WISELY

WISELY LASER MACHINERY LIMITED

No. 7 Building, No. 5 Industry Zone Shutianpu, Matian, Guangming District, Shenzhen 518106 China T:+86-755-32998419 E:sales@wwlaser.hk W:www.wwlaser.com

智•信•銳意•敢擔當——威斯利激光

UV Laser Marking Machine

Description

UV Laser Marking Machine adopts UV Laser source, the third-order cavity frequency doubling technology, compared with infrared laser, UV lasers at 355nm provide a small-size spot and a big focal depth, short laser wavelength interrupts molecular chains of material, can greatly reduces the mechanical deformation and temperature distortion of materials, it is a cold laser, mainly used for super precise marking and engraving, particularly suitable for food, pharmaceutical packaging material marking, micro porous, high-speed dividing for glass, complex graphics wafer cutting on silicon materials, etc.

UV laser is an ultraviolet laser beam which generated after the high-power multimode diode pumped laser and then frequency doubling again, and mark through computer-controlled high-speed scanning galvanometer deflection to change the path of laser beam automatically.

Application

- 1. UV Laser Marking Machine is mainly used in precision processing of high-end market, handicrafts, medicine, cosmetics, video and other polymer materials packaging bottle, the mark is very precise and stands wear, better than ink printing and pollution-free.
- 2. The flexible PCB marking and scribing, silicon and wafer micro hole, blind hole processing.
- 3. LCD glass QR code marking, glass wares punching, metal surface coating marking, plastic buttons, communications equipment, electronics, gifts, building materials and so on.

Features

- 1. High-quality laser beam, small-size spot, can do super precise marking/engraving.
- 2. Perfect marking performance:
- (1) Short UV wavelength 355nm reduces heat effect on work piece;
- (2) Precise marking effect and available repeatable marking;
- (3) High precision scanning galvanometer laser head;
- (4) Extraordinary fine spot guarantees perfect marking performance;
- (5) Non-contact marking;
- (6) Permanent mark.
- 3. Heat affected area is very small, no heating effect, material will not be burned or deformed.
- 4. High marking speed, high efficiency, stable performance, small size, low power consumption.
- 5. Very suitable for the material which is greatly reacted by thermal radiation, can work with production line to feed and discharge materials automatically.





 $\underline{https://www.youtube.com/watch?v=KApuQ07CEEU\&list=UUlpzJahB5JxpkBoKTWBvmaQ07CEEU\&list=UUlpzJahB5JxpkBoKTWBvmaQ07CEEU&list=UUlpzJahB5JxpkBoW07CEEU&list=UUlpzJahB5JxpkBoW07CEEU&list=UUlpxJahB5JxphAbbA007CEEU&list=UUlpxJahB5JxphAbbA007CEEU&list=UUlpxJahB5JxphAbbA007CEEU&list=UUlpxJahB5JxphAbbA007CEEU&list=UUlpxJahB5DybbA007CEEU&list=UUlpxJahB5DybbA007C$

Technical Parameters

Model	MY-UV03
Laser Power	3W
Optional Laser Power	5W/7W/10W

Laser wavelength	355nm
Working Area	150*150mm
Beam Quality	M2 <1.1
Output Laser Power	0~100% adjustable
Output Frequency	5KHz~80KHz adjustable
Power Stability (8h)	<±1%rms
Pulse Width	10-50ns
Focus Spot Diameter	<0.01mm
UV Laser Source (Manufacturer)	Huaray Laser
Scan Head (Manufacturer)	GalvoTech
Controller (Manufacturer)	BJJCZ
Marking Speed	7000mm/s
Min. Line Width	≤0.005mm
Min. Character	0.15mm
Repeated Precision	±0.003mm
Compatible Format of File	PLT, DXF, AI, BMP, JPG and so on.
System Operation Environment	Windows XP/7/8/10 64bits
Cooling Mode	Water Cooling
Operation Environment	15℃~35℃
Lifespan of UV Laser Source	Max. 20 000 hours

















