

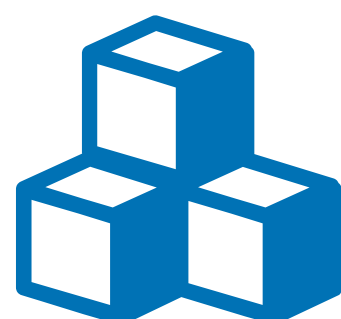
**DP LASER**



# ***Handheld Laser Welding Machine Series***



Save time



Modular control



Easy To Use

**Experienced Manufacturer, Quality Assurance**



# Why choose us



## R&D Capability

Shenzhen Dapeng Laser Technology Co., LTD., founded in 2011, is a national high-tech laser equipment enterprise integrating research and development, manufacturing, sales and service. The four main product lines include more than 150 equipment and solutions including laser marking, laser cutting, laser welding, and laser cleaning machines widely used in auto manufacturing, printing and packaging, electronic components, hardware industry, jewelry hclothing leather, medical equipment, craft gifts and more industries.



## 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 havea laser industry park in Nantong, Jiangsu, andproduction 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 consumer goods.



### Laser Coding Machine

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



### Precision Micro-additive Equipment

With a diverse range of products, we offer customized configurations of precision laser marking machines, laser welding machines, and laser 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 v laser drilling machine series, linear motor series, and more.



# Handheld laser welding machine (four in one)

## H120



### Core component - multifunctional automatic wire feeder

Product Name	SUP-AMF-A
Rated input	220±5%50/60hz
Maximum power and current	60W/2.5A
Rated wire feed speed	15~600cm/min
Applicable welding wire	0.8/1.0/1.2/1.6mm(standard)
	2.0/2.5mm(custom made)
Applicable wire spool	Shaft diameter:MIN50mm
	outer diameter:MAX300mm
	width:MAX105mm
	weight: 20kg
Product Size	13.2kg
Product Name	560mm*250mm*350mm

Product Name	SUP-AMF-D
Rated input	220±5%50/60hz
Maximum power and current	150W/6.5A
Rated wire feed speed	15~600cm/min
Applicable welding wire	0.8/1.0/1.2/1.6mm(Single wire feeding)
	1.6/2.0/2.5mm(double wire feed)
Applicable wire spool	Shaft diameter:MIN50mm
	outer diameter:MAX300mm
	width:MAX105mm
	weight: 20kg
Product Size	30kg
Product Name	575mm*250mm*670mm

## SUP-AMF-A

### Multifunctional automatic wire feeder

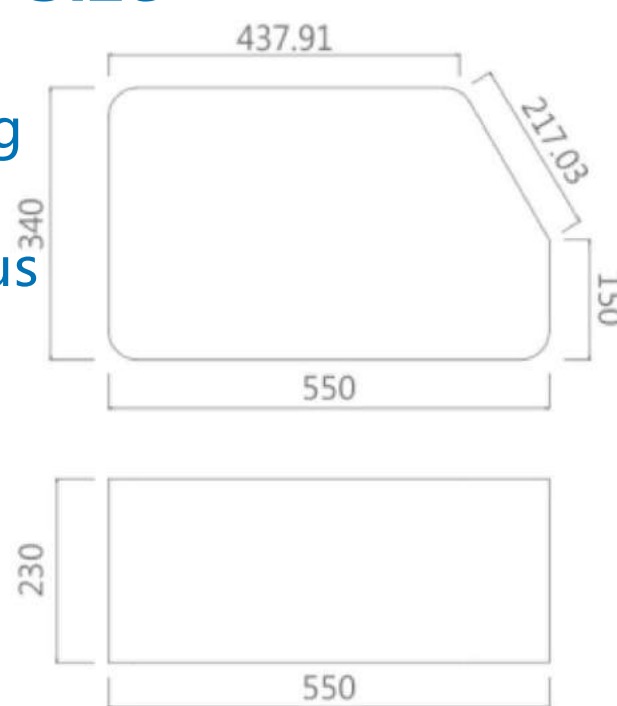
#### Features

Touch display, four-wheel dual-drive wire feeding mechanism, wire feeding speed continuously adjustable from 15-600cm/min, supporting continuous wire feeding mode and pulse mode

#### Support wire diameter

0.8/1.0/1.2/1.6mm  
2.0/2.5mm can be customized

#### Size



## SUP-AMF-D

### Multifunctional double wire automatic wire feeder

#### Features

Touch display, wire feeding speed is continuously adjustable from 15-600cm/min, supports continuous wire feeding mode, pulse mode, single wire mode, double wire mode, supports double wire synchronous adjustment

#### Support wire diameter

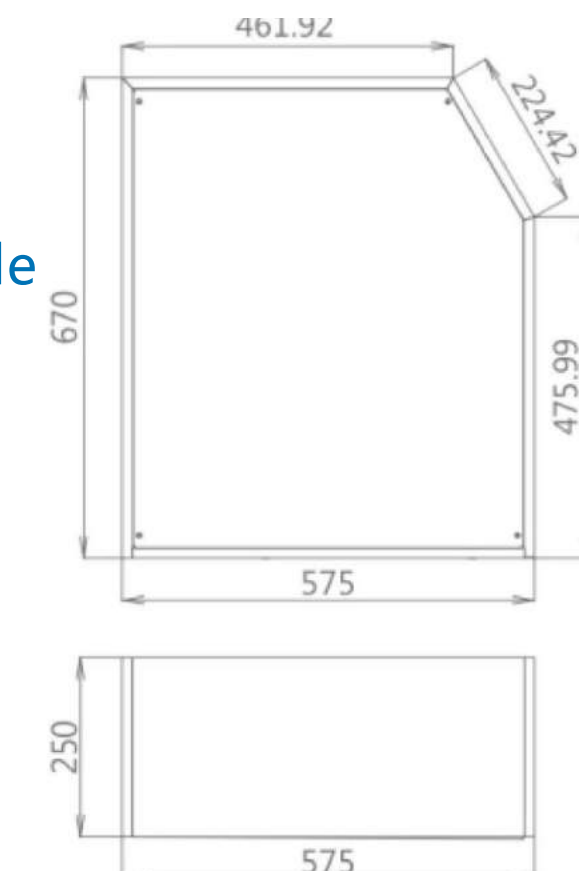
0.8/1.0/1.2/1.6/2.0mm

#### Dual wire

#### support wire diameter

1.6/2.0mm  
2.5mm can be customized

#### Size

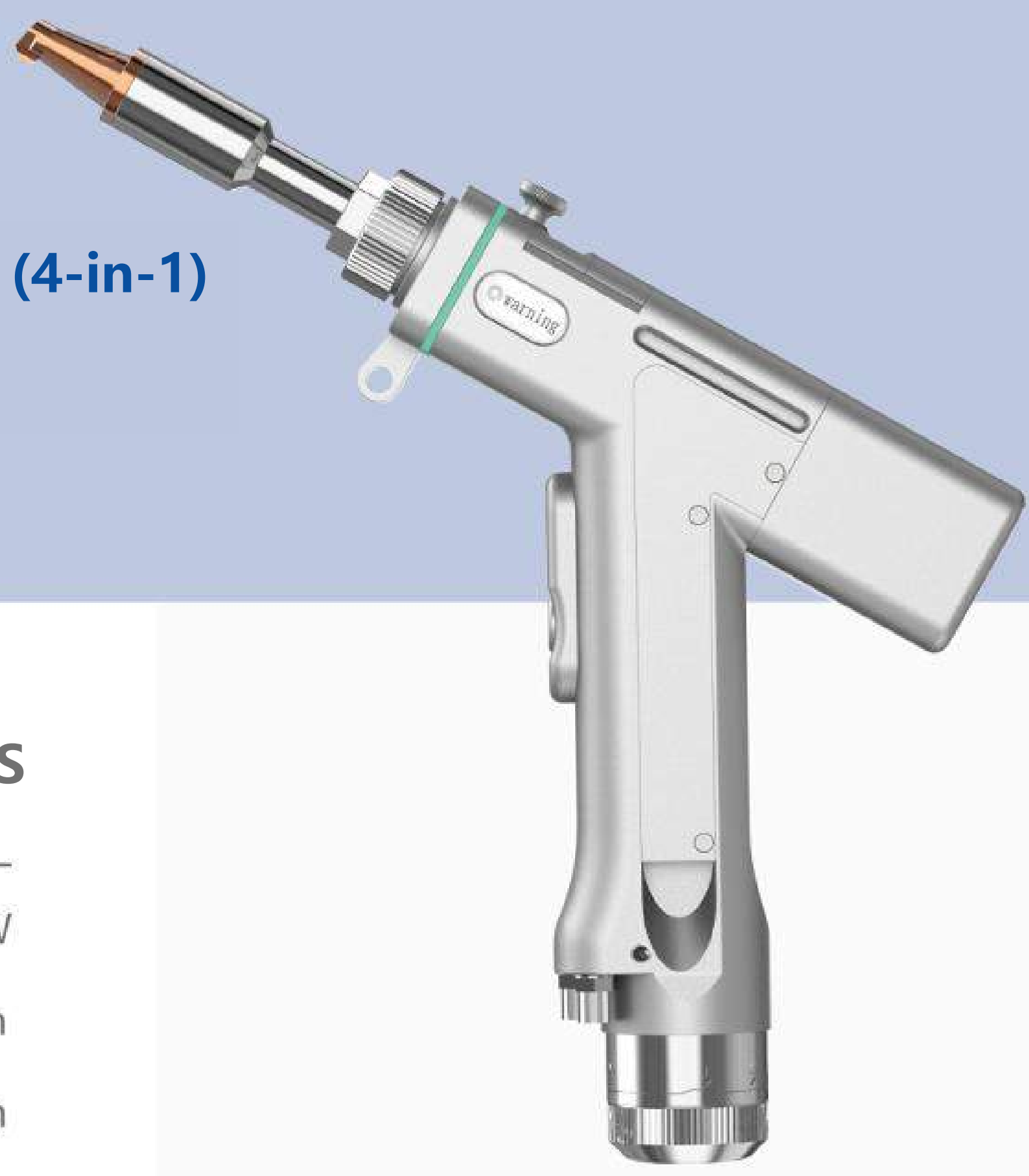




# SUP23T

## Handheld laser welding head (4-in-1)

Power level 300W

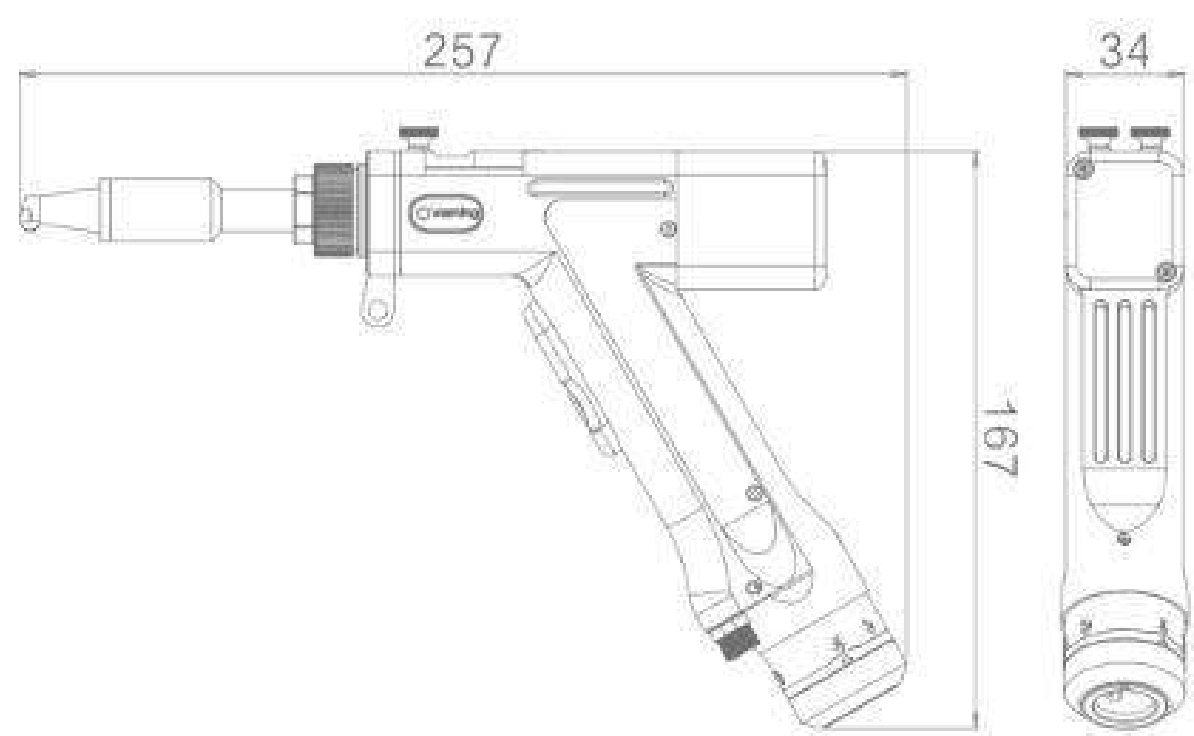


### PRODUCT PARAMETERS

Scope Of Application	≤3000W
Collimation Focal Length	D16 F60mm
Focus Focal Length	D20 F150mm
Maximum Air Pressure	15Bar
Vertical Focus Range	±10mm
Spot Adjustment Range	Line0-8mm
Applicable Wavelength	1070nm
Weight	0.7kg



### PRODUCT SIZE



#### Safe - Foolproof

Independently Developed Safety Detection System With Built-In Real-Time Temperature Monitoring



#### Save Time - Efficient And Convenient

The Focusing Mirror And Protective Mirror Are Drawer-Like, And The Collimating Mirror Is Integrated With The QBH And Is Removable For Easy On-Site Replacement



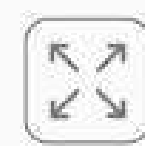
#### Lightweight - Lightweight And Less Burdensome

Compared With The Previous Generation, The Weight Is Further Reduced, The Operation Is More Flexible, The Hand Is Easier To Use, And The Grip Is More Comfortable



#### Quality-Beautiful Welding

Stable Performance, Further Optimized Optical Structure, High Welding Strength, Small Deformation, High Penetration



#### Performance - Multiple Functions

Supports Handheld Continuous Welding, Spot Welding, Cleaning, Weld Bead Cleaning, Cutting, "Hand" And "Self" Integration, Password Authorization, Real-Time Monitoring Of All Interfaces, Convenient On-Site Maintenance, And Remote Support

# SUP21T

## Handheld laser welding head (4-in-1)

Power level 300W



### PRODUCT PARAMETERS

Scope Of Application	≤3000W
Collimation Focal Length	D16 F60mm
Focus Focal Length	D20 F150mm
Maximum Air Pressure	15Bar
Vertical Focus Range	±10mm
Spot Adjustment Range	Line0-8mm
Applicable Wavelength	1070nm
Weight	0.7kg



### PRODUCT SIZE



#### Safe - Foolproof

Independently Developed Safety Detection System With Built-In Real-Time Temperature Monitoring



#### Save Time - Efficient And Convenient

The Focusing Mirror And Protective Mirror Are Drawer-Like, And The Collimating Mirror Is Integrated With The QBH And Is Removable For Easy On-Site Replacement



#### Lightweight - Lightweight And Less Burdensome

Compared With The Previous Generation, The Weight Is Further Reduced, The Operation Is More Flexible, The Hand Is Easier To Use, And The Grip Is More Comfortable



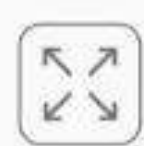
#### Quality-Beautiful Welding

Increased Motor Maintenance Window To Facilitate Central Adjustment



#### Quality-Beautiful Welding

Stable Performance, Further Optimized Optical Structure, High Welding Strength, Small Deformation, High Penetration



#### Performance - Multiple Functions

Supports Handheld Continuous Welding, Spot Welding, Cleaning, Weld Bead Cleaning, Cutting, "Hand" And "Self" Integration, Password Authorization, Real-Time Monitoring Of All Interfaces, Convenient On-Site Maintenance, And Remote Support



## Core Component – Laser



Image

### Accessories List

- High-precision automatic mounter
- Component and COS automatic wire bonding equipment
- Automated component brightness 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

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)	25°C (Laser Module) 30°C (QBH)	25°C (Laser Module) 30°C (QBH)	25°C (Laser Module) 30°C (QBH)
Dimensions (mm)	80*402*296	80*402*346	80*402*346	80*482*521



## 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



**Nozzle**



**Lens**



**Wire Feeder Wheel**



**Safety Goggles**



**Data Cable**



**Hexagonal Wrench**



**Storage Box**



**Gas Hose**



**Optic Protective Sleeve**



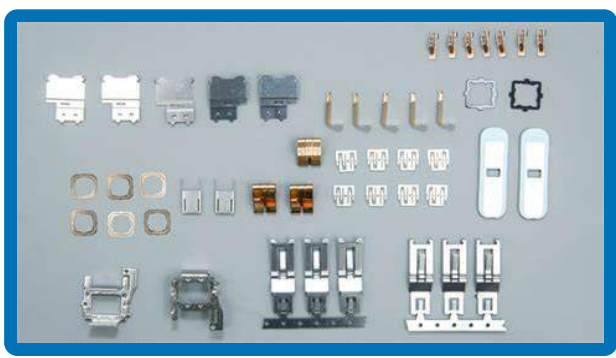
# Welding Parameters

Material	Gas	Welding Thickness (mm)	Laser Power (W)	Wire Diameter (mm)	Wire Feeding Speed (mm/s)	Scanning Material (mm/s)	Scanning Width (mm)	Welding Frequency (Hz)	Duty Cycle (%)	Air Pressure (bar)	Welding Method
Stainless Steel	Argon Gas (Ar)	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
		2	1500	1.2	75	300	3.0	1000Hz	100	10	Flat Welding
		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
Carbon Steel	Argon Gas (Ar)	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
		2	1500	1.2	75	300	3.0	1000Hz	100	10	Flat Welding
		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
Galvanized Steel	Argon Gas (Ar)	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
		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 guide wheel; Please provide remarks when placing an order)	Nitrogen Gas (N2)	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
		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

## Industrial Applications



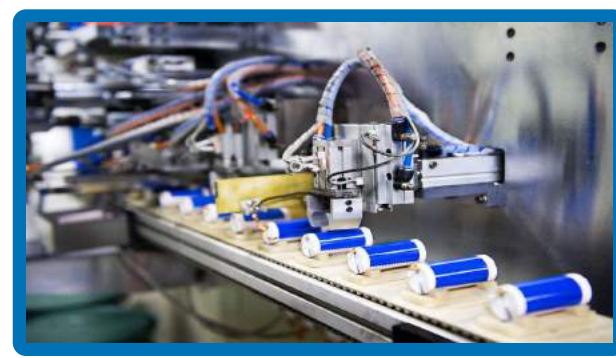
Metal Processing



Electronics



Construction Industry

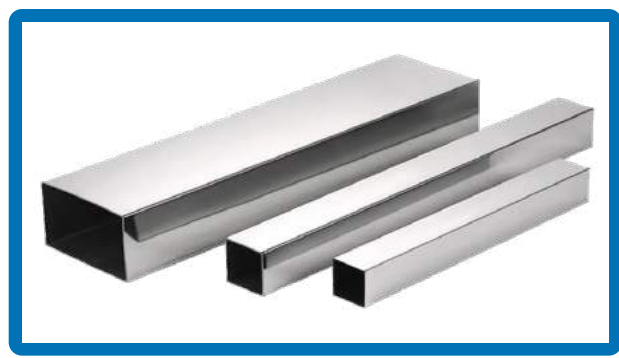


New Energy Industry

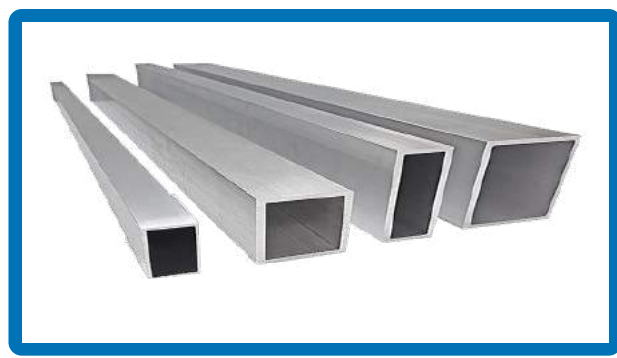


Automotive Manufacturing

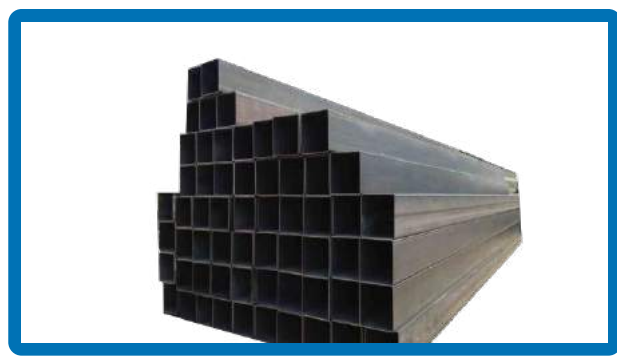
## Welding Materials



Stainless Steel



Aluminum Alloy



Carbon Steel



Aluminum Sheet



Sheet Metal

## Welding method



Internal fillet welding



Outside fillet welding



splice welding



Round pipe welding



Square tube welding

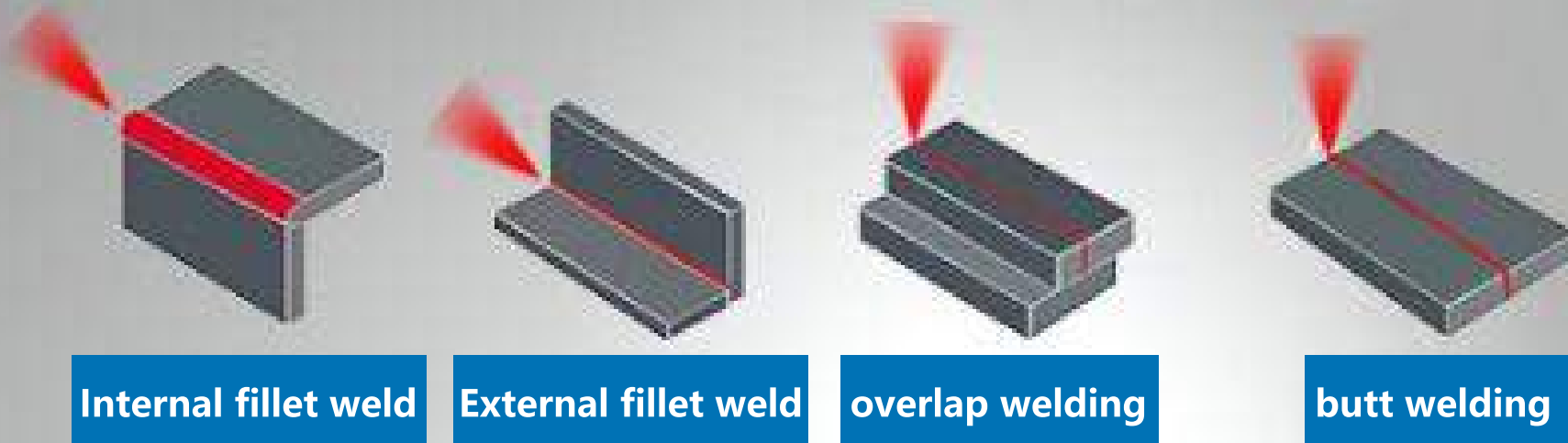


# Function Display

## 激光焊接

### Laser Welding

Can weld workpieces from multiple angles



## 激光切割

### Laser Cutting

Laser welding system		
Scan speed	mm/s	Laser enable
Scan width	mm	Indication of red light
Peak power	W	Welding mode
Duty cycle	%	Secure lock
Frequency	Hz	

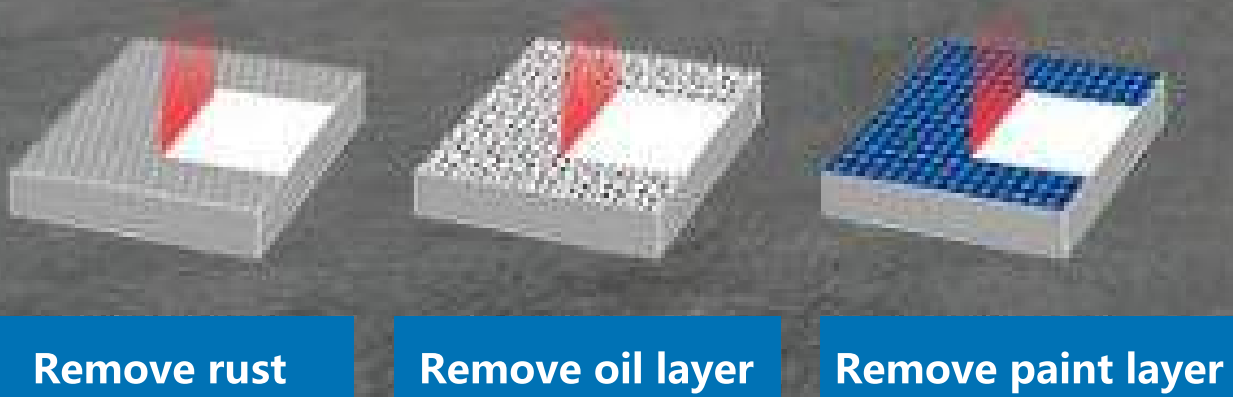
- Home
- Technology
- Setting
- Monitor

## 激光焊缝清洗

### Weld Cleaning

## 激光除锈

### Laser rust removal



0~50mm Can be optional





# Company Profile

Shenzhen Dapeng Laser Technology Co., Ltd. was established in 2011. It is a national high-tech enterprise for laser equipment integrating R&D, manufacturing, sales and service. It is committed to laser process research and development, laser equipment design and development, production, technical support, service and consult.

The main products include: laser cutting machines, laser welding machines, laser marking machines, robot laser applications and industrial automation laser equipment, etc. Used in electronics, IC chips, electrical appliances, lighting fixtures, jewelry, hardware tools, sanitary ware, instrumentation, automobile and motorcycle accessories, mobile phone communication components, molds, precision machinery, medical equipment, IT digital, metal casings, military and aviation components, clothing leather, craft gifts, advertising decoration, models, cooking utensils, tableware, kitchenware and other industries.

Dapeng Laser's product quality is stable and reliable, and it has a professional R&D team. While pursuing excellent quality, Dapeng Laser also provides customers with timely and comfortable pre-sales, in-sales, and after-sales services and excellent cost-effective products. Dapeng Laser has won the trust and praise of users by implementing the business philosophy of "helping customers succeed, creating value models, and building a high-end service brand in the industrial laser equipment industry." Customers are distributed all over the country and overseas, and the total equipment sales are far ahead of its peers.

The company has established a complete production, sales and after-sales service system, with production bases in Shenzhen, Wenzhou, and Jiangsu, large-scale laser cutting machine production bases in Dongguan and Jiangsu, and more than 20 offices in major domestic industrial cities and regions. , each office has equipment display, process proofing, sales and after-sales service, and resident technical service personnel to provide customers with timely and comfortable pre-sales, sales, and after-sales support and services.

Dapeng people know that quality and service are the foundation of a company's survival and innovation is the foundation of the company's long-term development. They help customers create value and strive to build a well-known brand in the laser equipment industry.

## **Shenzhen Dapeng Laser Technology Co., Ltd.**

### **Production base**

Dongguan Dapeng Laser Technology Co., Ltd.

Wenzhou Dapeng Laser Technology Co., Ltd.

Jiangsu Dapeng Laser Technology Co., Ltd.