

MATRIX LASER

CO2 LASER 600*900mm CUTTING AND ENGRAVING

Unleash Precision and Power



MXL-A6090i

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.



MXL-A6090i

PRODUCT OVERVIEW

THE PINNACLE OF QUALITY, THE KING OF FUNCTIONS

MXL-A6090i CO2 laser engraving and cutting machine is a newly developed high-end model. Compared with the previous model, this machine has been upgraded in appearance design, machine structure, transmission system, safety production, sheet metal shield, exhaust system, etc. This machine has higher precision, faster speed, less noise and safer.

Believe that this machine will give you an unparalleled operating experience

Applicable Industries

Advertisement, package and print, sampling, large width tailoring, leather industry, shoe making field, decoration, furniture, molding and art craft industries, etc. Applicable Materials: Fabrics, leather, paper, bamboo ware, acrylic, glass, films and canvas, etc.

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Special Features:

- MXL-A6090i laser engraving machine is developed for production safety. Professional design concept, scientific and reasonable structure, beautiful appearance. The split design reduces the transportation volume and saves transportation costs for customers.
- BIG EYE large transparent observation window, 3in enclosed beam. And the WIFI wireless control is optional. The design concept of the front and back penetration of the machine body can facilitate the front and rear feeding and is suitable for processing infinitely long workpieces.
- The profiles cast by high-precision molds form a high-strength, high-stability mechanical structure, with smooth CNC movement, fast speed, and high precision. There is no need to adjust for long-term operation, and the engraving accuracy remains unchanged.
- The optical accessories adopt the highest quality imported mirrors and focusing mirrors. The reflectance and light transmittance are the highest among similar accessories, the light spot is finer and the cutting force is stronger.

OPTIONAL ITEMS

- FIRE PROTECTION SYSTEM
- B600W(60HZ) OR 800W (50HZ) AIR COMPRESSOR (FIRE PROTECTION SYSTEM NEED AIR COMPRESSOR)
- CCD CAMERA.
- ROTARY AXIS (SINGLE CHUCK)
- WIFI
- HONEYCOMB PLATFORM
- BUILT-IN WATER CHILLER

Transmission structure

High precision slider group transmission structure, improve the motion performance and accuracy of the machine: 40mm belt and fully enclosed beam make the traction of the machine more uniform, higher stability, dust-proof and noise-free



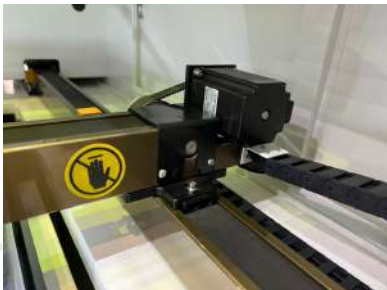
Sturdy

The 2mm thick body is designed in strict accordance with the principles of mechanics, so that the rigidity and stability of the machine are sublimated perfectly. The net weight of the machine is 300KGS



Automatic up and down table

Stainless steel screw is strong and durable.



Leadshine stepper motor and driver

The motor is big, it can make the machine work at fast speed



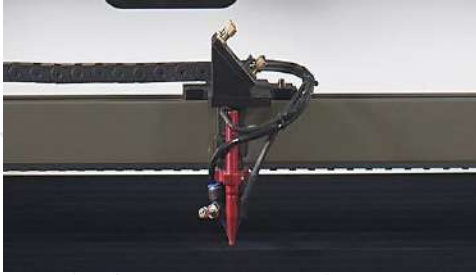
Table

Matrix supplies blade and honeycomb table for your choice, you can choose according to your requirement



Guide rail

Hidden under the belt, good dustproof effect and longer service life



Laser head

Alpha supply long laser head to make sure to process the thickness material cutting, it is high precision and durable

Reflective lens

The imported silicon reflective lens for the substrate silicon, it has a good optical heat, the surface of the silicon coated with a reflective film, can greatly improve its reflectivity, about 98-99%, almost to avoid the reflection caused by the loss of light.



Focus Lens

This section imports of zinc selenide focusing lens of excellent quality, the material selected from the best US imported substrate, edge polishing, high transmittance, a full set of US optical cold processing technology, imports of vacuum coating machine. Strengthen the coating process, durable and easy to stripping, After focusing, spot fine, cutting and carving effect is very good.



OPTIONAL PARTS

FIRE PROTECTION SYSTEM

The machine adds a set of gas path, blowing air from below the workbench to prevent the material from burning. The entire system includes air pipes, barometer, 600W air compressor, oil-water separator, air gun and operating indicator to ensure the safe operation of the machine



PRODUCT SAMPLES



WOOD



ACRYLIC



FABRIC



LEATHER



CARDBOARD



MATTE BOARD

PRODUCT SPECIFICATION

Model	MXL-A6090i
Engraving / Working Area	600x900mm
Laser	80W - Sealed CO2 gas filled glass tube
Engraving Speed	1-60000mm/min
Position Accuracy	$\leq \pm 0.05\text{mm}$
Min Character	1mm English
Transmission	4mm wide belt+ stepper motor
Electrical Requirements	Standard 220v AC 50Hz Single Phase, customized based on your local voltage is available
Compatible Software	CorelDraw, PhotoShop, AutoCad, Compatible with Windows, Mac, & Linux
Working precision	Location precision <0.01mm Minimum character size 1.5mm x 1.5mm Typical design software Adobe Illustrator, AutoCAD, Corel Draw, 2D design Preferred file types .dxf, .plt
Motorized Table	Blade knife or honeycomb
Exclusive Transmission	High-precision sliding block transmission
Cooling Type	Water Chiller S&A brand
Warning Light	Yes
Resolution	Fully-flexible and user-controlled from 75 – 1200 dpi
Advanced FireProof	Fireproof protection system for option
Speed and Power	120 IPS (3.05m/s) with 5G acceleration. Computer-controlled in .001 increments up to 100%. Color mapping feature links Speed, Power, Frequency, and Raster/Vector mode
Safety device	Open cover protection, no-water protection, heat alarm system, separately keyed main power switch, fire protection
Machine Size/ Weight	1140*1540*1120mm/ 300kg

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

SYSTEM REQUIREMENTS (PC's)

Refer to the appropriate section below for the minimum and recommended computer system requirements necessary to use this machine.

Operating System*	Windows 10 (64 Bit) or Later
Processor	i7 - 2.6 GHz or faster
Memory (RAM)	Min. 8GB
Video Card and Monitor	1280x1024 or Higher Resolution
Working Hard Disk Space	1 TB SSD or more recommended
Graphics Card	2GB or more (Optional)
Optical drive	DVD-ROM
Other requirements	Ethernet connection for network capable printers
	Available USB ports
Recommended Brand	Lenovo / Dell

* Note: You can use a laptop or desktop computer

* Use the original operating system and software. If you are using pirated operating system or software, we are not responsible for any damage to Machine workings, and also the warranty terms will become void.

POWER REQUIREMENTS

Voltage Regulator	5000W Stabilizer
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OTHER REQUIREMENTS

Coolant	10L Distilled Water (For Chiller)
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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 applicable as per our Warranty Policies. The Warranty will be valid after signing of Warranty Policies.
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

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