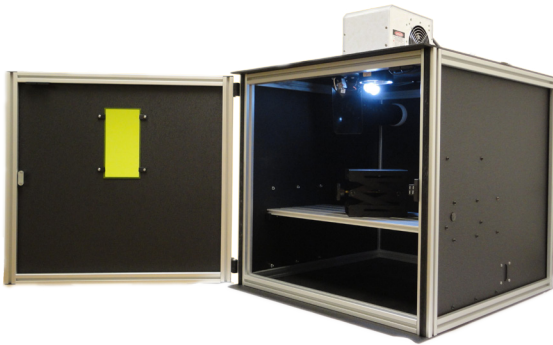




Laser Marker Head



Controller



Class I Workstation

Description

The XRF fiber laser is available at 20 or 30 watt power levels. The XRF has been designed to be fast, reliable, and economical with speeds up to 30% faster compared to previous generations. Components sourced for the XRF have been carefully selected in order to provide the most bang for your buck. The pulse frequency range of 1-400khz is wider than many other fixed pulse fiber lasers on the market giving it more flexibility on a variety of materials. With dust free optics, the XRF 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 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 Laser Marking System

Marker Head

| | XRF-20 | XRF-30 |
|---|---|---|
| Laser Source Built-in | Yb-doped Fiber Laser | Yb-doped Fiber Laser |
| Wavelength | 1064 nm | 1064 nm |
| Laser Source Output | 20 W equivalent CW Power | 30 W equivalent CW Power |
| Peak Power | 0.8 mJ | 0.8 mJ |
| Pulse Width | 200 ns | 200 ns |
| Pulse Frequency | 1-400khz | 1-400khz |
| Beam Quality | M ² <1.3 | M ² <1.3 |
| Warranty | 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. |
| 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. |
| 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. |
| 330 mm F-Theta Lens: Max Marking Area | 210 x 210 mm 8.26 x 8.26 in. | 210 x 210 mm 8.26 x 8.26 in. |
| 420 mm F-Theta Lens: Max Marking Area | 265 x 265 mm 10.4 x 10.4 in. | 265 x 265 mm 10.4 x 10.4 in. |
| Lenses available (focal length) | 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 Watt Models
- Class I or Class IV Configurations
- Plug and Play Rotary Chuck Adaptation

