

## YS-UV-5W MARKING MACHINE



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### The Configuration of the Equipment:

Code	Parts	Spec	Quantity	Remark
1	Laser source	Advanced JPT laser source	1set	
2	Scanner	High speed Digital scanner	1set	
3	Lens	150*150mm	1set	
4	Software	JCZ Beijing	1set	
5	Up and down Travel	500mm height	1set	
6	Foot pedal		1pc	
7	Working table	Aluminum table	1set	
8	Marking card	ORIGINAL JCZ Beijing	1set	
9	Water chiller	S&A brand UV water chiller	1sets	

# Main features

## 5w UV Laser Marking Machine and Laser Engraving Machine for Plastic Glass main advantages

1. Because the focusing spot of UV laser is very small, and the heat-affected area of processing is small too, so it can do the ultra fine marking and special material marking, and it is for the customers who have higher request on the marking effect.

2. Flexible and convenient operating system: the humanized operation process, equipment operation stability is very good; Special control software can be compatible with AutoCAD, CorelDRAW, Photoshop and other software output; Can realize the text symbols, graphics, images, bar codes, 2D code, serial number and other automatic choreography and modification; Support the PLT, PCX, DXF, BMP, JPG, and other file formats, can directly use TTF word stock.

## Application of 5w UV Laser Marking Machine and Laser Engraving Machine for Plastic Glass

Currently the most widely used mainly in the automotive and motorcycle parts, metals, alloys and oxides, ABS, epoxy resin, communication products, plastic buttons, integrated circuits (IC), electronic components, hardware and tools, sanitary ware, costume jewelry , aerospace and other industries, most of them on the use of laser marking machine related products such as direct labeling related characters, graphics, numbers and letters, business name and trademarks, product specifications, frequency, serial number, security code, so as to replace the mechanical, printing type, chemical etching, ink jet printing and other traditional type of marking. 3-Axis Control, More accurately realized on the surface of the workpiece laser marking, no defocus phenomenon when machining, even complex surfaces can respond freely. Controlled by the three-dimensional dynamic laser marking self-developed hardware, software, configuration-specific three-dimensional galvanometer, perfect control of the laser beam in an arbitrary three-dimensional surface labeling.

## ferences from other laser marking machine

1. The wavelength of UV laser is only 355 nm, while fiber is 1064 nm and CO2 is 10.64  $\mu\text{m}$ . When the wavelength is shorter, the laser beam is smaller and more precise, and the Heat-affected zone formed during processing is smaller also, which makes the marking accurate and fine.

2. CO2 laser marking machine and fiber laser marking machine are physical marking method, but UV laser marking machine is a chemical processing method, mainly by photochemical reaction. The difference is that

the physical processing method is mainly happed on the surface of the material, while by chemical processing method, the laser can proceed deep inside of the material.

3. Fiber laser marking machine is mainly used in metal material. Due to the heat generated by its beam, it is not suitable for marking high-precision special materials. UV laser marking machine is particularly suitable for high-end market which need ultra-fine processing, such as marking of cosmetics, pharmaceuticals and other packages by polymers materials.

## 5W UV Fiber Laser Marking machine

- 1.It directly undermine the many non-metallic material surface molecular bonds without heat quantity make the marking beautiful
- 2.It is suitable for fine marking;
- 3.It can mark all kinds of graphics, characters, LOGO, bar code, three code in one, two dimensional code;
- 4.Stable performance,High positioning accuracy,working continuously for 24-hour;
- 5.Low power consumption;

## Parameters of Equipment:

Model	YS-UV-5
Laser Power:	5W
Wavelenth:	355nm
Standard Marking Area:	150mm*150mm
Marking Speed:	≤7000mm/s
Minimum Line Width	0.012mm
Min. Character size	0.15mm
Marking Depth	0 ~0.5mm
Location precision	≤0.01mm
Resetting positioning accuracy	0.003mm
Electrical Requirements:	Ac220V±10%.50HZ.10Amp
Cooling mode	Water cooling
Unit Power	<1kw
Operational Temp Range	10-40°C

Marking Sample:



