

XRF-M

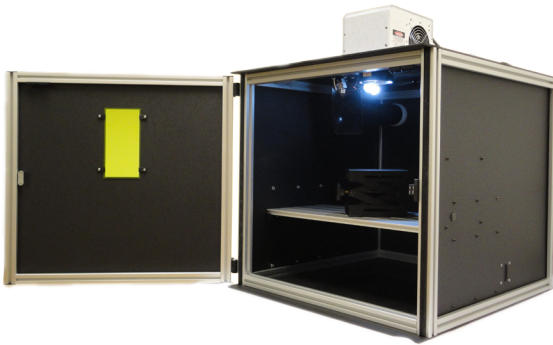
Fiber Series



Laser Marker Head



Controller



Class I Workstation

Description

With power levels at 20, 30, or 60 watts, the XRF-M fiber laser is a versatile laser marking machine. The MOPA fiber module allows for marking on a wider range of materials that previous fiber lasers were not capable of. The selectable pulse durations allow the XRF-M laser to mark like a Diode Pumped Solid State laser and a traditional fixed pulsed fiber laser giving it the best of both worlds. Marking speeds have also been improved by 30% compared to previous generations while being more efficient and more reliable. The XRF-M is virtually maintenance free and is backed by RMI Laser's industry leading warranty, and world class service and support.

Benefits

- High beam quality, small spot size and large lens are ideal for small components
- Ideal for all metals & most plastics
- Digital galvos with XY2-100 protocol
- 2.5D deep engraving
- High speed rotary marking
- Engineered for maximum uptime, maintenance free
- Backed by world-class support and a convenient laser system loaner program to enable you to remain productive if your system needs repair



Improves Efficiency

RMI Fiber Lasers are designed for maximum efficiency. With no internal optical assemblies and a fanless marker head, the XRF-M laser requires no maintenance for maximum uptime in the harshest of conditions.



Plug and Play

With our Class I Enclosures and professional installation, setting up your RMI Laser is simple and easy. Experience out-of-the-box and marking in less than an hour!

Marking Samples

*Actual product may vary as prototype image is shown.



XRF-M Laser Marking System

Marker Head

	XRF-20M	XRF-30M	XRF-60M
Laser Source Built-in	Yb-doped Fiber Laser	Yb-doped Fiber Laser	Yb-doped Fiber Laser
Wavelength	1064 nm	1064 nm	1064 nm
Laser Source Output	20 W equivalent CW Power	30 W equivalent CW Power	60 W equivalent CW Power
Peak Power	0.8 mJ	1.0 mJ	1.5 mJ
Pulse Width	2~350 ns	2~350 ns	10~350 ns
Pulse Frequency	1-2000 khz	1-2000 khz	1-1000 khz
Beam Quality	M ² <1.3	M ² <1.6	M ² <1.8
Warranty	2 year fiber module 1 year all other parts	2 year fiber module 1 year all other parts	2 year fiber module 1 year all other parts
100mm F-Theta Lens: Max Marking Area	65 x 65 mm 2.56 x 2.56 in.	65 x 65 mm 2.56 x 2.56 in.	65 x 65 mm 2.56 x 2.56 in.
163mm F-Theta Lens: Max Marking Area	105 x 105 mm 4.13 x 4.13 in.	105 x 105 mm 4.13 x 4.13 in.	105 x 105 mm 4.13 x 4.13 in.
254mm F-Theta Lens: Max Marking Area	160 x 160 mm 6.3 x 6.3 in.	160 x 160 mm 6.3 x 6.3 in.	160 x 160 mm 6.3 x 6.3 in.
330 mm F-Theta Lens: Max Marking Area	210 x 210 mm 8.26 in. x 8.26 in.	210 x 210 mm 8.26 in. x 8.26 in.	210 x 210 mm 8.26 in. x 8.26 in.
420 mm F-Theta Lens: Max Marking Area	265 x 265 mm 10.4 in. x 10.4 in.	265 x 265 mm 10.4 in. x 10.4 in.	265 x 265 mm 10.4 in. x 10.4 in.
Lenses available (focal length)	100, 163, 254, 330, 420 mm	100, 163, 254, 330, 420 mm	100, 163, 254, 330, 420 mm
Cooling System	Air-cooled		
Operational Temp Range*	~10 - 40 °C (~50 - 104 °F)		
Operational Humidity Range*	80% non-condensing		
Weight	5.0 kg (11 lbs)		
Dimensions LxWxH**	245 x 200 x 65 mm		

Controller

Storage Temp Range	-10 ~ 60 °C (14 ~ 140 °F)
Storage Humidity Range	Up to 80% non-condensing
Power Source	AC 100 - 240 V, 5 A, 50/60 Hz
Consumption Power	400 W nominal, 500 W max.
Weight (with set of cables)	13 kg (29 lbs)
Dimensions LxWxH	430 x 440 x 132 mm (16.9 x 17.4 x 5.2 in.)

XRF Laser Configuration Options

- Available with 100 mm, 163 mm, 254 mm, 330 mm, or 420 mm F-Theta Lenses
- 20, 30 & 60 Watt Models
- Class I or Class IV Configurations
- Plug and Play Rotary Chuck Adaptation

