

**Laser****Laser****Laser Cleaning**

## **Functionality . Affordability . User-friendly**

20 to 50W desktop Q-switch fiber laser marking enables enhanced management of process parameters, offering greater flexibility for applications, even on traditionally challenging high-reflective metal materials. Users can perform deep marking, light removal, and black-annealed marking with ease and precision.

**Pay for What you get****Durable service life****Double red-light**

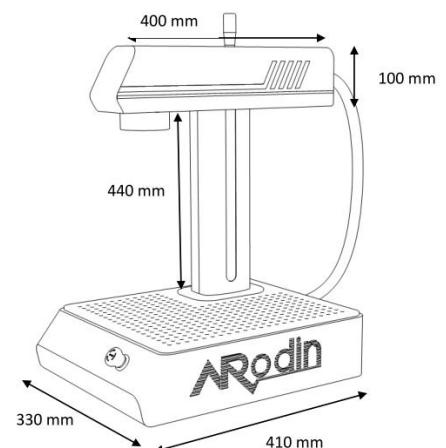
### **1064 nM Fiber Laser Marking Machine**

Experience the next generation in marking lasers with the MDFA series to get the best of modern and easy to integrate image processing solutions as well as a high level of productivity. High power and excellent beam quality guarantee that you will achieve brilliant laser markings – in any industry. The optimal solution for achieving traceability, establishing a distinctive brand personality, and enhancing branding in industrial settings, all while ensuring cost-effectiveness and efficiency.

**No Damage of parts // No Consumable items // No Complex procedure**

#### **Marking Material**

- Steel
- Iron
- Ceramic
- Aluminum
- Brass
- Titanium
- Copper
- Concrete
- CFRP
- Some plastic
- Silicon
- Metal Alloys
- Cast Iron
- Carbide
- Chrome
- Galvanized Metals



MDFA series laser power are from 20W to 50W with RodinCAD & Lightburn marking system, The output power is 50,000mWalatt, the optimal solution for achieving traceability, establishing a distinctive brand personality, and enhancing branding in industrial settings, all while ensuring cost-effectiveness and efficiency.

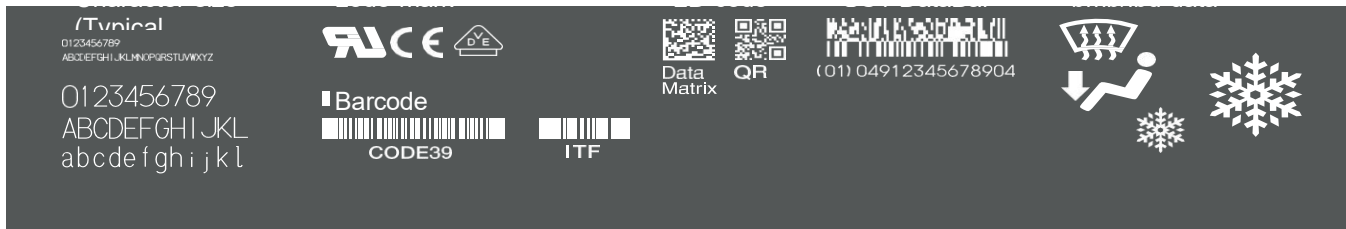


The MDFA series embodies state-of-the-art oscillation methods and innovative technologies. From its groundbreaking features to its industry-leading advancements, this machine distinguishes itself with its exceptional durability, user-friendly design, and unparalleled cost-effectiveness.

»No Damage of parts

»Consumable items

» No Complex Marking Procedure

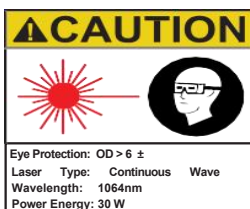


## SPECIFICATION

MRodin model no.	MDFA10020	MDFA10030
Laser source wattage	20W	30W
Machine power	200 Watt	200 Watt
Laser type	Q switch pulse laser	Q switch pulse laser
Laser wavelength	1060-1700 nM	1060-1700 nM
Beam quality	$M^2 < 1.1$	$M^2 < 1.1$
Pulse repetition frequency	30-60 KHZ	30-60 KHZ
Scan area (standard)	110*110 mm	110*110 mm
Marking depth	0.1-0.5 mm	0.1-0.5 mm
Pulse energy	0.68 mJ	0.75 mJ
Pulse width	80-120 $\pm$ 20 ns	80-120 $\pm$ 20 ns
Marking line width	0.01-0.3 mm	0.01-0.3 mm
Marking speed	5000 mm/s	7000 mm/s
Cooling mode	Built-in air-cooling	
Focusing method	Double red-light manual operation	
Software	RodinCAD 16 multilingual & Lightburn is optional	
Electrical parameters	110V/220V Single-phase 50Hz	
Package & N/G weight	Paper carton 650*410*330 mm 18/20 kgs	



See MFDA  
working



The 1064nm wavelength laser light emitted by this laser system is invisible and poses potential harm to the human eye. It is imperative to always wear appropriate laser safety eyewear during operation.



Additional requirements not covered in this listing can be provided upon request. For guidance in identifying the optimal capabilities to meet your specific needs, please reach out to Mrodin Laser Machinery S.L. or visit our website at [www.mrodin.es](http://www.mrodin.es).

This equipment is a Class IV laser as designated by the CDRH and does not meet the full requirements as a stand-alone laser system as defined by 21 CFR 1040.10 under the Radiation Control for Health and Safety Act of 1968. It is user responsibility to utilize all integrated safety features of the system to exploit as compliant with 21 CFR 1040.10. IMPORTANT NOTICE: ALL SPECIFICATIONS, TECHNICAL DATA AND OTHER INFORMATION CONTAINED IN THIS DOCUMENT, AND ALL STATEMENTS ABOUT THE PRODUCT(S) IDENTIFIED IN THIS DOCUMENT, ARE PRELIMINARY IN NATURE AND ARE PROVIDED "AS IS," WITHOUT WARRANTY OR ASSURANCE OF ANY KIND. MRODIN LASER MACHINERY MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE PRODUCT(S) OR THEIR SPECIFICATIONS. ALL INFORMATION IS SUBJECT TO CHANGE. PLEASE CONTACT MRODIN LASER FOR MORE INFORMATION. MRODIN LASER AND MRODIN LOGO ARE TRADEMARKS OF MRODIN LASER MACHINERY S.L. OTHER TRADEMARKS ARE THE PROPERTY OF THEIR RESPECTIVE OWNERS. © MRODIN LASER MACHINERY S.L. ALL RIGHTS RESERVED.

