



Laser Marking



Laser Engraving



Laser Cleaning

Adjustable Pulse Duration

Versatile Applications Deep Engraving

30 to 200W MOPA enclosed cabinet fiber laser marking workstation is capable of producing high-contrast, precise marks without causing damage to the material, making them indispensable in industries such as electronics and automotive manufacturing. They are particularly suited for applications that demand specific material interactions, such as fine markings on sensitive surfaces or the processing of highly reflective materials. Widely versatile, MOPA lasers are employed across various industries for tasks ranging from simple marking to precise material processing, delivering exceptional results in demanding applications.



Pay for What you get



Durable service life



Cutting-edge quality

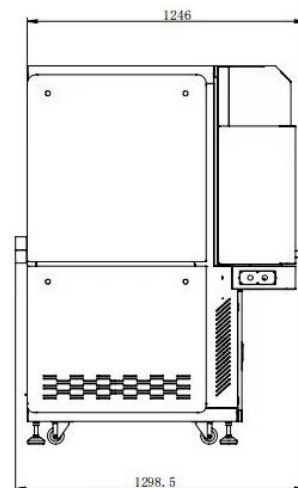
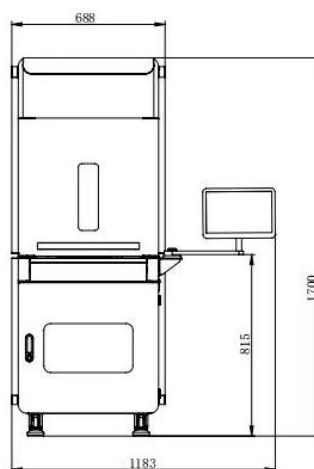
Advantages of MCFE series MOPA Laser Marking Station

It is designed for outstanding durability, boasting a remarkable lifespan of up to 100,000 hours MTBF (Mean Time Before Failure). Furthermore, the door is meticulously engineered to endure tens of thousands of operation cycles, ensuring long-lasting performance and reliability.

Metals	Non-metals
✓ Stainless Steel	✓ Ceramics
✓ Steel	✓ Glass
✓ Copper	✓ Rubber
✓ Brass	✓ Wood
✓ Gold and Silver	✓ Leather
✓ Titanium	✓ Plastics
✓ Aluminum (anodized aluminum)	✓ ABS, PVC, Polycarbonate etc

Special Features

- ✓ Color marking on stainless steel and titanium.
- ✓ Engraving intricate details on coated materials (e.g., painted metals, anodized layers).



Laser Class 1 -Your safety Our Mission



The MRodin MDFE series MOPA incorporates high-quality safety components sourced from world-leading manufacturers such as Schneider, SIEMENS, and KEYENCE. These components include safety switches, interlocks, and light curtains, specifically designed to prevent unauthorized access to laser areas and safeguard operators from laser exposure. Additionally, emergency stop devices and safety relays ensure immediate shutdown in case of malfunction, providing an extra layer of protection. Compliant with EU safety standards such as ISO 13849-1 and IEC 61508.



EUCHNER
More than safety.



KEYENCE



Schneider
Electric



SIEMENS

Specification

MRodin model	MDFE20060	MCFE20100	MCFA20200
Laser Source Wattage	6 0W	100W	200W
Machine power	450 Watt	600 Watt	800 Watt
Laser type	MOPA pulse laser	MOPA pulse laser	MOPA pulse laser
Laser wavelength	1064 nM	1064 nM	1064 nM
Beam quality	M ² < 1.5	M ² < 1.6	M ² < 1.6
Frequency	1-4000 kHz	1-4000 kHz	1-4000 kHz
Marking depth	0.01-1 mm	0.01-2 mm	0.01-3 mm
Pulse energy	1.5 mJ	1.5 mJ	1.5 mJ
Pulse width	2-500 ns	2-500 ns	2-500 ns
Marking speed	7000-9000 mm/s	7000-10000 mm/s	8000-12000 mm/s
Manufacture by	VON JAN German		
Protection	Anti-reflection protection		
Cooling mode	Built-in air-cooling & Air filter is optional		
Focusing method	Double red-light manual focus (Electric focu is optional)		
Software	RodinCAD 16 multilingual & Lightburn is optional		
Electrical parameters	110V/220V Single-phase 50Hz		
Laser safety class	Class 1		
Machine size	L 1100*H1730*W970mm		
Package & N/G weight	Wooden case 1730*1100*970 mm About 270/310 kgs		

This equipment is classified as a **Class I laser** by the **CDRH** but does not fully comply with the requirements of a stand-alone laser system as outlined in **21 CFR 1040.10** under the **Radiation Control for Health and Safety Act of 1968**. Users are responsible for employing all integrated safety features of the system to ensure full compliance with **21 CFR 1040.10** regulations..All specifications, technical data, and other information provided in this document, including statements about the identified product(s), are preliminary and supplied "as is" without any warranty or guarantee of any kind. MRodin Laser Machinery, S.L. makes no representations or warranties, whether express or implied, regarding the product(s) or their specifications. All information is subject to change without prior notice. For further details, please contact MRodin Laser Machinery, S.L.



Donostia Ibilibidea, 68 P.I. 26, Parcela 30,
20115 Astigarraga Spain



+34 943 38 68 69



www.mrodin.es