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HORIZON LASER

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SERVICE AND COMMITMENT

Company profile

Horizon Laser Technology Co., Ltd is a new high-tech enterprise integrating technical services, technology promotion, laser equipment modular design, sales and integration services. Horizon Laser has many senior technical experts (Covering machine tool design, optics, automation integration, laser process development) from well-known laser companies. Horizon laser is mainly committed to promoting laser processing technology, popularizing laser applications, and reducing the asymmetry of client information through modular sales and integration services of laser equipment, and strives to achieve an satisfaction for customers to buy and use.

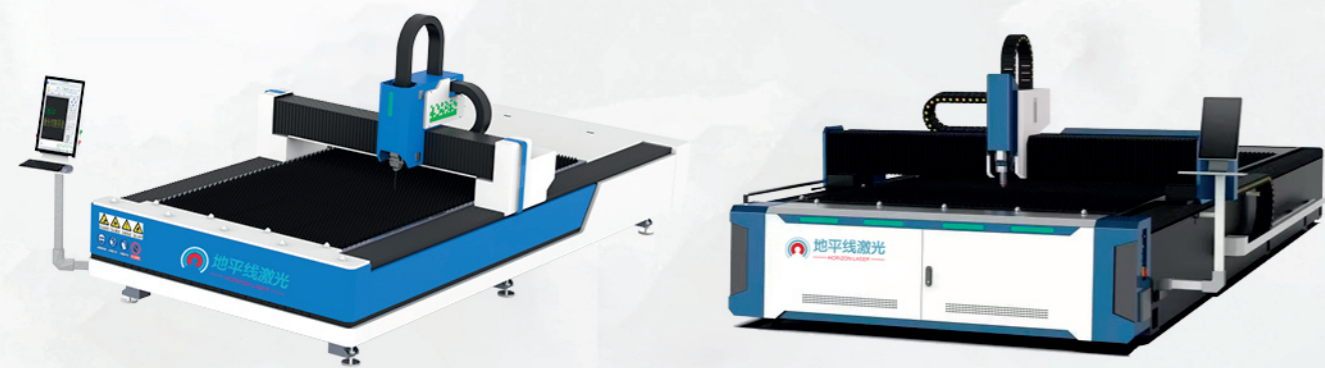
Company main business

laser cutting, laser welding, laser cleaning and other laser equipment design, cost-effective OEM integration, pre-sale, on-sale and after-sale technical services.

Business philosophy

Eliminate industry information barriers and sincerely serve customers;
Customized equipment integration to create new retail with ultra-high cost performance;
Fully transparent display of materials, conscientiously make new domestic products;
Senior experts provide one-to-one guidance, accurately match the needs, and don't spend any extra money.

SINGLE TABLE LASER CUTTING MACHINE 1000-6000W



Features

A single cutting platform, the overall equipment is compact.
The operation panel and the electric control are integrated into one design, independent of the cutting table, and the operation is more convenient.
A variety of cutting formats are available to meet the blanking requirements of different sizes of plates.

Medium power (3000-6000W)

Technical Parameters

Laser power	3000-6000W		
Model	DPX-D3015	DPX-D4020	DPX-D6020/6025
Cutting range	3000 × 1500mm	4000 × 2000mm	6000 × 2000mm/6000 × 2500mm
Cutting focus method	Auto focus		
Machine running accuracy	Acceleration: 1.2G		
	Maximum speed: 100m/min		
	Axial positioning accuracy of worktable: ± 0.05mm/m		
	Repeated positioning accuracy of worktable: ± 0.03mm/m		

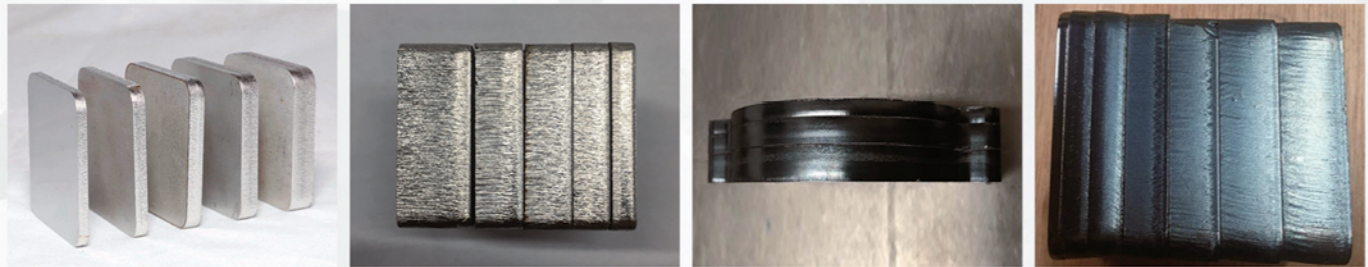
Cutting performance

Material	3000W cutting performance		4000W cutting performance		6000W cutting performance	
carbon steel	stable cutting	≤ 18mm	stable cutting	≤ 20mm	stable cutting	≤ 22mm
	Limit cut	25mm	Limit cut	25mm	Limit cut	30mm
Stainless steel	stable cutting	≤ 9mm	stable cutting	≤ 10mm	stable cutting	≤ 14mm
	Limit cut	12mm	Limit cut	14mm	Limit cut	20mm

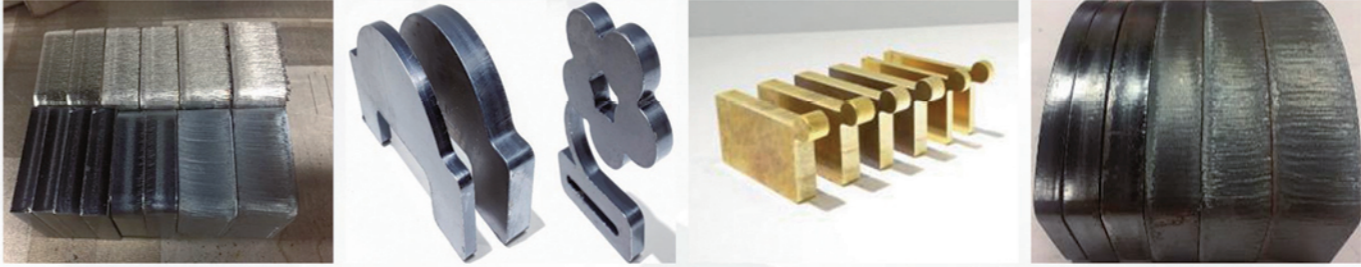
Technical Parameters

Laser power	1000-2000W		
Model	DPX-D3015	DPX-D4020	DPX-D6025
Cutting range	3000 × 1500mm	4000 × 2000mm	6000 × 2500mm
Cutting and focusing method	Manual / automatic focusing		
Machine running accuracy	Acceleration: 1.0G		
	Maximum speed: 80m/min		
	Axial positioning accuracy of worktable: ± 0.05mm/m		
	Repeated positioning accuracy of worktable: ± 0.03mm/m		

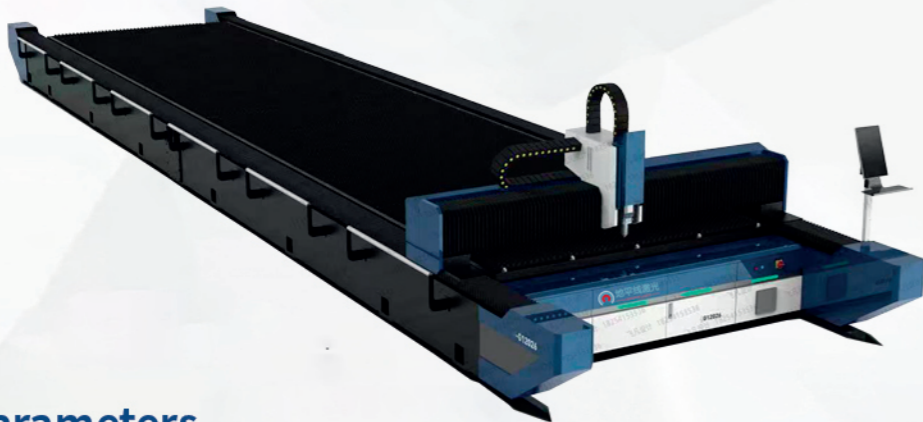
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LARGE SINGLE TABLE LASER CUTTING MACHINE 12000-30000W



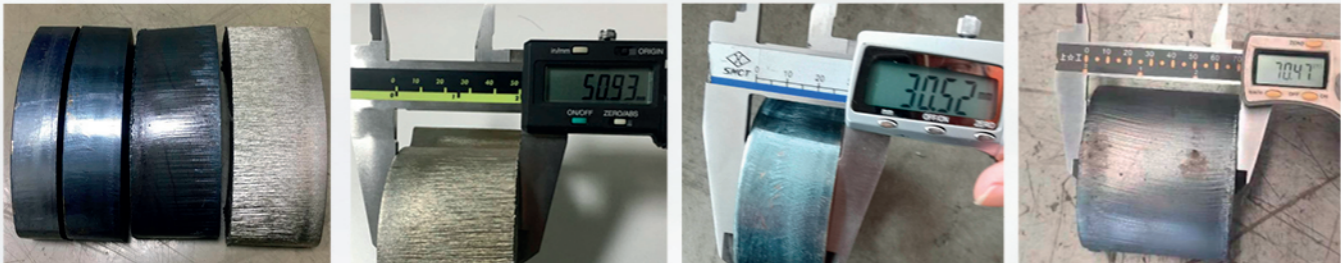
Technical Parameters

Laser power	12000-30000W		
Model	DPX-D8025	DPX-D10025	DPX-D12025
Cutting range	8000 × 2500mm	10000 × 2500mm	12000 × 2500mm
Cutting focus method	Auto focus		
Machine running accuracy	Acceleration: 2.5G		
	Maximum speed: 180m/min		
	Axial positioning accuracy of worktable: ± 0.05mm/m		
	Repeated positioning accuracy of worktable: ± 0.03mm/m		

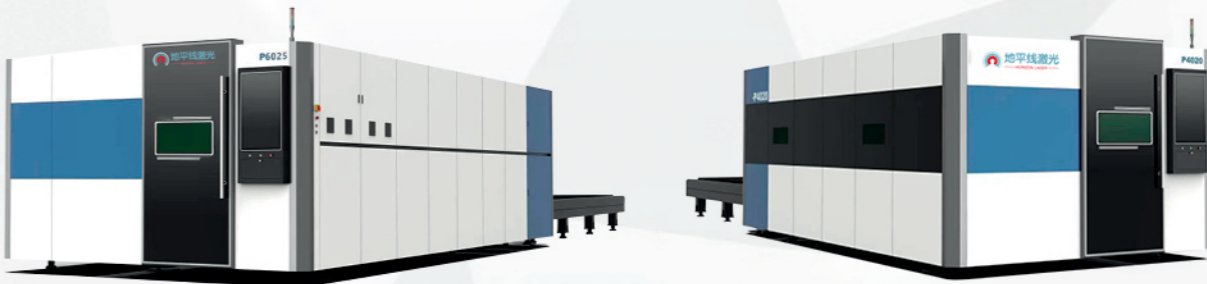
Cutting performance

material	12000W cutting performance		15000W cutting performance		20000W cutting performance		30000W cutting performance	
carbon steel	stable cutting	≤ 35mm	stable cutting	≤ 40mm	stable cutting	≤ 45mm	stable cutting	≤ 60mm
	Limit cut	50mm	Limit cut	60mm	Limit cut	70mm	Limit cut	80mm
Stainless steel	stable cutting	≤ 30mm	stable cutting	≤ 35mm	stable cutting	≤ 40mm	stable cutting	≤ 50mm
	Limit cut	50mm	Limit cut	70mm	Limit cut	80mm	Limit cut	100mm

Application effect



EXCHANGE TABLE LASER CUTTING MACHINE 1000-6000W



Features

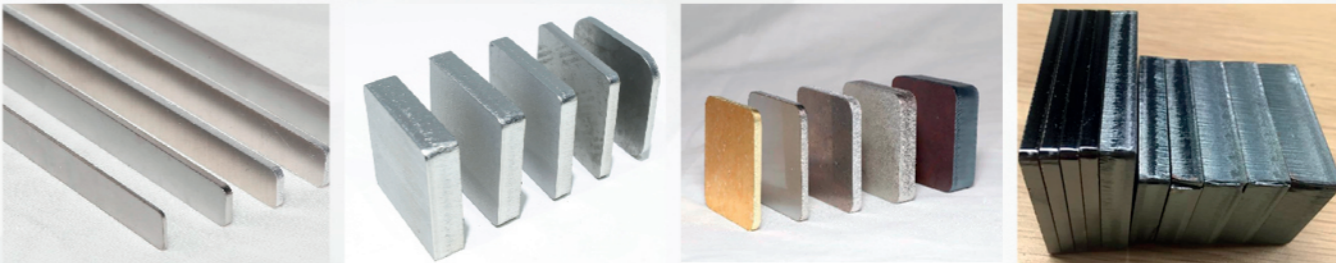
One-click platform exchange, saving time and energy.
Double table design, cutting and loading & unloading can be carried out at the same time, ensuring uninterrupted processing all day long.
Full-enclosed protection and segmented follow-up dust removal design create a clean and friendly processing environment.
The high-strength bed combined with high-precision dynamic performance is specially designed for high-speed batch cutting of medium and thin plates.

Low power (1000-2000W)

Technical Parameters

Laser power	1000-2000W		
Model	DPX-J3015	DPX-J4020	DPX-J6020/6025
Cutting range	3000 × 1500mm	4000 × 2000mm	6000 × 2000mm/6000 × 2500mm
Cutting focus method	Manual / automatic focusing		
Machine running accuracy	Acceleration: 1.0G		
	Maximum speed: 80m/min		
	Axial positioning accuracy of worktable: ± 0.05mm/m		
	Repeated positioning accuracy of worktable: ± 0.03mm/m		

Application effect



EXCHANGE TABLE LASER CUTTING MACHINE 1000-6000W

Medium power (3000-6000W)

Technical Parameters

Laser power	3000-6000W		
Model	DPX-J3015	DPX-J4020	DPX-J6020/6025
Cutting range	3000 × 1500mm	4000 × 2000mm	6000 × 2000mm/6000 × 2500mm
Cutting focus method	Auto focus		
Machine running accuracy	Acceleration: 1.2G		
	Maximum speed: 100m/min		
	Axial positioning accuracy of worktable: ± 0.05mm/m		
	Repeated positioning accuracy of worktable: ± 0.03mm/m		

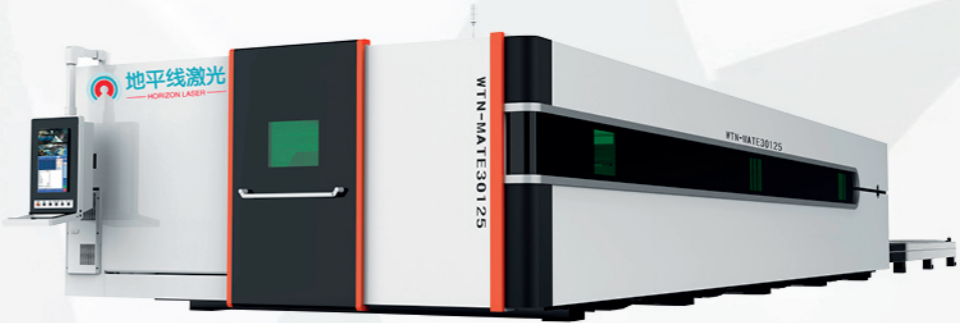
Cutting performance

material	3000W cutting performance		4000W cutting performance		6000W cutting performance	
carbon steel	stable cutting	≤ 18mm	stable cutting	≤ 20mm	stable cutting	≤ 22mm
	Limit cut	25mm	Limit cut	25mm	Limit cut	30mm
Stainless steel	stable cutting	≤ 9mm	stable cutting	≤ 10mm	stable cutting	≤ 14mm
	Limit cut	12mm	Limit cut	14mm	Limit cut	20mm

Application effect



LARGE EXCHANGE TABLE LASER CUTTING MACHINE 12000-30000W



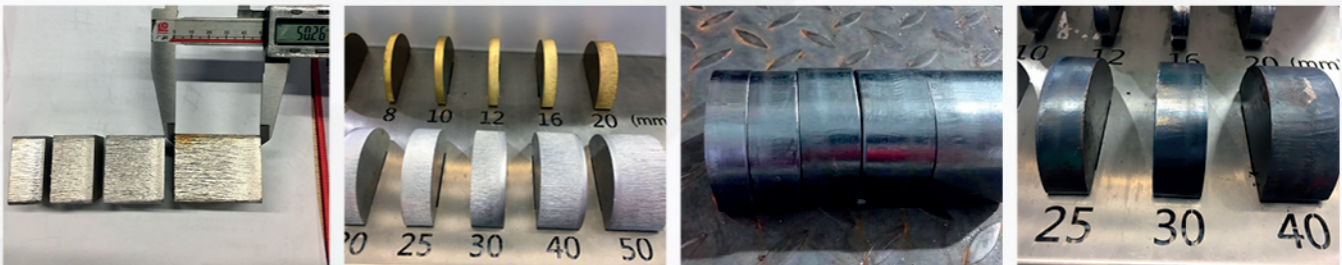
Technical Parameters

Laser power	12000-30000W		
Model	DPX-J8025	DPX-J10025	DPX-J12025
Cutting range	8000 × 2500mm	10000 × 2500mm	12000 × 2500mm
Cutting focus method	Auto focus		
Machine running accuracy	Acceleration: 2.5G		
	Maximum speed: 180m/min		
	Axial positioning accuracy of worktable: ± 0.05mm/m		
	Repeated positioning accuracy of worktable: ± 0.03mm/m		

Cutting performance

material	12000W cutting performance		15000W cutting performance		20000W cutting performance		30000W cutting performance	
carbon steel	stable cutting	≤ 35mm	stable cutting	≤ 40mm	stable cutting	≤ 45mm	stable cutting	≤ 60mm
	Limit cut	50mm	Limit cut	60mm	Limit cut	70mm	Limit cut	80mm
Stainless steel	stable cutting	≤ 30mm	stable cutting	≤ 35mm	stable cutting	≤ 40mm	stable cutting	≤ 50mm
	Limit cut	50mm	Limit cut	70mm	Limit cut	80mm	Limit cut	100mm

Application effect



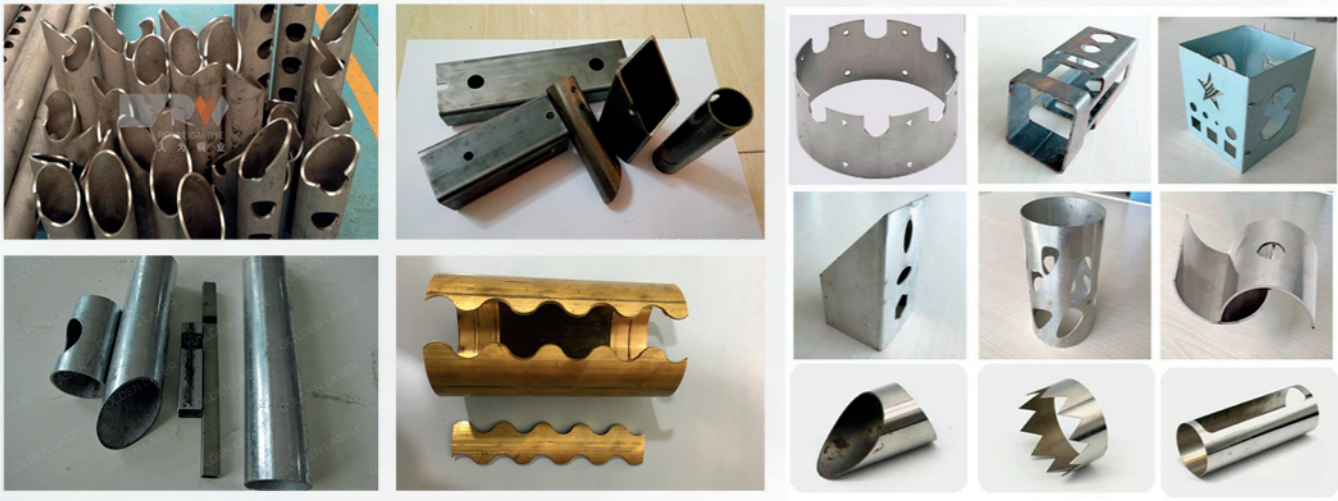
TUBE LASER CUTTING MACHINE



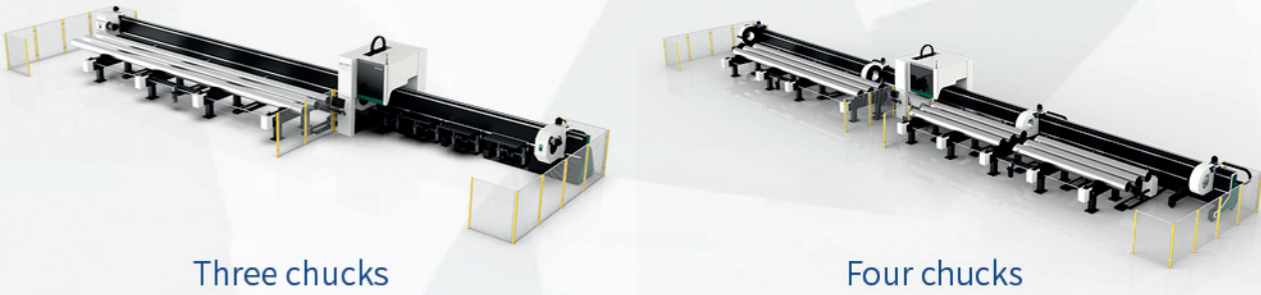
Technical Parameters

model	Chuck specifications	Adapted tube length	tube diameter	Applicable power	Floating material function
DPX-G6010	≤ 100mm	6m	Φ 20-100mm	≤ 6KW	optional
DPX-G6016	≤ 160mm	6m	Φ 20-160mm	≤ 6KW	optional
DPX-G6022	≤ 220mm	6m	Φ 20-220mm	≤ 6KW	optional
DPX-G6035	≤ 350mm	6m	Φ20-350mm	≤ 6KW	optional
Cutting focus adjusting method	Manual / Auto Focus				

Application effect



HEAVY-DUTY TUBE LASER CUTTING MACHINE



Features

- 1.Heavy-duty pneumatic chucks for stable clamping
- 2.Maximum clamping diameter: 500mm (Round Tube)
- 3.Single tube bearing: 3000Kg
- 4Automatic Loading and Unloading System
- 5.Four chucks can cut tubes with short tailings and improve material utilization by reverse cutting mode

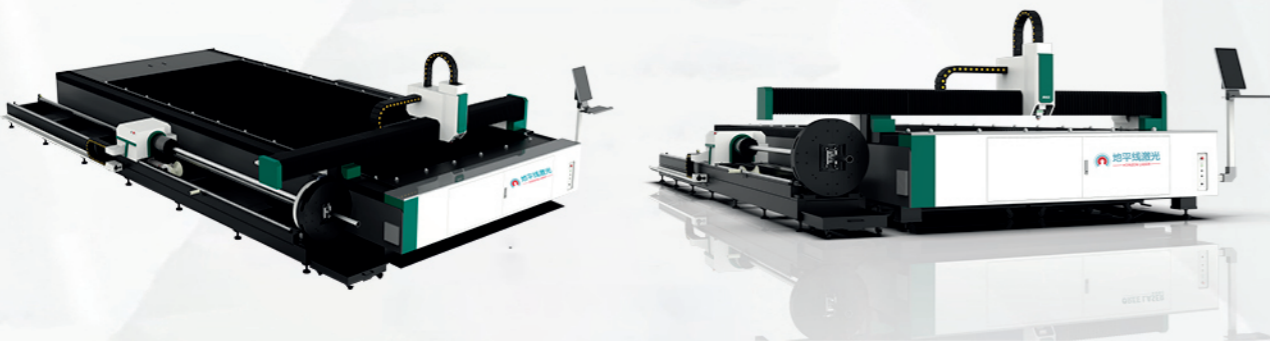
Technical Parameters

Model	DPX-HG500
Power	3000w-12000w
Effective cutting diameter of round tub	φ20-φ500mm
Effective cutting diameter of square tube	□ 20- □ 350mm
Positioning accuracy	±0.05mm
Maximum cutting length	12500mm
Maximum chuck speed	50r/min

Application effect



SHEET & TUBE LASER CUTTING MACHINES



Features

- 1.One machine with two uses and Cost-saving
- 2.Sheet & tube laser cutting machine can not only cut metal plates,but also metal pipes. It has many uses and can save the space of more than 50%,which effectively improve productivity
- 3.The two-way pneumatic chuck tube automatically locates the center, extends the transmission structure to improve stable operation, and increases the jaws to save materials

Technical Parameters

Model	DPX-ST3015	DPX-ST4020	DPX-ST6020
Power	1000-6000w		
Cutting tube Size range	$\phi 10\text{-}\phi 225\text{mm}$, $\square 20\text{-}\square 225\text{mm}$		
Cutting sheet size range	3000×1500mm	4000×2000mm	6000×2000mm
Accuracy Of Positioning	$\pm 0.03\text{mm}$		
Repeat Repositioning Accuracy	$\pm 0.02\text{mm}$		
Maximum speed	Tube:100r/min,Sheet:80m/min		

Application effect



PRECISION LASER CUTTING MACHINE



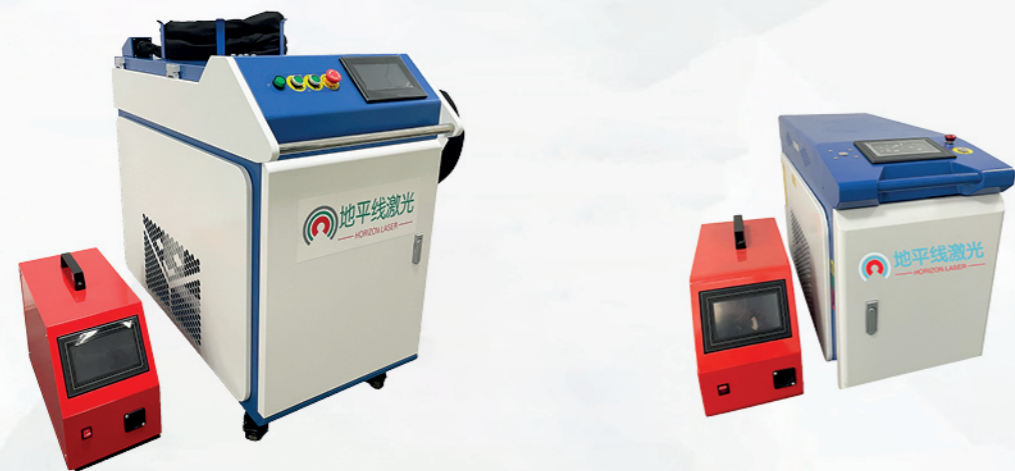
Technical Parameters

Model	DPX-X2030	DPX-X4050	DPX-X6050	DPX-X6580
Cutting range	200 × 300mm	400 × 500mm	600 × 500mm	650 × 800mm
Laser source	Continuous fiber laser (power 500-2000W), QCW fiber laser			
Application field	Gold and silver jewelry	Glasses, hardware	Watches, PCD , brittle materials	Aluminum substrate, copper substrate
drive mode	Linear motor (single / dual drive optional)			
Cut repeatability	$\leq \pm 0.01\text{mm/m}$			
running speed	$\geq 50\text{m/min}$			
Recommended cutting thickness	0.5-10mm			

Application effect



HAND-HELD LASER WELDING MACHINE



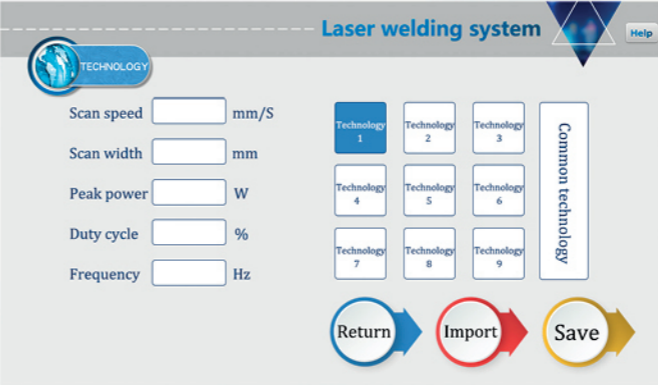
Technical Parameters

Model	DPX-W1000	DPX-W1500	DPX-W2000	DPX-W3000
Laser Source Type	CW fiber laser source (Wavelength: 1080±3nm)			
Output Power	1000W	1500W	2000W	3000W
Power Adjustment Range	10% ~ 100%			
Welding Mode	Continuous Welding, Spot Welding			
Adjustable Weld Width	0.2 ~ 5 mm			
Torch Cable Length	About 10m			
Torch Weight	< 1.2 kg			
Dimensions (L*D*H)	1000*550*700mm		1200*600*1300mm	
Net Weight	110kg		250kg	
Power Consumption	<5kw	<7kw	<9.5kw	<13kw
Operating Voltage	Single-phase 220VAC/ Three-phase 380VAC			
Working Environment	Temperature: 0 ~ 40℃、Humidity<70%			
Safety Light Emission System	1. Safely earth lock: the welding head can control the light emission only when the welding head touches the work-piece. 2. Gas detection: The alarm red light will indicate when the gas cylinder is not opened or the gas flow is low. 3. Welding gun firing button and laser shutter, double insurance to emit light.			

Welding Performance

Recommended Welding Thickness for Different Materials				
Model	DPX-W1000	DPX-W1500	DPX-W2000	DPX-W3000
Stainless Steel	≤ 3.0mm	≤ 4.0mm	≤ 6.0mm	≤ 8.0mm
Mild Steel	≤ 3.0mm	≤ 4.0mm	≤ 6.0mm	≤ 8.0mm
Galvanized Sheet	≤ 2.0mm	≤ 3.0mm	≤ 5.0mm	≤ 6.0mm
Aluminum Alloy	≤ 2.0mm	≤ 3.0mm	≤ 4.0mm	≤ 5.0mm
Brass	≤ 2.0mm	≤ 3.0mm	≤ 4.0mm	≤ 5.0mm
Note: The above is the maximum processing capacity of each model.				

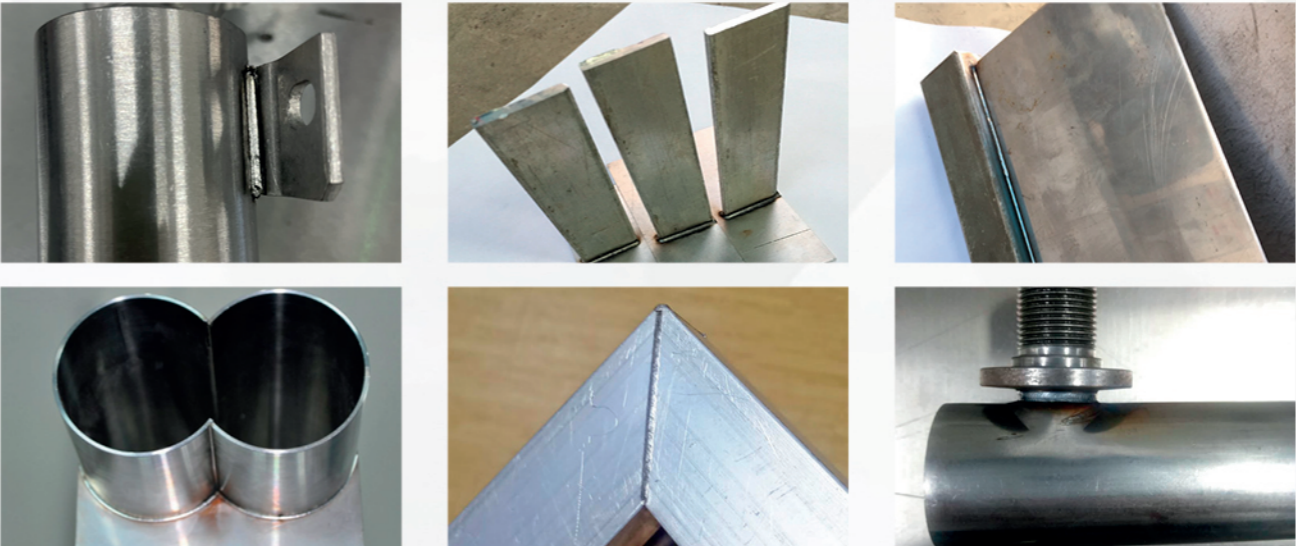
Operation Panel



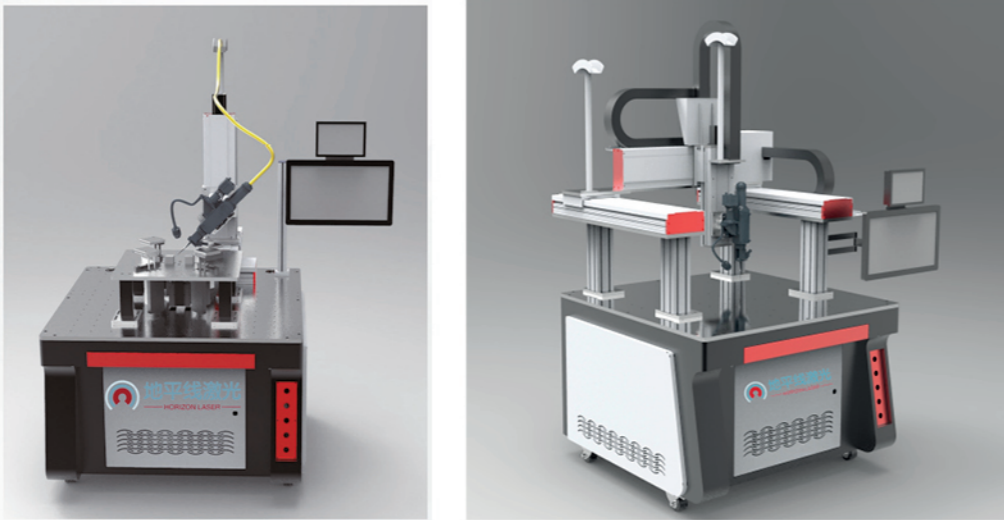
Features

Hand-held laser welding is 4 times faster than argon arc welding;
One-time welding forming, smooth welding bead, no need for grinding;
Basically no consumables, standardized use, the protective lens can be used for several weeks;
You can get started in 4 hours and become skilled as an professional welder in one day;
Comes with air pressure detection alarm to avoid damage to the welding torch;

Application effect



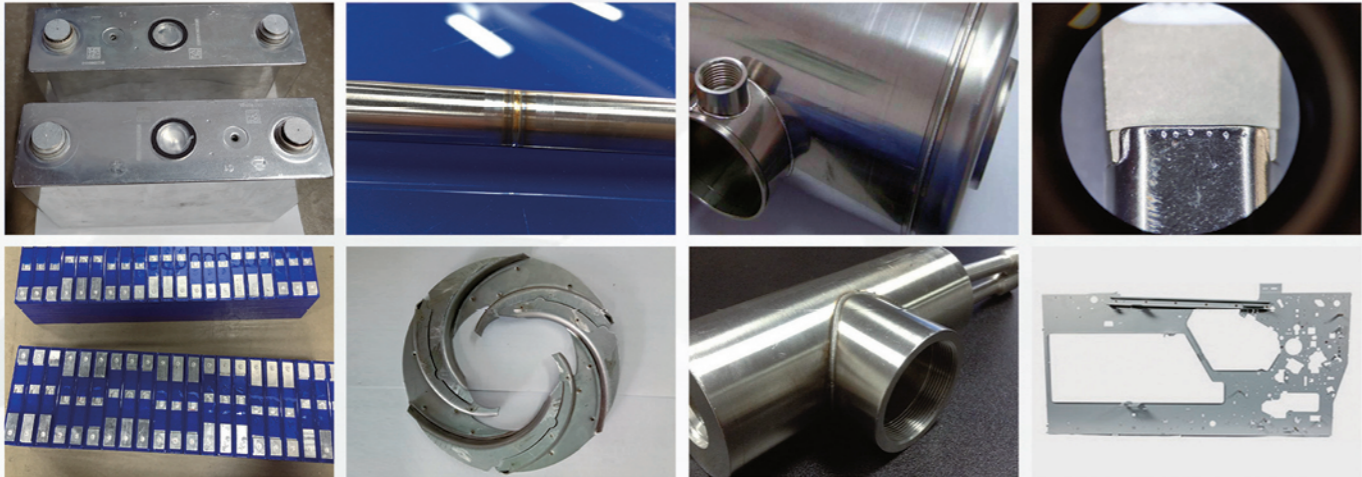
MULTI-AXIS LASER WELDING MACHINE



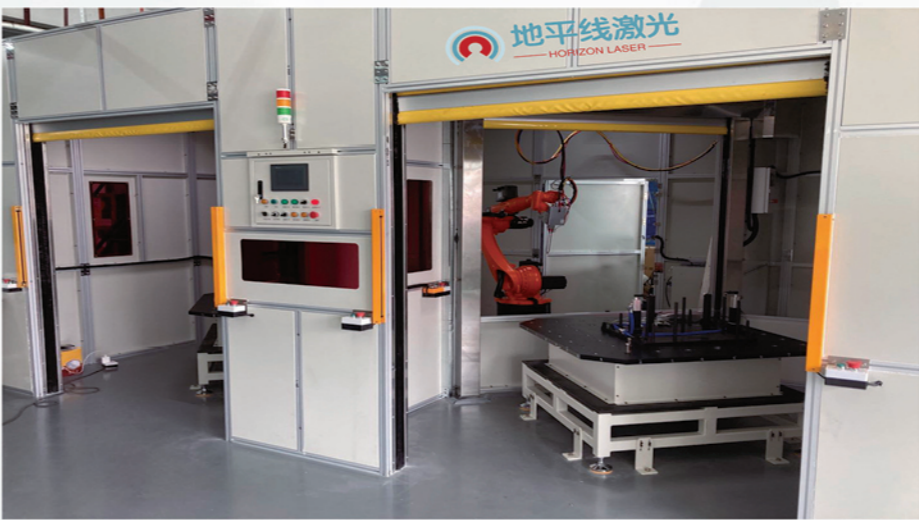
Technical Parameters

Laser	CW fiber laser, QCW laser
Laser power	1000-6000W
Motion axis	4- axis (3- axis, 5- axis, 6- axis optional), rotation axis
Welding head	Conventional welding head, swing welding head (weld seam 0.2 ~ 5 mm)
Welding mode	Continuous welding (sealed welding, stitch welding, tailor welding, fillet welding), spot welding
Processing range	Length, width and height: 200-900mm (larger size can be customized)
Drive method	Servo motor (linear motor optional)
Repeatability	± 0.03mm
Other optional configuration	Double station, CCD positioning, conveyor belt loading and unloading machine, wire feeding mechanism

Apply effects



3D ROBOT LASER WELDING MACHINE

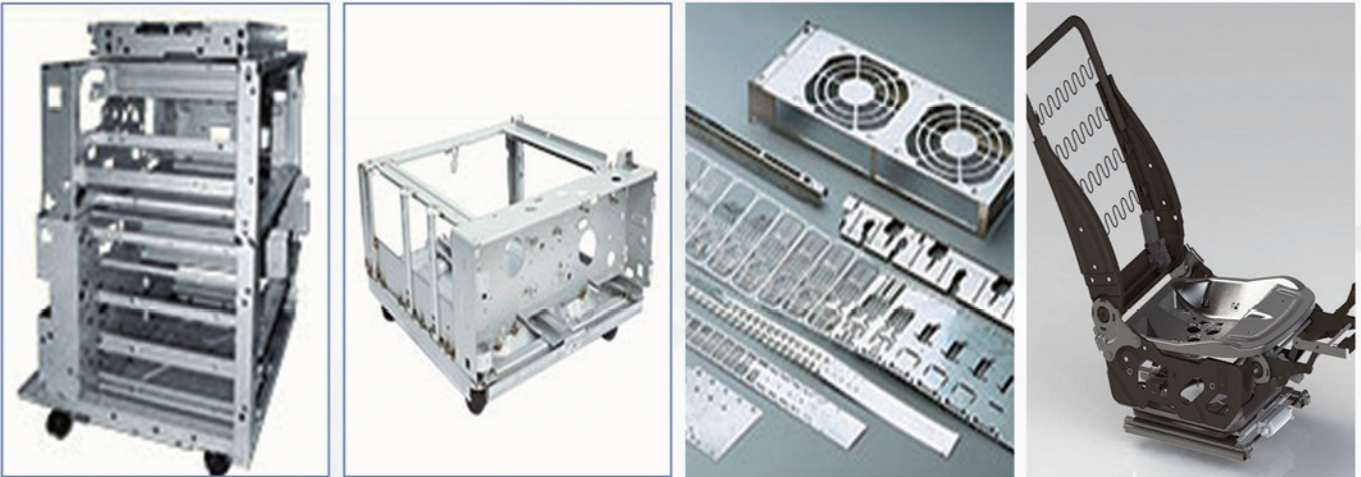


3D robot laser welding machine through the laser control module and the manipulator motion mechanism, match each other and work together. It has a high degree of flexibility and can meet the welding needs of any complex work piece. It is widely used in the automotive industry and electrical cabinet industry.

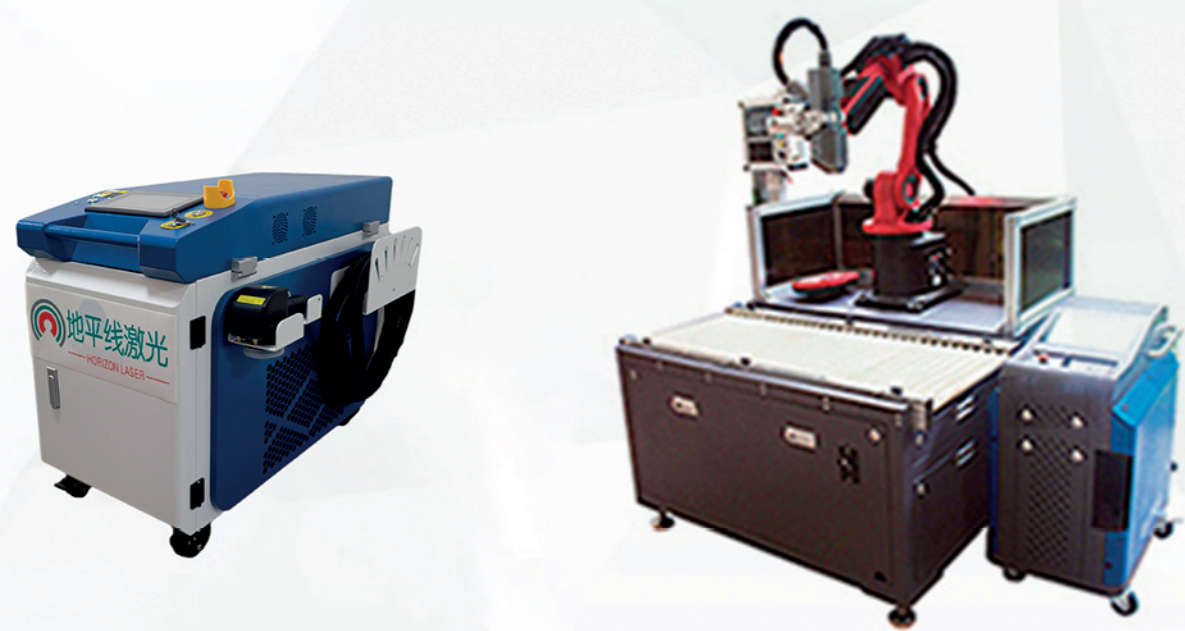
Technical Parameters

Laser	Continuous Fiber Laser
Laser power	1000-6000W
manipulator	6 axis (multi-brand optional)
Welding head	Conventional welding head, galvanometer type swing welding head (weld seam 0.2 ~ 5 mm)
Process waveform	64 groups (IO port call)
Waveform function	Laser power, pulse width, start and end arc control, swing length, swing type, wire feed
Load-bearing load	8-20kg (specification optional)
Processing radius	500-2000mm (Specifications are optional)
Targeting	Red light indication + CCD vision

Application Area



CABINET LASER CLEANING MACHINE



The non-contact laser cleaning machine R&D by Horizon Laser is the new high-tech product. It does not hurt the base material, no consumables, energy saving and environmental protection. The resin, oil, stains, dirt, rust, coating, plating, paint on the work piece surface can be removed with high efficiency. This meets the requirements of complex modeling and precision production cleaning in the industrial processing field, achieves a higher level cleaning effect and lower production cost.

The machine mainly used for automotive industry, machining, electronic processing, cultural relics, mold industry, shipbuilding, food processing, petrochemical and other industries.

Cabinet laser cleaning machine has high laser power and fast cleaning speed, suitable for cleaning stubborn rust layer, paint and corrosion layer. The machine is movable and can be hand-held for cleaning operations, suitable for cleaning irregular products. It can also be matched with a manipulator or a multi-axis mobile platform to achieve batch cleaning of batch products.

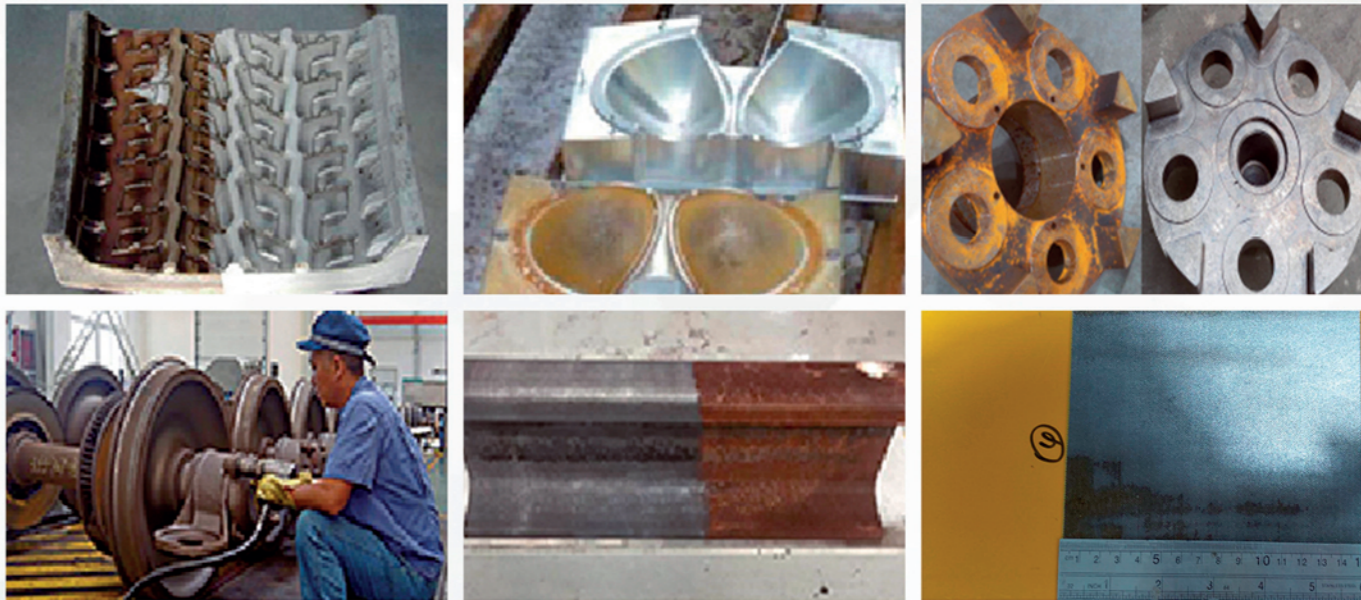
Features

The cleaning head can be hand-held and fixed to meet diverse cleaning needs. Double pendulum motor cleaning head, efficient cleaning, no cleaning marks. Flexible and adjustable cleaning length and width, suitable for cleaning products of different sizes.

Technical Parameters

Model	DPX-QP500	DPX-QP300	DPX-QP200	DPX-QP100
Laser source	Pulse 500W	Pulse 300W	Pulse 200W	Pulse 100W
Fiber length	7m (customizable)	5m (customizable)	5m (customizable)	5m (customizable)
Pulse energy	50mJ	13mJ	5 mJ , 1.8 mJ	1.5mJ
cooling method	water cooling	water cooling	air cooling	air cooling
Dimensions	1140*896*1280mm	1140*896*1280mm	647*440*859mm	647*440*859mm
Weight	250kg	200kg	75kg	70kg
Power consumption	< 5kw	< 4kw	< 1.2kw	< 0.8kw
Application industry	Mould industry (tire), rail transit (rail and wheel pair), construction machinery parts			

Technical Parameters



PORTABLE LASER CLEANING MACHINE



Features

Air-cooled, lighter and more portable.
Cylinder structure and pulleys at the bottom make the equipment more convenient to move (back-pack type is optional).
The cleaning head is lighter and suitable for long-term hand-held operation.

Technical Parameters

Model	DPX-QP100	DPX-QP50	DPX-QP30
Laser source	Pulse 100W	Pulse 50W	Pulse 30W
Fiber length	5m (customizable)	5m (customizable)	5m (customizable)
Pulse energy	1.8mJ	1.5mJ	1.5mJ
Cooling method	air cooling	air cooling	air cooling
Dimensions	462*260*855mm	462*260*855mm	462*260*855mm
Weight	40kg	32kg	30kg
Power consumption	< 550w	< 400w	< 300w
Supply voltage	AC 220V		
Application industry	Ancient cultural relic restoration, power grid base station, large equipment parts, welding production line		

Application effect



LASER MARKING MACHINE



Laser marking machines use laser beams to mark permanent patterns, trademarks and characters on the surface of various materials. Laser marking machines are mainly divided into fiber laser marking machines, UV/green laser marking machines, and CO2 laser marking machines etc. Widely used in the industry of electronic components, electrical appliances, mobile communications, hardware products, tool accessories, precision equipment, jewelry, auto parts, plastic buttons, building materials, PVC pipes.
Horizon Laser mainly produce 20W/30W/50W/100W desktop, portable, mini and hand-held fiber laser marking machines.

Features

- 1. It can be used to process a variety of metals, non-metallic (effect depending on lasertype) material, especially for high hardness, high melting point, brittle materials, more obvious advantages.
- 2. It is a non contact processing, does not damage the product, no tool wear, with high marking quality.
- 3. Laser beam is very small, and the material consumption is very small, and the processing thermal influence area is small.
- 4. The processing efficiency is high, the use of computer control, easy to realize automation.

LASER MARKING MACHINE

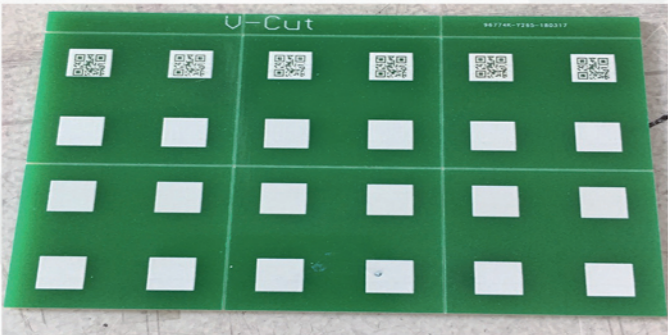
Advantages

- All kinds of metal materials and some non-metallic materials marking
- Air cooling system, no maintenance
- Free to change the marking parameters and graphics
- Stable working performance, life time can reach 100,000 hours
- Marks are anti-falsification, more fine and unique

Marking machine Technical parameters

power	20w/30w/50w
laser wavelength	1064nm
optional marking area	110*110mm/150*150mm/200*200mm
marking speed	8000mm/second
minimum line width	0.012mm
minimum character	1.5mm
repeated precision	0.003mm
life-span of fiber laser module	100.000 Hours.
beam quality	m2<1.5
focus spot diameter	<0.001mm
output power of laser	10%-100%continuously to be adjusted

Application effect



SERVICE AND COMMITMENT

The company provides customers with accurate, effective and fast services.

Pre-sale:

The company's sales and technical service personnel participate in the customer proofing, model selection, and process testing processes, and provide comprehensive technical advice and support for customers to determine purchases;

On-sale:

The company will assist customers in completing the selection and integration of the sub-modules of the whole machine, as well as the debugging and process. Also can provide training for customer's technical staff; on product knowledge, application schemes, common problems and troubleshooting.

After-sale:

1. 7*24 hour
 2. Response time<12 hours
 3. Online support
 4. Product replacement
 5. Customer field service
 6. Backup products during repairing for long time cooperators
- * International warranty ONLY valid if products are purchased directly from Horizon Laser or authorized local distributors/agents.