

Handheld Laser Products



- Hand-held Laser welder (Air cooling)
- Hand-held Laser welder (Water cooling)
- Hand-held Laser Cleaner
- Wire feeder for Laser welder
- Laser welder remote control

**2023
Product
Catalogue**

Catalogue

Hand-held Laser welder (Air cooling)	01-03
Hand-held Laser welder (Water cooling)	04-06
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HLW-YT

HAND-HELD LASER WELDER LASER

Air-cooled All-in-One



Laser welder (Air cooling) All-in-One Machine

High quality, more stable

Adopting high-quality fiber laser with excellent beam quality, it can operate continuously and stably for 24 hours. The entire machine is guaranteed for one year, and the fiber laser is guaranteed for two years (excluding equipment vulnerable parts and consumables).

Energy saving, maintenance-free

Low power consumption, more energy saving; Real air cooling, no freon addition, maintenance-free, more green.

Integration

This product integrates the laser welding machine and wire feeder into one, double-drive single-pressure handle mechanism for more stable wire feeding, compact structure, light weight, can be equipped with a remote control box, intelligent control, easy to operate.



Product Parameters

Model	HLW-YT800
Parameters	
Laser Type	Fiber Laser
Laser wave length (nm)	1070±10
Working mode	Continuous/pulse
Input Voltage (V)	220V±10% 50/60Hz AC
Machine power (KW)	≤3.0
Size (mm)	L680*W360*H680
Weight (kg)	38
Ambient temperature (°C)	10-45
Welding thickness (mm)	0.8-2.0
Applicable materials	Carbon steel/stainless steel/galvanized sheet



HLW-A

HAND-HELD LASER WELDER LASER

Air cooling



Laser welder (Air cooling)

Intelligent and functional

The product has a high degree of integration, small size, light weight, compact structure; can be flexibly equipped with wire feeder, gas cylinders and other integrated trolley mode, can be remote control intelligent control, easy to operate.

True air-cooled, maintenance-free

Low power consumption of the whole machine, more energy-saving; true air-cooled, no Freon added, maintenance-free, more green.

High quality, more stable

Adopting high-quality fiber laser with excellent beam quality, it can operate continuously and stably for 24 hours. The entire machine is guaranteed for one year, and the fiber laser is guaranteed for two years (excluding equipment vulnerable parts and consumables).



Product Parameters

Model	HLW-A1500	HLW-A2000
Parameters		
Laser Type	Fiber Laser	Fiber Laser
Laser wave length (nm)	1070±10	1070±10
Working mode	Continuous/pulse	Continuous/pulse
Input Voltage (V)	220V±10% 50/60Hz AC	220V±10% 50/60Hz AC
Machine power (KW)	≤4.5	≤5.5
Size (mm)	L680*W360*H680	L770*W360*H680
Weight (kg)	48	56
Ambient temperature (°C)	10-45	10-45
Welding thickness (mm)	0.8-4.0	0.8-6.0
Applicable materials	Carbon steel/stainless steel/galvanized sheet/Aluminum sheet	Carbon steel/stainless steel/galvanized sheet/Aluminum sheet



HLW-F

LASER WELDER LASER WATER COOLING



Laser welder (Water cooling)

Parameter guidance

Built-in expert synergic parameters, including four materials of stainless steel, carbon steel, aluminum and galvanized sheet, with thickness need from 0.8mm to 8mm.

Energy saving

It is more economical. With the 976nm pumping scheme, the photoelectric conversion efficiency is more than 42%. Compared to 915nm pumps with the photoelectric conversion efficiency of about 30%, the 1kw-3kw laser saves electricity 20,000kW·h.

New appearance

Compact structure, strong practicality, light in weight and easy to move.

Standard



SUP21T
22401010041

Options



Laser welder
remote control
6.432RM.042



Wire feeder
for Laser welder
S.054RM.961-1



EN 60204-1:2018
EN 60825-1:2014+A11: 2021
EN IEC 61000-6-2:2019
EN IEC 61000-6-4:2019



Interconnected operation

The wire feeder communicates with the power source through 485 communication protocol and 10m communication lines. The parameters in power source can be changed through the wire feeder.

Stable wire feeding

Equipping with measuring feedback motor in double-drive and single-pressure handle design.





Home page



Technics



Set



Laser alarm



Set-Help



Monitor



Mode



Chiller alarm



1. 1.7in LCD display
2. Set
3. Adjusting Knob-Left
4. Technics
5. Gas check
6. Adjusting Knob-Right
7. Monitor
8. Control system
9. Water cooler
10. Emergency stop

Product Parameters

Model	HLW-F1500	HLW-F2000	HLW-F3000
Parameters			
Laser Type	Fiber Laser	Fiber Laser	Fiber Laser
Laser wave length (nm)	1075±10	1075±10	1075±10
Output power (W)	1500	2000	3000
Working mode	Continuous/pulse/self-setting pulse mode	Continuous/pulse/self-setting pulse mode	Continuous/pulse/self-setting pulse mode
Output light spot quality	BPP ≤ 1.5 50 micron fiber output	BPP ≤ 1.5 50 micron fiber output	BPP ≤ 1.5 50 micron fiber output
Cooling method	Water cool	Water cool	Water cool
Core diameter/length	50µm/10m	50µm/15m	50µm/15m
Protection gas	Argon/Nitrogen	Argon/Nitrogen	Argon/Nitrogen
Input Voltage	220V±10% 50/60Hz AC	380V±10% 50/60Hz AC	380V±10% 50/60Hz AC
Machine power (KW)	5.9	7.5	11.5
Cooling hydraulics (bar)	5-6	5-6	5-6
Size (mm)	L750*W600*H1000	L750*W600*H1000	L960*W600*H1000
Weight (kg)	118	136	152
Ambient temperature (°C)	5-45	5-45	5-45
Welding thickness (mm)	0.8-4.0	0.8-6.0	0.8-8.0
Applicable materials	Carbon/Stainless steel/Aluminum /Copper/Galvanised sheet	Carbon/Stainless steel/Aluminum /Copper/Galvanised sheet	Carbon/Stainless steel/Aluminum /Copper/Galvanised sheet
Welding gap requirements (mm)	≤0.5	≤0.5	≤0.5

Product ID: S.001RM.HA1-AE/ S.001RM.HA2-AE/ S.001RM.HA3-AE



Home page



Technics



Set



Laser alarm



Set-Help



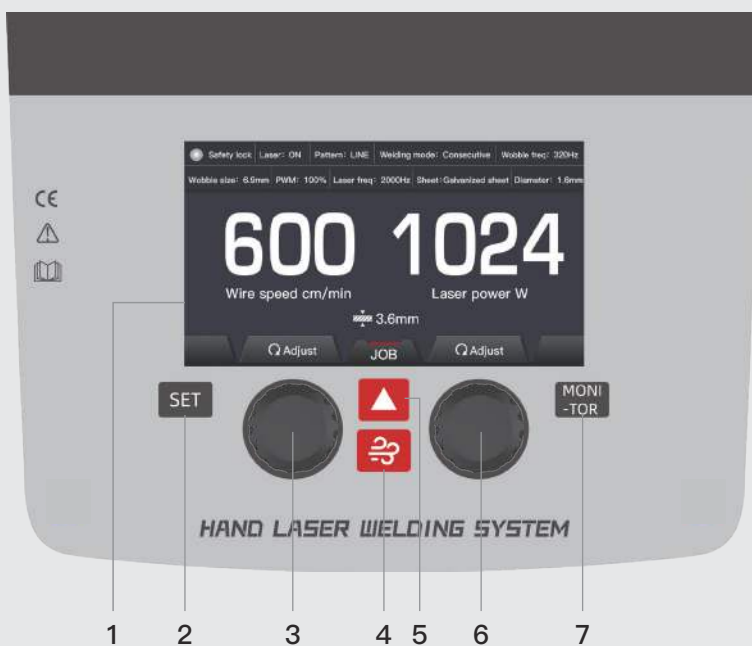
Monitor



Mode



Chiller alarm



1.5in LCD display

2.Set

3.Adjusting Knob-Left

4.Gas check

5.Technics

6.Adjusting Knob-Right

7.Monitor

Wire feeder for Laser welder



- High-precision wire feeding motor
- 4 Rolls
- single-pressure handle
- interactive interface LCD screen
- and accurate speed regulation

Product Parameters

Model	HLW-BTSSJ-50W
Parameters	
Motor power (W)	50
Rated voltage (V)	24
Wire feed speed (m/min)	0.25~6
Wire feed diameter (mm)	0.8~1.6
Welding wire material	Carbon steel, Stainless steel, Aluminum, Silicon bronze
Input power	230V, 50Hz
Spool weight (kg)	5~20
Dimensions (mm)	600*250*380
Net weight (kg)	13.5
Protection class	IP21S

Product ID: S.054RM.961-1

Laser welder remote control



Laser welder
remote control

Main feature

- Synchronized operation panel.
- Small and lightweight, easy to carry.
- Built in rechargeable lithium battery.

Product Parameters

Model	Laser welder remote control
Parameters	
Applicable models	All Laser welder
Communication	2.4G wireless module
Power supply	Rechargeable battery
Screen size	854*480px
Dimensions	195*115*30mm
Net weight	0.6kg

Product number:6.432RM.042

LASER CLEARNING MACHINE LASER HAND-HELD



Laser cleaning machine (Hand-held)



Efficient and energy-saving

Adopting high-quality fiber laser, excellent beam quality, maintenance free, photoelectric conversion rate>42%, pump source service life>100000 hours, one-year warranty for the entire machine, two-year warranty for the fiber laser (warranty does not include equipment vulnerable parts and consumables)

Easy to operate

Handheld operation mode, equipped with a dedicated laser cleaning head with 10 meters of optical fiber, which can perform arbitrary cleaning and rust removal on unobstructed parts of the workpiece; The cleaning range is 0-300mm, convenient and flexible.

Application Scenario

This series of products is mainly used for cleaning various metal surface rust, paint, coatings, oil stains, oxide films, and other pollutants. It is suitable for rust removal, polishing, renovation, and other industries such as ships, rail transit, and steel structures.

Product Parameters


Model	HLX-F2000	HLX-F3000
Parameters		
Laser Type	Fiber Laser	Fiber Laser
Laser wave length (nm)	1075±10	1075±10
Outpower (W)	2000	3000
Working mode	Continuous/pulse/self-setting pulse mode	Continuous/pulse/self-setting pulse mode
Supply gas	0.4MPa clean compressed air with water and oil removed	0.4MPa clean compressed air with water and oil removed
Input Voltage (V)	380V±10% 50/60Hz AC	380V±10% 50/60Hz AC
Machine power (KW)	7.5	11.5
Size (mm)	L750*W600*H1000	L960*W600*H1000
Weight (kg)	136	152
Ambient temperature (°C)	5-45	5-45
Cleaning width (mm)	0-300	0-300mm
Applicable materials	Carbon steel/stainless steel and other products	Carbon steel/stainless steel and other products

Product ID: S.001RM.X02/ S.001RM.X03



LASER PROTECTIVE EQUIPMENT



EN 207 

Laser safety eyewear

Main feature

- Using the national standard material PC (Polycarbonate), provide high optical density (OD) and VLT, as well as superior scratch resistance.
- The eyewear is compliant with CE standards EN207.
- The eyewear is comfortable to wear with its large size of frames, also fitting to those who wear prescription glasses.
- Please consult our company for detailed products.



EN 207 

Laser safety face shield

Main feature

- This face shield features a ratchet adjustable nape strap for a custom fit.
- Constructed from durable nylon. Pivoting action allows users to lift face shield while wearing.
- Our laser safety face shield is compliant with CE EN207 standard.
- Superior viewing and observation with filter dimension of 110*90mm.
- Double shielding can be achieved with laser safety window outer, and completely transparent glass inner. As well as be used as common safety face shield while laser equipment shut down.
- Viewing clearly available with a flip window opened up separately, do not have to lift the whole shield. Comes with snap spring fixation, easily and quickly to replace.



Laser safety clothing

Main feature

- Cut and sewed of Laser Defender® curtain fabric, our Laser Safety clothing is the only professional laser protective clothing with independent intellectual property in China.
- With length of 1.2m, smock style, uniform size, the standard version of protective clothing is designed with adjustable buckle, fitting most body types.
- We have two kinds of protective clothing, respectively applicable to photonics and industry field.
- The photonics version with outer lining characterized with dust-free, anti-static and flame retardant is suitable for low power, clean room, optical communication, semiconductor and microelectronics.
- The industry version can be applied to industrial laser processing, especially suitable for handheld laser welder.



EN 60825-1(GB7247.1)

Laser safety cabins

Main feature

- It is a complete laser safety system, constructed of laser safety window, door, lock, warning sign and warning light.
- It is compliant with laser safety standard EN60825-1(GB7247.1) and widely applied for industrial laser processing, scientific research labs and medical cosmetic facilities.
- For more details about customized cabins, please feel free to contact us.

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