



## Growing Global Linking Local

30 & 60W MOPA enclosed desktop fiber laser marker offers a 20% smaller footprint compared to many competitors, making it an ideal choice for desktop or workbench placement where space is limited. Despite its compact design, the MDFE series delivers exceptional functionality and reliability, typically found in high-end industrial lasers. The advanced technological coating further enhances the durability and performance of these units, ensuring they meet the demands of various industries while maintaining a small, efficient form factor. This combination of compactness and performance makes the MDFE series a standout in its category.



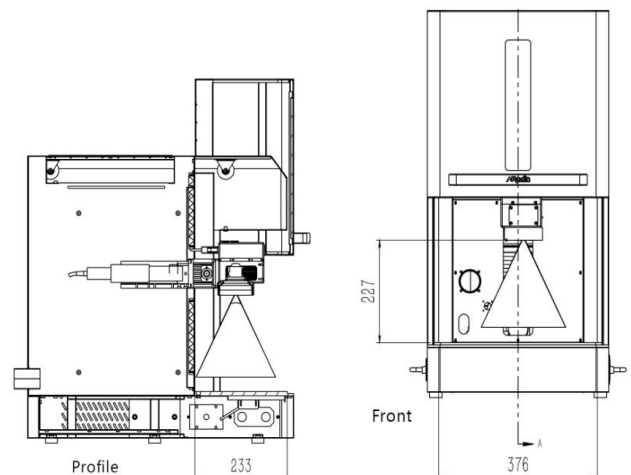
**Pay for What you get // Durable service life // Germany quality**

Benefit from MROdin's unmatched performance while optimizing your investment in metal parts traceability with the MDFE series. Designed to fit seamlessly on most work surfaces, it is ideal for marking metals in workshops and various industrial environments. Engineered for longevity, the laser source offers an impressive 100,000 hours of typical Mean Time Before Failure (MTBF), ensuring reliable performance over time. The manual sliding door is built to withstand tens of thousands of cycles, providing durability in high-demand settings. that can be traced back throughout the entire manufacturing process. This makes it an invaluable tool for industries focused on precision, quality control, and product tracking.

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



All safety parts of MRodin MDFE series adapted high -quality parts supplied by the world's leading safety equipment manufacturer like Schneider, SIEMENS and KEYENCE. The MDFE series incorporates advanced safety features, including safety switches, interlocks, and light curtains, designed to prevent unauthorized access to laser areas and protect operators from laser exposure. These systems are equipped with emergency stop devices and safety relays to ensure an immediate shutdown in case of malfunction, prioritizing user safety.



**EUCHNER**  
More than safety.



**KEYENCE**



**Schneider**  
Electric



**SIEMENS**



### Technical Specification

MRodin model	MDFE20030	MDFE20060
Laser Source Wattage	30W	60W
Machine power	200 Watt	450 Watt
Laser type	MOPA pulse laser	MOPA pulse laser
Laser wavelength	1064 nm	1064 nm
Beam quality	$M^2 < 1.4$	$M^2 < 1.5$
Frequency	1-4000 kHz	1-4000 kHz
Marking depth	0.01-0.7 mm	0.01-1 mm
Pulse energy	0.8 mJ	1.5 mJ
Pulse width	2-500 ns	2-500 ns
Marking speed	6000-8000 mm/s	7000-9000 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 operation (electric is optional)	
Software	RodinCAD 16 multilingual & Lightburn is optional	
Electrical parameters	110V/220V Single-phase 50Hz	
Laser safety class	Class 1	
Machine size	L 760 H735*W430 mm	
Package & N/G weight	Wooden case 735*760*430 mm About 70/80 kgs	

This equipment is classified as a Class I laser by the CDRH and does not fully meet 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 utilizing all integrated safety features of the system to ensure compliance with 21 CFR 1040.10. IMPORTANT NOTICE: All specifications, technical data, and other information contained in this document, as well as statements regarding the identified product(s), are preliminary and 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. For more details, please contact MRodin Laser Machinery S.L.



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