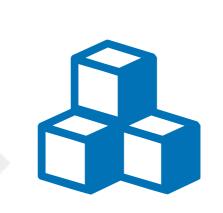


Handheld Laser Welding Machine Series



Time-Saving



Modular Control



Easy Operation





Quality Control

In accordance with the ISO 9001 quality control system, we rigorously monitors eachstage including materials, manufacturing processes, assembly, and shipping.



Efficient and Effective Support

We have developed a comprehensive system for production, sales, and after-sales service.

We have a laser industry park in Nantong, Jiangsu, and production bases in Shenzhen, Wenzhou, and Suzhou. Additionally, we have a large laser cutting machine production base in Dongguan.

We havealso set up over 20 branch offices in key industrialcities and regions across the country.

Diverse Products



Laser **Cutting Machine**

Capable of cutting various metal sheets and tubes (additional tube cutting device required), primarily suitable for rapid cutting of materials such as stainless steel, carbon steel, galvanized sheet, electrolytic plate, brass sheet, aluminum sheet, manganese steel, various alloy sheets, and rare metals.



Laser **Marking Machine**

Widely used for marking graphics and text in various fields including integrated circuit chips, computer components, industrial bearings, watches, electronics and communication products, aerospace components, household appliances, hardware tools, molds, wires and cables, food packaging, jewelry, tobacco, and military applications.



Laser **Welding Machine**

Suitable for a wide range of industries including aviation, aerospace, automotive, power batteries, machinery manufacturing, shipbuilding, chemical industry, and consumergoods.



Laser **Coding Machine**

This product is primarily designed for real-time coding of products. It can adapt to various manufacturers, including bottling lines, beverage filling lines, pharmaceutical packaging lines, tobacco sorting lines, and more.



Precision Microadditive Equipment

With a diverse range of products, we offer customized configurations of precision laser marking machines, laser welding machines, and laser liquor bottling lines, wine cutting machines based on customer requirements.



Non-standard **Automation**

With a diverse range of products, we specialize in customizing precision laser marking machines for our customers.

We provide a complete set of laser processing solutions and related facilities. Our main product lines include a variety of industrial laser equipment and their associated products, totaling over 200 types. These include laser marking machine series, laser welding machine series, laser cutting machine series, green laser demonstration series, PCB vlaser drilling machine series, linear motor series, and more.

Our products find extensive applications in industries such as electronics, integrated circuits, instruments, printed circuits, computer manufacturing, mobile communications, automotive components, precision instruments, building materials, clothing and accessories, urban lighting, jewelry, handicrafts, printing and plate-making, among others.

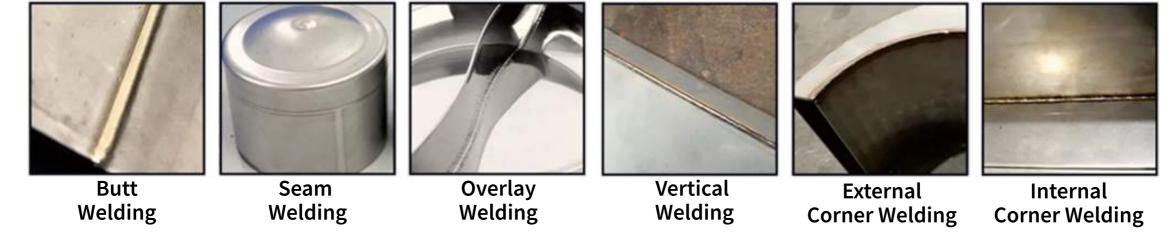
Handheld Laser Welding Machine



The light from the laser is transmitted through the optical fiber to the handheld laser welding gun, where it emits the laser. The laser transforms into heat, which is then transferred to the surface of the workpiece, causing it to melt or the welding wire to melt. This, aided by an inert gas for cooling, results in the formation of a welded joint, firmly bonding the two objects together.

Characteristics Advantages

- Simple and easy to learn, no welding certificate required, no need for professional welders
- No need for a face shield, no arc radiation
- Smooth and aesthetically pleasing welds, minimal or no need for grinding
- By controlling laser energy, welds remain non-deformed or have minimal deformation
- Low operating cost, low consumption of electricity, gas, and consumables like lenses
- Fiber optic cable extends up to 10 meters, extendable to 15 meters as require
- Multiple welding processes available, fillet welding, groove welding, circular welding, and more

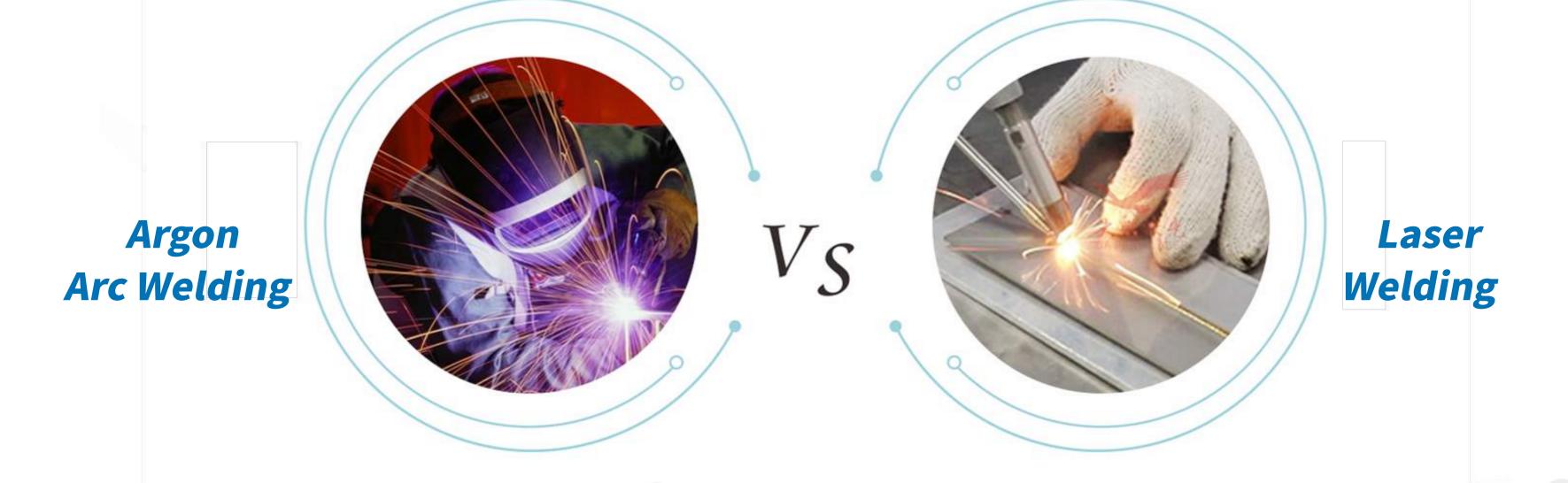


- The welding speed for metals such as stainless steel, mild steel, and galvanized sheet
- Tor aluminum alloy welding with aluminum wire, the welding speed is 1.2 2 meters per minute

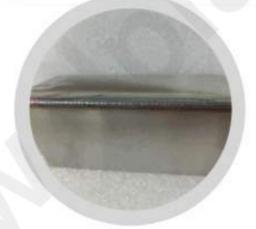
Comparison of Argon Arc Welding and Laser Welding

Method **Argon Arc Welding** Laser Welding **Project** High heat Heat Low heat Prone to deformation Minimal or no deformation Deformation Smaller weld bead, adjustable spots Weld Bead Large weld bead No need for post-processing or low processing costs Aesthetics Requires processing, high grinding costs Not prone to perforation, controllable Susceptible to perforation Penetration Requires Argon/Nitrogen gas Shielding Gas Requires Argon gas High precision Precision Average Efficiency Average 2-5 times faster Safe irradiation, almost no harm Intense ultraviolet radiation Safety Skilled welders No technical requirements Skill Requirements





Argon Arc Welding	Laser Welding
5	1
1,097.36 USD	548.68 USD
1	0 - 1
960.19 USD	548.68 USD
77,364.16 USD	987.63 USD
	5 1,097.36 USD 1 960.19 USD







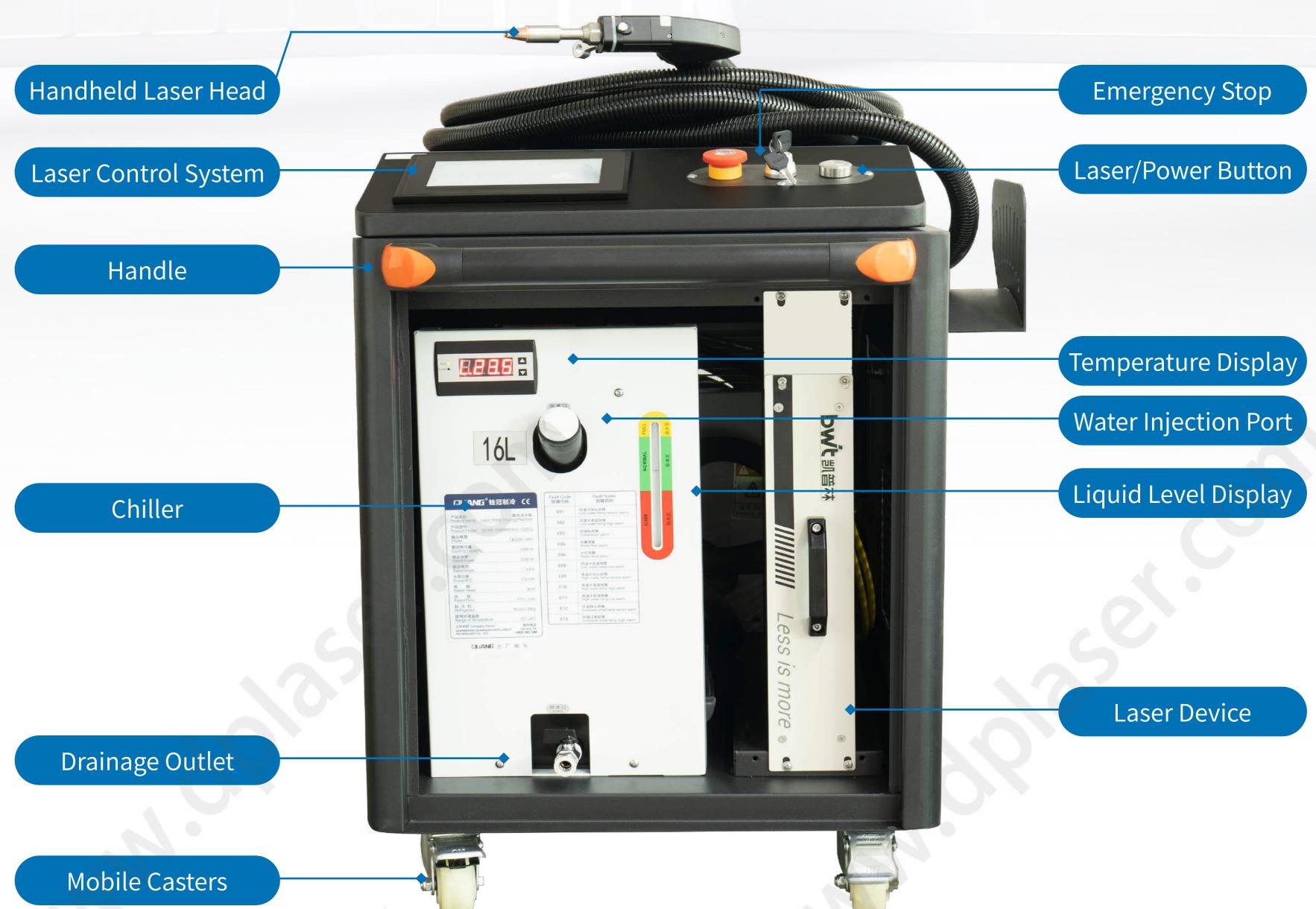


- Non-professionals can get started within 2 hours
- Low heat input, minimal deformation
- Efficiency is 2 to 10 times higher,
 no need for welding certification
- Smooth weld seam
- No need for post-welding grinding of the surface
- Modular control ensures safety

Handheld Welding Machine Series



Structure of the Machine



Front View

Machine Parameters

Machine Parameters						
Model	DPH-1000SC	DPH-1500SC	DPH-2000SC	DPH-3000SC		
Laser Power (W)	1000	1500	2000	3000		
Operating Mode	Continuous/Modulated	Continuous/Modulated	Continuous/Modulated	Continuous/Modulated		
Central Emission Wavelength (nm)	1070-1090	1070-1090	1070-1090	1070-1090		
Pulse Frequency (Hz)	50-5000	50-5000	50-5000	50-5000		
Cooling Method	Water Cooling	Water Cooling	Water Cooling	Water Cooling		
Output Fiber Length(m)	10 (Exposed 8)	10 (Exposed 8)	10 (Exposed 8)	10 (Exposed 8)		
Output Power Stability	<3%	<3%	<3%	<3%		
Power Requirements	AC 200-240V (Single Phase)	AC 200-240V (Single Phase)	AC 200-240V (Single Phase)	380v		
Beam Quality	1.1	1.1	1.1	1.1		
Focused Beam Diameter (mm)	0.3-1.5 (Adjustable)	0.3-1.5 (Adjustable)	0.3-1.5 (Adjustable)	0.3-1.5 (Adjustable)		
Weight (kg)	Net weight 150 (with wooden frame), 195 including wire feeder	Net weight 150 (with wooden frame), 195 including wire feeder	Net weight 180 (with wooden frame), 240 including wire feeder	Net weight 200 (with wooden frame), 310 including wire feeder		
Dimensions (cm)	1000/1500w Mac L 95 * W 75 * H 80 Wire Feeder: L 60		Machine Dimensions: L 95 * W 75 * H 103 Wire Feeder:	Machine Dimensions: L 126 *W 75 * H 126 Wire Feeder:		

L 60 * W 30 * H 40

L 60* W 30 * H 80

Wire Feeder:L 60 * W 30 * H 40

Welding Parameters

Material	Gas	Welding Thickness (nm)	Laser Power (W)	Wire Diameter (mm)	Wire Feeding Speed (nm/s)	Scanning Material (mm/s)	Scanning Width (mm)	Welding Frequency (Hz)	Duty Cycle (%)	Air Pressure (bar)	Welding Method
	1	1000	1.0	90	300	2.5	1000Hz	100	10	Flat Welding	
		1.5	1000	1.0	90	300	2.5	1000Hz	100	10	Flat Welding
Stainless	Argon	2	1500	1.2	75	300	3.0	1000Hz	100	10	Flat Welding
Steel	Gas (Ar)	2.5	2000	1.2	75	300	3.0	1000Hz	100	10	Flat Welding
		3	2000	1.6	60	300	3.5	1000Hz	100	10	Flat Welding
		4	3000	1.6	60	300	3.5	1000Hz	100	10	Flat Welding
		1	1000	1.0	90	300	2.5	1000Hz	100	10	Flat Welding
		1.5	1000	1.0	90	300	2.5	1000Hz	100	10	Flat Welding
Carbon Steel	Argon	2	1500	1.2	75	300	3.0	1000Hz	100	10	Flat Welding
	Gas (Ar)	2.5	2000	1.2	75	300	3.0	1000Hz	100	10	Flat Welding
		3	2000	1.6	60	300	3.5	1000Hz	100	10	Flat Welding
	4	3000	1.6	60	300	3.5	1000Hz	100	10	Flat Welding	
		1	1000	1.0	90	300	2.5	1000Hz	100	10	Flat Welding
		1.5	1500	1.0	90	300	2.5	1000Hz	100	10	Flat Welding
Galvanized Steel	Argon Gas (Ar)	2	2000	1.2	75	300	2.5	1000Hz	100	10	Flat Welding
		2.5	2000	1.6	60	300	3.0	1000Hz	100	10	Flat Welding
		3	3000	1.6	60	300	3.5	1000Hz	100	10	Flat Welding
Aluminum (Requires specialized wire feeder and wire	1	1000	1.0	90	300	2.5	1000Hz	100	10	Flat Welding	
		1.5	1500	1.0	90	300	2.5	1000Hz	100	10	Flat Welding
guide wheel; Please	Argon Gas (Ar)	2	2000	1.2	75	300	2.5	1000Hz	100	10	Flat Welding
provide remarks when		2.5	2000	1.6	60	300	3.0	1000Hz	100	10	Flat Welding
placing an order)		3	3000	1.6	60	300	3.5	1000Hz	100	10	Flat Welding

Industrial Applications











Metal Processing

Electronics

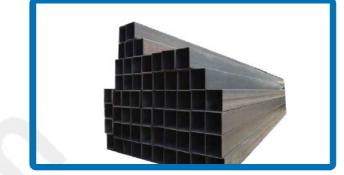
Construction Industry New Energy Industry

Automotive Manufacturing

Welding Materials











Stainless Steel

Aluminum Alloy

Carbon Steel

Aluminum Sheet

Sheet Metal

Mini Handheld Water-Cooled Laser Welding Machine



Product Features

- Features a sleek and user-friendly design, making it easy to operate.
- Simple operation; non-professionals can be operational after just 2 hours of training.
- Use well-known brand electrical components.
- Welding speed is 2-5 times that of traditional welding.
- Long-lasting lifespan of up to 100,000 hours.
- Triple safety protection, modular control, and assured safety maintenance.

Machine Parameters

Serial Number	Features	Description	Remarks
1	Wavelength (nm)	1060-1080	
2	Laser Power (W)	1500	
3	Fiber Length (m)	10	Exposed: 8m
4	Head Weight (kg)	0.7	
5	Cooling Method	Water Cooling	
6	Operating Environment	Temperature: 10-35°C, Relative Humidity: 30%≤RH≤85%	
7	Power Requirements	220V±5%,50Hz	
8	Total Power	5	
9	Overall Dimensions (nm)	700*470*680	
10	Total Weight (kg) ±20	93	Mini All-in-One Machine
11	Safety Level	Class IV	
12	Total Power Protection Level	IP54	

Handheld Air Cooling Laser Welding Machine



Product Features

- The machine features a simple and user-friendly design, allowing for easy operation.
- Simple operation; non-professionals can be operational after just 2 hours of training.
- Equipped with electrical components from renowned brands.
- Welding speed is 2 to 5 times faster than traditional welding.
- Equipment boasts a long service life of up to 100,000 hours.
- Triple safety protection ensures modular control and secure maintenance.

Machine Parameters

Serial Number	Features	Description	Remarks
1	Wavelength (nm)	1060-1080	
2	Laser Power (W)	1500	
3	Fiber Length (m)	10	Exposed: 8m
4	Head Weight (kg)	0.7	
5	Cooling Method	Air Cooling	
6	Operating Environment	Temperature: 10-35°C, Relative Humidity: 30%≤RH≤85%	
7	Power Requirements	220V±5%,50Hz	
8	Total Power	5	
9	Overall Dimensions (nm)	790*376*623	
10	Total Weight (kg) ±20	65	Air Cooling All-in-One Machine
11	Safety Level	Class IV	
12	Total Power Protection Level	IP54	

Equipment Configuration

Components/ Power	H80	H80	H100	H120		
Cabinet	Dapeng Customization (Red/White)					
Laser Source	MAX photonics MSFC-1000X /Raycus1000W/Bwt 1000W	MAX photonics MSFC-1500X /Raycus1500W/Bwt 1500W	MAX photonics MSFC-2000X /Raycus2000W/Bwt 2000W	MAX photonics MSFC-3000X /Raycus3000W/Bwt 3000W		
Handheld Laser Head	SUP					
Laser Control System	Qi Lin \ SUP \ WSX					
Wire Feeder (Standard)	Dapeng Customization (Red/White)	Dapeng Customization (Red/White)	Dapeng Customization (Red/White)	Dapeng Customization(Red)		
Chiller	Han Li SCH-1000 /QUANG-1000	Han Li SCH-1500 /QUANG-1500	Han Li SCH-2000 /QUANG-2000	Han Li-3000 /QUANG-3000		

Note: (1) The welding head + control system + wire feeder are included in the standard configuration.

(2) The standard configuration includes 6 copper nozzles, 5 protective lenses, a pair of safety goggles, 1 data cable, and a 3-meter gas hose.

Accessories List

Number	Name	Specifications	Quantity (PCS)	Price (Consumables)	Recommended Usage	Remarks
1	Nozzle	Right Angle, Inside Angle, Outside Angle	6	40 yuan per piece	3 pieces	Each type, 3 pieces
2	Lens	D18nm*2nm/ D20nm*2nm	5	30 yuan per piece	1 piece	SUP is D18, Others are D20
3	Wire Feeder Wheel	Model1:(0.8 \ 1.0) Model2:(1.2 \ 1.6)	4	/	/	2 pieces for each model
4	Safety Goggles	/	1	/	/	/
5	Data Cable	3m	1	/	/	
6	Hexagonal Wrench		1	/	/	Opening of the cabinet side rear door
7	Storage Box		1	/	/	Contains lenses and nozzles
8	Gas Hose	Diameter10*6.5	1			3m
9	Fiber Optic Protective Sleeve	/	1	/		Protecting the laser fiber head

Image



Lens



Nozzle

Wire Feeder Wheel



Safety Goggles



Data Cable



Hexagonal Wrench







Gas Hose Optic Protective Sleeve Storage Box

Core Component - Laser



Image

Accessories List

- High-precision automatic mounter
- Component and COS automatic wire bonding equipment
- Automated componentbrightness testing system

- FAC, automatic coupling system for reflective mirrors
- Component and COS automatic wire bonding equipment
- High-reliability equipment with independent intellectual property rights

Product Technology

- Strict control of cladding and core alignment for both active and passive optical fibers to prevent optical leakage.
- Optimize the coupling efficiency between pump lasers and beam combiners, and control the internal temperature of the beam combiners
- High power durability of QBH end faces and meticulous design and production
- Multi-stage residual pump light filtering technology to prevent fiber and fiber bench heating.
- Effective thermal dissipation of active optical fibers and temperature control of the overall structure.
- Strict control of the output beam spot to ensure consistent product performance

Parameters

Dimensions (mm)

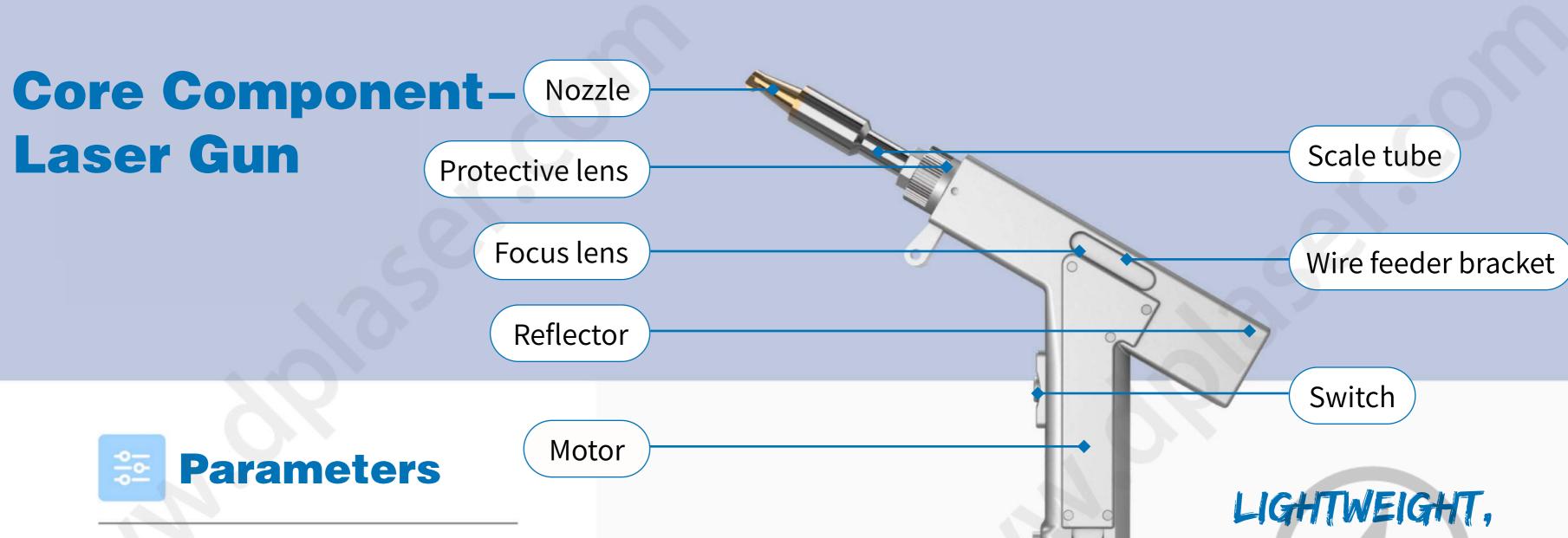
80*402*296

Parameters				
Model	BFL-CW1000	BFL-CW1500	BFL-CW2000	BFL-CW3000
Laser Power (W)	1000	1500	2000	3000
Fiber Core Diameter	14 \ 20 \ 25 \ 50um	14 \ 20 \ 25 \ 50um	14 \ 20 \ 25 \ 34 \ 50um	20 \ 25 \ 34 \ 50um
Output Connector	QBH	QBH	QBH	QBH
Modulation Frequency	0-50KHZ	0-50KHZ	0-50KHZ	0-50KHZ
Voltage(V)	220±20V, AC,PE,50/60HZ	220±20V, AC,PE,50/60HZ	220±20V, AC,PE,50/60HZ	380±20V, AC,PE,50/60HZ
Setting Temperature	25°C (Laser Module) 30°C (QBH)			

80*402*346

80*402*346

80*482*521



Collimation Focal Length D20 F60mm **Focusing Focal Length** D20 F150mm 15Bar **Maximum Air Pressure Vertical Focusing Range** ±10mm Line0-5mm **Spot Adjustment Range** 1070nm **Applicable Wavelength**

0.8kg

AS LIGHT AS O.SKG

Safe

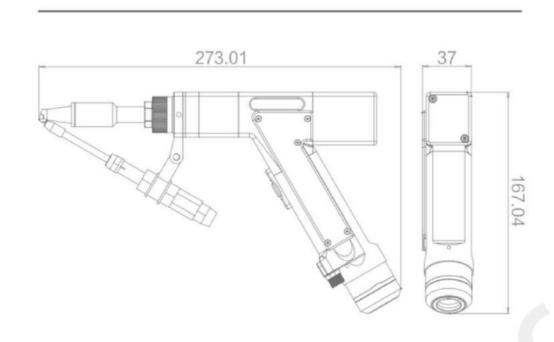
Independently developed safety inspection system, multiple safety alarms, ensuring safety and stability

Time-saving

Drawer-style installation for focus lens and protective lens, making replacement convenient

Dimensions

Weight



Compact

Small size, lighter weight, more flexible operation, easy to handle

Parameters

High welding strength, minimal deformation, and deep penetration

Multiple Functions

Supports handheld continuous welding, spot welding, cleaning, cutting; "Hand" and "Auto" modes, password authorization

Core Component -Multi-Function Automatic Wire Feeder

SUP-AMF-A

Multi-Function Automatic Wire Feeder

Features

Touchscreen display, four-wheel dual-drive wire feeding mechanism, wire feeding speed of 15-600cm/min, continuously adjustable, supports continuous wire feeding mode and pulse mode

Dimensions







Supports Wire Diameters

0.8/1.0/1.2/1.6mm, customizable for 2.0/2.5mm

SUP-AMF-D

Multi-Function Automatic Wire Feeder

Features

Touchscreen display, wire feeding speed adjustable from 15-600cm/min, supports continuous wire feeding mode, pulse mode, single wire mode, double wire mode, supports dual wire synchronization adjustment.

Supports Wire Diameters

0.8/1.0/1.2/1.6/2.0mm

For Dual Wire Setup Supports Wire Diameters

1.6/2.0mm, customizable for 2.5mm

Dimensions





Core Component – Built-in Cabinet Laser Welding Water Cooler



Product Features

- Optional use of environmentally friendly refrigerants
- Laser chiller's intelligent temperature controller features two temperature control modes, suitable for different usage scenarios
- Optional heater and water purification configurations

- Temperature control accuracy up to ±0.5°C
- Dual-temperature dual-control mode, catering to different cooling needs of fiber laser and laser head
- Durable and easy to operate

Wooden Crate Shipping Packaging Dimensions

Type	H80Cabinet (1000W/1500W)	H100Cabinet(2000W)	H120Cabinet(W)
Net Weight (Cabinet)	150kg	180kg	200kg
Dimensions (Cabinet)	L 95cm * W 75cm * 80cm	L 95cm * W 75cm * H 103cm	L 126cm * W 75cm * H 126cm
Gross Weight (Including Wire Feeder and Wooden Crate)	195kg	240kg	310kg
Dimensions (Including Wire Feeder and Wooden Crate)	L 115cm * W 105cm * H 106cm	L 135cm * W 85cm * H 120cm	L 130cm * W 100cm * H 137cm

Note: The H120 (3000W) cabinet comes with dual wire feeders as standard, and the weight of a single wire feeder is 15kg



