

LQ-UV LASER PRINTER

TECHNICAL DATA SHEET

Our high-speed laser printing system, using integrated, modular design, standardized manufacturing, set miniaturization, high flexibility, high speed, user-friendly operation in one, greatly enhance the comprehensive ability of products.



Movable flying inkjet printer, novel appearance, unique structure, convenient operation interface, high modulation frequency, fast coding speed, high precision, stable performance, powerful functionality, independent research and development, can be customised according to customer needs, modification, increase, decrease the function and so on.

This figure is for reference only. The actual equipment is delivered.

Technological advantages

With the development of laser inkjet technology, more and more manufacturers are using laser inkjet on their products. Uv laser inkjet machine with its unique low-power laser beam, suitable for the highend market of ultra-fine processing, cosmetics, drugs, food and other polymer materials packaging bottle surface marking, fine effect, clear and firm marking, better than ink inkjet and pollution-free;



Industry-leading data protection technology ensures that data is not lost during emergency power outages or unplanned shutdowns, helping operators operate quickly.



Communication function

Data communication via USB int erface and code sending software

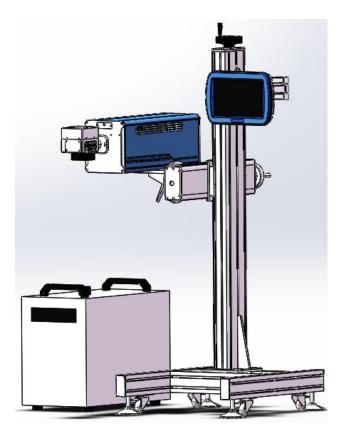


LCD glass two-dimensional code, glass surface punching, metal surface coating marking, plastic keys, electronic components , gifts, communication equipment, building materials, etc

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Red light location

With a red light positioning assist system, this feature can help the operator quickly find the inkjet position when changing the inkjet product.



This figure is for reference only and depends on the actual delivered devices

INNO LASER



INNO LASER technology advantages and market position

INNO LASER is one of the few industrial laser manufacturers in the world with the core technology and production capacity of nanosecond, subnanosecond, picosecond and femtosecond micromachining lasers.

The company's laser products cover different bands from infrared to deep ultraviolet, and a variety of pulse widths from nanoseconds to femtoseconds, which are recognized by the global market and have international competitiveness.

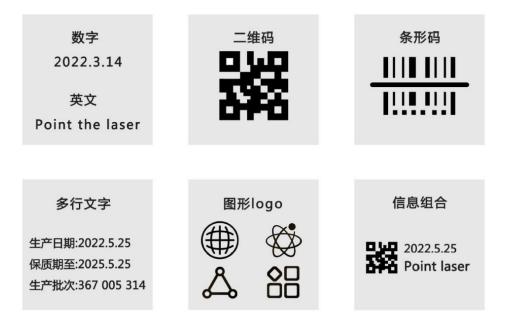
Ultraviolet laser is one of the core components of lithography machine, especially in EUV (extreme ultraviolet light) lithography machine, the role of ultraviolet laser is very important.

The importance of ultraviolet laser in lithography machine

• The role of the light source: the ultraviolet laser as the light source of the lithography machine, emits a specific wavelength of ultraviolet light, and forms a high-energy spot after the optical system is focused to achieve the transfer of the circuit pattern. The choice and design of the light source have an important influence on the resolution and machining accuracy of the lithography machine.

• Role in EUV lithography: In EUV lithography, the ultraviolet laser is the key to producing extreme ultraviolet light, which is essential for the production of chips with processes of 5nm and below. The power and stability of EUV light source directly affect the production efficiency and chip quality of the lithography machine. Uv laser is not only the core component of the lithography machine, but also plays a crucial role in the EUV lithography machine.

Types of characters that can be output:



Technical specifications

Applicable Industry	Electronic products, wire and cable and pipe, food and beverage, daily chemical			
muustry	supplies, pharmaceutical and other industries			
	Laser output	3/5/10/15/20W		
	power			
	Material of	Alumina and sheet metal construction		
	complete			
	machine			
Laser	Laser	Ultraviolet laser generator		
machine	Laser	355nm		
complete	wavelength			
characterist	Control	Industrial grade highly integrated integrated motherboard		
ics	motherboard			
100	Operating	10 inch touch screen		
	platform			
	Cooling system	Water cooling (working temperature 25°C)		
	port	SD card interface /USB2.0 interface/communication interface		
	Data protection	Ensure that user data is not lost in case of unexpected power		
		failure		
	Lens rotation	The scanning head can be rotated 360 degrees at any Angle		
	Power	AC220V,50-60Hz		
	requirements			
	Overall power	1200w		
	Machine weight	90kg		
	Pollution level	The marking itself does not produce any chemicals		
	Storage ambient	-10°C-45°C (without freezing)		
Environme ntal	temperature			
	Operating			
resistance	ambient			
	temperature			

	Storage humidity Working ambient humidity	10%-85% (no condensation)	
	Marking range	Standard 110*110mm	
	Marking line type	Lattice, vector	
Parameter of Lens	Minimum line width	The 0.01 mm	
of Lens	Repeated positioning accuracy	The 0.01 mm	
	Positioning mode	Red light location	
	Focusing mode	Double red focus	
	Number of marking character lines	Edit at will within the marking range	
	Line speed	0-280m/min (depending on product material and marking content)	
	Support font types	Single line font, Double line font, and dot matrix font	
	Graphics file format	PLT format vector file input/output	
Character	File format	BMP/DXF/JPEG/PLT	
type	Graphic element	Point, line, arc text, rectangle, circle	
* 1	Variable text	Serial number, time, date, counter, shift	
	Bar code	Code39、Code93、Code128、EAN-13 etc	
	Two- dimensional code	QRCode、Data Matrix etc	

Configuration parameter

Name	Specification	remark
Ultraviolet laser	3/5/10/15/20W	Eno
Scanning galvanometer	High speed digital galvanometer	Kim Hae-chuang
Marking system	10 inch touch screen	Third party
Cooling system	Custom	Guangzhou
Focusing field mirror	F=160mm	Shenzhen
Three-dimensional flight rack	Custom	Third party
Switch unit	Integrated third party	Schneider
Red light location	Custom	Third party

UV laser marking machine

Applicable materials

Glass: The surface and interior carving of glass and crystal products.

Widely used for surface engraving of metals, plastics, wood, leather, acrylic, nanomaterials, fabrics, ceramics, purple sand and coated films. (Actual testing is required due to different ingredients)

Industry: Mobile phone screens, LCD screens, optical components, hardware, glasses and watches, gifts, PC, precision electronics, instruments, PCB boards and control panels, inscription display boards, etc. Adapt to surface treatment such as marking, engraving, etc, for high flame retardant materials



Plastic



Wood products



Leather



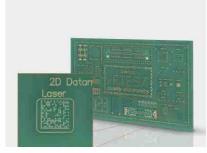
Fabric



Ceramic



Spectacle frame



Electronic component



Glass



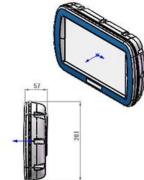
Mobile phone lettering

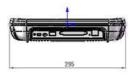
Parts list:

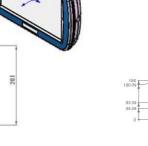
Name	Specification	Remark
Laser machine equipment	A SET	
Test report	A PCS	
Power cord	A PCS	Spare parts
Cistern	A SET	
Specification	A PCS	
Certificate of conformity	A PCS	

Apparent dimension :

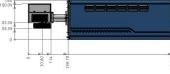






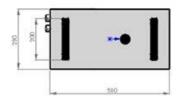


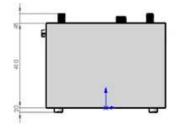


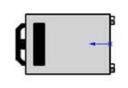


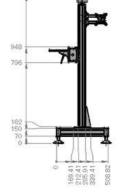




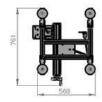








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High-speed laser coding equipment is the fourth generation of high-speed laser printing system of our company, adopting integrated and modular design, standardised manufacturing, integrating miniaturisation, high flexibility, high speed, operation and use of user-friendly in one, which greatly enhances the comprehensive ability of the product.

Ultraviolet laser inkjet printer with its unique low-power laser beam-based, especially adapted to ultra-fine processing of the high-end market, cosmetics, pharmaceuticals, food and other polymer materials, packaging bottles surface coding, the effect of fine, clear and firm marking, better than inkjet coding and non-polluting; flexible PCB board marking, scribing; silicon wafer microporous, blind hole processing; LCD LCD LCD glass two-dimensional code marking, glass appliances, surface perforation, metal surface platingPerforation, metal surface plating marking, plastic keys, electronic components, gifts, communication equipment, construction materials and so on.

The laser machine adopts anti-error marking control, the laser control equipment sends the data to the laser machine at the same time will also be sent to the remote control computer, the remote control computer will compare the data with the data stored in its own database. If any inconsistency is found, it means that there is an error in the coded text, the main controller will immediately switch off the laser marking software and an error warning will appear on the control screen.