



Laser Marking



Laser Engraving



Laser Cleaning

Heavy Duty

True Endurance Safety design

The MCFE series offers precise, permanent marking on metals and plastics, featuring Galvo workstations with scanner control, integrated laser markers, and flatbed lasers for high-resolution results. It ensures legibility even under extreme heat, cold, or humidity. Users can easily perform deep marking, delicate light removal, and precise black-annealed marking, making it a versatile solution for various industrial applications.



Pay for What you get Durable service life Affordable



Advantages of MCFE Fiber Laser Marking Station

- ✓ Traceability of products over their life cycle.
- ✓ Prevents the mix-up of work pieces
- ✓ Flexible and permanent customization



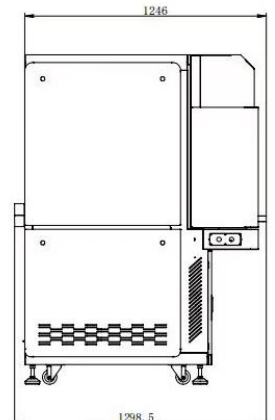
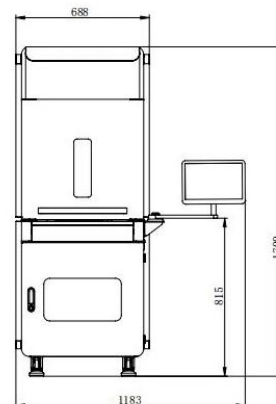
See MCFE working

The MCFE series is engineered for exceptional durability, with a remarkable lifespan of up to **100,000 hours** typical MTBF (mean time before failure). The door is designed to withstand tens of thousands of cycles. Built for performance-critical companies, the MCFE series provides a high-end industrial solution that can endure the demands of challenging environments.

Traceability, Personality, and Branding for industrial applicatio

Marking Material

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



MCFE series Class 1 Safety Features

Within a laser marking machine, the laser source is always Class 4, posing potential hazards that can be mitigated with additional safety measures and devices. The MCFE series is designed, assembled, configured, and tested in the EU to meet the highest standards as a Class 1 laser, ensuring safety for operators. MRodin selects high-grade components in collaboration with laser safety experts and top manufacturers in the safety industry, making the MCFE series fully compliant with CE, RoHS, and FDA regulations.

EUCHNER
More than safety.



KEYENCE



Schneider



SIEMENS



Specification

MRodin model	MCFE10030	MCFE10050
Laser source wattage	30W	50W
Laser source type	Q-switch fiber laser	Q-switch fiber laser
Laser wavelength	1064 nM	1064 nM
Frequency	40 KHZ	45 KHZ
Machine power	200 W	350W
Scan area (standard)	110*110 mm	110*110 mm
Marking depth	0.1-0.3 mm	0.1-0.5mm
Pulse energy	0.75 mJ	1.1 mJ
Pulse width	100±20 ns	100±10 ns
Marking line width	0.01-0.05 mm	0.01-0.05 mm
Marking speed	5000 mm/s	7000 mm/s
Cooling mode	Built-in air-cooling Air filter is optional	
Focusing method	Double red-light manual operation (electric is optional)	
Software	RodinCAD 16 multilingual Spanish/ English	
Electrical parameters	110V/220V Single-phase 50Hz	
Package N/G weight	Wooden case 1730*1100*970 mm 270/310 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.

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