

Choose **HPT**, Not Just for Equipment | But for **Peace-of-Mind Service**

From delivery and training to after-sales support,
four commitments safeguard every welding process.

1. Global Remote Support | Rapid Response, Reduced Downtime

Reach our support team via email anytime. We respond swiftly to minimize downtime risks.

2. Professional Technical Support | Parameter optimization for a quick start

Welding tests and parameter tuning ensure fast, optimal performance.

3. Original Parts Supply | Ample inventory for a worry-free supply

Ready stock of original parts ensures uninterrupted production.

4. Full Warranty | Reliable Care, Peace of Mind

Fast technical support and troubleshooting minimize your downtime.

Ready to Use • Full Standard Kit

Delivering Productivity, Not Just Equipment

Full kit included for instant production.

■ Core Precision Consumables

	Item	Quantity	Product No.
Nozzle Kit	Nozzle FAS-08	1 PC	MW010403331
	Nozzle FAS-10	1 PC	MW010403332
	Nozzle FAS-12	1 PC	MW010403333
	Nozzle FAS-16	1 PC	MW010403334
	Nozzle FC-20	1 PC	MW010403337
	Nozzle FS-01 (Pre-installed)	1 PC	MW010403336
	Scale Tube (Pre-installed)	1 PC	
	Wire Guide Tube	1 PC	MW010402308
	Contact Tip 0.8mm	1 PC	MW010403338
	Contact Tip 1.0mm	1 PC	MW010403339
	Contact Tip 1.2mm	1 PC	MW010403340
	Contact Tip 1.6mm	1 PC	MW010403341
	Weld Seam Cleaning Nozzle F150	1 PC	MW010402140
	Cleaning Assembly (Cleaning Air Ring + Cleaning-Specific Focusing Lens)	1 SET	MW010402141
	Protective Lens (1 Pre-installed + 4 Spares)	5 PCS	MW010403220
	Focusing Lens (Welding) (Pre-installed)	1 PC	MW010403208
	Focusing Lens (Cleaning) (Included in the cleaning assembly)	1 PC	MW010403209
	Reflective Mirror (Pre-installed)	1 PC	MW010403211
	Collimating Lens (Pre-installed)	1 PC	MW010403210
	Wire Feed Roller V0.8/V1.0 (Pre-installed)	2 PCS	MV970900105
	Wire Feed Roller V1.2/V1.6	2 PCS	MV970900106

■ Laser Safety Gear

Item	Quantity	Product No.
OD8+ Laser Safety Goggles	1 PC	MW010600108
Protective Gloves	1 Pair	

■ Energy Storage Welding Nozzle Assembly

Item	Quantity	Product No.
Energy Storage Welding Nozzle Tube	1 PC	
Energy Storage Welding Nozzle - Square	1 PC	MW010403303
Energy Storage Welding Nozzle - Round	1 PC	MW010403304

■ Cables & Hoses

- 3M Wire Feeder Power Cable
- 5M Wire Feeder Signal Cable
- 5M Wire Feed Tube (Product No. MW010402144)
- 4M Gas Hose
- 10M Safety Loop Cable

■ Cleaning & Maintenance Tools

- Torch Dust Cover (1 Set) / QBH Dust Cover (1 Set)
- Torch Stand (1 PC) / Torch Assembly Cable Bracket (1 PC)
- Cotton Swabs (1 Pack) / Thread Seal Tape (1 Roll)
- Hex Key Wrench Set (1 Set)

Items with Product numbers are in stock for stable and fast supply.



Evolution of the 5-in-1 Laser System | Energy Storage Welding Mode

Energy Storage Tech | Low Heat, High Efficiency

Uses low average power and peak output to release energy rapidly, narrowing the heat zone for fast cooling. Achieves minimal deformation and discoloration, ideal for thin plates and high-aesthetic parts.

Diverse Scanning | Precise Heat Control

Features 8 built-in scan types (circle, rectangle, straight line, etc.) and 4 variable linear modes. Flexible waveform combinations with adjustable scan counts and cycles enhance weld quality and stability.

Quick-Switch Design | Simple & Productive

Swap to the "Energy Storage Nozzle Assembly" to instantly enter welding mode, enabling flexible multi-tasking and boosting efficiency.



Scan / Click to watch **YouTube**
Energy Storage Welding Test Video



Energy Storage Welding Nozzle Assembly

▶ 2 nozzle styles available

Product No.	Item
MW010403303	Energy Storage Welding Nozzle - Square
MW010403304	Energy Storage Welding Nozzle - Round

Surface Cleaning (Rust Removal)

Instant Rust & Contamination Removal
Restores Metal to its Pure Original Finish

Non-destructive, high-efficiency cleaning rapidly removes rust, oil, and coatings to restore the metal's original finish, boosting precision and adhesion. It supports up to a 100mm scan width for maximum efficiency on large workpieces. To operate, power off to swap the cleaning lens and air ring, then enter the password for one-click activation.

Weld Bead Cleaning

Non-Destructive Oxide Layer Removal
Perfectly Enhancing Weld Bead Craftsmanship

Using precise, high-frequency laser pulses, this system efficiently removes post-weld oxides and discoloration up to 12mm wide without damaging the base metal. Simply swap to the dedicated nozzle and switch the interface to start instant, precision weld cleaning.



▲MW010402141 Cleaning Assembly
(Cleaning Air Ring + Cleaning-Specific Focusing Lens)



▲MW010402140
weld Seam cleaning nozzle(F150)





Class 4 Laser Safety Warning

This high-power, high-energy laser causes skin burns and permanent vision damage from direct or indirect exposure. Operators must wear EN 207:2017 (OD8+, 900–1100 nm) compliant HPT-OD8+ goggles at all times.



▲MW010600108

OD8+ Laser Safety Goggles



Scan/Click to watch **YouTube**
Laser Safety & Operation Video

Laser Power Supply

【Raycus】Global Fiber Laser Leader

High Efficiency: >35% electro-optic efficiency saves energy.

Anti-Reflection: Stable output on aluminum and brass protects

Extends module lifespan with lower maintenance risks.



▲ZA010000011

2000W Laser Power Supply

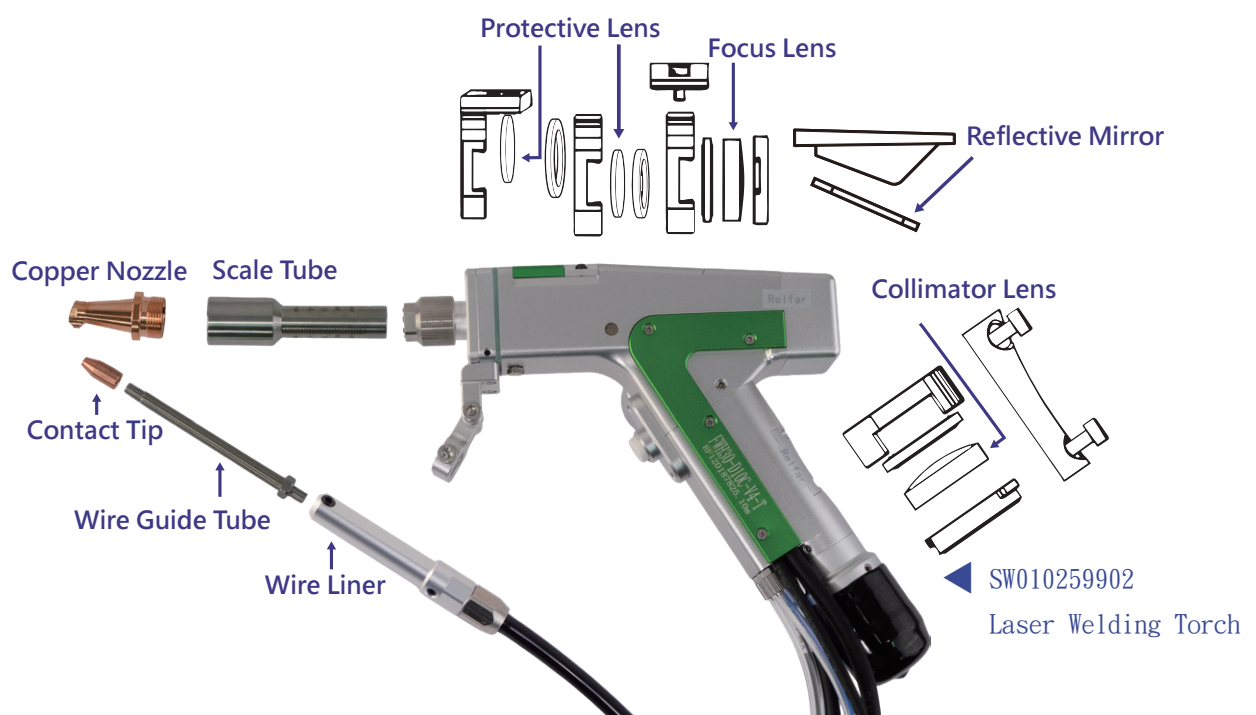
Laser Welding Torch and Accessories Structure Diagram

【Relfar】Dual-Axis Wobble Laser Welding Torch

Flexible: Precision dual-axis tech supports multiple wobble modes.

Stable: Ultra-stable output under continuous high-power operation.

Perfect Welds: Delivers uniform, smooth finishes for high-quality precision machining.



SW010259902
Laser Welding Torch



Dedicated for Laser Welding Torches | Copper Nozzle

Precision nozzles ensure smooth gas flow and wire feeding. Use original forged red copper nozzles for a stable arc and beautiful welds, preventing defects from third-party specification errors.

Product No.	Item	Application	Wire Size
MW010403331	Copper Nozzle FAS-08	[Standard] Fillet Welding	0.8mm
MW010403332	Copper Nozzle FAS-10	[Standard] Fillet Welding	1.0mm
MW010403333	Copper Nozzle FAS-12	[Standard] Fillet Welding	1.2mm
MW010403334	Copper Nozzle FAS-16	[Standard] Fillet Welding	1.6mm
MW010403337	Copper Nozzle FC-20	[Standard] Dedicated cutting nozzle, suitable for cutting various plates	-
MW010403336	Copper Nozzle FS-01	[Standard] Lap/Butt welding, ensuring flat and beautiful welds	-
MW010403328	Copper Nozzle FCS-08	[Optional] Outside Corner Welding	0.8mm
MW010403301	Copper Nozzle FCS-10	[Optional] Outside Corner Welding	1.0mm
MW010403302	Copper Nozzle FCS-12	[Optional] Outside Corner Welding	1.2mm
MW010403329	Copper Nozzle FCS-16	[Optional] Outside Corner Welding	1.6mm
MW010403330	Copper Nozzle FCS-20	[Optional] Outside Corner Welding	2.0mm
MW010403335	Copper Nozzle FAS-20	[Optional] Fillet Welding	2.0mm

Dedicated for Laser Welding Torches | Lenses

Laser lenses are critical to welding and cleaning quality. Original lenses feature high damage thresholds and superior thermal stability, ensuring precise focal spots and stable energy output during long-term operations. **Specification Units: D=Diameter, T=Thickness, F=Focal Length / Unit: mm**

Product No.	Item	Specs / Qty (Box)	Applications
MW010403220	Protective Lens	D25*T2 / 5PCS	First Defense: Blocks spatters and dust to protect core components.
MW010403208	Focusing Lens (Welding)	D20*F150 / 1PC	Deep Welding: Converges energy for fine, stable welds.
MW010403209	Focusing Lens (Cleaning)	D20*F1000 / 1PC	Wide Cleaning: Expands width for efficient rust, oil, and paint removal.
MW010403211	Reflective Mirror	L27*W14*T2 / 1PC	Low Loss: Dielectric coating minimizes optical energy loss.
MW010403210	Collimating Lens	D16*F40 / 1PC	Path Alignment: Maintains parallel beams for consistent accuracy.

Premium Kit Available for Purchase

The professional accessory pack includes:

Welding Copper Nozzles: Internal corner nozzles (0.8mm–1.6mm)
FAS-08, FAS-10, FAS-12, FAS-16

Cutting Assembly: Dedicated cutting nozzle (FC-20)

Wire Feeding System: Wire guide tube & contact tips(0.8mm–1.2mm)

Core Protection: Protective lenses (D25*T2) * 4 PCS

► [SJ010000138](#) Laser Welding Copper Nozzle Kit



Wire Feeder Specific | Consumables

Welding Requirements

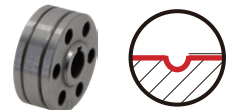
Stainless Steel / Carbon Steel

Aluminum Alloy / Copper

Choose "V-Groove" feed rollers for high grip, ensuring stability without slippage.



Choose "U-Groove" feed rollers to prevent deformation, ensuring gentle guidance.



Item / Product No.	Specifications	Applicable Wire Size
V-Groove Feed Rollers MV970900105	Ø37*Ø10*V0.8/1.0	0.8/1.0mm
V-Groove Feed Rollers MV970900106	Ø37*Ø10*V1.2/1.6	1.2/1.6mm

Item / Product No.	Specifications	Applicable Wire Size
U-Groove Feed Rollers MV970900107	Ø37*Ø10*U0.8/1.0	0.8/1.0mm
U-Groove Feed Rollers MV970900108	Ø37*Ø10*U1.2/1.6	1.2/1.6mm

Wire Liner



Item	Product No.	Specifications
Wire Liner	MW010402144	2.0mm*5M

Graphite Wire Liner



Item	Product No.	Specifications
Graphite Wire Feed Tubes	MW010402145	1.6mm*5M

Wire Guide Tube



Item / Specifications	Product No.
Wire Guide Tube	MW010402308

Contact Tips ↓



Item / Specifications	Product No.
[Standard] Contact Tip / 0.8mm	MW010403338
[Standard] Contact Tip / 1.0mm	MW010403339
[Standard] Contact Tip / 1.2mm	MW010403340
[Standard] Contact Tip / 1.6mm	MW010403341
[Optional] Contact Tip / 2.0mm	MW010403342

Original Parts & Full Technical Support

- **Genuine Guarantee:** Choosing HPT parts ensures long-term, stable operation. Our 100% compatible parts maintain consistent quality and extend laser component lifespan.
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- **Expert Consultation:** Our local team provides operational and application support to quickly optimize your welding parameters and stability.
- **Rapid Maintenance:** Share your model, serial number, and issue for immediate diagnostics to minimize downtime risks.
- **Contact Us:** Welcome to email us. Our specialists will help match the most suitable welding configuration for you.

