

## 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 AS-12                                 | 1 PC     | MW010403319 |
|                          | Nozzle ES-12                                 | 1 PC     | MW010403322 |
|                          | Nozzle CS-12                                 | 1 PC     | MW010403321 |
|                          | Nozzle BS-16                                 | 1 PC     | MW010403320 |
|                          | Nozzle FS-16                                 | 1 PC     | MW010403323 |
|                          | Nozzle C                                     | 1 PC     | MW010403324 |
|                          | Nozzle S                                     | 1 PC     |             |
|                          | Nozzle H                                     | 1 PC     |             |
|                          | Nozzle AS-20D                                | 1 PC     |             |
| Lenses                   | Scale Tube FT-80                             | 1 PC     |             |
|                          | Protective Lens (1 Pre-installed + 5 Spares) | 6 PCS    | MW010403219 |
|                          | Focusing Lens (Welding) (Pre-installed)      | 1 PC     | MW010403202 |
|                          | High-Reflective Mirror (Pre-installed)       | 1 PC     | MW010403206 |
| Wire Feeding Accessories | Collimating Lens (Pre-installed)             | 1 PC     | MW010403205 |
|                          | Wire Guide Tube 60mm                         | 1 PC     | MW010402306 |
|                          | Wire Guide Tube 100mm                        | 1 PC     | MW010402307 |
|                          | Contact Tip 0.8mm                            | 1 PC     | MW010403324 |
|                          | Contact Tip 1.0mm                            | 1 PC     | MW010403325 |
|                          | Contact Tip 1.2mm                            | 1 PC     | MW010403326 |
|                          | Contact Tip 1.6mm                            | 1 PC     | MW010403327 |
|                          | Wire Liner                                   | 5 M      | MW010402139 |
|                          | 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 Glasses | 1 PCS    | MW010600108 |
| Protective Gloves         | 1 Pair   |             |

### ■ Cables & Hoses

- 5M Wire Feeder Power Cable
- 7M Wire Feeder Signal Cable
- 4M Gas Hose
- 10M Safety Loop Cable

### ■ Cleaning & Maintenance Tools

- Torch Dust Cover | 1 PC
- QBH Dust Cap | 1 Set
- Torch Holder | 1 PC
- Torch Assembly Cable Bracket | 1 PC
- Wire Feeder Casters | 4 PCS
- Cotton Swabs | 1 Pack
- Thread Seal Tape | 1 Roll
- Hex Key Wrench Set | 1 Set
- Open-End Wrenches (12/14 & 14/17) | 1 Each

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





### Class 4 Laser Safety Warning

This is a high-power Class 4 laser device. Direct or indirect exposure causes skin burns and permanent vision loss. To ensure safety, always wear HPT-OD8+ laser safety glasses complying with EN 207:2017 (OD8+, 900-1100 nm) during operation.



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



▲ MW010600108  
OD8+ Laser Safety Glasses

### High-Spec Optical Protection X Reinforced Design

### Building a Laser Safety Shield to Protect Your Eyes

|                         |                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------|
| Standards & Regulations | EN 207:2017 (Complies with EU Personal Protective Equipment Regulation (EU) 2016/425)    |
| Material                | Lens: Polycarbonate                                                                      |
|                         | Frame: TR90                                                                              |
| Laser Protection Level  | Provides superior OD 8+ optical density protection in the 900nm–1100nm wavelength range. |
| Robustness Rating       | Rated S (Increased Robustness), offering excellent mechanical strength and durability.   |

### Laser Power Source

**Raycus Fiber Laser** : A global leader in fiber lasers, featuring over 35% electro-optical conversion efficiency to lower energy consumption. Its advanced anti-reflection mechanism protects the laser core, ensuring stable output when processing highly reflective materials like aluminum and brass, extending module lifespan, and reducing maintenance risks.



▲ ZA010000010  
1500W Laser Power Source

**HW2000-5 5-in-1** | Exclusive **Energy-Storage Welding Mode**. Compare & Choose Yours.

#### Energy-Storage Tech | Low Heat, High Efficiency

Uses low average power + peak impulse output to release energy instantly, shrinking the HAZ (heat-affected zone) and speeding up cooling. This ensures minimal deformation/discoloration and fine weld beads—ideal for thin sheets and high-aesthetic workpieces.

#### Versatile Scanning | Precise Heat Input Control

Features 8 scan patterns and 4 linear modes for custom waveforms. Adjustable scan counts and cycles ensure superior, stable weld beads.



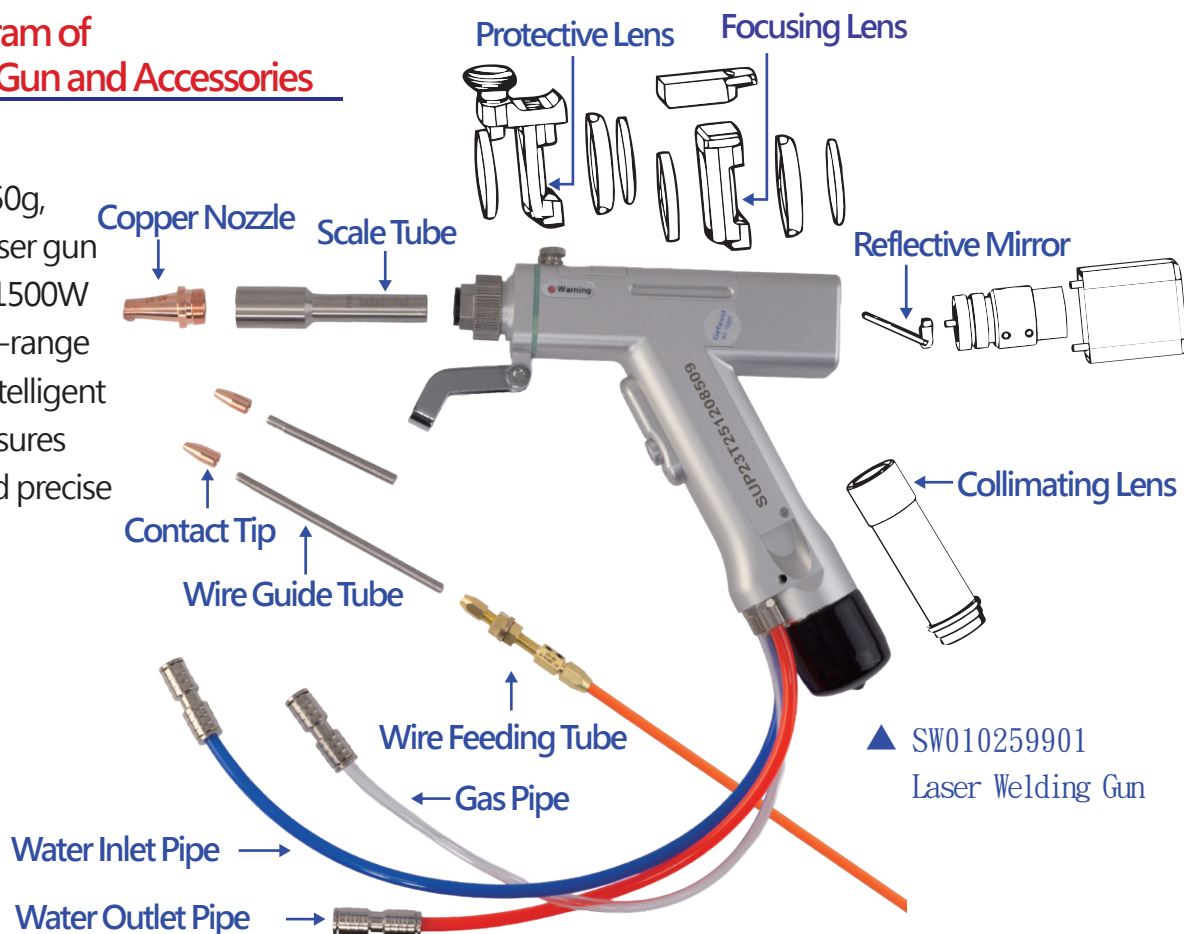
Scan/Click to watch **YouTube**  
Energy-Storage Welding Demo Video



### Structure Diagram of Laser Welding Gun and Accessories

#### Suplaser

Weighing just 750g, the integrated laser gun supports stable 1500W output and wide-range cleaning. With intelligent monitoring, it ensures safe, efficient, and precise welding.



### Laser Welding Gun Special | Lenses

Laser optical lenses are key indicators determining welding and cleaning quality. Original lenses possess high damage thresholds and excellent thermal stability, ensuring your equipment maintains precise focal spots and stable energy output during prolonged operation.

| Item / Product No.                           | Specification / Quantity (per Box) | Application                                                                               |
|----------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------|
| Protective Lens<br>MW010403219               | D18*T2/5PCS/5PCS                   | <b>【Standard】</b> First line of defense, blocking spatters.                               |
| Focusing Lens (Welding Only)<br>MW010403202  | D20*4.5*F150/1PCS                  | <b>【Standard】</b> Precise focusing, ensuring stable deep penetration welding quality.     |
| Focusing Lens (Cleaning Only)<br>MW010403203 | D20*4.5*F400*W60mm/1PCS            | <b>【Optional】</b> Applicable for 60mm width cleaning, balancing efficiency and precision. |
| Focusing Lens (Cleaning Only)<br>MW010403204 | D20*4.5*F800*W120mm/1PCS           | <b>【Optional】</b> Dedicated for 120mm large-area cleaning.                                |
| Reflective Mirror<br>MW010403206             | M30*14*T2/1PCS                     | <b>【Standard】</b> High-reflectivity design, reducing energy attenuation.                  |
| Collimating Lens<br>MW010403205              | D16*T5*F60/1PCS                    | <b>【Standard】</b> Optical path alignment, maintaining high-quality output.                |

Specification Units: D=Diameter, T=Thickness, F=Focal Length / Unit: mm



## Copper Nozzle Kit(Available for Individual Purchase)

**Original High-Quality Forged Red Copper:**  
**Ultimate Conductivity, Excellent Heat Dissipation, Spatter Resistance**

The precision of the nozzle directly affects the auxiliary gas flow and smooth wire feeding. Using original forged red copper nozzles is the only guarantee to maintain a stable arc and beautiful weld seams, effectively avoiding welding defects caused by third-party specification errors.

| Kit Components         | Application                                | Applicable Wire Diameter | Available Separately / Product No. |
|------------------------|--------------------------------------------|--------------------------|------------------------------------|
| ❶ Copper Nozzle AS-12  | Flat / Fillet / Outside Corner Welding     | 0.8 / 1.0 / 1.2          | Available Separately / MW010403319 |
| ❷ Copper Nozzle ES-12  | Thin Plate Outside Corner Welding          | 0.8 / 1.0 / 1.2          | Available Separately / MW010403322 |
| ❸ Copper Nozzle CS-12  | Outside Corner Welding                     | 0.8 / 1.0 / 1.2          | Available Separately / MW010403321 |
| ❹ Copper Nozzle BS-16  | Flat / Fillet / Outside Corner Welding     | 1.6                      | Available Separately / MW010403320 |
| ❺ Copper Nozzle FS-16  | Outside Corner Welding                     | 1.6                      | Available Separately / MW010403323 |
| ❻ Copper Nozzle C      | Outside Corner Welding without Filler Wire | N/A                      | Available Separately / MW010403324 |
| ❼ Copper Nozzle S      | Cutting Adapter                            | N/A                      | N/A                                |
| ❽ Copper Nozzle H      | Cutting / Single Layer 1.5mm               | N/A                      | N/A                                |
| ❾ Copper Nozzle AS-20D | Weld Bead Cleaning / Dual Wire Feeding     | 2.0                      | N/A                                |
| ❿ FT-80                | Scale Tube                                 | N/A                      | N/A                                |

## Standard Configuration × Optional Upgrades Flexible Adaptation to Different Working Conditions

| Item                  | Standard Copper Nozzle    | Anti-Spatter Copper Nozzle   |
|-----------------------|---------------------------|------------------------------|
| Spatter Adherence     | Prone to Buildup          | Resistant to Adherence       |
| Gas Flow Stability    | More Easily Affected      | Stable and Uniform           |
| Weld Bead Quality     | Stable Performance        | Smoother and More Consistent |
| Service Life          | Standard Lifespan         | Significantly Improved       |
| Maintenance Frequency | Requires Regular Cleaning | Low Maintenance Requirements |



### ▲ SJ010000137 Laser Welding Copper Nozzle

This quick-start nozzle kit helps beginners gear up instantly, featuring individual consumable purchases for highly flexible and cost-saving maintenance.

## Upgraded Anti-Spatter Copper Nozzle

**Advanced Structure** : Utilizing an "embedded end-cap design" to significantly enhance the physical shielding effect.

**Gas Protection** : Equipped with 6 dedicated gas guide holes on both sides of the center hole, ensuring stable airflow during welding and reducing the weld seam oxidation rate.

**Dual Protection** : Combining end-cap shielding and airflow guidance to effectively prevent spatter blockage and extend the lifespan of the protective lens.



| Product No. | Item                             | Application                                | Applicable Wire Diameter |
|-------------|----------------------------------|--------------------------------------------|--------------------------|
| MW010403343 | Anti-Spatter Copper Nozzle AS-12 | Flat / Fillet / Outside Corner Welding     | 0.8 / 1.0 / 1.2          |
| MW010403346 | Anti-Spatter Copper Nozzle ES-12 | Thin Plate Outside Corner Welding          | 0.8 / 1.0 / 1.2          |
| MW010403344 | Anti-Spatter Copper Nozzle CS-12 | Outside Corner Welding                     | 0.8 / 1.0 / 1.2          |
| MW010403345 | Anti-Spatter Copper Nozzle C     | Outside Corner Welding without Filler Wire | -                        |





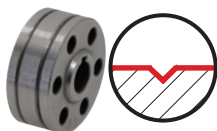
#### Wire Feeder Special | Consumables

#### Welding Requirements

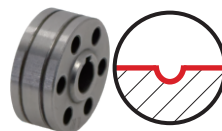
Stainless Steel / Carbon Steel

Aluminum Alloy / Copper

Select "V-Groove" Wire Feed Roller  
High grip, stable and non-slip



Select "U-Groove" Wire Feed Roller  
Prevents deformation, gentle guiding



| Item / Product No.                       | Specification    | Applicable Welding Wire |
|------------------------------------------|------------------|-------------------------|
| V-Groove Wire Feed Roller<br>MV970900105 | Ø37*Ø10*V0.8/1.0 | 0.8 / 1.0mm             |
| V-Groove Wire Feed Roller<br>MV970900106 | Ø37*Ø10*V1.2/1.6 | 1.2 / 1.6mm             |

| Item / Product No.                       | Specification    | Applicable Welding Wire |
|------------------------------------------|------------------|-------------------------|
| U-Groove Wire Feed Roller<br>MV970900107 | Ø37*Ø10*U0.8/1.0 | 0.8 / 1.0mm             |
| U-Groove Wire Feed Roller<br>MV970900108 | Ø37*Ø10*U1.2/1.6 | 1.2 / 1.6mm             |

Red Steel Wire Feeding Tube



Graphite Wire Feeding Tube



| Item                        | Product No. | Specification |
|-----------------------------|-------------|---------------|
| Red Steel Wire Feeding Tube | MW010402138 | 1.6mm*3M      |
| Red Steel Wire Feeding Tube | MW010402139 | 1.6mm*5M      |

| Item                       | Product No. | Specification |
|----------------------------|-------------|---------------|
| Graphite Wire Feeding Tube | MW010402136 | 1.6mm*5M      |
| Graphite Wire Feeding Tube | MW010402137 | 2.0mm*5M      |

Select a 60mm or 100mm wire guide tube length based on the depth requirements of the welding operation.



Select a matching contact tip based on the welding wire diameter.



| Applicable Welding Operations / Description                                                            | Item / Specification  | Product No. |
|--------------------------------------------------------------------------------------------------------|-----------------------|-------------|
| Standard operations, flexible and versatile, suitable for over 90% of welding operations.              | Wire Guide Tube 60mm  | MW010402306 |
| Specialized for deep holes, narrow gaps, and other restricted spaces, improving operational precision. | Wire Guide Tube 100mm | MW010402307 |

| Item / Specification | Product No. |
|----------------------|-------------|
| contact tip / 0.8mm  | MW010403324 |
| contact tip / 1.0mm  | MW010403325 |
| contact tip / 1.2mm  | MW010403326 |
| contact tip / 1.6mm  | MW010403327 |

#### Original Parts Supply: Stable, Precise, and Efficient

Original HPT parts are the best investment for stability. Delivering 100% compatibility, they ensure consistent quality and extend core laser lifespan.

#### Parts Purchasing & Technical Consultation

Welcome to email us. Our specialists will help match the most suitable welding configuration for you.

