Repairing Complex Molds



Minimal HAZ



Precision Mold Repair



Repair and Fill the Dents



Repairing Mold Wear

Product Specifications

Item	Parameter	
Model	RLW-200W-260	RLW-400W-260
Power	200W	400W
Laser frequency	1-20Hz	1-30Hz
Chiller cooling power	1.5P	3P
Rated power	8kW	12kW
Aiming and positioning	Microscope (optional CCD system)	
Focusing cavity reflector	Imported ceramic focusing cavity	
3D load-bearing worktable travel	Three-dimensional load-bearing worktable travel	
3D load-bearing workbench travel load	100KG	

2.8 Platform Type Laser Welding Machine (CW)



Product Advantages

- Precision Repair: Perfect for intricate laser components and mold restoration.
- Multi-material Welding: Fits structural & precious metal parts.
- Flawless Results: Strong, clean welds with minimal heat deformation.
- Dual-Purpose Design: Suits heavy industrial workpieces and tiny precision components.

Welding Samples



Mold Hole Repair



Edge Filling



Molding Repairing



Mold Redesign



Tiny Part Repair



Edge Repairing

Product Specifications

Item	Parameter	
Model	RLW-YM200-YMJW	RLW-YM400-YMJW
Output Power	200W	400W
Laser wavelength	1064nm	
Rated power	8kW	12kW
Spot size adjustment range	0.2-2mm	0.3-3mm
Cooling system	1.5P	3P
Targeting and positioning	CCD or microscope	

2.9 Platform Type Laser Welding Machine (YAG)



Product Advantages

- Dual-temperature dual-control chiller for stable long-term and high-power welding.
- Electrically lifted base with precision ball screws and high-accuracy linear rails; smooth movement, precise positioning, 100 kg load capacity.
- Sliding laser head with water-cooled objective lens; easy 90° rotation for side repair welding.

Welding Samples



Repairing Chipped Edges



Precisely Fill the Defects



Mold Repairing



Fills Chips & Dents



Mold Surface Restoration



Mold Surface Restoration

Product Specifications

Item	Parameter	
Model	RLW-FM1500-YIIIW	RLW-FM2000-YIIIW
Power	1500W	2000W
Laser frequency	1-30Hz	
Chiller cooling power	1.5P	3P
Rated power	7kW	12kW
Aiming and positioning	Microscope (optional CCD system)	
Focusing cavity reflector	Imported ceramic focusing cavity	
3D load-bearing worktable travel	Three-dimensional load-bearing worktable travel	
3D load-bearing workbench travel load	100KG	

2.91 Compact Platform Laser Welding Machine (YAG)



Product Advantages

- Premium Ceramic Cavity: High power, long lifespan, and extreme durability.
- Built-in Chiller: Continuous, highly stable long-term welding.
- 100kg Precision Worktable: Motorized lifting with smooth, precise positioning.
- Flexible Laser Head: 120° rotation and 30° tilt for easy multi-angle welding.

Welding Samples



Die Edge Cladding



Micro Component Repair



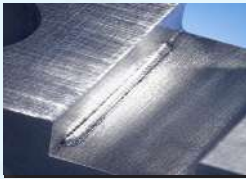
Micro Hardware Joint



Mold Surface Restoration



Precision Laser Welding



Precision Seam Welding

Product Specifications

Item	Parameter
Model	RLW-YM200-YMJW
Output Power	200W
Laser wavelength	1064nm
Rated power	8kW
Spot size adjustment range	0.2-2mm
Cooling system	1.5P
Targeting and positioning	CCD or microscope

03 Portable Handheld Laser Welding Series

3.1 QCW Portable Spot Welding Machine



Product Advantages

- Welds 0.1mm ultra-thin material without burnthrough; creates clean, aesthetic welds.
- Supports long-duration, non-stop welding for multiplied efficiency.
- Handles various metals from ultra-thin components up to 1.5mm sheets.
- Lightweight design for easy movement and use in various scenarios.

Welding Samples

Advertising Welding

Advertising Welding

Advertising Welding

Thin-Sheet Welding

Thin-Sheet Welding

Sheet Metal Cutting

Product Specifications				
Item		Unit	Parameter	
Product Model		--	S1	S2
Average Power		W	300	
Peak Power		W	600	1000
Laser Wavelength (nm)		nm	1080 ±5	
Pulse Frequency (Hz)		Hz	1 - 300	
Modulation Frequency (Hz)		Hz	1 - 5000	
Max. Single-Pulse Energy (J)		J	6J	10J
Output Fiber Length (m)		m	2~3	
Cooling Method		--	Air-Cooled	
Touch Display		inch	5-inch (Laser Controller)	
Dimensions (mm)		mm	374.5 × 191 × 330	
Weight (kg)		kg	11.5	14.5

3.2 RLW-AIO Air-cooled Integrated Handheld Welder



Built-in wire feeder

lightweight integrated design for easier welding & simpler maintenance.



Product Advantages

- Air-cooled all-in-one, maintenance-free & energy-saving.
- Fast smooth welding, minimal post-grinding.
- Wide material compatibility, oscillating welding support.
- Lightweight easy operation + full safety protection.

Welding Samples



SS Welding ≤ 4mm



CS Welding ≤ 4mm



Al Welding ≤ 4mm



Stainless Steel Welding



Aluminium Welding



Tube Welding

Product Specifications

Item	Parameter		
Model	RLW-AIO-W800	RLW-AIO-W1300	RLW-AIO-W1600
Laser Source Type	Air-cooled Continuous Fiber Laser		
Power Range	1%~100%		
Wavelength	1080±10nm		
Power Instability	≤ 3%		
Pilot Indication	Red Pilot Laser		
Input Voltage	Single Phase 220V,50/60Hz		
Consumption	2.5kW	3.5kW	4kW
Weight	51kg	55kg	59kg

RLW-AIO Air-cooled Integrated Handheld Welder



Built-in wire feeder

lightweight integrated design for easier welding & simpler maintenance.



Product Advantages

- Air-cooled all-in-one, maintenance-free & energy-saving.
- Multi-functional Integrated Machine, Wide Application Scenarios.
- Stable Wide Temperature Adaptability, All-season Usable.
- Strong Welding Penetration, Excellent Processing Capacity.

Welding Samples



1.6mm Ext Fillet Weld



2mm Inside Fillet Weld



Carbon Steel Arc Weld



Auto Component Weld



Auto Component Weld



Stainless Steel Weld

Product Specifications

Item	Parameters	
Model	RL-AIO-W700	RL-AIO-W1200
Total weight	≤ 35KG	≤ 45KG
Overall dimensions	606mm*340mm*550mm	630mm*493mm*660mm
Weight of the welding torch	0.65KG	
Operating mode	Welding/Cutting/Rust removal/Weld cleaning	
Input voltage	AC 220V	
Cooling method	air-cooled	
Operating temperature	-20℃ ~45℃	

3.3 RLW-H Water-cooled Handheld Laser Welder



Product Advantages

- Ultra-stable laser energy with $\leq 3\%$ power fluctuation for uniform processing effect.
- Water-Cooled: 8-hour continuous full load operation.
- Full-Process Multi-Function: covers pre-weld cleaning and post-weld slag removal.
- 10m Reach: Flexible fiber cable reaches tight gaps and high areas.

Welding Samples



Metal Welding



Aluminium Alloy Welding



Stainless Steel Welding



Stainless Steel Gate



Chair Joint Welding



Tube Welding

Product Specifications

Item	Parameter			
Model	RLW-H1500W	RLW-H2000W	RLW-H3000W	RLW-H6000W
Laser Source Type	Water-cooled Continuous Fiber Laser			
Power Range	1%~100%			
Wavelength	1080±10nm			
Power Instability	$\leq 3\%$			
Pilot Indication	Red Pilot Laser			
Input Voltage	Single Phase 220V,50/60Hz		Three Phase 380V, 50/60Hz	
Consumption	3.3kW	7kW	9kW	12kW
Weight	130kg	130kg	220kg	250kg

3.4 RLW-H Water-cooled Handheld Laser Welder (5 in 1)



Welding



Cleaning



Cutting



Battery Welding



Weld Seam Cleaning

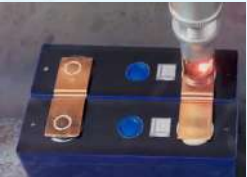
Product Advantages

- Premium configuration & stable overall performance.
- Water-Cooled: 8-hour continuous full load operation.
- Efficient welding with superior molding effect.
- Wide industry application coverage.
- Compatible with collaborative robots for automated production.

Welding Samples



Battery Welding



Battery Welding



Reinforcing Rib Welding



Stainless Steel Gate



Kitchen Utensils



Tube Welding

Product Specifications

Item	Parameter		
Model	RL-F1500	RL-F2000	RL-F3000
Laser source	FiberLaser		
Laser Power	1500W	2000W	3000W
Fiber cable Length	10M		
Wavelength	1080nm		
Cleaning width	10-600mm		
Cleaning Head	Dual Axis		
Cooling	Water cooling		
Temperature	10-40 °C		
Voltage	Single Phase 220V,50Hz		3 Phase 380V,50Hz

RLW-H Water-cooled Handheld Laser Welder (5 in 1)



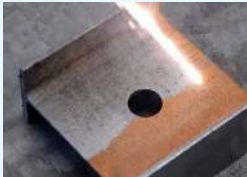
Product Advantages

- 5-in-1 All-in-One Machine, Save Cost & Space.
- Dual-Axis Intelligent Oscillation, Easy Operation with Perfect Welds.
- Lightweight & Low-Maintenance Design.
- Full Intelligent Monitoring & Remote APP Control.
- Wide Industry Compatibility & Flexible Upgrade.

Welding Samples



Battery Welding



Laser Cleaning



Weld Seam Cleaning



Stainless Steel Gate



Kitchen Utensils



Tube Welding

Product Specifications

Item	Parameter		
Laser Source	1.5kW	2kW	3kW
Standard Welding Torch	RELFAR FWH30-DS10E (Single Wire Feeding) / FWH30-DS20E (Dual Wire Feeding) 5-in-1 Welding Torch		
Laser Wavelength	1070±20 nm		
Fiber Connector	Standard QBH Interface		
Standard Fiber Cable Length	10m		
Control System	7-inch Industrial Touch Screen		
Wire Feeder	Compatible with 0.8 / 1.0 / 1.2 / 1.6 mm Welding Wire		
Cooling System	No External Water Tank Required)		
Positioning	Red Light Aiming Indicator		
Safety Protection	Torch Trigger Emergency Stop/Lens Temperature Real-time Monitoring/ Optical Path Fault Alarm		
Core Functions	5-in-1 Switchable		

LASER WELDING APPLICATIONS

-  Fast welding. Low heat input. Cleaner weld seams.
-  Easy operation for various metals and complex parts.
-  Strong joints. Less finishing. Lower overall cost.

01 ADVERTISING SIGNAGE



 **Application:** Stainless steel letters, lightbox frames, metal sign shells.

★ **Key Advantage:** Fine weld seams, less distortion, less polishing.

02 SHEET METAL FABRICATION



 **Application:** Cabinets, enclosures, electrical boxes, thin sheet joints.

★ **Key Advantage:** Fast and stable welding for thin metal parts.

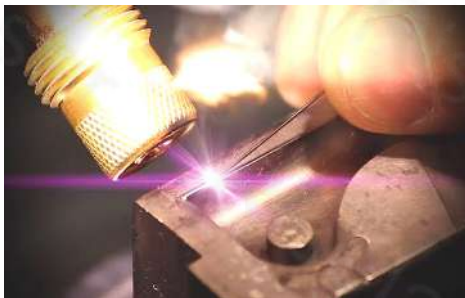
03 HARDWARE & TUBING



 **Application:** Round tubes, square tubes, frames, fittings, handrails.

★ **Key Advantage:** Flexible welding for joints and complex structures.

04 INJECTION MOLDS



 **Application:** Mold repair, edge build-up, local repair, part restoration.

★ **Key Advantage:** Precise repair with low heat input.

05 AUTOMOTIVE PARTS



 **Application:** Brackets, exhaust parts, frames, motor housings, repair welding.

★ **Key Advantage:** Strong welds with consistent quality.

06 EV BATTERY



 **Application:** Battery trays, housings, supports, PACK structures.

★ **Key Advantage:** Stable welds, low spatter, higher assembly efficiency.

07 CONSTRUCTION MACHINERY

 **Application:** Covers, structural brackets, hydraulic parts, on-site repair

★ **Key Advantage:** Durable welding for large and heavy parts



DATASHEET

Riselas

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