

MATRIX LASER

UV LASER MARKING MACHINE 5/ 10W

Unleash Precision and Power



MXL-UV 5W OR 10W

Authorized Dealer

شركة ديجيتال ستار
DIGITAL STAR COMPANY

Source of Digital Solutions...

Welcome to Digital Star, your trusted partner in the world of cutting-edge printing solutions. As a leading printing machines, materials, and ink authorized dealer in The Kingdom of Saudi Arabia, we pride ourselves on delivering state-of-the-art technology that empowers to achieve unparalleled levels of efficiency and quality.

At Digital Star, we understand the pivotal role that printing machinery plays in the success of your operations. With a commitment to innovation and excellence, we curate a diverse range of top-tier printing machines to meet the unique needs of our clients. Our product line-up reflects the latest advancements in the industry.

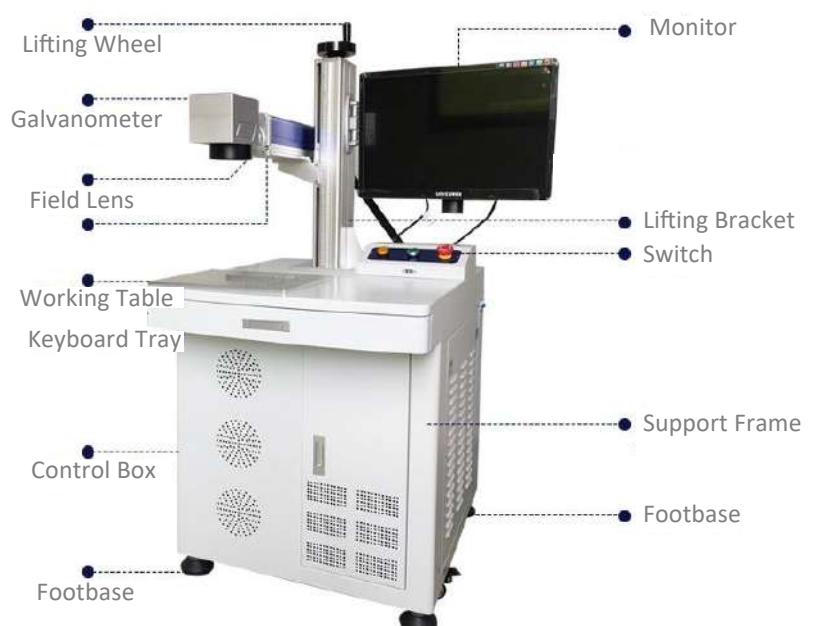
As a responsible printing machines supplier, we prioritize sustainability. Our commitment to eco-friendly practices is reflected in the products we offer, promoting energy efficiency and environmentally conscious manufacturing processes. When you choose Digital Star, you're not just investing in cutting-edge technology – you're partnering with a company that values the planet as much as your success.



PRODUCT OVERVIEW

- 355nm UV Cold Laser Technology:** Utilizes an advanced UV laser source with an extremely small heat-affected zone, enabling ultra-precise marking on heat-sensitive materials such as glass, plastics, films, silicon wafers, and ceramics. It is non-flammable, crack-free, and non-deformable.
- Integrated Cabinet Design:** A fully enclosed cabinet structure with a built-in smoke purification system ensures safe operation and a clean working environment, facilitating easy integration into production lines.
- Wide Material Compatibility:** Applicable to almost all materials, including glass, acrylic, PVC, PP, PC, plastics, leather, fabrics, ceramics, silicon, LCD screens, PCBs, and electronic components.
- High Precision and High Speed:** Equipped with a high-speed scanning galvanometer, marking speeds up to 12000mm/s are achieved, with a minimum line width of 0.01mm. It supports marking text, barcodes, QR codes, dates, serial numbers, and complex patterns.
- No Consumables and Low Maintenance:** Requires no ink or other consumables. The laser source has a lifespan of 20,000-100,000 hours, reducing long-term operating costs.
- Industrial stability:** The water cooling system maintains a stable operating temperature, supporting large-scale production and 24-hour continuous operation, and is widely used in food, pharmaceutical, electronics, semiconductor and other industries.

FIBER LASER MARKING MACHINE DETAIL SHOW





The best Original JCZ control card (EZCAD design software)

- The JCZ original control card is the best controller for the laser marking machine. Its biggest advantage is its stable performance. It supports rotary axis marking

Sino-Galvo Galvanometer Scanning Head

- The best brand Sino-Galvo Galvanometer scanning head in China. It greatly reduce the delay and improve the marking speed.

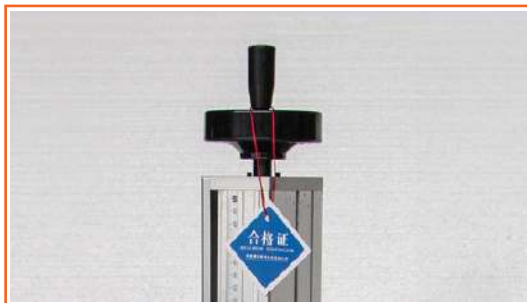


Field Lens

- The field lens by focusing the beam, a high energy density focus produced for marking. The advantage of the field lens is the spot is small, the processing is fine, and the spot is round and round. The wave length is 1064nm. The standard field lens is 110*110mm, we have bigger till to 300*300mm for option too.

Ruler

- The number on the ruler are clear and accurate. It is used to indicate the correct position for marking.



Lifting shaft

- The lift shaft is for adjusting the focus. By adjusting the focus to the right position that best suits the marking.

Working table

- The working table is aluminum alloy. It is compact structure & the processing direction is flexible and adjustable





Foot switch

- The foot switch greatly facilitates the marking work.

Control button

- It is very convenient to control the machine with the control buttons. Buttons include switches, emergency stops, and more. It is also safer to lock the machine with a key when the machine is not in use.



Wheels

- Every machine is equipped with castor wheels to make it easier to move it around the workshop or office. While the castor wheels are great for moving the laser machine around the building, the laser machine also equipped with leveling pads. The leveling pads should be used for long term stabilization of the laser machine.

JPT Ultraviolet Solid-State Laser generator

- Independently adjustable frequency, compact structure, small size, and good versatility.



Water Chiller

- The water chiller efficiently cools the laser generator, ensuring stable operation of the machine over extended periods.

OPTIONAL PARTS



80mm Diameter Rotary Axis

- The rotary axis is for making the cylindrical shape material, such as the bottle, the valve, etc. The diameter is 80mm



XY 2D table

Size: 220*300mm
Stroke: X=150mm Y=90mm
Positioning hole: m6
hole spacing: 25mm

PRODUCT SAMPLES



PRODUCT SPECIFICATION

Model	UV Laser Marking Machine 5W/ 10W
Laser Power	5W/ 10W
Laser device	JPT5SE/JPT10E Fiber Laser Generator
	Lifetime >100,000 hours
Laser Wavelength	355nm
Pulse Repetition Frequency Range	1-200kHz
Max. Feed Rate	7000 mm/s
Marking Area	110 x 110mm (Standard), 200 x 200mm, 300 x 300mm
Min. Line Width	0.01mm (material dependent)
Marking Depth	S20um (material dependent)
Min. Character Size	0.03 mm
Positioning Accuracy	+0.01 mm
Cooling Method	Water Cooling
Positioning Light	Wavelength 650 nm, Power < 30 mW
Minimum Character Height	0.2mm
Power Consumption	<800W / 220V / 50Hz(or 110v for optional)
Environmental Requirement	0~45°C, Humidity≤90%
Graphic Format Supported	bmp,jpg,gif,tga,ai,dxf,dst,plt,etc.

*Specifications are subject to change without prior notice, all rights reserved.

Terms and Conditions

01. Payment to be made in SAR currency.
02. Payment Terms : As mentioned in Quotation.
03. Bank Charges: Any bank charges relevant to the above transactions will be to your account.
04. Any charges, duties, taxes or levies at the ports of entry will be to our account.
05. The charges of loading, boarding and local conveyance of the technician will be to our account.
06. Any required electrical, mechanical and civil site preparation should be done by the customer according to our engineer's requirements.
07. Digital Star Company will not be held responsible for delays caused by any damage in the equipment due to shipment, unloading accidents & any related reasons, which is beyond our control.
08. Warranty will be 12 months from the date of installation from Digital Star Company. Wear and tear, consumables are exempted and warranty can be claimed only if you use the Inks and Services from Digital Star Company.
09. Service will be free of cost within 12 months from the date of installation.
10. Any claim will be invoice directly to you then we will send for claiming procedure which will take 45-60 days, if the claim got approved credit note will issued directly.
11. Delivery: As mentioned in quotation

شركة ديجيتال ستار DIGITAL STAR COMPANY

IBN AL SAQA 8162 | AS SALHIYAH DIST | RIYADH - 12662



+966 11 229 4473



info@digitalstarksa.com



+966 11 229 4473



www.digitalstarksa.com