

MATRIX LASER

FIBER LASER CUTTING MACHINE 60*60

Unleash Precision and Power



MXL-ATF 6060

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-ATF6060

PRODUCT OVERVIEW

This machine is specially developed for cutting metal sheets. The advantages of this machine are reasonable price, high cost performance and reliable performance.

Application Materials:

The fiber laser cutting equipment is suitable for cutting various metal sheets, such as carbon steel sheet, iron sheet, stainless steel sheet, low carbon steel sheet, alloy steel sheet, spring steel sheet, galvanized iron sheet, aluminum sheet, copper sheet, brass sheet, bronze sheet, goldsheet, silver plate, titanium plate, etc.

Application Industries:

The Fiber Laser Cutting Machines are widely used in manufacturing sheet metal processing, metals components and parts, ironware, chassis, racks & cabinets processing, metal crafts, metal art ware, elevator panel cutting, hardware, auto parts, billboard, advertising, signs, signage, metal letters, LED letters, kitchen ware, advertising letters, glasses frame, electronic parts, nameplates, refrigeration machinery, agricultural machinery, food machinery, kitchen stainless steel countertops, aerospace, railroad locomotive, auto parts manufacturing, car body processing, medical equipment, smart home, home appliances, kitchen equipment, fitness equipment, machinery manufacturing, sheet metal processing. etc.

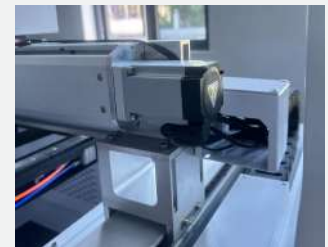
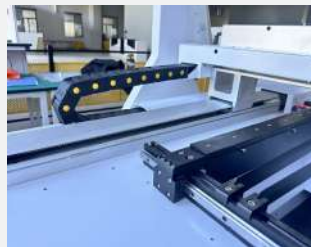
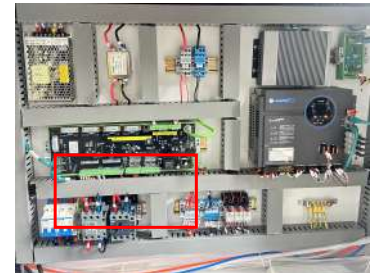
CONTROL SYSTEM

The control system boasts high-precision control capabilities, employing precise control algorithms and high-performance servo motors, achieving positioning accuracy down to the micrometer level. Sensors monitor key parameters such as laser power and cutting speed in real time, transmitting this data to the control system via a high-speed communication interface. After processing and analysis, the system automatically adjusts processing parameters to achieve closed-loop control, ensuring processing quality.



ELECTRICAL COMPONENTS

The voltage signal is converted into torque and speed to drive the controlled object, ensuring the cutting accuracy, positioning speed and repeatability of the laser cutting machine.

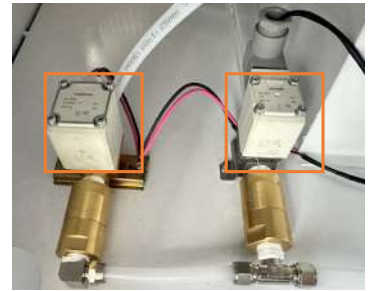


TRANSMISSION SYSTEM

The voltage signal is converted into torque and speed to drive the controlled object, ensuring the cutting accuracy, positioning speed and repeatability of the laser cutting machine.

PRESSURE VALVES

SMC high and low pressure valves are designed specifically for industrial-grade laser equipment, employing advanced electromagnetic control technology and high-sensitivity sensors, achieving millisecond-level



PROPORTIONAL VALVE

To ensure a stable gas supply during laser processing, meet the precise requirements of different materials and processes for gas pressure and flow, improve cutting accuracy and quality, and optimize energy

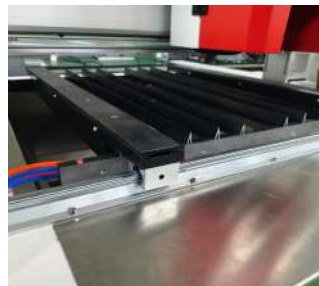


SMART HANDLE



Features include smart connectivity, one-handed operation, and a comfortable grip; it can be magnetically attached to any sheet metal surface. It boasts a wireless design, long battery life, and a logically laid-out function button layout.

PNEUMATIC CLAMPS

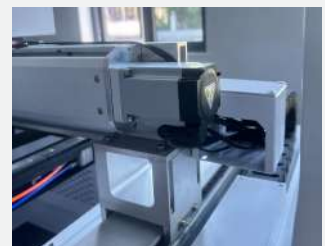


The crucial component for fixing the workpiece to be cut, ensuring cutting accuracy and efficiency.

OIL-WATER SEPARATOR



Oil-water separators can efficiently remove oil mist, moisture, and dust particles from compressed air, stabilize air output, ensure cutting quality, and reduce equipment failure rate.



MODULE

The XYZ axis modules work together to achieve three-dimensional spatial movement of the laser cutting head. They operate stably, are precisely positioned, and have low noise.

GW LASER SOURCE

Continuous fiber laser, average output power 1500W±5%; output wavelength: 1080±10nm; output core diameter: 25um; output fiber optic cable length: 10±0.5m; beam quality: $M^2 < 1.5$; output interface type: QBH; input voltage: AC 220V±10% 50Hz.

Features a brand-new exterior design, all-aluminum body, lighter weight, smaller size, higher beam quality, and higher laser stability.

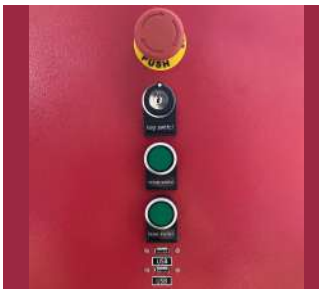


DISPLAY SCREEN

- Real-time monitoring: Allows operators to monitor equipment operation status promptly.
- Cutting control: Supports professional laser cutting control software.
- Fault diagnosis: Helps operators quickly locate and resolve problems.



EMERGENCY STOP BUTTON



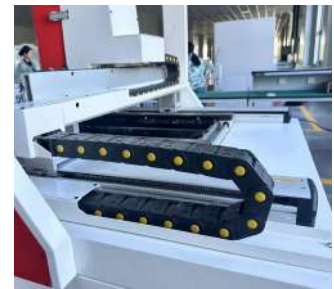
Emergency power outage; fault lockout; full machine linkage.

EXHAUST VENT



To prevent dust in the smoke from adhering to precision components such as the laser head lens, extend the lifespan of electrical components, and ensure cutting accuracy.

DRAG CHAINS



This device is used to protect the internal cables, oil pipes, air pipes and other pipelines of a laser cutting machine. It can provide traction and protection for the pipelines when the



WATER CHILLER

High temperature control precision prevents laser power attenuation and spot deformation caused by temperature fluctuations. Strong heat dissipation efficiency meets the heat dissipation requirements of long-term continuous cutting. Protects equipment components and extends the lifespan of vulnerable parts such as the laser generator and cutting head lenses. Adaptable to the complex environment of laser cutting workshops with abundant metal chips and oil, ensuring continuous and stable operation.

PRODUCT SAMPLES



PRODUCT SPECIFICATION

Model	MXL-ATF6060
Working Area	600*600mm
Laser Power	1500W
X,Y,Z Axis Transmission	High-precision Ball Screw Module
Cooling System	Water Chiller
Power Supply Rated Voltage	220V 1PH or 380V 3PH
Laser Source	GW 1500W
Control System	Raytools: XC3000S
Cutting Head	Raytools BM110
Pneumatic Device	SMC
Motor	Leadshine
Servo System	Leadshine Bus Servo
Module	SKR
Water Chiller	S&A/Hanli : 1500/2000/3000W
High-Pressure Valve	SMC
Electrical Components	YIJIA
Machine Bed	Heavy-Duty Steel Plate Welding Bed

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



FIBER LASER
CUTTING MACHINE
 THE PINNACLE OF QUALITY, THE KING OF FUNCTIONS

MXL-ATF6060

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	Min. 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 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

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