

MATRIX LASER

# FIBER LASER CUTTING MACHINE

Unleash Precision and Power



MXL-3015A

*Authorized Dealer*

شركة النجم الرقمي للألات و المعدات  
DIGITAL STAR MACHINERY AND EQUIPMENTS

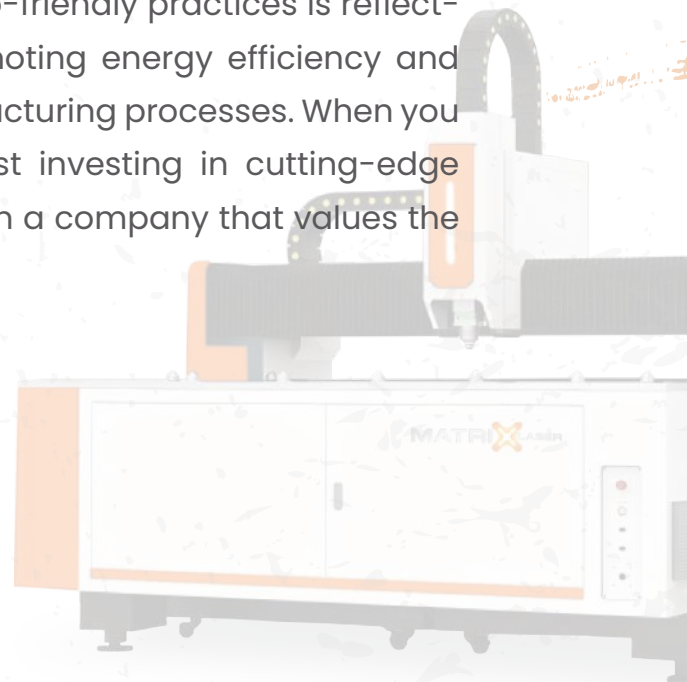
# About Us

## 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 Riyadh – Saudi Arabia (KSA), 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

- Compact Design with built in control cabinet saves space and is ergonomically designed to align with human-machine engineering principles.
- High-Quality electrical accessories and intelligent control system offer improved cutting precision, efficiency, and wider application scope.
- Intelligent alarm system detects low gas pressure in real-time ensuring timely gas replacement & improved equipment troubleshooting efficiency.



PRODUCT APPLICATION

FIBER LASER  
CUTTING MACHINE  
MXL-3015A



MXL-3015A

## PRODUCT SPECIFICATION

Model	MXL-3015A	
LASER POWER	1000W	1500W
Laser Source	1-2kw Raycus	
Working Area	3000*1500mm	
Repeat Repositioning Accuracy	±0.03mm	
Accuracy of Positioning	±0.02mm	
X,Y Max. Linkage Speed	100m/min	
Maximum Acceleration	0.8G	
Body	8mm plate + 4mm tube	
	Aluminum Grantry beam A	
Drives and Motors	Fuji Servo XY: 750w , Z axis: 400w	
Control System	Built in Cabinet with Vertical Screen	
Raytools	BM110	
Cypcut	2000C	
Guide Rail	Hiwin Y25, X20, Z15	
Gear Reducer	Shimpo	
Chiller Unit	S&A or Hanli Water Chiller	
Dust Unit	Extraction Pump	
Voltage	220v/ 380v	

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

## LASER CUTTING PARAMETERS

MATERIAL	THICKNESS(mm)	SPEED (m/min)	POWER(W)	GAS	PRESSURE	NOZZLES(mm)
CARBON STEEL	1	22-25	1500	N2/Air	10	2.0 Single
	2	4-5	1500	O2	1.5	1.0 Double
	3	3-4			0.6	1.0 Double
	4	2.3-2.8			0.6	1.0 Double
	5	1.8-2.3			0.6	1.0 Double
	6	1.6-2.0			0.6	1.0 Double
	8	1.2-1.5			0.8	4.0 Double
	10	0.9-1.2			0.8	4.0 Double
	12	0.8			0.8	4.0 Double
	14	0.65			0.8	4.0 Double
16	0.5	0.8			4.0 Double	
STAINLESS STEEL	1	20-35	1500	N2	10	2.0 Single
	2	8-10			10	2.0 Single
	3	4.5-5.5			12	3.0 Single
	5	1.5-2.0			15	3.0 Single
	6	0.7-0.9			15	4.0 Single
ALUMINIUM ALLOY	1	15-18	1500	N2	10	2.0 Single
	2	4.0-5.0			12	2.0 Single
	3	1.5-2.5			14	2.5 Single
	4	1.0-1.3			14	3.0 Single
BRASS	1	12-15	1500	N2	10	3.0 Single
	2	4.0-5.0			10	3.0 Single
	3	1.5-2.5			10	3.0 Single

Note: The actual batch cutting, affected by machine tools, systems, cutting head, air pressure, materials and other factors.

MATERIAL	THICKNESS(mm)	SPEED (m/min)	POWER(W)	GAS	PRESSURE	NOZZLES(mm)
CARBON STEEL	0.8	18-20	1000	N2/Air	11	2.0 Single
	1	10-15			11	2.0 Single
	2	4-5	1000	O2	1.5	1.0 Double
	3	2.5-3.2			0.6	1.0 Double
	4	2.3-2.8			0.6	1.0 Double
	5	1.8-2.1			0.6	1.0 Double
	6	1.2-1.5			0.6	1.0 Double
	8	1-1.1			0.6	1.5 Double
10	0.7-0.9	0.6	1.5 Double			
STAINLESS STEEL	0.8	18-32	1000	N2	10	2.0 Single
	1	13-18			12	2.0 Single
	2	4-6			12	2.0 Single
	3	2.5-3			12	3.0 Single
	4	1-1.5			14	3.0 Single
	5	0.6-0.8			16	3.0 Single

ALUMINIUM ALLOY	0.8	18-20	1000	N2	10	2.0 Single
	1	10-15			12	2.0 Single
	2	4-5			14	2.0 Single
	3	1-1.5			16	2.0 Single
BRASS	1	8.0-10	1000	N2	10	2.0 Single
	2	2.0-2.5			14	2.0 Single
	3	0.8-1.0			16	3.0 Single

Note: The actual batch cutting, affected by machine tools, systems, cutting head, air pressure, materials and other factors.

## 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 Machinery and Equipments 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 Machinery and Equipments. Wear and tear, consumables are exempted and warranty can be claimed only if you use the Inks and Services from Digital Star Machinery and Equipments.
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 النجم الرقمي للألات و المعدات DIGITAL STAR MACHINERY AND EQUIPMENTS

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