

Laser Welding & Cleaning Solutions

Precision Welding × Smart Cleaning × Efficient Manufacturing

Air-Cooled Laser Welder



**Unique
Dual-Voltage
Design**

- ✓ Multi-Function Laser
- ✓ High Efficiency
- ✓ Superior Quality

Cleaning & Rust Removal



- ✓ MOPA Pulsed Cleaning
- ✓ Fine Clean × No Damage
- ✓ Clean Any Material

Water-Cooled Laser Welder



- ✓ High Power × Production
- ✓ 5-in-1 Versatility
- ✓ Dual Cooling × 24H Duty

— 40+ R&D & Manufacturing **HPT** 4 Service Commitments —

Choose HPT.

Choose Peace of Mind.

- ✓ **Local Service** | Fast Response
- ✓ **Technical Support** | Smooth Integration
- ✓ **Genuine Spare Parts** | Reliable Quality
- ✓ **Full Warranty** | Worry-Free Operation

華豐科技企業股份有限公司

HERO POWER TECHNOLOGY CORP.

TEL : +886-2-2298-3669

E-mail : sales@heropower.com.tw

2F, No.8, Wugong 5th Rd., Xinzhuang Dist., New Taipei City 242, Taiwan

HPTweb



Catalog



LINE



Videos



About HEROPOWER

Accumulated with abundant experience of R&D and manufacturing in Inverter Arc Weld & Cut equipment since 1986, Hero Power Technology Corp. (Taiwan) cooperated with Power Arc LLC (U.S.A) and established the second production base, Power Arc Tech. Co., Ltd (Shanghai) in 2001. HERO POWER persists in executing the quality system strictly to ensure producing excellence. All of HERO machines have been certificated by CCC (China Compulsory Certification) auditing. Depending on our high-level quality characteristics and prompt, effective service system, HREO POWER production has marketed in Taiwan, Singapore, Malaysia, Indonesia, Thailand, Vietnam, Australia, Mainland China and other countries.

We have been persisting in the point, 'Striving for Perfection', as the guide line of our actions, manufacturing is strictly in accordance with the international standards [ISO] and the state standards [GB], so as to acquire and ensure every product is in high quality.

HERO POWER TECHNOLOGY CORP.

華豐科技企業股份有限公司

NO.8, WU-KUNG 5 RD., NEW TAIPEI INDUSTRIAL PARK TAIPEI 242 TAIWAN
TEL:+886-2-2298-3669 Email:sales@heropower.com.tw
<http://www.heropower.com.tw>



POWER ARC TECHNOLOGY (Shanghai) Co.,Ltd

寶諾陽電源科技(上海)有限公司

NO.166, Jiuting Town Chaofu Road, Shanghai Songjiang Zone, Jiangsu, China
TEL:+86-021-54290101 Email:sales@powerarc.com.cn
<http://www.powerarc.com.cn>



HPT CONTENTS

HeroPowerTech

Laser Optical Equipment

About HEROPOWER 2

Product Lineup 4

Air-Cooled Laser Welder 6

30E / 800W / 4 IN 1 6

40E / 1000W / 4 IN 1 7

50C / 1300W / 4 IN 1 8

Air-Cooled Laser Cleaning & Rust Removal 9

P300-5 / 300W / MOPA Pulsed Laser Cleaning 9

75C / 1800W / Continuous Laser Cleaning 10

Water-Cooled Laser Cleaning & Rust Removal 11

HW2000-C / 2000W / Continuous Laser Cleaning 11

Water-Cooled Laser Welder 12

HW1500 / 1500W / 4 IN 1 12

HW2000 / 2000W / 4 IN 1 18

HW2000-2 / 2000W / 4 IN 1 / Dual Wire Feeding 24

HW2000-5 / 2000W / 5 IN 1 / Energy-Storage Welding 25

Optical & Precision Accessories 31

OD8+ Laser Safety Goggles 31

Air-Cooled Series | Lightweight Deployment × Flexible Operation

30E Mobile Processing Powerhouse

680W

- ✓ Dual Voltage | 110V/220V Ready
- ✓ Lightweight Design | Easy Carry
- ✓ On-Site Operation | Flexible Use
- ✓ Repair Solution | Fast Maintenance Solutions

Metal Processing | Equipment Repair | On-Site Construction | Auto Parts

Unique
Dual-Voltage
Design



40E High-Efficiency Processing

1000W

- ✓ Stable Output | Reliable Performance
- ✓ Multi-Material | SS / Carbon Steel / Aluminum

Metal Processing | Fabrication | Manufacturing | Small-Medium Production



50C Air-Cooled Flagship Model

1300W

- ✓ All-in-One Design | Mobile Ready
- ✓ 480g Torch | Lightweight Control
- ✓ Air Cooling | Instant Start
- ✓ 7" Touchscreen | Smart Setup
- ✓ 5.0mm Penetration | Multi-Material Welding

Metal Processing | Manufacturing | Repair | On-Site Construction | Auto Parts



Water-Cooled Series Mass Production × High Power

HW2000-5

2000W

5-in-1 Industrial Welding System

- ✓ 5-in-1 Function | All-in-One Solution
- ✓ Dual Water Cooling | Stable Output
- ✓ Smart Wire Feeding | Quality Weld Beads
- ✓ Industrial Grade | Built for Mass Production



Heavy Industry | Thick Plates | Automation | Shipbuilding | Heavy Machinery

Precision Pulsed Laser Cleaning

P300-5

300W

Precision × Zero Damage

- ✓ Pulsed Laser | Low Heat Damage
- ✓ Precision Cleaning | Delicate Parts
- ✓ Surface Protection | Material Safe

Semiconductor | Medical | Aerospace | Automotive | Precision Molds

300mm Continuous Laser Cleaning

75C

1700W

Lightweight × Efficient Cleaning

- ✓ Lightweight Design | Easy On-Site Operation
- ✓ High-Power Output | Fast Rust Removal
- ✓ Smart Dual-Wobble | Uniform Cleaning
- ✓ Air Cooling | No Water Chiller

HW2000-C

2000W

High Power × Long Duty

- ✓ 2000W High Power | Large-Area Cleaning
- ✓ Smart Dual-Wobble | Stable Processing
- ✓ Smart Control | Multi-Mode Operation
- ✓ Industrial Cooling | Long-Duty Operation

Metalworking | Shipbuilding | Automotive | Construction | Pipelines



Available in 1500W–2000W configurations to match your processing needs.

HW1500

1500W (Single Wire)



HW2000

2000W (Single Wire)



HW2000-2

2000W (Dual Wire)



HPT HeroPowerTech

40+ R&D & Manufacturing

Choose HPT.

Choose Peace of Mind.

4 Service Commitments

- ✓ Local Service | Fast Response
- ✓ Technical Support | Smooth Integration
- ✓ Genuine Spare Parts | Reliable Quality
- ✓ Full Warranty | Worry-Free Operation

Air-Cooled	30E	40E	50C	75C	P300-5
Laser Power	680W	1000W	1300W	1700W	300W
Wobble Type	Single	Single	Single	Single	Dual
Wire Feeder	Single Wire	Single Wire	Single Wire	Continuous	Pulsed
Torch Weight	<0.48kg	<0.48kg	<0.48kg	<0.65kg	<0.72kg
Cable Length	5M	5M	5M	10M	5M
Input Voltage	110/220V	220V	220V	220V	110/220V
Dimensions	230*507*349mm	230*507*349mm	286*654*574mm	286*654*574mm	304*570*450mm
Net Weight	<21kg	<22kg	<46kg	<43kg	<25kg
Applications	4-in-1	4-in-1	4-in-1	Rust Cleaning	Rust Cleaning

Water-Cooled	HW 1500	HW 2000	HW 2000-2	HW 2000-5	HW 2000-C
Laser Power	1500W	2000W	2000W	2000W	2000W
Wobble Type	Single	Dual	Dual	Dual	Dual
Wire Feeder	Single Wire	Single Wire	Dual Wire	Single Wire	Continuous
Torch Weight	<0.75kg	≤1.0kg	≤1.0kg	≤1.0kg	≤1.0kg
Cable Length	10M	10M	10M	10M	10M
Input Voltage	220V	220V	220V	220V	220V
Dimensions	530*1040*860mm	530*1040*860mm	530*1040*860mm	530*1040*860mm	530*1040*860mm
Net Weight	≤90kg	≤90kg	≤90kg	≤90kg	≤90kg
Applications	4-in-1	4-in-1	4-in-1	5-in-1	Rust Cleaning

Energy-Storage Welding

- ✓ Low Heat Input | Less Heat Damage
- ✓ Deformation Control | Stable Results
- ✓ Multi-Pattern Welding | Better Joints



Scan to Watch YouTube

Energy Storage Live Demo

1.2mm Galvanized + 0.6mm Mirror SS
Seamless Fusion × Mark-Free Finish



OD8+ Laser Safety Goggles

- ✓ OD8+ Protection | High Attenuation
- ✓ CE Certified | Trusted Safety
- ✓ Lightweight Frame | Comfort Fit
- ✓ Impact-Resistant | Durable Design



HPTweb



Catalog



Videos



Scan to Watch YouTube

Laser Welding Eye Safety

30E

Application

Basic Industries: Hardware, Fixtures, Appliances, Construction

Precision Tech : Electronics, Medical, Instruments, New Energy

Transportation & Heavy Industry : Automotive, Shipbuilding, Aerospace & Components

Features

- Dual Voltage Design |Auto 110V/220V Switching, No Setup Required.
- 21kg Lightweight Body × 480g Smart Torch |Easy One-Person Transport with Remote Torch Control
- Instant Start | 24H Non-stop stable output. No preheat.
- Smart Interface | Mastery in 3 mins. Built-in presets for beginners.
- 4-in-1 Versatility | Weld, cut, de-rust, and clean in one machine.
- 2.5mm Deep Penetration | 20%+ gas/material savings. Smooth finish.
- Top 10 Protections | Global Certs: CE, FCC, MD, PL-e. Total safety.



“Unique Dual-Voltage
2.5mm Penetration Depth
Master it in 3 Minutes”

Specification

System & Power	Rated Input Voltage	110/220V Single Phase, 60Hz	Welding Performance	Wobble Scan Type	Single Motor Scanning Wobble
	Rated Input Power	2.3kW		Wobble Type	Linear
	Max. Power Consumption	3.0kW		Wobble Length / Width	0~4.0mm
	Functional Mode	Welding / Cutting / Cleaning / Rust Removal		Max. Welding Thickness	220V : Stainless / Carbon Steel 2.5mm Aluminum 1.0mm / Brass 1.5 mm 110V : Stainless / Carbon Steel 2.0mm
	Control Interface	7-inch Touch Screen		Cable Length	5M
	Dimensions (W*D*H)	230*507*349mm		Torch Weight	< 0.48kg
	Main Unit Weight	< 21kg		Wire Diameter	0.8/ 1.0/ 1.2mm
Laser Performance	Fiber Connector	QBH	Wire Feeding	Spool Size	Max. Φ 300mm
	Peak Power	110V : 540W / 220V : 680W		Spool Capacity	SS: 15kg / CS: 20kg
	Rated Laser Output Power	110V : 440W / 220V : 580W		Wire Feeder	Single
	Output Laser Wavelength	1080nm		Cooling Method	Air Cooled
	Output Laser Wavelength	Continuous / Pulse / Spot	Cooling	Assist Gas	Nitrogen 、Argon
	Safety Certification	CE, FCC, MD, PL-E		Gas Input Pressure	0.3~0.8MPa
	Laser Safety Class	Class 4			



40E

Application

Basic Industries: Hardware, Fixtures, Appliances, Construction

Precision Tech : Electronics, Medical, Instruments, New Energy

Transportation & Heavy Industry : Automotive, Shipbuilding, Aerospace & Components

Features

- 22kg Ultra-Portable | PC-sized, easy one-hand carry.
- 480g Pro Torch | On-torch remote control for power/wire feed. Max efficiency.
- Instant Start | 24H Non-stop stable output. No preheat.
- Smart Interface | Mastery in 3 mins. Built-in presets for beginners.
- 4-in-1 Versatility | Weld, cut, de-rust, and clean in one machine.
- 3.5mm Deep Penetration | 20%+ gas/material savings. Smooth finish.
- Top 10 Protections | Global Certs: CE, FCC, MD, PL-e. Total safety.



“22kg^{Main Unit} + 480g^{Torch}
3.5mm Penetration Depth
Master it in 3 Minutes”

Specification

System & Power	Rated Input Voltage	220V Single Phase, 60Hz	Welding Performance	Wobble Scan Type	Single Motor Scanning Wobble
	Rated Input Power	2.5kW		Wobble Type	Linear
	Max. Power Consumption	3.0kW		Wobble Length / Width	0~4.0mm
	Functional Mode	Welding / Cutting / Cleaning / Rust Removal		Max. Welding Thickness	Stainless / Carbon Steel 3.5mm Aluminum / Brass 2.5 mm
	Control Interface	7-inch Touch Screen		Cable Length	5M
	Dimensions (W*D*H)	230*507*349mm		Torch Weight	< 0.48kg
	Main Unit Weight	< 22kg		Wire Diameter	0.8/ 1.0/ 1.2/ 1.6mm
Laser Performance	Fiber Connector	QBH	Wire Feeding	Spool Size	Max. Φ 300mm
	Peak Power	1000W		Spool Capacity	SS: 15kg / CS: 20kg
	Rated Laser Output Power	900W ±50		Wire Feeder	Single
	Output Laser Wavelength	1080nm		Cooling Method	Air Cooled
	Output Laser Wavelength	Continuous / Pulse / Spot	Cooling	Assist Gas	Nitrogen 、Argon
	Safety Certification	CE, FCC, MD, PL-E		Gas Input Pressure	0.3~0.8MPa
	Laser Safety Class	Class 4			



50C

Application

Basic Industries: Hardware, Fixtures, Appliances, Construction

Precision Tech : Electronics, Medical, Instruments, New Energy

Transportation & Heavy Industry : Automotive, Shipbuilding, Aerospace & Components

Features

- **Integrated Mobility** : All-in-one chassis (Feeder/Torch/Gas Tank*). High onsite flexibility.*Optional bracket.
- **480g Remote Torch** : Ultralight & Ergonomic. Direct control of Power / Swing / Wire-feed at your fingertips.
- **Run All Day** : Instant start, zero overheating. Stable output for non-stop operation.
- **3-Min Smart Setup** : Expert presets built-in. Achieve professional welds, even for beginners.
- **4-in-1 Multi-Tasking** : One system for Welding, Cutting, Cleaning, and Descaling.
- **5.0mm Deep Fusion** : Superior penetration with 20% less gas and material waste.
- **Global Safety Standards** : CE, FCC, MD, and PL-e certified. Comprehensive operator protection.



“
Mobile Design + 480g Torch
5.0mm Depth | Instant Mastery”

Specification

System & Power	Rated Input Voltage	220V Single Phase, 60Hz	Welding Performance	Wobble Scan Type	Single Motor Scanning Wobble
	Rated Input Power	4.5kW		Wobble Type	Linear
	Max. Power Consumption	5.0kW		Wobble Length / Width	0~5.5mm
	Functional Mode	Welding / Cutting / Cleaning / Rust Removal		Max. Welding Thickness	Stainless / Carbon Steel 5.0mm Aluminum 3.5 / Brass 4.0 / Copper 1.0mm
	Control Interface	7-inch Touch Screen		Cable Length	5M
	Dimensions (W*D*H)	286*654*579mm		Torch Weight	< 0.48kg
	Main Unit Weight	< 46kg		Wire Diameter	0.8/ 1.0/ 1.2/ 1.6mm
Laser Performance	Fiber Connector	QBH	Wire Feeding	Spool Size	Max. Φ 300mm
	Peak Power	1300W		Spool Capacity	SS: 15kg / CS: 20kg
	Rated Laser Output Power	1200W ±50		Wire Feeder	Single
	Output Laser Wavelength	1080nm		Cooling Method	Air Cooled
	Output Laser Wavelength	Continuous / Pulse / Spot	Cooling	Assist Gas	Nitrogen 、Argon
	Safety Certification	CE, FCC, MD, PL-E		Gas Input Pressure	0.3~0.8MPa
	Laser Safety Class	Class 4			



P300-5

Application

Precision Technology : Electronics , Semiconductors , Medical Devices , Precision Instruments

Precision Manufacturing : Molds , Precision Parts , Jigs & Fixtures , Hardware Processing

Advanced Industry : Automotive Parts , Aerospace , New Energy , Research Applications

Features

- **Lightweight Mobility** | <25kg Portable Design
Compact and lightweight for easy transport and on-site operation.
- **MOPA Pulsed Laser** | **Precision & Zero Damage**
Low heat input protects base materials with minimal thermal impact.
- **Green Cleaning** | **No Consumables Required**
Chemical-free and abrasion-free cleaning for lower cost and eco-friendly operation.
- **Multi-Application** | **11 Scan Modes**
Supports rust removal, paint stripping, degreasing, and mold cleaning in one system.
- **Precision Cleaning** | **Fine Detail Processing**
Ideal for molds, precision parts, and high-quality surface treatment.
- **10 Safety Protections** | **International Certified** : CE / FDA / FCC Certified



“
< 25kg Ultra-Portable
MOPA | Clean Anything”

Specification

System & Power	Rated Input Voltage	110 / 220V Single Phase, 60Hz	Cleaning Performance	Wobble Scan Type	Dual Motor Scanning Wobble
	Rated Input Power	1.0 kW		Wobble Type	Linear , Planar
	Max. Power Consumption	2.0 kW		Applicable Materials	Metal (SS / Al / Ti / Cu)
	Functional Mode	Pulsed Cleaning			Precision Molds, PCBs, Wood
	Control Interface	7-inch Touch Screen			Leather, Footwear Materials
	Dimensions (W*D*H)	570*304*450mm		Scan Width	0~220 mm
	Main Unit Weight	< 25kg		Wobble Frequency	0~130 Hz
Laser Performance	Fiber Connector	QCS	Cooling	Cleaning Efficiency	≤ 4m ² / H
	Peak Power	300W		Focusing Lens	F254
	Rated Laser Output Power	300W ±10		Cable Length	5 M
	Output Laser Wavelength	1064nm		Torch Weight	< 0.72 kg
	Output Laser Wavelength	Pulse		Cooling Method	Air Cooled
	Safety Certification	CE, FDA, FCC		Assist Gas	Nitrogen / Argon / Compressed Air
	Laser Safety Class	Class 4		Gas Input Pressure	0.3~0.8MPa



75C

Application

General Industry : Hardware ,Metalworking , Construction , Equipment Repair

Heavy Industry : Steel Structures,Shipbuilding ,Heavy Machinery,Automotive

Infrastructure : Bridges,Pipelines,Pressure Vessels ,Storage Tanks

Features

- **Non-Contact Smart Cleaning | Substrate Protection**
Ultrasonic distance sensing ensures consistent cleaning while protecting the base material.
- **300mm Wide Coverage | Fast Large-Area Cleaning**
Quickly removes rust, paint, and surface contaminants to maximize productivity.
- **High-Efficiency Air Cooling | 24H Stable Operation**
No preheating or water chiller required for continuous operation.
- **Low Noise & Energy Saving | Comfortable Operation**
Low-noise, energy-efficient design for a safer and more comfortable workspace.
- **10 Safety Protections | International Certified**
Certified to CE, FCC, MD, and PL-e standards for reliable operator safety.

“
300mm×Smart Dual-Wobble
High-Efficiency Cleaning
”



Specification

System & Power	Rated Input Voltage	220V Single Phase, 60Hz	Cleaning Performance	Wobble Scan Type	Single Motor Scanning Wobble
	Rated Input Power	5.5kW		Wobble Type	Linear
	Max. Power Consumption	5.4kW		Cleaning Target	Rust, Paint & Oxide Layers
	Functional Mode	Continuous Cleaning		Applicable Materials	Industrial Metal Substrates,Hardware
	Control Interface	7-inch Touch Screen			Heavy Industry Components
	Dimensions (W*D*H)	653*286*574mm		Scan Width	0-300 mm
	Main Unit Weight	< 43kg		Wobble Frequency	0-100 Hz
Laser Performance	Fiber Connector	QBH	Cooling	Ultrasonic Distance Sensor	300-800 mm
	Peak Power	1700W		Focusing Lens	F300 / F400 / F600 / F800
	Rated Laser Output Power	1600W		Cable Length	10 M
	Output Laser Wavelength	1080nm		Torch Weight	< 0.65 kg
	Output Laser Wavelength	Continuous / Pulse		Cooling Method	Air Cooled
	Safety Certification	CE , FCC, MD, PL-E		Assist Gas	Nitrogen / Argon / Compressed Air
	Laser Safety Class	Class 4		Gas Input Pressure	0.3~0.8MPa



HW2000-C

Application

General Industry : Sheet Metal , Metalworking , Steel Structures , Heavy Machinery

Precision Industry : Electronics , Semiconductors , Precision Molds , Automation

Transportation & Energy : Automotive , Shipbuilding , Rail Transit , Energy Equipment

Features

- **Smart Dual-Wobble | 9 Scan Modes**
Multiple waveform options optimize cleaning paths for different contaminants.
- **300mm Wide Coverage | Fast Large-Area Cleaning**
Up to 300mm cleaning width for rapid removal of rust, paint, oxide layers, and surface contaminants.
- **Industrial Water Cooling | Stable Continuous Operation**
Full water-cooling design supports high-power, long-duration processing.
- **Multi-Safety Protection | Reliable Operation**
Advanced safety interlocks and protection systems ensure safer operation.

“
300mm×Smart Dual-Wobble
High-Efficiency Cleaning
”



Specification

System & Power	Rated Input Voltage	220V Single Phase, 50/60Hz	Cleaning Performance	Wobble Scan Type	Single Motor Scanning Wobble
	Rated Input Power	16 kW		Wobble Type	Linear , 9 Waveform Modes
	Max. Power Consumption	< 8.5 kW		Cleaning Target	Rust, Coatings & Oxide Layers
	Functional Mode	Continuous Cleaning		Applicable Materials	Industrial Metal Substrates
	Control Interface	7-inch Touch Screen			Hardware & Heavy Components
	Dimensions (W*D*H)	530*1040*860mm		Scan Width	300 * 300 mm
	Main Unit Weight	< 90 kg		Scanning Speed	20000 mm/s
Laser Performance	Laser Source Brand	Raycus	Cooling	Ultrasonic Distance Sensor	Φ10
	Fiber Connector	QBH		Focusing Lens	F800
	Rated Laser Output Power	1200W ±50		Cable Length	10 M
	Output Laser Wavelength	1080± 5nm		Torch Weight	< 1.0 kg
	Output Laser Wavelength	Continuous		Cooling Method	Water Cooled
	Safety Certification	CE		Assist Gas	Nitrogen / Argon / Compressed Air
	Laser Safety Class	Class 4		Gas Input Pressure	≥ 0.5~0.8MPa



HW1500

Application

General Industry : Sheet metal cabinets / kitchen & bath / construction / hardware tools

Precision Technology : Electronics / medical / molds / new energy

Heavy Transpor : Automotive / aerospace / rail equipment

Features

Core Brand : Raycus laser + Suplaser torch + S&A-temp chiller for high output, long-term stability, and industrial reliability.

4-in-1 Function : Welding / Cutting / Cleaning / Rust Removal—fast switching for flexible, efficient production.

High-Precision Welding : Small heat-affected zone, smooth welds, reducing grinding and post-processing.

Multi-Material : Stainless steel, carbon steel, aluminum; stable welding from thin to medium-thick plates.

Smart Wire Feeding : Ensures uniform and high-strength welds.

Energy-Saving & Safe : Low power consumption, touch operation, multiple protections for reliable performance.

Specification

System & Power	Rated Input Voltage	220V 1Φ, 50/60Hz	Welding Performance	Torch Brand	Suplaser
	Rated Input Power	9kW		Wobble Scan Type	Single Motor Scanning Wobble
	Max Power Consumption	< 4.5kW		Wobble Type	Linear
	Control System	Suplaser System		Wobble Length / Width	Welding : 0~8mm
	Functional Mode	Welding / Cutting / Cleaning / Rust Removal			Cleaning : 0~120mm
	Control Interface	7-inch Touch Screen		Cable Length	10M
Laser Performance	Laser Source Brand	Raycus	Wire Feeding	Torch Weight	0.75kg
	Fiber Connector	QBH		Wire Feeder	Single
	Rated Laser Output Power	1500W ±50		Wire Diameter	0.8/1.0/1.2/1.6mm
	Output Laser Wavelength	1080 ±5nm	Cooling	Chiller Brand	S&A
	Operation Mode	Continuous / Pulse / Spot		Cooling Method	Dual-temp dual-control water cooling
	Safety Certification	CE		Assist Gas	Argon / Nitrogen
	Laser Safety Class	Class 4		Gas Input Pressure	≤1.5MPa



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 H	1 PC	
	Nozzle AS-20D	1 PC	
	Scale Tube FT-80	1 PC	
Lenses	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
	Collimating Lens (Pre-installed)	1 PC	MW010403205
Wire Feeding Accessories	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.



▲ 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 OD8+ 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

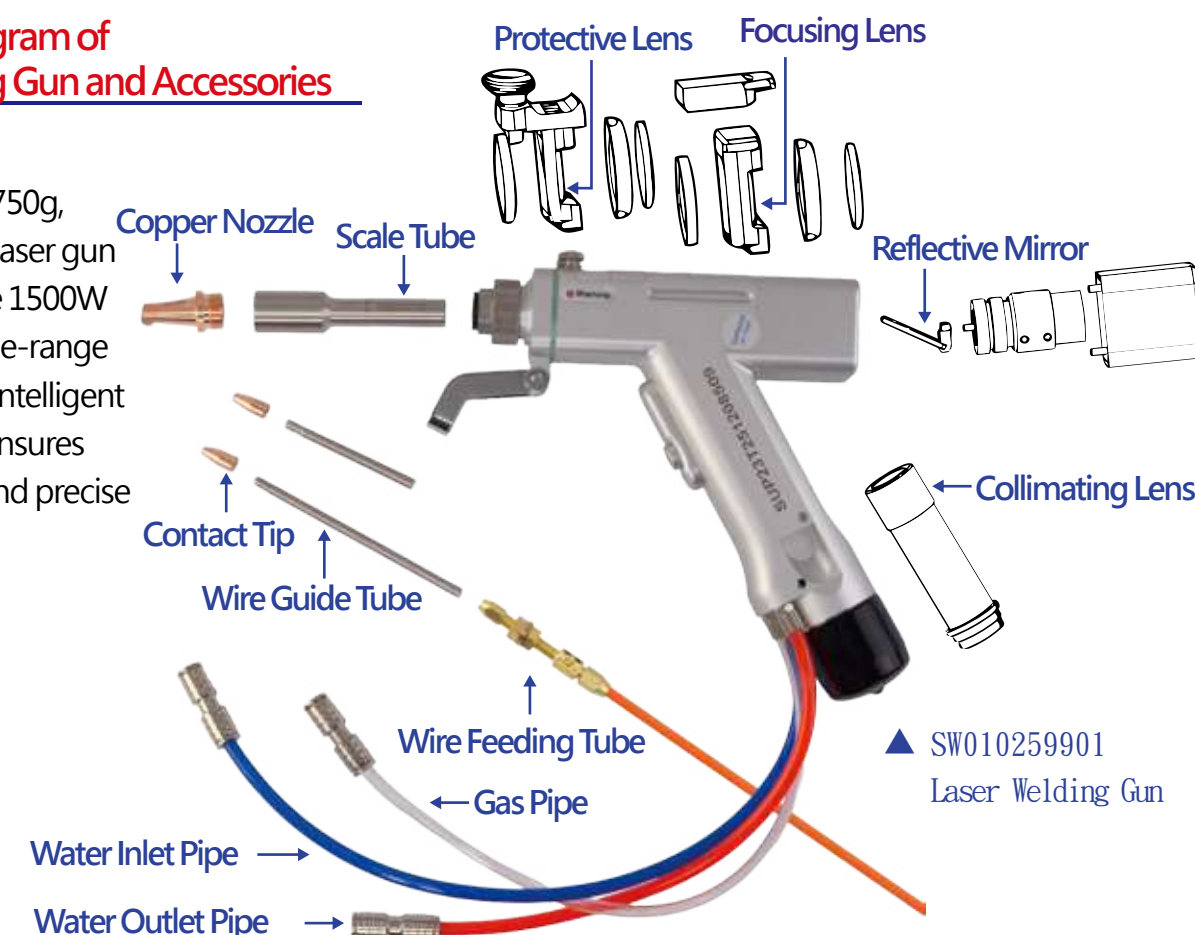
Features 8 scan patterns and 4 linear modes for custom waveforms. Adjustable scan counts and cycles ensure superior, stable weld beads.



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 MW010403219	D18*T2/5PCS/5PCS	[Standard] First line of defense, blocking spatters.
Focusing Lens (Welding Only) MW010403202	D20*4.5*F150/1PCS	[Standard] Precise focusing, ensuring stable deep penetration welding quality.
Focusing Lens (Cleaning Only) MW010403203	D20*4.5*F400*W60mm/1PCS	[Optional] Applicable for 60mm width cleaning, balancing efficiency and precision.
Focusing Lens (Cleaning Only) MW010403204	D20*4.5*F800*W120mm/1PCS	[Optional] Dedicated for 120mm large-area cleaning.
Reflective Mirror MW010403206	M30*14*T2/1PCS	[Standard] High-reflectivity design, reducing energy attenuation.
Collimating Lens MW010403205	D16*T5*F60/1PCS	[Standard] 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.

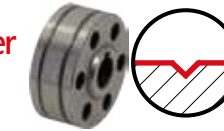
Product No.	Item	Application	Applicable Wire Diameter
MW010403343	Anti-Spatter Copper Nozzle AS-12	Flat / Fillet / Outside Corner Welding	0.8 / 1.0 / 1.2
MW010403346	Anti-Spatter Copper Nozzle ES-12	Thin Plate Outside Corner Welding	0.8 / 1.0 / 1.2
MW010403344	Anti-Spatter Copper Nozzle CS-12	Outside 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

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



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

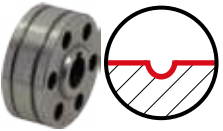
Red Steel Wire Feeding Tube



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

Aluminum Alloy / Copper

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



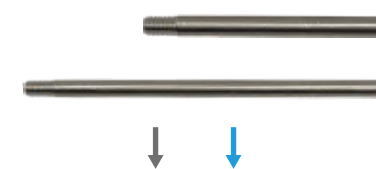
Item / Product No.	Specification	Applicable Welding Wire
U-Groove Wire Feed Roller MV970900107	Ø37*Ø10*U0.8/1.0	0.8 / 1.0mm
U-Groove Wire Feed Roller MV970900108	Ø37*Ø10*U1.2/1.6	1.2 / 1.6mm

Graphite Wire Feeding Tube



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.



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.



HW2000

Application

General Industry : Sheet metal cabinets / kitchen & bath / construction / hardware tools

Precision Technology : Electronics / medical / molds / new energy

Heavy Transpor : Automotive / aerospace / rail equipment

Features

Core Brand : Raycus laser + RelFar torch + S&A-temp chiller for high output, long-term stability, and industrial reliability.

4-in-1 Function : Welding / Cutting / Cleaning / Rust Removal—fast switching for flexible, efficient production.

High-Precision Welding : Small heat-affected zone, smooth welds, reducing grinding and post-processing.

Multi-Material : Stainless steel, carbon steel, aluminum; stable welding from thin to medium-thick plates.

Smart Wire Feeding : Single or dual wire ensures uniform, strong welds.

Energy-Saving & Safe : Low power consumption, touch operation, multiple protections for reliable performance.

Specification

System & Power	Rated Input Voltage	220V 1Φ, 50/60Hz	Welding Performance	Torch Brand	RelFar
	Rated Input Power	16kW		Wobble Scan Type	Dual Oscillating Welding Head
	Max Power Consumption	< 8.5kW		Wobble Type	— ○ ∞ ∂ ⊙ △
	Control System	RelFar System		Energy Storage Welding Mode	-
	Functional Mode	Welding / Cutting / Cleaning / Rust Removal		Wobble Length / Width	0~5mm
	Control Interface	7-inch Touch Screen		Cable Length	10M
Laser Performance	Laser Source Brand	Raycus	Wire Feeding	Torch Weight	≤ 1.0kg
	Fiber Connector	QBH		Wire Feeder	Single / Dual (optional)
	Rated Laser Output Power	2000W ±50		Wire Diameter	0.8/1.0/1.2/1.6mm
	Output Laser Wavelength	1080 ±5nm		Chiller Brand	S&A
	Operation Mode	Continuous / Pulse / Spot		Cooling Method	Dual-temp dual-control water cooling
	Safety Certification	CE		Assist Gas	Argon / Nitrogen
	Laser Safety Class	Class 4	Cooling	Gas Input Pressure	≤1.0MPa



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
Cleaning	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
Lens	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
Wire Feed	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	

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

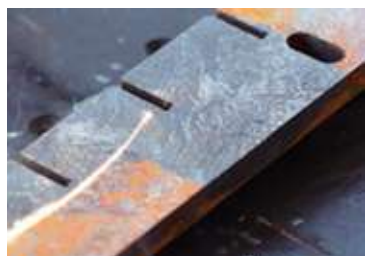
Cleaning & Maintenance Tools

- 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.



Surface Cleaning (Rust Removal)



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

- Non-Destructive High-Efficiency Purification: Instantly removes stubborn rust, oil, and paint without damaging the base metal, significantly improving subsequent processing precision and adhesion.
- Ultra-Wide Scan Field: Built-in wide cleaning mode (up to 100mm) delivers maximum efficiency for large workpieces.
- Rapid Module Switching: Simplifies hardware swap! Power off, replace the lens and air ring, and enter the password for one-click activation of surface cleaning.

Weld Bead Cleaning



Non-Destructive Oxide Layer Removal
Perfectly Enhancing Weld Bead Craftsmanship



▲MW010402140 weld Seam cleaning nozzle(F150)

- Precision Cleaning: Removes oxide layers and burn marks without damaging the base metal, ensuring smooth welds.
- 12mm Coverage: Cleans up to 12mm wide, safely covering most conventional joint areas.
- Fast Switching: Simply swap nozzles and change settings on the interface to start cleaning instantly.

HW2000-5 Five-in-One | Exclusive **Energy Storage Welding** Mode, Welcome to Compare and Purchase

Low average power + peak output narrows the heat zone for low deformation on thin plates.



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



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



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.



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.



▲MW010600108
OD8+ Laser Safety Goggles

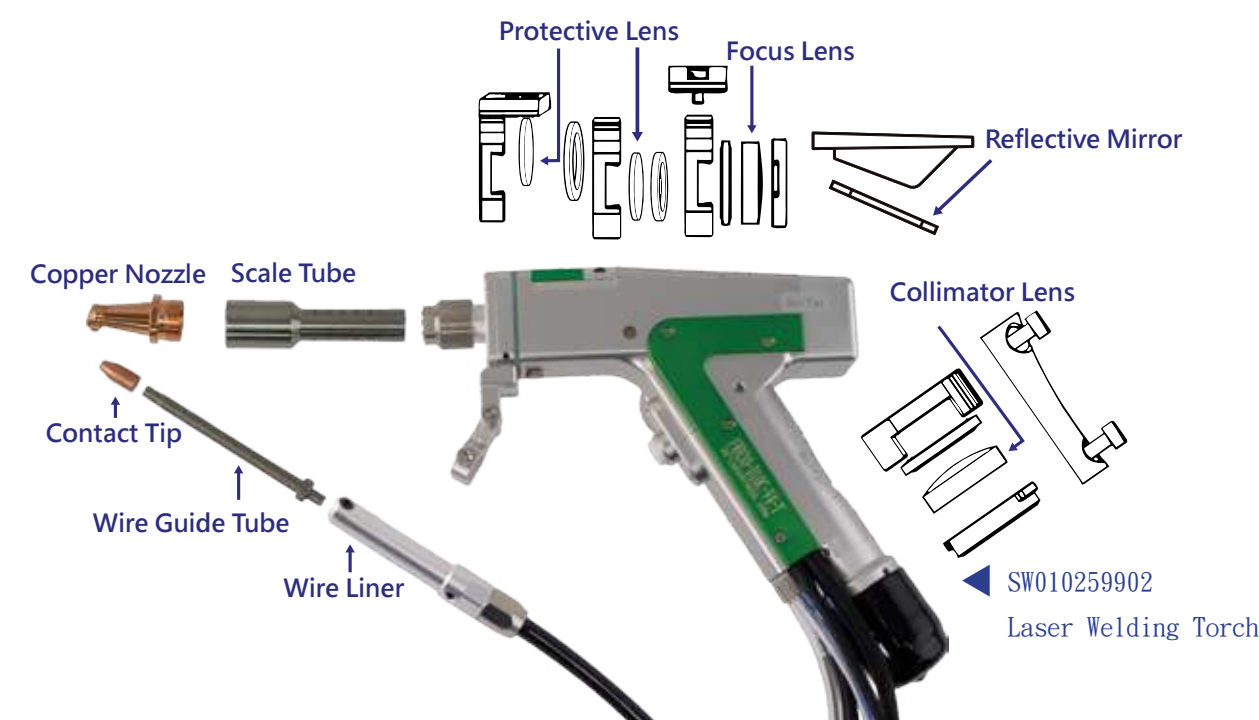


▲ZA010000011
2000W Laser Power Supply

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



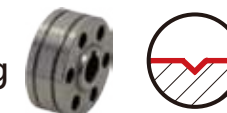
Wire Feeder Specific | Consumables

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.
- **Genuine Guarantee:** Choosing HPT parts ensures long-term, stable operation. Our 100% compatible parts maintain consistent quality and extend laser component lifespan.
- **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.



HW2000-2

Application

General Industry : Sheet metal cabinets / kitchen & bath / construction / hardware tools

Precision Technology : Electronics / medical / molds / new energy

Heavy Transpor : Automotive / aerospace / rail equipment

Features

Core Brand : Raycus laser + RelFar torch + S&A-temp chiller for high output, long-term stability, and industrial reliability.

4-in-1 Function : Welding / Cutting / Cleaning / Rust Removal—fast switching for flexible, efficient production.

Dual Wire Feeding : Higher Efficiency, Stronger Welds.

Multi-Material : Stainless steel, carbon steel, aluminum; stable welding from thin to medium-thick plates.

Smart Wire Feeding : Single or dual wire ensures uniform, strong welds.

Energy-Saving & Safe : Low power consumption, touch operation, multiple protections for reliable performance.

“2000W 4-in-1
Dual Wire × Dual Wobble”



Specification

System & Power	Rated Input Voltage	220V 1Φ, 50/60Hz	Welding Performance	Torch Brand	RelFar
	Rated Input Power	16kW		Wobble Scan Type	Dual Oscillating Welding Head
	Max Power Consumption	< 8.5kW		Wobble Type	— ○ ∞ ∂ ⊙ △
	Control System	RelFar System		Energy Storage Welding Mode	-
	Functional Mode	Welding / Cutting / Cleaning / Rust Removal		Wobble Length / Width	0~5mm
	Control Interface	7-inch Touch Screen		Cable Length	10M
Laser Performance	Laser Source Brand	Raycus	Wire Feeding	Torch Weight	≤ 1.0kg
	Fiber Connector	QBH		Wire Feeder	Dual
	Rated Laser Output Power	2000W ±50		Wire Diameter	0.8/1.0/1.2/1.6mm
	Output Laser Wavelength	1080 ±5nm		Chiller Brand	S&A
	Operation Mode	Continuous / Pulse / Spot		Cooling Method	Dual-temp dual-control water cooling
	Safety Certification	CE		Assist Gas	Argon / Nitrogen
	Laser Safety Class	Class 4	Cooling	Gas Input Pressure	≤ 1.0MPa



HW2000-5

Application

General Industry : Sheet metal cabinets / kitchen & bath / construction / hardware tools

Precision Technology : Electronics / medical / molds / new energy

Heavy Transpor : Automotive / aerospace / rail equipment

Features

Core Brand : Raycus laser + RelFar torch + S&A-temp chiller for high output, long-term stability, and industrial reliability.

5-in-1 Function : Welding / Cutting / Cleaning / Rust Removal / Energy Storage Welding—fast switching for flexible, efficient production.

High-Precision Welding : Small heat-affected zone, smooth welds, reducing grinding and post-processing.

Multi-Material : Stainless steel, carbon steel, aluminum; stable welding from thin to medium-thick plates.

Smart Wire Feeding : Single or dual wire ensures uniform, strong welds.

Energy-Saving & Safe : Low power consumption, touch operation, multiple protections for reliable performance.

“2000W
CE Certified 5-in-1”



Specification

System & Power	Rated Input Voltage	220V 1Φ, 50/60Hz	Welding Performance	Torch Brand	RelFar
	Rated Input Power	16kW		Wobble Scan Type	Dual Oscillating Welding Head
	Max Power Consumption	< 6.0kW		Wobble Type	— ○ ∞ ∂ ⊙ △
	Control System	RelFar System		Energy Storage Welding Mode	√
	Functional Mode	Welding / Cutting / Cleaning / Rust Removal / Energy Storage Welding		Wobble Length / Width	0~5mm
	Control Interface	7-inch Touch Screen		Cable Length	10M
Laser Performance	Laser Source Brand	Raycus	Wire Feeding	Torch Weight	≤ 1.0kg
	Fiber Connector	QBH		Wire Feeder	Single / Dual (optional)
	Rated Laser Output Power	2000W ±50		Wire Diameter	0.8/1.0/1.2/1.6mm
	Output Laser Wavelength	1080 ±5nm		Chiller Brand	S&A
	Operation Mode	Continuous / Pulse / Spot		Cooling Method	Dual-temp dual-control water cooling
	Safety Certification	CE		Assist Gas	Argon / Nitrogen
	Laser Safety Class	Class 4	Cooling	Gas Input Pressure	≤ 1.0MPa



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.



Laser Power Supply

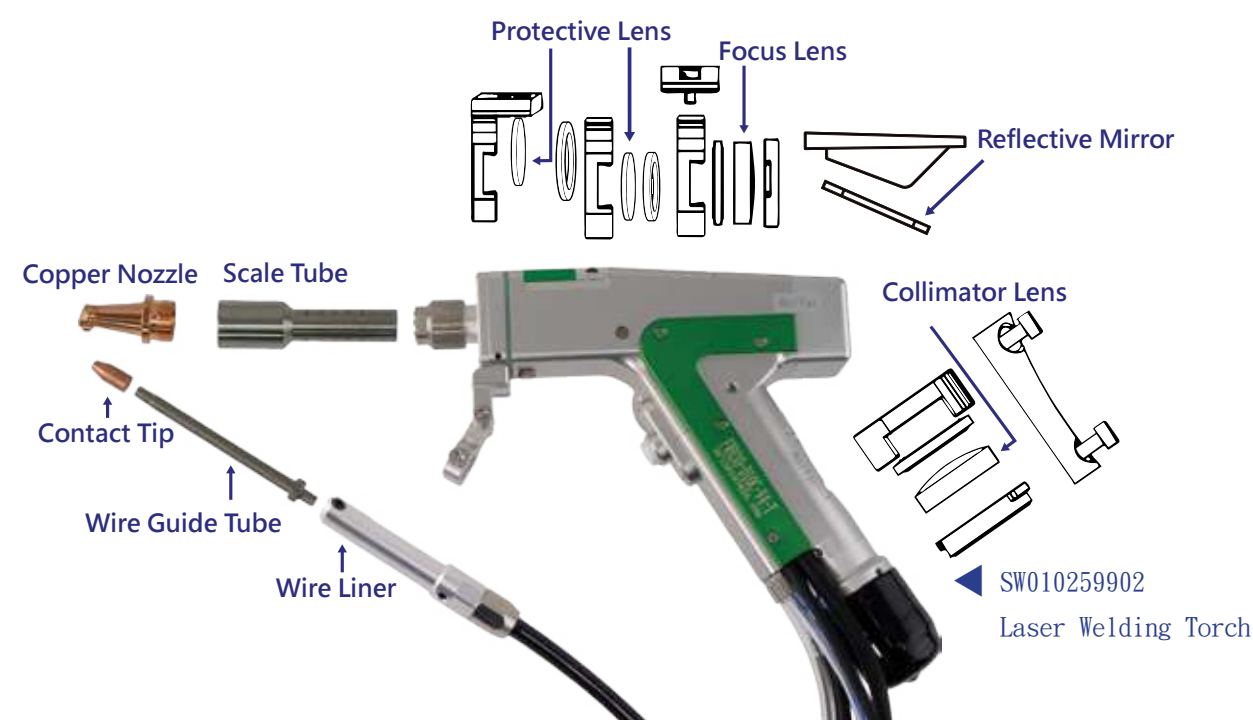
【Raycus】Global Fiber Laser Leader

High Efficiency: >35% electro-optic efficiency saves energy.
Anti-Reflection: Stable output on aluminum and brass protects
Extends module lifespan with lower maintenance risks.

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.



▲MW010600108
OD8+ Laser Safety Goggles



▲ZA010000011
2000W Laser Power Supply

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)

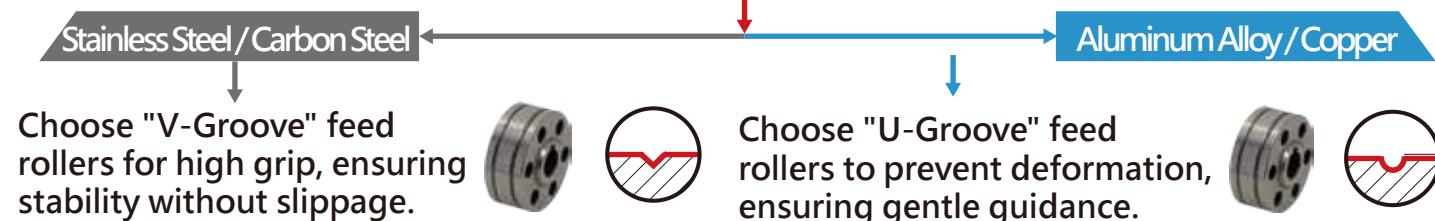
Core Protection: Protective lenses (D25*T2) * 4 PCS

► SJ010000138 Laser Welding Copper Nozzle Kit



Wire Feeder Specific | Consumables

Welding Requirements



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

Graphite Wire Liner

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

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.
- **Genuine Guarantee:** Choosing HPT parts ensures long-term, stable operation. Our 100% compatible parts maintain consistent quality and extend laser component lifespan.
- **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.

OD8+ Laser Safety Goggles

High-Spec Optical Protection X Reinforced Structural Design
Building a Laser Safety Shield to Guard Your Vision

Application

Industrial Laser Processing : Laser Welding ,Cutting ,Marking ,Cleaning
Research & Laboratory : Optical Research ,Laser Development ,Laboratory Protection

Features

- **OD8+ Protection**
EN 207:2017 certified for 900–1100 nm laser protection.
- **Lightweight & Durable**
Polycarbonate lenses with TR90 frame, compliant with EN 166 (S).
- **CE Certified**
Complies with EU PPE Regulation (EU) 2016/425 for reliable laser eye protection.



Specification



Safety Standard	EN 207:2017 (EU PPE Regulation (EU) 2016/425)
Lens / Frame	Polycarbonate Lens / TR90 Frame
Optical Density	OD 8+ @ 900–1100 nm
Mechanical Strength	EN 166 Increased Robustness (S)
Accessories	Protective Case, Eyewear Strap, User Manual



EU type-examination certificate

C4120.1LP

Applicant / manufacturer	LaserPair Co., Ltd. 5/F, Building B, Huifu Park, Pingji Road, Nanwan Street, LONGGANG, SHENZHEN 518000, P.R. CHINA
Identification of the manufacturer	LP
Product type	Laser protection spectacles
Model name	LP-ADY-3
Standard(s) / technical rules	Essential requirements according to Annex II of the PPE-Regulation (EU) 2016/425 EN 207:2017
Test report(s)	1149-ECS-24-Part 2
Material(s)	Polycarbonate, TR90
Optical and mechanical specifications	Increased robustness (S) See schedule for OD values of the laser protection spectacles
Marking	740 - 900 D LB6 + I LB7 900 - 1100 D LB6 + IR LB 7 LP S CE

Herewith, ECS certifies that the named model complies with the essential requirements for health and safety as they are provided by the European Regulation (EU) 2016/425 for Personal Protective Equipment. This certificate is based both / either on the test results as they are summarized in the named test reports, and/or on the technical documentation as it is delivered by the manufacturer. The applicant / manufacturer agrees to the General Business Rules of the ECS GmbH and to additional agreements as they are named in the application for conformity assessment.

The eye-protection device is to be marked as assigned. Either / both the frame and/or the ocular, spectacle, goggle or shield must be signed, as appropriate. If different markings have been assessed, the lowest marking must be applied, respectively. The validity of this EU type-examination certificate will expire on the date as mentioned below, and/or if the manufacturer modifies the safety-relevant properties of this product with comparison to the tested one and/or if the requirements in the standards or technical rules will be revised and/or tightened.

Name, address and identification number 1883 of the notified body ECS are to be indicated in the information brochure of this product.

This EU type-examination certificate is valid until 2029-12-21.

ECS GmbH
Notified Body 1883
22/12/24


Kerstin Trimus
ECS-Certification



ECS GmbH - European Certification Service
Augenschutz und Persönliche Schutzausrüstung
Laserschutz und Optische Messtechnik
Obere Bahnstraße 74
73431 Aalen, Germany

CERTIFICATION SCHEDULE
Company: LaserPair Co., Ltd.
ANNEX to the EU Type-examination certificate registration number C4120.1LP

The laser safety Spectacles LP-ADY-3 has the following measured wavelength-specific OD values:

Wavelength	Optical density	Measurement report
740nm - 900nm	OD 6+	11492-ECS-24 - Part 2
900nm - 1100nm	OD 8+	11492-ECS-24 - Part 2