

铭镭激光，给您更合适的

**HEROLASER**

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## Company Introduction



**Shenzhen Herolaser Equipment Co., Ltd** (hereinafter referred to as “Herolaser” or “company”), was found in 2005, is a national high-tech group company who is specialized in research and development, manufacturing and sales of laser equipment with a registered capital of 130 million RMB. With rapid development, the company in later was affiliated with 3 another subsidiary corporation: Herolaser Intelligent Equipment (Heyuan) Co., Ltd (RMB 91 million registered capital), Shenzhen Herolaser Technology Co., Ltd (RMB 3 million register capital) and Shenzhen Minglei laser Technology Co., Ltd (RMB 12 million register capital). The company covers a business area of 85,000 square meters, which accommodates administration service hall, commercial reception center, modern manufacturing workshops, laboratory, staff dormitories and other facilities.

At present, Herolaser is operating and managing a series of complete laser equipment supply chains over 17 years of development, which includes laser welding machine, laser cutting machine, laser marking machine, laser cleaning machine, more significantly, a full range of laser processing equipment production line to serve customers with solutions just match their demand. The company has been serving laser equipment in more than 100 countries and established a series of technical networks around the world like the United States, Russia, Germany, Italy, Poland, Japan, South Korea, Thailand, India, Indonesia, Argentina, South Africa, Australia and other countries.

**Laser products include:** laser welding machine series, laser cutting machine series, laser cleaning machine series, laser marking machine series and supporting automation series, etc.;

**Automated production lines include:** automated production lines for power

batteries, automated production lines for energy storage batteries, automated production lines for automobiles and auto parts, automated production lines for electronic and electrical products, automated production lines for prefabricated building products, etc.;

**Intelligent detection products include:** laser welding defect real-time detection system, laser welding seam tracking system, OCT laser welding penetration real-time detection system, laser cutting vision positioning system, etc.

Herolaser has been expanding its product assortment and selection of laser equipment to meet customer demands given the characteristics of various processing way in different industries. All of these products can be widely used in aerospace, ship building, public transportation, mobile communication, hardware products, precision instruments, jewelry accessories, glasses, watches, integrated circuits, arts and crafts, plastic mold, medical equipment and other industries.

The company cares about personal training for talent worker and has cultivated a great number of around 1200 employees in the industry, where 300 of them are senior engineers (software engineers, mechanical engineers, electrical engineers, and



industrial designers) specializing in research and development of laser equipment. As of 2021, the company has obtained more than 200 patents and 30 software copyrights over laser equipment and technologies including world-leading WOBBLE welding, laser cleaning, weld inspection, etc.

Many years of efforts and investment devoted to product itself keeps Herolaser competitive in domestic and global market. Nowadays, Herolaser has expanded its operations in Jiangsu, Zhejiang and Tianjin province in China, to ensure in-time technical support and quality postpone service network across the country. Moreover, Herolaser plans to put more investment in R & D of new energy production line so as to pursue market share of over 300 countries and regions. Herolaser is steadily moving forward and to achieve its objective of becoming world's leading intelligent laser manufacturing enterprise.

## Office & Plant



公司前台



会议室



展厅



水吧



办公室



生产车间



生产车间



生产车间



生产车间

## Events





### Honor Rewarded





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**HEROLASER**

企业使命  
ENTERPRISE MISSION

向世界传递激光智造的力量

TRANSMITTING THE POWER OF LASER WISDOM TO THE WORLD





## Company Culture





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**HEROLASER**

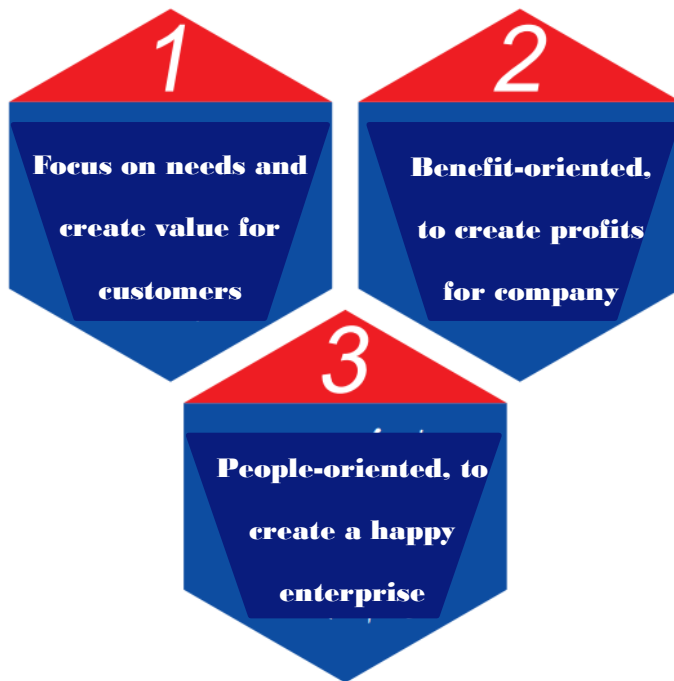
企业愿景  
ENTERPRISE VISION

成为世界领先的激光制造企业

TO BECOME THE WORLD'S LEADING LASER ENTERPRISE



## Company Values



## Company Philosophy

About Operation

We provide customers with the most suitable products and solutions.

About Management

We are people-oriented, goal-oriented, we keep improving ourselves.

About Products

We R&D and manufacture simple, practical and intelligent products.

About Service

Customer needs come first, and we will respond in a timely manner.

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**HEROLASER**

**LASER WELDING  
MACHINE SERIES**  
—— 激光焊接系列

## Hand-held Fiber Laser Welding Machine



### Model Profile

Having it firstly invented by Herolaser, the handheld welding machine comes into existing with the latest generation of fiber laser, automatic wire feeder and newly developed wobble welding head, which makes it completely unique to fill the gap of handheld laser welding market.

With simple instructions, the machine works into a perfect welding pool in a decent amount of time and requires no consumables electrode, which perfectly replaces the processing way of traditional manual metal arc welding machines over thin stainless-steel plate, iron plate and galvanized plate. Thanks to its welding flexibility on irregular shapes of workpieces, the machine is widely used in kitchen cabinets and utensils, stairs handrails and elevators, store racks, ovens, door and window guard bars, power distribution boxes, stainless steel furniture and others industries.

The machine adopts user-friendly design and upgraded technology, in comparison with traditional welding equipment, making welders working in more effective, safe, energy saving and environmental-friendly way. The welding speed is 3 to 10 times faster than ever while it comes in handy and greatly cover your budgets. Herolaser handheld welding machine – make welders love their jobs even more.

### Features

- **Budget reduction:** the handheld welding machine is committed to cover your budgets by reducing welding processing time, simplifying welding skill training program and saving post-weld treatment process.
  - a. The machine works with the speed 3 to 10 times faster than traditional arc welding machines which saves your budgets to hire 3 to 5 welders instead.
  - b. It only takes half day for workers to complete the training program from beginning to master level, no sophisticated welding skill required.
  - c. The machine is controlled under system with desirable setting, allowing welding joints in consistent width and depth, which greatly increase the welding quality and save time to grind and polish it afterward.
- **Environmental protection:** During traditional welding, the spatter sprayed and splashed from the weld and out of surrounding area, meanwhile, producing toxic fume that can cause serious health problems for workers from inhaling it. However, the damage to the environment as for laser welding is nearly zero.
- **Less consumables required and long lifespan period:** Herolaser has developed steady technology over 17 years of laser equipment manufacturing and research experiences, dedicating to offer lifetime guarantee service for our customers.
- **Multiple Configuration:** The machine is available to work with industrial manipulator robot or CNC welding machine with optional welding parts like swing hand-held welding held to meet various welding requirements.
- **Narrow heat-affected zone:** The heat-affected zone during welding is concentrated, where cause no deformation and welding spatters to the workpiece but leading to a firm welding joint for quality control.
- **Complete nozzle attachments:** The machine comes with a full set of welding nozzles to satisfy different welding crafts including butt joint, corner joint, lap joint and edge joint.



### Application Range

Cabinets, kitchens, bathrooms, stair elevators, shelves, ovens, stainless steel door and window guardrails, distribution boxes, stainless steel furniture, and etc..

### Technical Parameter

No.	Item	Parameter
1	Type	Handheld laser welding machine
2	Laser power	1000w/1500w
3	Wavelength of laser	1070 NM
4	Cable length	Standard 10 meters, maximum 15 meters/customized
5	Working mode	Continuous/adjustable
6	Working speed	0~120 mm/s
7	Cooling method	Industrial thermostatic water-cooling system with dual temperature and dual control
8	Working temperature	15~35 °C
9	Working humidity	< 70% non-condensing
10	Welding width suggested	0.5-2.5mm
11	Welding seam suggested	< 0.3mm
12	Running Voltage	AC220V
13	Dimension	900mm*700mm*450mm
14	Gross Weight	150KG

### Sample Display



## Handheld Fiber Laser Welding Machine



### Model Profile

Having it firstly invented by Herolaser, the handheld welding machine comes into existing with the latest generation of fiber laser, automatic wire feeder and newly developed wobble welding head, which makes it completely unique to fill the gap of handheld laser welding market.

With simple instructions, the machine works into a perfect welding pool in a decent amount of time and requires no consumables electrode, which perfectly replaces the processing way of traditional manual metal arc welding machines over thin stainless-steel plate, iron plate and galvanized plate. Thanks to its welding flexibility on irregular shapes of workpieces, the machine is widely used in kitchen cabinets and utensils, stairs handrails and elevators, store racks, ovens, door and window guard bars, power distribution boxes, stainless steel furniture and others industries.

The machine adopts user-friendly design and upgraded technology, in comparison with traditional welding equipment, making welders working in more effective, safe, energy saving and environmental-friendly way. The welding speed is 3 to 10 times faster than ever while it comes in handy and greatly cover your budgets. Herolaser handheld welding machine – make welders love their jobs even more.

### Features

- **Budget reduction:** the handheld welding machine is committed to cover your budgets by reducing welding processing time, simplifying welding skill training program and saving post-weld treatment process.
  - a. The machine works with the speed 3 to 10 times faster than traditional arc welding machines which saves your budgets to hire 3 to 5 welders instead.
  - b. It only takes half day for workers to complete the training program from beginning to master level, no sophisticated welding skill required.
  - c. The machine is controlled under system with desirable setting, allowing welding joints in consistent width and depth, which greatly increase the welding quality and save time to grind and polish it afterward.
- **Environmental protection:** During traditional welding, the spatter sprayed and splashed from the weld and out of surrounding area, meanwhile, producing toxic fume that can cause serious health problems for workers from inhaling it. However, the damage to the environment as for laser welding is nearly zero.
- **Less consumables required and Long lifespan period:** Herolaser has developed steady technology over 17 years of laser equipment manufacturing and research experiences, dedicating to offer lifetime guarantee service for our customers.
- **Multiple Configuration:** The machine is available to work with industrial manipulator robot or CNC welding machine with optional welding parts like swing hand-held welding held to meet various welding requirements.
- **Narrow/Fine heat-affected zone:** The heat-affected zone during welding is concentrated, where cause no deformation and welding spatters to the workpiece but leading to a firm welding joint for quality control.
- **Complete nozzle attachments:** The machine comes with a full set of welding nozzles to satisfy different welding crafts including butt joint, corner joint, lap joint and edge joint.



### Application Range

Cabinets, kitchens, bathrooms, stair elevators, shelves, ovens, stainless steel door and window guardrails, distribution boxes, stainless steel furniture, and etc..

### Technical Parameter

No.	Item	Parameter
1	Type	Handheld laser welding machine
2	Laser power	1000W/1500W/2000W/3000W
3	Wavelength of laser	1070 NM
4	Cable length	standard 10 meters/ maximum 15 meters/customized
5	Working mode	Continuous/adjustable
6	Working speed	0~120 mm/s
7	Cooling method	Industrial thermostatic water-cooling system
8	Working temperature	15~35 °C
9	Working humidity	< 70% non-condensing
10	Welding width suggested	0.5-5mm
11	Welding seam suggested	< =0.5mm
12	Running Voltage	AC220V/AC380V

### Sample Display



## Handheld optical fiber laser welding machine

(EU standard)



### Model Profile

Having it firstly invented by Herolaser, the handheld welding machine comes into existing with the latest generation of fiber laser, automatic wire feeder and newly developed wobble welding head, which makes it completely unique to fill the gap of handheld laser welding market.

With simple instructions, the machine works into a perfect welding pool in a decent amount of time and requires no consumables electrode, which perfectly replaces the processing way of traditional manual metal arc welding machines over thin stainless-steel plate, iron plate and galvanized plate. Thanks to its welding flexibility on irregular shapes of workpieces, the machine is widely used in kitchen cabinets and utensils, stairs handrails and elevators, store racks, ovens, door and window guard bars, power distribution boxes, stainless steel furniture and others industries.

The machine adopts user-friendly design and upgraded technology, in comparison with traditional welding equipment, making welders working in more effective, safe, energy saving and environmental-friendly way. The welding speed is 3 to 10 times faster than ever while it comes in handy and greatly cover your budgets. Herolaser handheld welding machine – make welders love their jobs even more.

### Features

- **Budget reduction:** the handheld welding machine is committed to cover your budgets by reducing welding processing time, simplifying welding skill training program and saving post-weld treatment process.
  - a. The machine works with the speed 3 to 10 times faster than traditional arc welding machines which saves your budgets to hire 3 to 5 welders instead.
  - b. It only takes half day for workers to complete the training program from beginning to master level, no sophisticated welding skill required.
  - c. The machine is controlled under system with desirable setting, allowing welding joints in consistent width and depth, which greatly increase the welding quality and save time to grind and polish it afterward.
- **Environmental protection:** During traditional welding, the spatter sprayed and splashed from the weld and out of surrounding area, meanwhile, producing toxic fume that can cause serious health problems for workers from inhaling it. However, the damage to the environment as for laser welding is nearly zero.
- **Less consumables required and Long lifespan period:** Herolaser has developed steady technology over 17 years of laser equipment manufacturing and research experiences, dedicating to offer lifetime guarantee service for our customers.
- **Multiple Configuration:** The machine is available to work with industrial manipulator robot or CNC welding machine with optional welding parts like swing hand-held welding held to meet various welding requirements.
- **Narrow/Fine heat-affected zone:** The heat-affected zone during welding is concentrated, where cause no deformation and welding spatters to the workpiece but leading to a firm welding joint for quality control.
- **Complete nozzle attachments:** The machine comes with a full set of welding nozzles to satisfy different welding crafts including butt joint, corner joint, lap joint and edge joint.

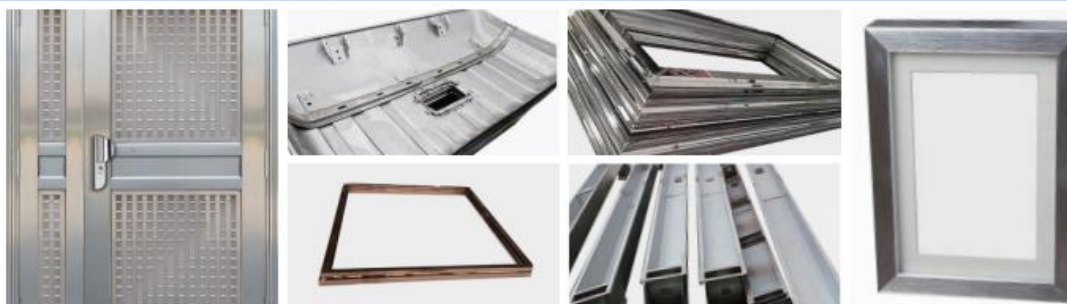
### Application Range

Cabinets, kitchens, bathrooms, stair elevators, shelves, ovens, stainless steel door and window guardrails, distribution boxes, stainless steel furniture, and etc..

### Technical Parameter

No.	Item	Parameter
1	Type	Handheld laser welding machine
2	Laser power	1000w/1500w/2000w/3000w
3	Wavelength of laser	1070 NM
4	Cable length	Standard 10 meters/ maximum 15 meters/customized
5	Working mode	Continuous/adjustable
6	Working speed	0~120 mm/s
7	Cooling method	Industrial thermostatic water-cooling system
8	Working temperature	15~35 °C
9	Working humidity	< 70% non-condensing
10	Welding width suggested	0.5-5mm
11	Welding seam suggested	< =0.5mm
12	Running Voltage	AC220V/AC380V

### Sample Display



## Platform Laser Automatic Welding Machine



### Model Profile

The platform laser automatic welding machine consists of fiber laser, servo motor system, ball screw actuators, CCD observing system, technical software for welding and water-cooling machine. The machine can weld any random paths from single point and straight line to curve trajectory upon a list of materials like aluminum, carbon steel, stainless steel, copper, alloys etc. with jigs and fixtures for fixed and flexible welding.



### Features

- The machine comes in comfy position to operate and only takes few steps to complete the installing process, which is same as regards to software learning and operation.
- The machine is processing at a relatively high speed and precision rate during welding, which greatly result in its efficiency of welding.
- The workpiece is extremely unlikely to be deformed from welding due to a limited area of heat affected zone.
- The machine works at a structural and aesthetic welding seam in consistent width and depth, which save time to grind and polish it afterward.
- The energy consumption of fiber laser is relatively low, where its photoelectric conversion rate is more than 35%.
- The optical devices last in a long-life time and are basically maintenance-free for general use.
- The machine is equipped with self-configured cooling system, circulating water to transfer heat away in the interior of fiber laser, no water supply required from the exterior.
- The welding platform caters for mounting any types of jigs and fixtures if required.

### Optional Welding Head

1. Collimated welding head
2. Swing welding head
3. Galvo welding head..

### Optional Configuration

4. Rotary platform;
5. Wire feeding system,
6. One-way rotary welding head;
7. Two-way rotary welding head,
8. Tooling fixture

### Technical Parameter

Item	1000W	1500W	2000W	3000W	6000W
Dimension	930mm *1200mm*1900mm (L*W*H)				
Operating range	X axis: 500mm Y axis: 300mm Z axis: 300mm				
Running speed	X axis: 200mm/s Y axis: 200mm/s Z axis: 90mm/s				
Repeatability	±0.02mm	±0.02mm	±0.02mm	±0.02mm	±0.02mm

Type of fiber	Rare earth doped fiber	Rare earth doped fiber	Rare earth doped fiber	Rare earth doped fiber	Rare earth doped fiber
Laser wavelength	1070±10nm	1070±10nm	1070±10nm	1070±10nm	1070±10nm
Maximum pulse frequency	5000Hz	5000Hz	5000Hz	5000Hz	5000Hz
Fiber output head	QBH	QBH	QBH	QBH	QBH
Fiber length	10-20m	10-20m	10-20m	10-20m	10-20m
Fiber core diameter	50μm	50μm	50μm	50μm	50μm
Operating mode	Continuous/adjustable	Continuous/adjustable	Continuous/adjustable	Continuous/adjustable	Continuous/adjustable
Lifetime for laser	>100,000 hours	>100,000 hours	>100,000 hours	>100,000 hours	>100,000 hours
Cooling method	Water cooling	Water cooling	Water cooling	Water cooling	Water cooling
Targeting	Red light indication and CCD observation system				
Power required	AC 220V 50Hz		AC 220/380V 50Hz	AC 380V 50Hz	
Average power consumption	4.6kW	6.5kW	7.2kW	10.9kW	16.6kW

**Remark:**

1. The reference laser is Maxphotonics laser, the water tank is the special domain water tank, and the machine tool is the standard platform laser automatic welding machine;
2. The equipment standard is three shafts, and the average power of each additional shaft increases by 0.25kW;
3. The parameters in this table are for reference only, and the actual delivery equipment shall prevail.

**Sample Display**



## Large platform automatic laser automatic welding machine



### Model Profile

The platform laser automatic welding machine consists of fiber laser, servo motor system, ball screw actuators, CCD observing system, technical software for welding and water-cooling machine. The machine can weld any random paths from single point and straight line to curve trajectory upon a list of materials like aluminum, carbon steel, stainless steel, copper, alloys etc. with jigs and fixtures for fixed and flexible welding.

### Features

- The machine comes in comfy position to operate and only takes few steps to complete the installing process, which is same as regards to software learning and operation.
- The machine is processing at a relatively high speed and precision rate during welding, which greatly result in its efficiency of welding.
- The workpiece is extremely unlikely to be deformed from welding due to a limited area of heat affected zone.
- The machine works at a structural and aesthetic welding seam in consistent width and depth, which save time to grind and polish it afterward.
- The energy consumption of fiber laser is relatively low, where its photoelectric conversion rate is more than 35%.
- The optical devices last in a long-life time and are basically maintenance-free for general use.
- The machine is equipped with self-configured cooling system, circulating water to transfer heat away in the interior of fiber laser, no water supply required from the exterior.
- The welding platform caters for mounting any types of jigs and fixtures if required.

### Optional welding head

1. Collimated welding head
2. Swing welding head
3. Galvo welding head.

### Optional equipment

1. Rotary platform;
2. Wire feeding system,
3. One-way rotary welding head;
4. Two-way rotary welding head,
5. Tooling fixture

### Technical Parameter

Item	1000W	1500W	2000W	3000W	6000W
Dimension	1550mm *1200mm*2000mm (L*W*H)				
Operating range	X axis: 500mm Y axis: 300mm Z axis: 300mm				
Running speed	X axis: 200mm/s Y axis: 200mm/s Z axis: 90mm/s				

Repeatability	±0.02mm	±0.02mm	±0.02mm	±0.02mm	±0.02mm
Type of fiber	Rare earth doped fiber	Rare earth doped fiber	Rare earth doped fiber	Rare earth doped fiber	Rare earth doped fiber
Laser wavelength	1070±10nm	1070±10nm	1070±10nm	1070±10nm	1070±10nm
Maximum pulse frequency	5000Hz	5000Hz	5000Hz	5000Hz	5000Hz
Fiber output head	QBH	QBH	QBH	QBH	QBH
Fiber length	10-20m	10-20m	10-20m	10-20m	10-20m
Fiber core diameter	50μm	50μm	50μm	50μm	50μm
Operating mode	Continuous/adjustable	Continuous/adjustable	Continuous/adjustable	Continuous/adjustable	Continuous/adjustable
Lifetime for laser	>100,000 hours	>100,000 hours	>100,000 hours	>100,000 hours	>100,000 hours
Cooling method	Water cooling	Water cooling	Water cooling	Water cooling	Water cooling
Targeting	Red light indication and CCD observation system				
Power required	AC 220V 50Hz		AC 220/380V 50Hz	AC 380V 50Hz	
Average power consumption	4.6kW	6.5kW	7.2kW	10.9kW	16.6kW

Remark:

1. The reference laser is Max photonics laser, the water tank is the special domain water tank, and the machine tool is the standard platform laser automatic welding machine;
2. The equipment standard is three shafts, and the average power of each additional shaft increases by 0.25kW;
3. The parameters in this table are for reference only, and the actual delivery equipment shall prevail.



## Glasses laser automatic welding machine



### Model Profile

Glasses laser automatic welding machine consists of fiber laser, servo motor system, ball screw actuators, CCD observing system, and technical software for welding and water-cooling machine.

The machine can weld any random paths from single point and straight line to curve trajectory upon a list of materials like aluminum, carbon steel, stainless steel, copper, alloys etc. with jigs and fixtures for fixed and flexible welding. The Glasses laser automatic welding machine is specially developed for the glasses industry with the precipitation of decades of welding experiences in glasses and research and development of platform automatic welding machine.

### Features

- The machine comes in comfy position to operate and only takes few steps to complete the installing process, which is same as regards to software learning and operation.
- The machine is processing at a relatively high speed and precision rate during welding, which greatly result in its efficiency of welding.

- The workpiece is extremely unlikely to be deformed from welding due to a limited area of heat affected zone.
- The machine works at a structural and aesthetic welding seam in consistent width and depth, which save time to grind and polish it afterward.
- The energy consumption of fiber laser is relatively low, where its photoelectric conversion rate is more than 35%.
- The optical devices last in a long-life time and are basically maintenance-free for general use.
- The machine is equipped with self-configured cooling system, circulating water to transfer heat away in the interior of fiber laser, no water supply required from the exterior.
- The welding platform caters for mounting any types of jigs and fixtures if required.

Technical Parameter	
Power of laser	1000W
Dimension	930mm *970mm*1900mm (L*W*H)
Operating range	X axis: 500mm Y axis: 300mm Z axis: 300mm
Running speed	X axis: 200mm/s Y axis: 200mm/s Z axis: 90mm/s
Repeatability	±0.02mm
Type of fiber	Rare earth doped fiber
Laser wavelength	1070±10nm
Maximum pulse frequency	5000Hz
Fiber output head	QBH
Fiber length	10-20m
Fiber core diameter	50µm
Operating mode	Continuous/adjustable
Lifetime for laser	>100,000 hours
Cooling method	Water cooling
Targeting	Red light indication and CCD observation system
Power required	AC 220/380V 50Hz
Average power consumption	4.6kW
Remark:	
1. The reference laser is Max photonics laser, the water tank is the special domain water tank, and the machine tool is the standard platform laser automatic welding machine;	
2. The parameters in this table are for reference only, and the actual delivery equipment shall prevail.	

### Sample Display



## Robot laser automatic welding machine



### Model Profile

Robot laser automatic welding machine consists of fiber laser, robot control system, laser positioning sensor, laser welding head and cooling system. the machine features with excellent automatic welding speeds, aesthetic appearance and flexible movement of 6-axis industrial robot arm.

**Features**

- The machine is processing at a relatively high speed and precision rate during welding, which greatly result in its efficiency of welding, 2-10 times faster than traditional welding.
- The workpiece is extremely unlikely to be deformed from welding due to a limited area of heat affected zone.
- The machine works at a structural and aesthetic welding seam in consistent width and depth, which save time to grind and polish it afterward.
- The energy consumption of fiber laser is relatively low, where its photoelectric conversion rate is more than 35%.
- The laser source last in a long-life time of 100,000hrs and are basically maintenance-free for general use.
- The machine is equipped with self-configured cooling system, circulating water to transfer heat away in the interior of fiber laser, no water supply required from the exterior.
- Using the famous brand six-axis robot, the repeat positioning accuracy is high, the trajectory running accuracy is high, and the operation is stable;
- The robot has great flexibility and can perform flexible transmission and non-contact welding for precision parts that are difficult to access, and can adapt to various complex products different welding methods, etc.;
- Red light indicator with CCD monitoring and observation system, clearly observe the welding position and welding effect
- Fiber laser multi-mode welding, which can freely convert modulation and continuous modes according to product requirements;

**Robot Brand**

ABB, FANUC, KUKA, Yaskawa.

**Optional Welding Head**

Collimation welding head, swing welding head, galvanometer welding head..

**Optional Configuration**

Vision system, wire feeding system, seam tracking system, positioner, etc.

**Technical Parameter**

Item	1000W	1500W	2000W	3000W	5000W
Fiber Type	Rare Earth Doped Fiber	Rare Earth Doped Fiber	Rare Earth Doped Fiber	Rare Earth Doped Fiber	Rare Earth Doped Fiber
Laser wavelength	1070±10nm	1070±10nm	1070±10nm	1070±10nm	1070±10nm
Maximum	5000Hz	5000Hz	5000Hz	5000Hz	5000Hz

pulse frequency					
Fiber output head	QBH	QBH	QBH	QBH	QBH
Fiber length	10-20m	10-20m	10-20m	10-20m	10-20m
Fiber Core Diameter	50μm	50μm	50μm	50μm	50μm
Operating mode	Continuous/adjustable	Continuous/adjustable	Continuous/adjustable	Continuous/adjustable	Continuous/adjustable
Laser lifetime	>100,000hrs	>100,000hrs	>100,000hrs	>100,000hrs	>100,000hrs
Cooling method	Water cooling	Water cooling	Water cooling	Water cooling	Water cooling
Targeting	Red light indication and CCD observation system				
Power required	AC 220V 50Hz		AC 220/380V 50Hz	AC 380V 50Hz	
Average power consumption	3.7kW	5.6kW	6.4kW	10kW	15.8kW
Remark:					
1. The reference laser is Maxphotronics laser, and the chiller is Teyu chiller;					
2. The parameters in this table are for reference only, and everything is subject to the actual delivery of the equipment.					

Robot main parameters			
Item	ABB IRB 1600	Item Fanuc M-10iD	Yaskawa GP12
Number of axes	6 axes	6 axes	6 axes
Power supply	AC 220V 50Hz	AC 220V 50Hz	AC 220V 50Hz
Payload	10kg	12kg	12kg
Reachable distance	1450mm	1450mm	1450mm
Repeatability	0.05mm	0.03mm	0.02mm
Weight	250kg	250kg	150kg
Note: The parameters in this table are for reference only, and all are subject to the actual delivery of the equipment.			



## Fiber laser host



### Model Profile

Fiber laser host consists of fiber laser, laser welding head, cooling system, CCD observing system and software specially used in welding. The machine can apply non-contact welding upon a list of materials like aluminum, carbon steel, stainless steel, copper, alloys etc. The model is simple to operate and allows users to manage communications and transmit lasers flexibly with other equipment for collaboration..

### Features

- The machine comes in comfy position to operate and only takes few steps to complete the installing process, which is same as regards to software learning and operation.
- The machine is processing at a relatively high speed and precision rate during welding, which greatly result in its efficiency of welding.
- The workpiece is extremely unlikely to be deformed from welding due to a limited area of heat affected zone.
- The machine works at a structural and aesthetic welding seam in consistent width and depth, which save time to grind and polish it afterward.
- The energy consumption of fiber laser is relatively low, where its photoelectric conversion rate is more than 35%.
- The optical devices last in a long-life time and are basically maintenance-free for general use.
- The machine is equipped with self-configured cooling system, circulating water to transfer heat away in the interior of fiber laser, no water supply required from the exterior.
- The welding platform caters for mounting any types of jigs and fixtures if required.

### Optional Welding Head

1. Collimated welding head
2. Swing welding head
3. Galvo welding head.

### Technical Parameter

Item	1000W	1500W	2000W	3000W	5000W
Fiber Type	Rare Earth Doped Fiber	Rare Earth Doped Fiber	Rare Earth Doped Fiber	Rare Earth Doped Fiber	Rare Earth Doped Fiber
Laser wavelength	1070±10nm	1070±10nm	1070±10nm	1070±10nm	1070±10nm
Maximum pulse frequency	5000Hz	5000Hz	5000Hz	5000Hz	5000Hz
Fiber output head	QBH	QBH	QBH	QBH	QBH
Fiber length	10-20m	10-20m	10-20m	10-20m	10-20m
Fiber Core Diameter	50µm	50µm	50µm	50µm	50µm
Operating mode	Continuous/adjustable	Continuous/adjustable	Continuous/adjustable	Continuous/adjustable	Continuous/adjustable
Laser lifetime	>100,000hrs	>100,000hrs	>100,000hrs	>100,000hrs	>100,000hrs
Cooling	Water cooling	Water cooling	Water cooling	Water cooling	Water cooling

method					
Targeting	Red light indication and CCD observation system				
Power required	AC 220V 50Hz		AC 220/380V 50Hz	AC 380V 50Hz	
Average power consumption	3.7kW	5.6kW	6.4kW	10kW	15.8kW
Remark:					
<ol style="list-style-type: none"> <li>1. The reference laser is Maxphotronics laser, and the chiller is Teyu chiller;</li> <li>2. The 6000W laser requires external installation;</li> <li>3. The parameters in this table are for reference only, and the actual delivery equipment shall prevail..</li> </ol>					

## Double station constant temperature laser soldering machine



### Model Profile

Double station constant temperature laser soldering machine is a new type of equipment developed by Herolaser. The equipment delivers a stable non-contact welding through laser diode (LD) as heat source given a internal closed-loop feedback with real-time temperature monitoring. The equipment has multiple working modes and automatic wire feeding system or automatic precision solder paste dispensing device to perfectly solder in different occasions. For certain precision products that cannot process with reflow soldering and wave soldering machine, laser soldering machine will be your reliable option to solder your products given the characteristics of stable structure, cost-effectiveness, high efficiency of soldering and numerical control technology.

### Features

- Adopt semiconductor laser, working in non-contact processing way.
- No consumption of soldering iron tip, running in low cost and simple maintenance.
- Visual positioning solder point via Dual vision application and CCD monitoring system.
- Laser is processing under constant temperature via internal closed-loop feedback of real-time temperature monitoring.
- The welding spot can be adjusted to meet different soldering sizes.
- Deploy a smoke purifying system to timely remove burning residue from combustion.
- Optional to switch between single station and Double station mode.

### Product advantages

1. Real-time quality control.
2. Double X, Y, Z structural design to ensure simultaneous tin feeding during welding.
3. Rapid process of Heating and cooling in non-contact way.
4. Different heating parameter configurations can be implemented for consistent solder joint based on lead type of components and parts.
5. The laser only heats the connecting part itself and does not have any thermal influence on the circuit.
6. The system consists of a variety of precision components including CCD real-time monitoring, laser shaping component, temperature feedback system, visual light source, built-in optical components, to realize 5 optical paths of laser, illumination light and detection.

### Technical Parameter

No.	Item	Parameter
1	Model	ML-WS-XF-ZD2-HW80
2	Laser power	60W-200W
3	Laser type	semiconductor
4	Focus focal length	80/125/160mm ( optional )
5	Temperature control range	60°C-400°C
6	Temperature System Accuracy	±( 0.3% reading + 2°C) (ambient temperature 23±5°C)
7	GPS	ICoaxial CCD monitoring and spot tin CCD positioning
8	Equipment size	1100mm*1450mm*1750mm
9	Welding range	250mm*250mm ( single working station )
10	Feeding stroke	1000mm
11	Number of motion axes	6 axes ( X1 Y1 Z1/X2 Y2 Z2)



12	Repeatability	±0.02mm
13	Dust removal system	Automatic soot purification system
14	Total Weight	350Kg
15	Total power	≤2.5KW

**Sample Display**



## Plastic Laser Welding Machine



### Model Profile

Plastic laser welding machine consists of semiconductor laser, special welding heads and software and 3-axis linear modules, which has radiation-proof closures and integrated design of machine, electricity, water and gas in line with international standards. The machine is capable of continuous track teaching and remote control.

### Features

- Real-time quality control via CCD monitoring system and temperature probe.
- Showing narrow welding seam and elegant appearance in the welding area
- Capable of welding products with complex shapes, and can theoretically weld workpieces of any size;
- Low demand for laser power;
- No resin degradation and almost no debris during the welding process, and it can be used directly after welding
- High processing efficiency.

### Suitable for materials

Suitable for ABS, PP, PE, PA, PC, PS, PVC, PBT, POM, PET, PMMA and other thermoplastic materials and various modified engineering plastics

### Technical Parameter

No.	Item	Parameter
1	Laser power	100W
2	Laser wavelength	915nm
3	Working mode	Continuous/adjustable
4	Working surface range	X axis: 300mm; Y axis: 200mm; Z axis: 100mm; (can be customized according to customer needs)
5	Positioning accuracy	X/Y/Z axes: $\leq 0.05\text{mm}$
6	Working speed	X/Y/Z axes: 100mm/s
7	Welding line width	0.5-3.0mm
8	Software function	Multi-axis linkage laser welding software
9	Cooling method	Air cooling
10	Power supply	AC 220V $\pm 10\%$ , 50/60Hz
11	Power consumption	1500W
12	Working environment	Temperature: 10~35°C; Humidity $\leq 85\%$

### Sample Display



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**LASER CLEANING  
MACHINE SERIES**  
—— 激光清洗系列

## Laser backpack cleaning machine



### Model Profile

Laser cleaning equipment, based on the interaction effect of laser and substance, is a new and efficient environmental protection cleaning technology. Backpacking cleaning machine can meet the special needs of high-altitude work, outdoor work, narrow space and so on. Different from the traditional mechanical cleaning method、 chemical cleaning method and ultrasonic cleaning method (wet cleaning process), it does not need any CFC organic solvent

that destroys the ozone layer; no pollution、 no noise、 harmless to the human body and the environment, is a "green" cleaning technology.

### Model Features

1. Portable design, small size, light weight;
2. Intelligent operating system, a variety of working modes are optional;
3. Compact structure, portable、 wear、 pull rod、 meet the ergonomics design;
4. Ergonomic non-contact cleaning, reduce damage to parts matrix;
5. selective cleaning, for product precise position, accurate cleaning;
6. no chemical cleaning fluid, no consumables, safe and environmental protection;
7. laser cleaning system stability, subsequent maintenance and maintenance cost;
8. high cleaning efficiency, time saving.

### Application Range

Metal surface rust removal, surface paint removal treatment, surface oil stains, stains, dirt cleaning, surface coating, coating cleaning; welding surface, spraying surface pretreatment, stone surface dust and attachments, rubber mold residue cleaning. It can be applied to aviation、 shipping、 cultural relic protection、 automobile peripheral、 food industry、 rail、 rubber mold and other industries.

### Technical Parameter

Item	parameter	
1	Laser type	Domestic ( H ) optical fiber laser Import a ( I ) a pulsed laser
2	Laser wavelength	1064 nm
3	cooling way	air cooling
4	Optical fiber length	3~5M(customizable)
5	laser power	20~100W
6	supply voltage	AC~220V
7	Power of the whole machine	≤500W
8	cabinet shape size	350*240*400mm
9	whole machine weight	22kg
10	Handheld head weight	Standard Edition 1.6 kg/min Edition 1.0kg
11	working ambient temperature	5 ~ 40 °C

### Sample Display





## Integrated double head laser cleaning machine



### Model Profile

Integrated double head laser cleaning machine is a new generation of surface cleaning of high-tech intelligent products. Easy to install、control and automate; about software control, preset rust、 paint、 oil removal mode、 customers can directly switch mode without adjusting parameters, simple operation, electricity, equipment, open, no chemical, media, dust, water cleaning, automatic focus, surface cleaning, cleaning surface cleanliness, can remove resin, oil, stains, dirt, rust, coating, coating, paint.

**Model Features**

1. One machine can be used as two machines.
2. Even more efficient is the double efficiency of a single head;
3. Partition independent control, the same product or different products can be single head or double head cleaning;
4. Without any chemical cleaning liquid, no consumables, safe protection, accurate cleaning, accurate position, precise size selective cleaning;
5. Only single area, save space; simple operation, power, operators can work after simple training;

**Application Range**

rust removal of metal surface; paint removal; cleaning of oil, stains and dirt; removal of surface coating and coating; treatment of welding surface / spraying surface; removal of dust and attachments; cleaning of rubber mold residues. Suitable for track, auto parts, printing industry, rubber mold, high-end machine tools, tire mold, environmental protection industry, etc.

**Technical Parameter**

Item	Parameter	Parameter
1	Laser type	Domestic (h) optical fiber laser /Import a (i) a pulsed laser
2	Laser wavelength	1064 nm
3	cooling way	water-cooling
4	Optical fiber length	3~15M(customizable)
5	laser power	200~1000W
6	supply voltage	AC~220V
7	Power of the whole machine	4.6~14kW
8	cabinet shape size	1504*790*1496mm
9	whole machine weight	410kg
10	cooling-water machine	Double temperature
11	Optional matching	Handheld (SC) / Automation (JX)
12	Handheld head weight	Standard model 1.4~2.3kg
13	working ambient temperature	5 ~ 40 °C
14	approval standards	CE certification

**Sample Display**



## Laser cleaning machine for welding spot



### Model Profile

Laser cleaning equipment is a high-tech product for a new generation of surface cleaning. Easy to install, control, and achieve automation. Simple operation, connect to the electricity, open the equipment, you can carry out no chemical reagents, no media, no dust, waterless cleaning, automatic focus, joint surface cleaning, cleaning surface cleanliness advantages, can remove the object surface resin, oil, stains, dirt, embroidery, turbidity, coating, coating, paint and so on.

### Model Feature

1. Domestic first welding spot special laser cleaning machine;
2. Lightweight special weld track cleaning head;
3. Cleaning range adjustable, can achieve accurate position, accurate size selective cleaning;
4. No chemical cleaning solution, no consumables, safe and environmental protection;
5. Simple operation, power, operators can work after simple training;
6. Cleaning efficiency, time saving;
7. Laser cleaning system is stable, almost no maintenance.

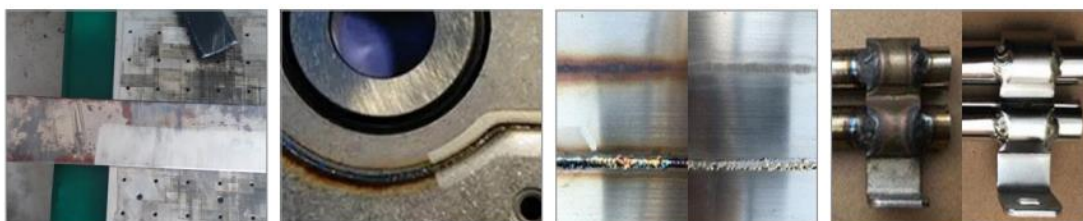
### Application Range

It is suitable for cleaning the steel and aluminum welding surface, as the pretreatment of the welding surface, that is, the cleaning after welding. Applications include those in the automobile industry, precision tool production, shipbuilding industry and other industries.

### Technical Parameter

Item	Parameter	
1	Laser type	Domestic (h) optical fiber laser Import a (i) a pulsed laser
2	Laser wavelength	1064 nm
3	Cooling way	air cooling
4	Optical fiber length	3~5M(customizable)
5	Laser power	20~100W
6	Supply voltage	AC~220V
7	Power of the whole machine	≤500W
8	Cabinet shape size	785*436*1061mm
9	Whole machine weight	85kg
10	Handheld head weight	Standard Edition 1.6 kg
11	Working ambient temperature	5 ~ 40 °C

### Sample Display



## Low power laser cleaning machine



### Model Profile

Portable box laser cleaning machine is a collection of laser, optical, mechanical, electronic and computer technology integration equipment. It is an application technology through the optical system of the laser beam focus and shaping, the high-energy laser beam scanning irradiation to the surface to be cleaned, so that the surface attachments to remove or peel, so as to achieve green pollution-free, no grinding, no contact, no thermal effect.

### Model Features

1. Full fiber and modular design, electric and optical efficiency of more than 30%;
2. Intelligent operating system, various working modes;
3. Non-contact cleaning, reduce damage to parts matrix; no chemical cleaning solution, no consumables, safe and environmental protection, selective cleaning, accurate cleaning for product position, size;

4. High cleaning efficiency, time cost saving, simple operation, power, handheld or hand operated automatic cleaning;
5. Stable laser cleaning system, and low subsequent maintenance and maintenance cost.

#### Application Range

Metal surface rust removal, surface paint removal treatment, surface oil stains, stains, dirt cleaning, surface coating, coating cleaning; welding surface, spraying surface pre-treatment, stone surface dust and attachments, rubber mold residue cleaning. Can be applied to aviation, shipping, cultural relic protection, automobile peripheral, food industry, rail, rubber mold and other industries.

#### Technical Parameter

Item	parameter	parameter
1	Laser type	Domestic (H) optical fiber laser /Import a (I) a pulsed laser
2	Laser wavelength	1064 nm
3	cooling way	air cooling
4	Optical fiber length	3~5M(customizable)
5	laser power	20~100W
6	supply voltage	AC~220V
7	Power of the whole machine	≤500W
8	cabinet shape size	785*436*1061mm
9	whole machine weight	85kg
10	Handheld head weight	Standard 1.4~2.3kg min model 1.0kg

#### Sample Display



## Intelligent pipe semi-automatic feeding



### Model Profile

Laser cleaning technology refers to the use of high-energy laser beam to illuminate the surface of the workpiece, remove the cleaning object surface attachments or surface coating, so as to achieve a clean process. Easy to install, control and automation; software control, preset rust, paint, oil removal mode, customers can directly switch mode without adjusting parameters, simple operation, electricity, equipment, open, no chemical, media, dust, water cleaning, automatic focus, surface cleaning, cleaning surface cleanliness, can remove resin, oil, stains, dirt, rust, coating, coating, paint.

### Model Features

1. The first optical fiber high power laser laser cleaning machine;
2. Various cleaning modes, one key intelligent operation; non-contact cleaning, can not damage the parts of the matrix, only remove the matrix surface material;
3. Without any chemical cleaning liquid, no consumables, safe, accurate cleaning, accurate position, accurate size selective cleaning;



4. High efficiency, time saving, simple operation, power, can hand or with manipulator automatic cleaning;
5. Laser cleaning system stability, almost no maintenance.

#### Application Range

Cleaning of aviation and tire components; oil paint cleaning of auto parts; mold oxide and coating cleaning; surface heat treatment of metal materials used in automobile manufacturing, aviation industry, electromechanical manufacturing and other industries.

#### Technical Parameter

Item	Parameter	
1	Laser type	Domestic (h) optical fiber laser /Import a (i) a pulsed laser
2	Laser wavelength	1064 nm
3	cooling way	Water cooling (with additional air conditioning system)
4	Optical fiber length	3~15M(customizable)
5	laser power	200~2000W
6	supply voltage	AC~220V
7	Power of the whole machine	3.6~14kW
8	cabinet shape size	1453*770*1338mm
9	whole machine weight	350~400kg
10	cooling-water machine	Double temperature
11	Optional matching	Handheld (SC) / Automation (JX)
12	Handheld head weight	Standard model 1.4~2.3kg
13	working ambient temperature	5 ~ 40 °C
14	approval standards	CE certification

#### Sample Display



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**LASER MARKING  
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## Fiber Laser Marking Machine



### Model Profile

The fiber laser adopts an integrated overall structure, has no optical pollution, it has small power coupling loss, and has many unique advantages in laser marking applications.

### Model Features

Excellent beam quality:

1. Using foreign advanced fiber lasers such as German IPG and British SPI, the beam quality has many advantages over traditional solid-state laser marking machines, and the focused spot diameter is less than 20um. The divergence angle is 1/4 of the diode

pumped laser. Especially suitable for precise and fine marking.

2. Low cost of use: the electro-optical conversion efficiency is up to 30%, and the power consumption of the whole machine is less than 500w, which is 1/10 of the lamp-pumped solid-state laser marking machine, which greatly saves energy consumption.

3. Long service life: The fiber laser marking machine uses a laser diode as the pump source, and its average working time can reach 100,000 hours.

4. Maintenance-free operation: The laser does not require any maintenance, nor does it require adjustment or cleaning of the lens.

### Application Range

Fiber laser marking machines are widely used in auto parts, electronic communications, hardware jewelry, chip manufacturing, light industrial products, medicine and food packaging and other industries. It is a necessary equipment for improving efficiency, saving energy consumption and pursuing quality.

### Technical Parameter

No.	Items	Parameters			
1	Model	ML-MF-TY-02-HW20			
2	Laser Power	20W	30W	50W	100W
3	Laser Wavelength	1064nm			
4	Repeat Frequency	20-100 KHZ			
5	Beam Quality	M2<2			
6	Marking Range	70*70mm-300*300mm ( Optional )			
7	Engraving Speed	≤7000mm/s			
8	Minimum Character	0.15mm			
9	Repeat Accuracy	±0.002			
10	Power Supply	Single-Phase AC 220V/50Hz-60Hz			
11	Machine Whole Power	500W			
12	Dimensions	600*900*150MM			
13	Gross Weight	80KG			
14	Control System	Win10			
15	Cooling System	Built-in Air Cooling			
16	Control Interface	Standard USB			
17	File Format	All Fonts/Glyphs of the WINDOWS			

### Sample Display



## UV Laser Marking Machine



### Model Profile

UV laser marking machine using 355nm UV laser research and development, the machine uses three order cavity frequency doubling technology compared with infrared laser, 355 UV focal light spot is very small, can largely reduce the mechanical deformation of the material and processing heat effect is small, because it is mainly used for ultra-fine marking, engraving, especially suitable for food and medicine packaging materials marking, making micro holes, glass material high-speed division and silicon wafer for complex graphics cutting and other applications.

### Model Features

- 1 Good beam quality, smaller focus spot, can achieve hyperfine marking.
- 2 More extensive scope of application.
- 3 The heat affected area is very small, no heat effect and material burning problem.
- 4 Fast marking speed, high efficiency.
- 5 Stable performance, small volume, low power consumption.

### Application Range

Mainly used in the high-end market of ultra-fine processing, the surface marking of packaging bottles of cosmetics, medicines, food and other polymer materials, the effect is fine, the marking is clear and solid, better than ink coding and pollution-free; flexible PCB board marking and scribing; silicon wafer micro-hole and blind-hole processing; LCD liquid crystal glass QR code marking, glassware surface punching, metal surface coating marking, plastic buttons, electronic components, gifts, communication equipment, building materials, etc.

### Technical Parameter

No.	Item	Parameter
1	Model	ML-MU-KF-00-HW03
2	Laser Power	3W                      5W
3	Laser Wavelength	355nm
4	Beam Quality	M2 < 1.1
5	Pulse Width	<15ns@30KHZ
6	Q-Frequency	10-150KHz
7	Marking Range	100*100mm
8	Marking Speed	≤7000mm/s
9	Minimum Line Width	≤0.005mm
10	Repeat Accuracy	±0.003mm
11	Machine Whole Power	800W
12	Power Supply	220v 50Hz/60Hz

### Sample Display





## Co2 Laser Marking Machine



### Model Profile

The core optical components of CO2 series laser marking machine use CO2 radio frequency fiber laser, the laser wavelength is 10.64 $\mu$ m, which belongs to the mid-infrared frequency wave band, and the CO2 fiber laser has relatively high power and relatively high photoelectric conversion rate.

The Co2 fiber laser uses CO2 gas as the working medium, and charges CO2 and other auxiliary gases into the discharge tube. When a high voltage is applied to the electrode, a glow discharge is generated in the discharge tube, and the gas molecules can release laser light; the released laser energy is expanded. After the beam is focused and deflected by a scanning galvanometer, laser processing can be performed.

The marking software runs on WINDOWS system, with multi-language interface, compatible with file formats of AUTOCAD, CORELDRAW, PHOTOSHOP and other software, such as PLT, PCW, DXF, BMP, etc., and can also directly use SHX, TTF font library. Graphics can be freely designed by computer, easy to operate, and the power is controlled by software and can be continuously adjusted.

The marking software operate on Windows platform, with Chinese interface, compatible with file formats of AUTOCAD, CORELDRAW, PHOTOSHOP and other software, such as PLT, PCW, DXF, BMP, etc., and can also directly use SHX, TTF font library. Graphics can be freely designed by computer, easy to operate, and the power is controlled by software and can be continuously adjusted.

### Model Feature

1. The marking has a better accuracy, the speed is fast, and the engraving depth can be controlled at will.
2. The laser power is large, which can be applied to engraving and cutting various non-metallic products.
3. No consumables, low processing cost, and the operating life of the laser is as high as 20,000-30,000 hours.
4. Clear marking, not easy to wear; high engraving and cutting efficiency, environmental protection and energy saving.

### Application Range

Craft gifts, furniture, leather clothing, advertising brand, model making, food packaging, electronic components, pharmaceutical packaging, printing plate making, nameplates, etc. Applicable materials are mainly bamboo and wood products, paper, cloth leather, plexiglass, epoxy resin, acrylic, polyester resin and other non-metallic materials.

### Technical Parameter

No.	Item	Parameter
1	Model	ML-MF-TY-02-HW20
2	Laser Power	20W/30w      50w/100W
3	Laser Wavelength	1064nm
4	Repeat Frequency	20-100KHz
5	Engraving Range	<15ns@30KHZ
6	Minimum Line Width	70*70mm-300*300mm
7	Repeatability	≤7000mm/s
8	Total Power	0.15mm
9	Engraving Depth	±0.002
10	Minimum Character	Single Phase AC 220V/50Hz-60Hz
11	Engraving Line Speed	500W
12	Electricity Demand	600*900*150MM
13	Optical System Size	80KG
14	Control System	Win10
15	Cooling System	Built-in Air Cooling

### Sample Display



## Portable Fiber Laser Marking Machine



### Model Profile

Portable fiber laser marking machine is a type of laser marking machine system developed by our company using domestic and foreign fiber lasers. The fiber output laser is used, and then the high-speed scanning galvanometer system realizes the marking function. The fiber laser marking machine has high electro-optical conversion efficiency, adopts air-cooled cooling, compact size, good output beam quality and high reliability. Metal materials and some non-metal materials can be engraved.

### Model Features

1. High processing efficiency, computer control, easy to realize automation.
2. The laser beam is thin, the processing material consumption is small, and the processing heat affected zone is small.
3. It belongs to non-contact processing, does not damage the product, has no tool wear, and has good marking quality.
4. It can process a variety of metal and non-metal materials. In particular, it is more advantageous to mark high hardness, high melting point and brittle materials.

### Application Range

Widely used in integrated circuit chips, computer accessories, industrial bearings, clocks, electronic and communication products, aerospace devices, various auto parts, home appliances hardware tools, molds, wires and cables, food packaging, jewelry, tobacco and military affairs and many other fields Graphical and textual marking, as well as high-volume production line jobs.

### Technical Parameter

No.	Item	Parameter
1	Model	ML-MF-TY-BX-HW20
2	Laser Power	20W/30w 50w
3	Laser Wavelength	1064nm
4	Repeat Frequency	20-200KHz
5	Beam Quality	M2 < 1.2
6	Marking Range	70*70mm-300*300mm
7	Engraving Speed	≤7000mm/s
8	Minimum Character	0.15mm
9	Repeatability	±0.002
10	Power Supply	Single-phase AC 220V/50Hz-60Hz
11	Power Consumption of the Whole Machine	800W
12	Cooling Method	Built-in Air Cooling
13	Total Weight	17.5KG
14	Physical Dimension	400mm*500mm*650mm

### Sample Display



## PCB Laser coding machine



### Model Profile

Printed circuit boards (PCB) laser coding equipment specially used to mark barcodes, QR codes, characters, graphics and other information on PCB. The purchase of raw materials, production process, product batch, manufacturer, production date, product whereabouts and other information can be automatically generated into a QR code, which can be automatically marked on the surface of the PCB/FPCB by laser to achieve product traceability and management.

### Product Features

1. It can be configured with CO2 laser (10.6 $\mu$ m) or optical fiber laser (1064nm) or ultraviolet laser (355nm), suitable for a variety of different materials.
2. It can automatically store, sort, skip numbers (numbers, letters), rotate, reverse, foolproof, abnormal alarm and other functions.
3. It supports online barcode reading, and can upload or save barcode information locally.
4. Windows system control software, Chinese and English interface, Easy to operate. We can be customized according to the requirements of different customers to meet the individual requirements of the production management system, such as integrated to customer's software and server

### Product Advantages

1. Precision mechanical structure, imported optical devices, can achieve high stability and high precision processing.
2. The processing does not need any consumables.
3. Equipped with CCD automatic target grabbing, code reading detection, and fool-proof system to improve productivity and yield.
4. Equipped with an adjustable carrying track, which can customize the copy processing function to meet the needs of online PCB front and back processing.



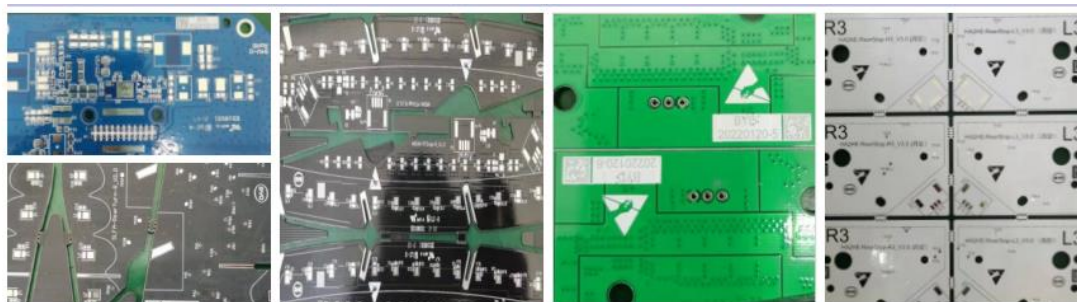
### Applications

Printed circuit boards (PCB) laser coding machine is mainly used in PCB, FPCB, SMT and other industries.

### Technical Parameter

No.	Item	Parameter
1	Laser	Fiber/UV/CO2
2	Processing Precision	±20μm
3	Processing Range	420mmx540mm
4	Platform Movement Speed	700mm/s
5	Platform Repeat Positioning Accuracy	≤±0.01mm
6	Laser Scanning Speed	100mm/s-3000mm/s(adjustable )
7	CCD Visual Repeat Positioning Accuracy	±10μm
8	Support QR Code Format	DAM/QR/Barcode
9	Size	1480mmx1380mmx2050mm
10	Power	≤3KW
11	Weight	1900Kg
12	Voltage	Single Phase 220V / 50Hz
13	Cooling System	Air cooling
14	Environment Humidity	≤60%, no frosting 24±2°C
15	Dust removal system	Automatic Soot Purification System
16	Compressed Air	≥0.4Mpa

### Sample Display



## Precision Laser Etching Machine



### Model Profile

The device uses high-quality laser beams to focus on conductive metal oxides or silver pastes on organic polymers such as glass, PMMA, PET, PE PI, etc. etching on silver paste, copper paste, conductive coating, ITO coating and nano-silver coating on the organic polymer.

### Features

1. High-quality laser and beam with high photoelectric conversion rate to ensure the reliability and consistency of etching;
2. Advanced optical system, low power consumption, small focusing spot, high beam quality, good processing accuracy, and automatic focusing;
3. Imported motion modules and control modules are used to ensure that the equipment has high positioning accuracy and repeat positioning accuracy;
4. CCD automatic alignment recognition to achieve precise coincidence of the laser processing path and the datum point of the design drawing, to ensure the accuracy of the processing graphics;
5. The marble working platform can effectively reduce vibration during the equipment processing and maintain the stability of the machine processing;
6. Self-developed intelligent laser etching system, friendly application platform, powerful functions, simple operation, and is compatible with a variety of file formats.

### Product Advantages

1. The design can be changed flexibly, the product introduction cycle is short, and the reliability is high;
2. Non-contact dry processing without subsequent cleaning and pollutant discharge;
3. Ultra-micro structure, greatly improve the utilization rate of circuit boards;
4. No template, direct molding, high speed and low cost.

### Applications

Etching the conductive film layer of capacitive or resistive touch screen, ITO film, conductive silver paste, thin film solar substrate, FPD liquid crystal panel, ITO coated glass, mobile phone, touch screen body GF, GFF, OGS vehicle touch screen body, etc.

### Technical Parameter

NO.	Item	Parameters
1	Laser Type	Fiber Laser/ YAG Laser
2	Laser Wavelength	1064/355/532nm
3	Light Beam Quality	M2 < 1.3
4	Work Plan	400X600mm;(Customization is acceptable)
5	Positioning Accuracy	≦ 0.01mm
6	Movement Speed	200-5000mm/s
7	Spot Diameter	20μm
8	Minimum Etch Line Width	20μm
9	Etched Line Width Accuracy	±3μm
10	Power Supply	AC 220V±10% , 50/60Hz
11	Power Consumption	3000W
12	Working Environment	Temperature: 0~45℃; Humidity≤85%

### Sample Display



## Laser Marking Machine Display

**Large Format Fiber  
Laser Marking Machine**



**LED Lamp Laser Marking Machine  
(Eight Stations)**



**Portable Split  
Laser Marking Machine**



**Handheld Fiber  
Laser Marking Machine**



**Online  
Laser Marking Machine**



**Double Station  
Turntable Marking Machine**



**3D Laser Marking Machine**



**Visual Assembly Line  
Laser Marking Machine**



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**LASER CUTTING  
MACHINE SERIES**  
—— 激光切割系列



## Laser cutting machine QX series for Tube



### Model Profile

QX series laser cutting machine is mainly used for cutting light weight pipes (square pipes, round pipes, rectangular pipes) and other metal pipes. It has a simple and stable structure, good rigidity and high-cost performance.

### Model Features

1. The laser beam quality is good, the stability is high, the power consumption is low, and the life is long.
2. Short tail material design, the shortest tail material can reach 110mm.
3. The graphics can be processed according to the graphics track in the processing system.

4. Air blowing at the rear of the card, side suction of the front card, the pipe wall is clean, and the cutting dust and smoke are less.
5. The cutting section of the pipe is smooth without burrs, no slag, no blackening, no yellowing, and can easily realize the cutting of various complex graphics.

### Application Range

Widely used in metal automobiles, forklifts, electrical appliances, hydraulics, textiles, door and window decoration, furniture and kitchen utensils, medical equipment, construction steel structures, oil pipelines, fitness equipment, display supplies, machining and other industries.

### Technical Parameter

Item	QX Series		
	Model	ML-CP-6016D-QX	ML-CP-6020D-QX
2	Processing pipe range	Round tube 20-160 Square tube 20-110	Round tube 20-220 Square tube 20-140
3	Maximum processing length	6800mm	6800mm
4	Chuck maximum speed	100rpm	100rpm
5	X/Y Maximum speed	75mpm	75mpm
6	X/Y maximum acceleration	0.75G	0.75G
7	positioning accuracy	±0.05mm	±0.05mm
8	Repeatability	±0.03mm	±0.03mm
9	maximum load	120kg	150kg
10	Cutting method	Fixed adjustable support	Fixed adjustable support
11	Feeding method	Manual feeding, semi-automatic feeding	Manual feeding, semi-automatic feeding
12	tailing length	>110mm	>110mm
13	Weight	5.50 tons	5.5 tons
14	Dimensional Size	11000*2300*2400mm	11000*2300*2400mm

### Sample Display



## Tube laser cutting machine BP series



### Model Profile

It is mainly used for cutting metal pipes such as pipes (square pipes, round pipes, rectangular pipes), with stable structure and good rigidity.

### Model Features

1. The weight of the bed is heavy, the stability of high-speed operation is stronger, and it is not easy to generate vibration. ;
2. Short tail material design, the shortest tail material can reach 110mm;
3. The graphics can be processed according to the graphics trajectory in the processing system; the rear card is blown at the tail, the front card is sucked from the side, the pipe

- wall is clean, and the cutting dust and smoke are less;
- The cutting section of the pipe is smooth without burrs, no slag, no blackening, no yellowing, and can easily realize the cutting of various complex graphics.

**Application Range**

Widely used in metal automobiles, forklifts, electrical appliances, hydraulics, textiles, door and window decoration, furniture and kitchen utensils, medical equipment, construction steel structures, oil pipelines, fitness equipment, display supplies, machining and other industries.

**Technical Parameter**

Item	QX Series		
	Model	ML-CP-6020D-BP	ML-CP-6035D-BP
2	Processing pipe range	Round tube 20-220 Square tube 20-140	Round tube 20-350 Square tube 20-240
3	Maximum processing length	6800mm	6800mm
4	Chuck maximum speed	100rpm	75rpm
5	X/Y Maximum speed	100mpm	85mpm
6	X/Y maximum acceleration	0.88G	0.75G
7	positioning accuracy	±0.05mm	±0.05mm
8	Repeatability	±0.03mm	±0.03mm
9	maximum load	170kg	500kg
10	Cutting method	Fixed adjustable support	Fixed adjustable support
11	Feeding method	Manual feeding semi-automatic feeding Fully automatic feeding	Manual feeding semi-automatic feeding Fully automatic feeding
12	tailing length	>110mm	>110mm

**Sample Display**



## Tube laser cutting machine ZX series



### Model Profile

It is mainly used for the cutting of metal pipes such as pipes (square pipes, round pipes, rectangular pipes).

### Model Feature

1. The weight of the bed is heavy, the stability of high-speed operation is stronger, and it is not easy to generate vibration;
2. Short tail material design, the shortest tail material can reach 110mm;
3. The rear bus type control system, the cutting response speed is faster and the precision

is higher;

4. Optional follow-up support, follow-up blanking support, high cutting precision;
5. The cutting section of the pipe is smooth without burrs, no slag, no blackening, no yellowing, and can easily realize the cutting of various complex graphics.

### Application Range

Widely used in metal automobiles, forklifts, electrical appliances, hydraulics, textiles, door and window decoration, furniture and kitchen utensils, medical equipment, construction steel structures, oil pipelines, fitness equipment, display supplies, machining and other industries.

### Technical Parameter

Item	QX Series		
	Model	ML-CP-6020D-ZX	ML-CP-6035D-ZX
1	Model	ML-CP-6020D-ZX	ML-CP-6035D-ZX
2	Processing pipe range	Round tube 20-220 Square tube 20-140	Round tube 20-350 Square tube 20-240
3	Maximum processing length	6800mm	6800mm
4	Chuck maximum speed	100rpm	75rpm
5	X/Y Maximum speed	100mpm	85mpm
6	X/Y maximum acceleration	0.88G	0.75G
7	positioning accuracy	±0.05mm	±0.05mm
8	Repeatability	±0.03mm	±0.03mm
9	maximum load	170kg	500kg
10	Cutting method	Fixed adjustable support	Fixed adjustable support
11	Feeding method	Manual feeding, semi-automatic feeding, Fully automatic feeding	Manual feeding, semi-automatic feeding, Fully automatic feeding
12	tailing length	>110mm	>110mm
13	Weight	6.80 tons	8 tons
14	Dimensional Size	11000*2300*2400mm	11000*2500*2400mm

### Sample Display



## Tube laser cutting machine GS series



### Model Profile

Mainly used for ultra-high-speed automatic cutting of metal pipes such as light and small pipes (square pipes, round pipes, rectangular pipes), the maximum speed of the chuck can reach more than 120rpm, and the acceleration can reach more than 1G. Design, automatic feeding is directly connected to the bed, the width of the whole machine is as low as 2.5 meters, and the length of the tail material can reach 0-60mm.

### Model Features

1. High processing efficiency, computer control, easy to realize automation.
2. The laser beam is thin, the processing material consumption is small, and the processing heat affected zone is small.
3. It belongs to non-contact processing, does not damage the product, has no tool wear, and has good marking quality.
4. It can process a variety of metal and non-metal materials. In particular, it is more advantageous to mark high hardness, high melting point and brittle materials.

### Application Range

Tube cutting small tubes and light tubes are very advantageous and are widely used in furniture, kitchenware, medical equipment, fitness equipment, display supplies and other industries.

### Technical Parameter

No.	Item	Parameter
1	Model	ML-MF-TY-BX-HW20
2	Laser Power	20W/30w 50w
3	Laser Wavelength	1064nm
4	Repeat Frequency	20-200KHz
5	Beam Quality	M2 < 1.2
6	Marking Range	70*70mm-300*300mm
7	Engraving Speed	≤7000mm/s
8	Minimum Character	0.15mm
9	Repeatability	±0.002
10	Power Supply	Single-phase AC 220V/50Hz-60Hz
11	Power Consumption of the Whole Machine	800W
12	Cooling Method	Built-in Air Cooling
13	Total Weight	17.5KG
14	Physical Dimension	400mm*500mm*650mm

### Sample Display





## Intelligent pipe semi-automatic feeding



### Model Profile

A semi-automatic feeding system for pipes with high cost performance and effectively improving production efficiency; just arrange the pipes in a uniform direction to complete automatic feeding. It is suitable for light-duty, standard, and bus intelligent pipe laser cutting machines, and is suitable for automatic feeding of square pipes, round pipes, and rectangular pipes.

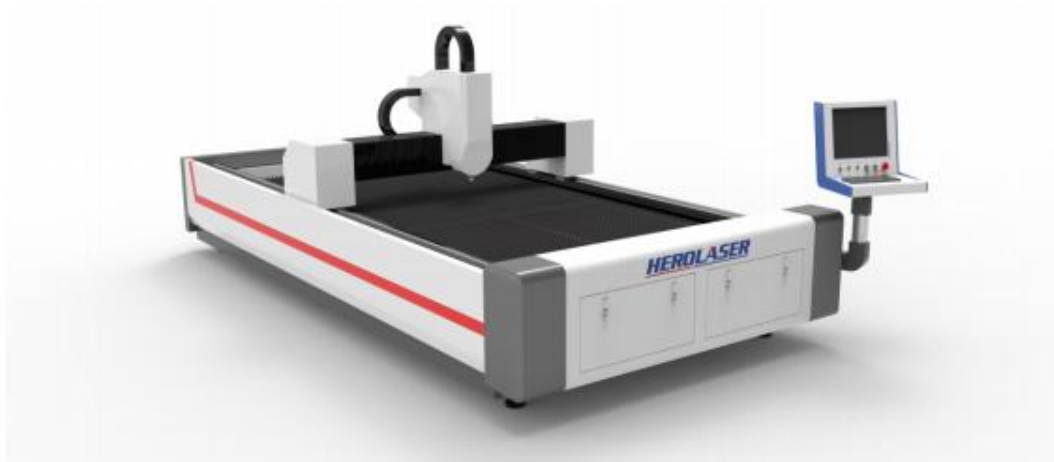
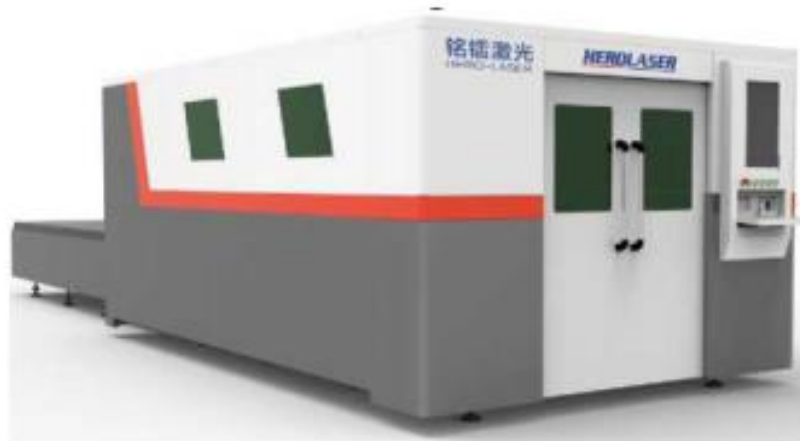
## Intelligent pipe automatic feeding



### Model Profile

A fully automatic pipe feeding machine, only need to put a bundle of pipes into it to complete the automatic feeding, which can be applied to light, standard and bus type intelligent pipe laser cutting machines, suitable for square pipes, round pipes, Automatic feeding of rectangular tubes, etc.

## Fiber laser cutting machine 3015 series



### Model Profile

The 3015 series laser cutting machine is a fiber laser cutting machine with advanced structural design and excellent machine performance. It adopts the world-class numerical control system and fiber laser. The gantry-type double-drive structure is applied, the integral welded base is adopted, and the rack-and-pinion transmission structure is adopted. Greatly improve processing efficiency; visual nesting, close fit, saving materials. Advanced technology can speed up your company's new product development and recover your

equipment investment costs as quickly as possible.

### Model Features

6. The laser beam has good quality, high stability, low power consumption and long life;
7. Equipped with emerging technology automatic focusing cutting head, simple and intelligent operation;
8. Graphical trajectory can be directly drawn or edited in the software processing system;
9. The slit is narrow, the heat affected zone is small, the local deformation of the workpiece is extremely small, and there is no mechanical deformation;
10. High-end configuration, powerful and cost-effective.

### Technical Parameter

Name	Medium power CB switching platform series	Medium power CB single platform series	High Power CZ Switch Platform Series	High Power CZ Single Platform Series	High Power CZ Single Platform Series
<b>Model</b>	ML-CB-3015FB	ML-CB-3015T	ML-CZ-3015FB	ML-CZ-3015T	ML-CF-3015FB
<b>Cutting Range</b>	3000*1500mm	3000*1500m m	3000*1500mm	3000*1500mm	3000*1500mm
<b>Power Range</b>	>3000W	>3000W	3000W-6000W	3000W-6000W	12000W-20000W
<b>X/Y Max Speed</b>	100m/min	100m/min	110m/min	110m/min	120m/min
<b>XY Max Acceleration</b>	0.8G	0.8G	1.0G	1.0G	1.5G
<b>Position Accuracy</b>	±0.03mm/m	±0.03mm/m	±0.03mm/m	±0.03mm/m	±0.03mm/m
<b>Repeatability</b>	±0.02mm	±0.02mm	±0.02mm	±0.02mm	±0.02mm
<b>Weight</b>	4.5T	2.4T	6.8T	3.6T	7.5T
<b>Dimensional size</b>	8100*2650*2200 mm	4800*2250*1800 mm	8100*2650*2200 mm	4800*2250*1800 mm	8100*2650*2200 mm

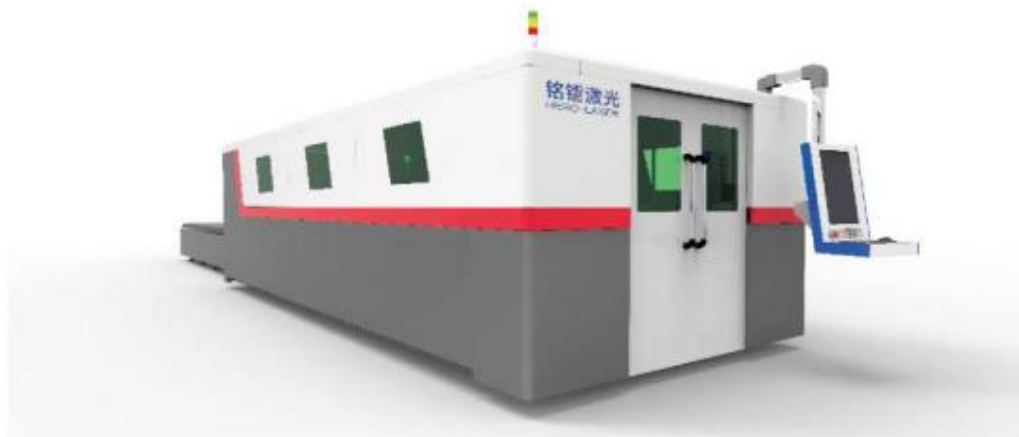
### Application Range

Widely used in sheet metal processing, advertising sign making, machinery parts, kitchen utensils, metal handicrafts, saw blades, hardware and other industries. It can also be used for cutting carbon steel, stainless steel, aluminum alloy, copper, titanium and other metals.

### Sample Display



## Fiber laser cutting machine 4020 series



### Model Profile

4020 series laser cutting machine is a fiber laser cutting machine with advanced structural design and excellent machine tool performance. It applies world-class numerical control system and fiber laser. The gantry-type double-drive structure is applied, the integral welded base is adopted, and the rack-and-pinion transmission structure is adopted. Greatly improve processing efficiency; visual nesting, close fit, saving materials. Advanced technology can improve your company's new product development speed and recover your equipment investment cost as soon as possible.

### Model Features

1. The laser beam has good quality, high stability, low power consumption and long life;
2. Equipped with emerging technology auto-focus cutting head, simple and intelligent operation;
3. Graphical trajectory can be directly drawn or edited in the software processing system;
4. The slit is narrow, the heat affected zone is small, the local deformation of the workpiece is extremely small, and there is no mechanical deformation;
5. High-end configuration, powerful and cost-effective.

### Application Range

Widely used in sheet metal processing, advertising sign making, machinery parts, kitchen utensils, metal handicrafts, saw blades, hardware and other industries. It can also be used for cutting carbon steel, stainless steel, aluminum alloy, copper, titanium and other metals.

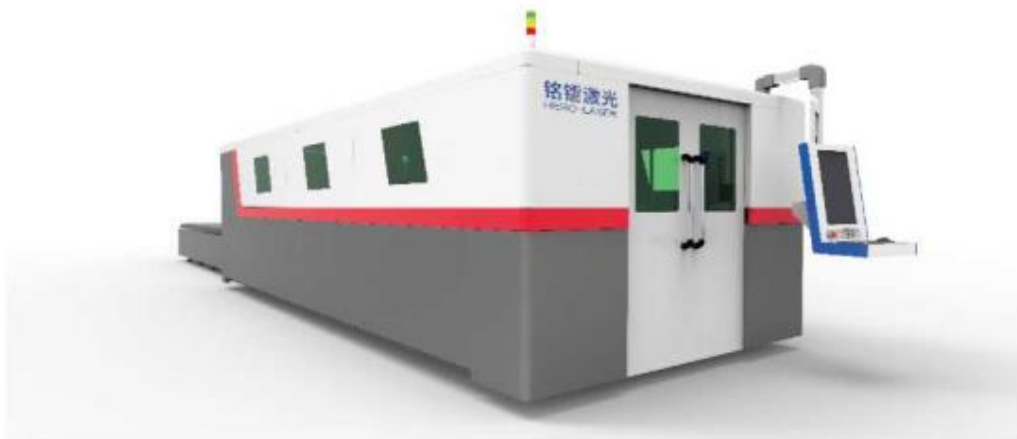
### Technical Parameter

Name	Medium power CB switching platform series	Medium power CB single platform series	High Power CZ Switch Platform Series	High Power CZ Single Platform Series	High Power CZ Single Platform Series
<b>Model</b>	ML-CB-4020FB	ML-CB-4020TT	ML-CZ-4020FB	ML-CZ-4020T	ML-CF-4020FB
<b>Cutting Range</b>	4000*2000mm	4000*2000mm	4000*2000mm	4000*2000mm	4000*2000mm
<b>Power Range</b>	~3000W	~3000W	3000W-6000W	3000W-6000W	12000W-20000W
<b>X/Y Max Speed</b>	100m/min	100m/min	110m/min	110m/min	120m/min
<b>XY Max Acceleration</b>	0.8G	0.8G	1.0G	1.0G	1.5G
<b>Accuracy</b>	±0.03mm/m	±0.03mm/m	±0.03mm/m	±0.03mm/m	±0.03mm/m
<b>Repeatability</b>	±0.02mm	±0.02mm	±0.02mm	±0.02mm	±0.02mm
<b>Weight</b>	5.5T	3.2T	9.5T	4.2T	10.5T
<b>Dimensional Size</b>	11500*3250*2200mm	5900*2750*1800mm	11500*3150*2200mm	5900*2750*1800mm	11500*3150*2200mm

### Sample Display



## Fiber laser cutting machine 6025 series



### Model Profile

6025 series laser cutting machine is a fiber laser cutting machine with advanced structural design and excellent machine tool performance. It applies world-class numerical control system and fiber laser. The gantry-type double-drive structure is applied, the integral welded base is adopted, and the rack-and-pinion transmission structure is adopted. Greatly improve processing efficiency; visual nesting, close fit, saving materials. Advanced technology can improve your company's new product development speed and recover your equipment investment cost as soon as possible.

**Model Features**

1. The laser beam quality is good, the stability is high, the power consumption is small, and the life is long;
2. Equipped with emerging technology automatic focusing cutting head, simple and intelligent operation;
3. The graphic track can be directly drawn or edited in the software processing system;
4. The slit is narrow, the heat affected zone is small, the local deformation of the workpiece is extremely small, and there is no mechanical deformation;
5. High-end configuration, powerful, cost-effective.

**Application Range**

Widely used in sheet metal processing, advertising sign making, machinery parts, kitchen utensils, metal handicrafts, saw blades, hardware and other industries. It can also be used for cutting carbon steel, stainless steel, aluminum alloy, copper, titanium and other metals.

**Technical Parameter**

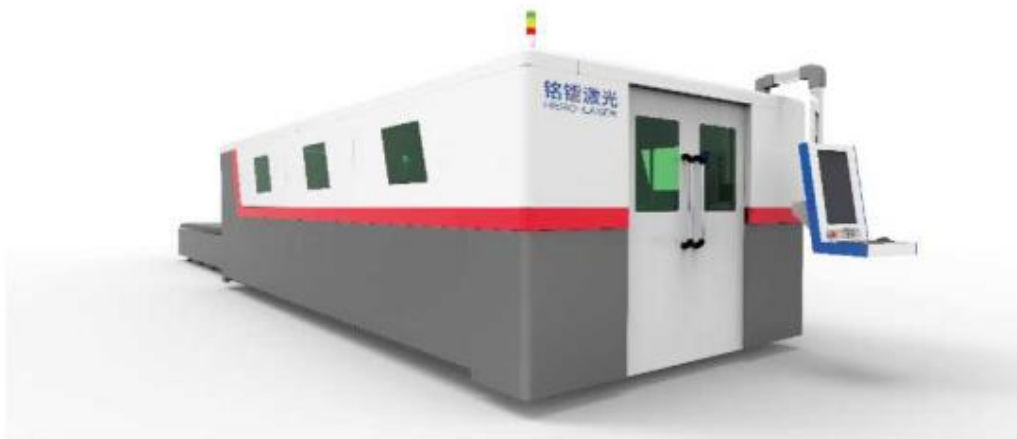
Name	Medium power CB switching platform series	Medium power CB single platform series	High Power CZ Switch Platform Series	High Power CZ Single Platform Series	High Power CZ Single Platform Series
Model	ML-CB-6025FB	ML-CB-6025T	ML-CZ-6025FB	ML-CZ-6025T	ML-CF-6025FB
Cutting Range	6000*2500mm	6000*2500mm	6000*2500mm	6000*2500mm	6000*2500mm
Power Range	~3000W	~3000W	3000W-6000W	3000W-6000W	2000W-20000W
X/Y Max Speed	100m/min	100m/min	110m/min	110m/min	120m/min
XY Max Acceleration	0.8G	0.8G	1.0G	1.0G	1.5G
Position Accuracy	±0.03mm/m	±0.03mm/m	±0.03mm/m	±0.03mm/m	±0.03mm/
Repeatability	±0.02mm	±0.02mm	±0.02mm	±0.02mm	±0.02mm
Weight	8.5T	4.6T	16.5T	6.5T	18.5T
Dimensional Size	11500*3250*2200 mm	8300*3250*1800 mm	15000*3650*2200m m	8300*3250*1800 mm	15000*3650*2200 mm

**Sample Display**





## Fiber laser cutting machine 8025 series



### Model Profile

8025 series laser cutting machine is a fiber laser cutting machine with advanced structural design and excellent machine tool performance. It applies world-class numerical control system and fiber laser. The gantry-type double-drive structure is applied, the integral welded base is adopted, and the rack-and-pinion transmission structure is adopted. Greatly improve processing efficiency; visual nesting, close fit, saving materials. Advanced technology can improve your company's new product development speed and recover your equipment investment cost as soon as possible.

### Model Features

1. The laser beam quality is good, the stability is high, the power consumption is small, and the life is long;
2. Equipped with emerging technology automatic focusing cutting head, simple and intelligent operation;
3. Graphical trajectory can be directly drawn or edited in the software processing system;
4. The slit is narrow, the heat affected zone is small, the local deformation of the workpiece is extremely small, and there is no mechanical deformation;
5. High-end configuration, powerful and cost-effective.

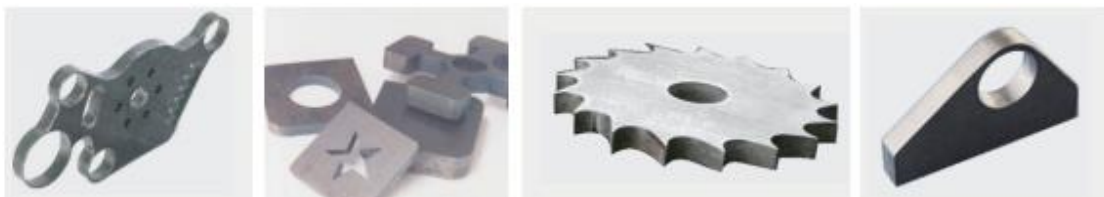
### Application Range

Widely used in sheet metal processing, advertising sign making, machinery parts, kitchen utensils, metal handicrafts, saw blades, hardware and other industries. It can also be used for cutting carbon steel, stainless steel, aluminum alloy, copper, titanium and other metals.

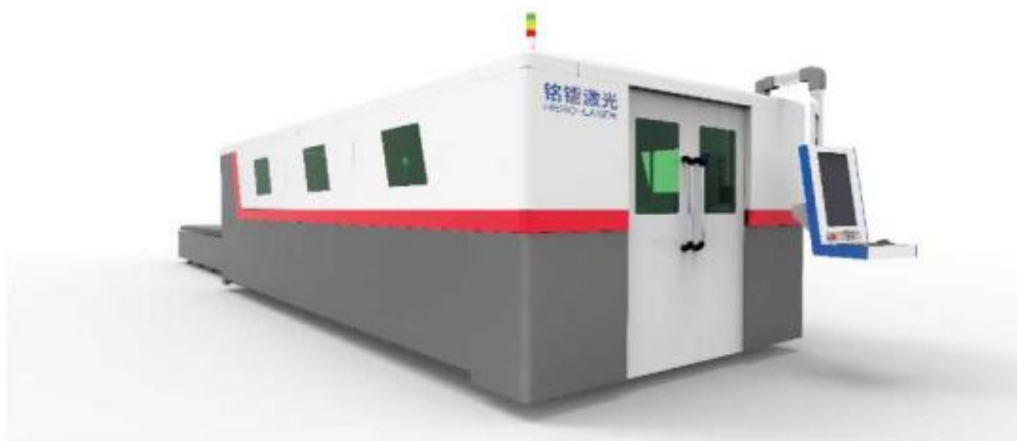
### Technical Parameter

Name	High Power CZ Switch Platform Series	Ultra High Power CF Switch Platform Series	Ultra High Power CF Single Platform Series
Model	ML-CZ-8025FB	ML-CF-8025FB	ML-CF-8025T
Cutting Range	8000*2500mm	8000*2500mm	8000*2500mm
Power Range	3000W-6000W	12000W-20000W	12000W-20000W
X/Y Max. Speed	110m/min	120m/min	120m/min
X/Y Max Acceleration	1.0G	1.5G	1.5G
positioning accuracy	±0.03mm/m	±0.03mm/m	±0.03mm/m
Repeatability	±0.02mm	±0.02mm	±0.02mm
Weight	16T	20T	8.50 T
Dimensional size	19000*3650*2200mm	19000*3650*2200mm	10500*3250*1800mm

### Sample Display



## Fiber laser cutting machine 12025 series



### Model Profile

12025 series laser cutting machine is a fiber laser cutting machine with advanced structural design and excellent machine tool performance. It applies world-class numerical control system and fiber laser. The gantry-type double-drive structure is applied, the integral welded base is adopted, and the rack-and-pinion transmission structure is adopted, with high speed and high precision. Greatly improve processing efficiency; visual nesting, close fit, saving materials. Advanced technology can improve your company's new product development speed and recover your equipment investment cost as soon as possible.

### Model Features

1. The laser beam quality is good, the stability is high, the power consumption is small, and the life is long;
2. Equipped with emerging technology automatic focusing cutting head, simple and intelligent operation;
3. The graphic track can be directly drawn or edited in the software processing system;
4. The slit is narrow, the heat affected zone is small, the local deformation of the workpiece is extremely small, and there is no mechanical deformation;
5. High-end configuration, powerful, cost-effective.

### Application Range

Widely used in sheet metal processing, advertising sign making, machinery parts, kitchen utensils, metal handicrafts, saw blades, hardware and other industries. It can also be used for cutting carbon steel, stainless steel, aluminum alloy, copper, titanium and other metals.

### Technical Parameter

Name	Ultra High Power CF Switch Platform Series	Ultra High Power CF Single Platform Series
Model	ML-CF-12025FB	ML-CF-12025T
Cutting Range	12000*2500mm	12000*2500mm
Power Range	12000W-20000W	12000W-20000W
X/Y Max. Speed	120m/min	120m/min
X/Y Max. Acceleration	1.5G	1.5G
positioning accuracy	±0.03mm/m	±0.03mm/m
Repeatability	±0.02mm	±0.02mm
Weight	30T	12T
Dimensional Size	27000*36500*2200mm	13500*3250*1800mm

### Sample Display



## Optical fiber precision laser cutting machine



### Model Profile

Herolaser precision laser cutting machine is a fiber laser cutting machine with advanced structural design and excellent machine performance. It uses world-class numerical control system and fiber laser. The gantry-type double-drive structure is applied, the overall welded base is adopted, and the high-precision marble platform is adopted. It adopts silk and sweat guide rail transmission, high precision, one-time cutting and forming, without subsequent processing. Greatly improve processing efficiency; visual nesting, close fit, saving materials. Advanced technology can improve your company's new product development speed and recover your equipment investment cost as soon as possible

### Model Features

1. High precision, narrow slit, minimum heat affected zone, smooth cutting surface without burrs;

2. The laser cutting head will not contact the surface of the material and will not scratch the workpiece;
3. The graphic track can be directly drawn or edited in the software processing system;
4. The slit is narrow, the heat affected zone is small, the local deformation of the workpiece is extremely small, and there is no mechanical deformation;
5. It has good processing flexibility, can process any graphics, and can also add a rotating shaft to cut pipes and other special-shaped materials.

### Application Range

Widely used in sheet metal processing, advertising sign making, machinery parts, kitchen utensils, metal handicrafts, saw blades, hardware and other industries. It can also be used for cutting carbon steel, stainless steel, aluminum alloy, carbon steel, copper, titanium and other metals.

### Technical Parameter

Name	Precision cutting machine		Linear Motor Precision Cutting Machine		
	C6	C58	C6	C58	C13
Cutting Range	600*600mm	900*650mm	600*600mm	650*800mm	1300*1300mm
X/Y Max Speed	20m/min	20m/min	48m/min	48m/min	48m/min
X/Y Max Acceleration	0.5G	0.5G	1.5G	1.5G	1.5G
Positioning accuracy	0.03mm	0.03mm	0.01mm	0.01mm	0.01mm
Repeatability	0.02mm	0.02mm	0.003mm	0.003mm	0.003mm
Dimensional Size	1600*1800*200mm	2000*1500*2100m	1600*1800*2200m	2100*1700*2200m	3330*2515*2200m

### Sample Display



## Co2 Precision Cutting Machine



### Model Profile

According to the processing needs of touch screen, electronic paper, PCB, composite materials, etc., the carbon dioxide precision cutting machine is carefully built with the international advanced precision cutting technology and excellent user experience design concept. The integral casting machine tool ensures long-term high-precision and stable cutting; the whole machine is compact in design, adopts imported optical devices, double-lead screws, and double-motor transmission mechanisms, which greatly improves product quality and processing speed

### Model Features

1. Equipped with high-performance imported CO2 laser, it can cut a variety of different non-metallic materials.
2. Using high-precision marble work surface, higher shock resistance, can adapt to a

variety of environments.

3. Imported servo motor + screw guide dual-drive transmission, faster processing speed and first-class precision control ability!
4. Easy-to-learn Windows system control software, specially designed for cutting technology, with Chinese interface, real-time viewing of cutting paths, and easy and convenient operation.

**Product advantages**

1. The machine is cast as a whole, with high precision and stability, which can effectively eliminate the vibration generated during high-speed cutting;
2. Adopt gantry double servo drive structure, high inertia servo motor, the maximum acceleration is 0.5G;
3. Adopt flight optical path structure design and configure visual positioning system;
4. Imported lasers and optical devices, with good spot quality, stable output power, and low maintenance costs;
5. Professional cutting software, multi-level permission operation mode, easy to operate and easy to use.

**Application Range**

It is used for the processing of leather, electronic paper, PCB and composite materials, high-precision cutting of non-metallic film materials such as gdf film, polarizer, touch screen PET, OCA, tablet, flexible OLED, etc. and other material cutting.

**Technical Parameter**

No.	Item	Parameters
1	Laser Type	CO2 laser
2	Laser Power	60W
3	Cutting Range	500x500mm (Max. customizable)
4	Platform movement speed	1mm-2000mm (customizable)
5	Repeatability	less than or equal $\pm 0.015$ mm
6	Dimensional Size	1434mmx2000mmx1535mm
7	Total power	less than or equal to 3.5kw
8	Weight	600Kg
9	Electricity Demand	Host single box 220V50HZ

**Sample Display**





## FPC/Cover film laser cutting machine



### Model Profile

FPC/cover film laser cutting machine is a new type of equipment developed by Herolaser. It adopts a new process of ultraviolet laser processing and has the characteristics of higher cutting speed, finer edge chipping, and small heat affected zone. Using marble platform and high-precision transmission module, stable and reliable laser selection, with high-precision galvanometer control module and laser cutting control system specially developed by

Herolaser Laser, it is a collection of the latest precision machinery, CNC technology and other disciplines. High-tech products with stable structure, good rigidity, light weight, small footprint, good processing quality and high efficiency. It is a highly cost-effective laser cutting that combines efficiency, precision and stability. equipment.

#### Model Features

1. Using UV laser processing, the thermal impact of the product cutting is small.
2. Using galvanometer laser lens, it can be processed in any shape, cutting without residue, and the corners are smooth.
3. Adopt high-precision visual positioning system to achieve precise cutting.
4. Adopt marble platform and precise optical path design to ensure high shock resistance and high-quality laser transmission.
5. Adopt high negative pressure vacuum machine to adsorb products to ensure positioning stability.
6. Configure a smoke purification system to take away smoke and dust in time to avoid contamination of the ring mirror.
7. Single-station processing platform and double-station processing platform mode are available.

#### Product advantages

1. High-performance UV laser processing; real cold processing, with a series of advantages of laser cutting.
2. The machine adopts a solid marble structure with excellent seismic performance to ensure machine performance and overall processing accuracy. : Subvert the industry standard without carbonization on the bottom surface, the incision is neat and clean, and there is no burr.
3. High-speed cutting of any open size, cover film, PI reinforcing sheet, PP reinforcing sheet and other materials.
4. The non-contact cold working process is adopted, and the material is not deformed, which is suitable for high-precision material cutting.
5. The software automatically cuts, with the function of cutting multiple sheets at the same time.
6. Easy to learn software Control software of Windows system, Chinese interface, easy to operate.
7. Preview function before processing to avoid cutting scrap sheets.

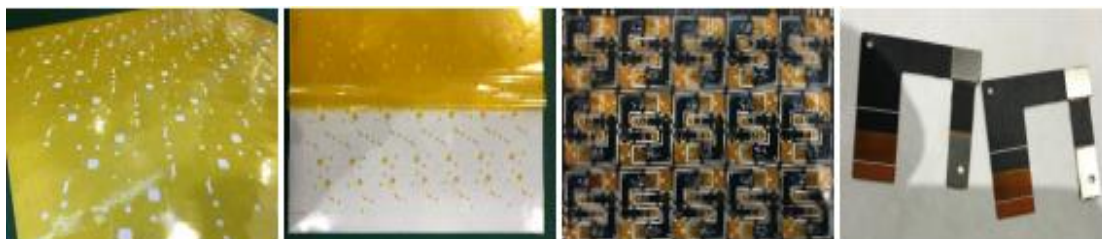
#### Application Range

It is used for the cutting process of PCB circuit boards, FPC and rigid-flex boards, cover films, glass covers, fingerprint identification modules, camera modules and other products.

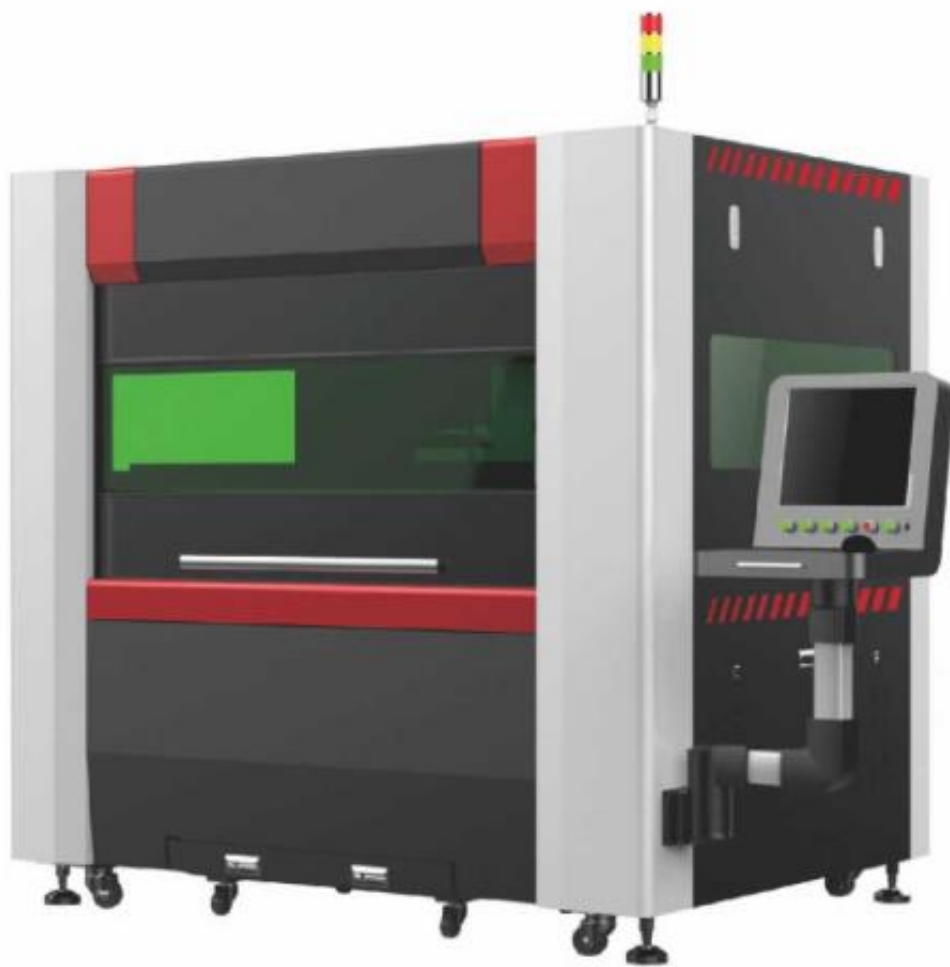
#### Technical Parameter

	Item	Parameters
	Model	ML-CU-DZ-00-HW10
	Processing size	400*400mm(Max. customizable)
	Machining table	Vacuum adsorption
Laser Galvo system	Type	Nanosecond UV
	Laser wavelength	355nm
	Laser power	10W/15W/20W/30W (optional)
	Focus spot	Less than or equal to 35um
	Single scan size	40mm*40mm
	Galvo scanning speed	10mm/s-5000mm/s (adjustable)
Camera Parameter	Number of cameras	1PCS
	Camera pixel	5000000
	Camera positioning accuracy	±5um
	Software support system	Win7(32-bit)
Software System	Software calibration function	Vision automatic correction
	Software permissions	Administrator/Operator
	Supported file formats	Dxf/gerber
	Overall size (length X width X height)	1684*1412*1872mm
Device Body	Total power	Less than or equal to 3KW
	Total Weight	3000Kg
Equipment Installation Condition	Microseismic requirements	Foundation amplitude < 5um
	Ground bearing	500Kg/m
	Compressed air	&0.4 Mpa
	Dust removal system	Automatic soot purification system

### Sample Display



## Picosecond Cutting Machine



### Model Profile

Picosecond laser cutting machine is suitable for ultra-thin metal materials (copper, gold, silver, aluminum, titanium, nickel, stainless steel, molybdenum, etc.), flexible materials (PET, PI, PP, PVC, Teflon, electromagnetic film, plastic film, etc.), graphene, carbon fiber, silicon wafer, ceramics, FPC and other materials cutting, drilling, surface microstructure (bionic structure), scribing, grooving, and micromachining of polymer materials and composite materials. The equipment is widely used and has a wide range of applicability. It can realize micro-processing on the surface of various types of materials, and can customize the control depth and width, and realize the functions of surface stripping, etching, scribing, grooving, punching, and cutting of materials.

### Model Features

1. Excellent beam quality, long-term operating stability, and negligible thermal effects.
2. Self-developed software control system, which can customize and upgrade various functions according to customer requirements.
3. CCD visual pre-scanning & automatic target grabbing and positioning processing, automatic processing of imported drawings, easy and fast operation.
4. Higher single-pulse energy, higher machining accuracy, can achieve fine machining of almost any solid material.
5. Using picosecond UV laser, ultra-short pulse UV cold laser processing has almost no heat conduction, suitable for high-speed cutting, etching, grooving, drilling of any organic & inorganic materials, with a minimum 3pm edge chipping and heat affected zone.

### Product advantages

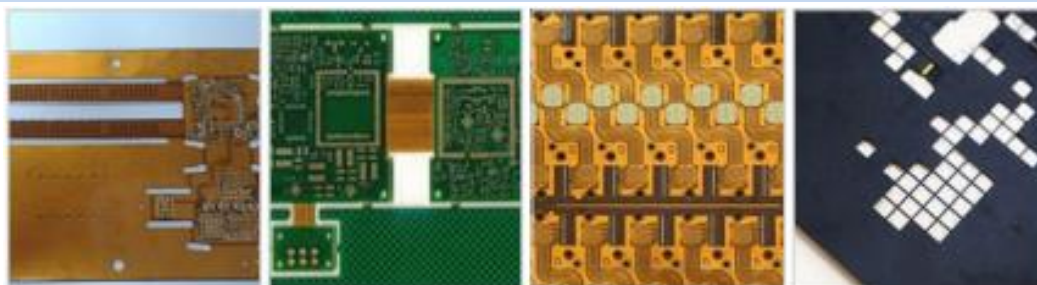
1. CCD visual pre-scan & automatic target positioning, XY platform accuracy  $\leq \pm 3\mu\text{m}$ ;
2. Precision mechanical structure, imported optical devices, can achieve high stability and high precision processing;
3. The machine adopts a solid marble structure with excellent seismic performance to ensure machine performance and overall processing accuracy;
4. Support a variety of visual positioning features, such as cross, solid circle, hollow circle, L-shaped right-angle edge, image feature points, etc.;
5. Using picosecond laser, ultra-short pulse processing has almost no heat conduction, suitable for high-speed cutting of any organic/inorganic materials;

### Application Range

Various types of ultra-thin metals, non-metallic films, graphene, carbon fiber, silicon wafers, ceramics, FPC, PI, PET, PVC, Teflon and other materials, as well as some polymer materials, micro-processing of materials.

Technical Parameter		
No.	Item	Parameters
1	Laser type	355nm Picosecond UV Laser
2	Cutting Range	400*600mm (can be customized to optional)
3	Focus spot	5µm (depending on material)
4	Minimum tangent width	<10µm (depending on material)
5	Thickness Range	w1.5mm(depending on material)
6	Table positioning accuracy	±3µm
7	Table repeatability	±1µm
8	File format	Gerber, DXF, PLT
9	Processing range	40*40mm/15*15mm (can be customized to optional)
10	Cooling system	Water cooling
11	Total power	less than or equal to 3KW

### Sample Display



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THANKS!

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