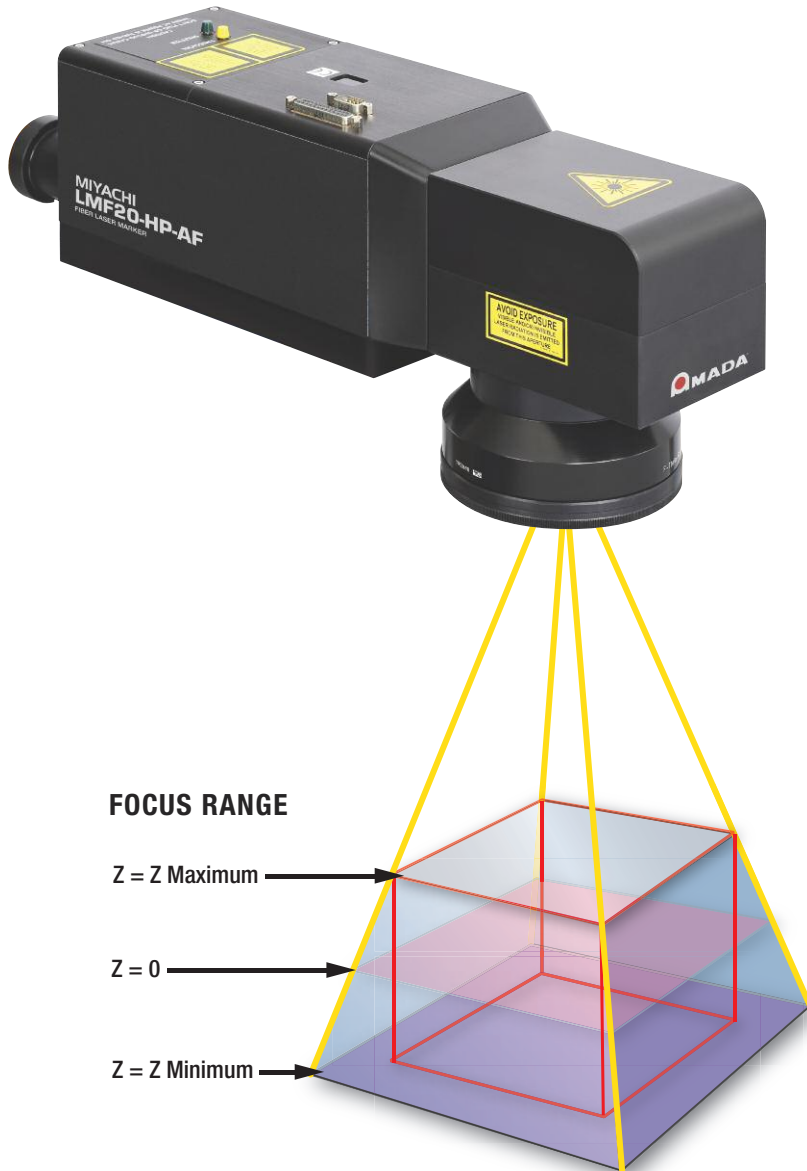


LMF-AF

Adjustable Focus Marker



AMADA MIYACHI AMERICA introduces the LMF-AF adjustable focus fiber laser engraver. This marker, based on our popular LMF product line, not only controls the position of the laser beam in an XY plane, but also in Z (height), as well.

Using the same intuitive GUI as the LMF Series lasers, the Z height may be set in the software, or, optionally, adjusted automatically using a non-contact sensor that determines the part distance and adjusts laser focus. This can be done for parts with height differences up to 60 mm (with 254 mm f-theta lens).

LMF-AF is ideal for production marking different sized parts or for quickly locating focus in the R&D or prototype phase.

FOCUS RANGE

Z = Z Maximum

Z = 0

Z = Z Minimum

KEY FEATURES

- Adjustable focus to mark at different heights up to 60 mm apart
- Fast and precise motorized Z for easy adjustment focus
- Choice of f-theta lens: f-100 mm, f-160 mm, f-254 mm
- Maintains spot size and field size over focal range
- Powerful, user friendly software for easy programming
- Integration with PLC for operation in production lines
- Optional auto focus finder available

TYPICAL APPLICATIONS



Marking two surfaces on the same part



Marking parts of various heights

AUTO FOCUS OPTION

The auto focus feature detects and determines part height using a non-contact sensor. The height is communicated to the laser which adjusts focal height.

Two available sensor options: one for f-100 mm and f-160 mm, and another for f-254 mm.

The picture at the right shows the sensor and mounting bracket, sold separately.

Note: the depth sensor may also be integrated into a motion system, to drive the height of the Z-axis.



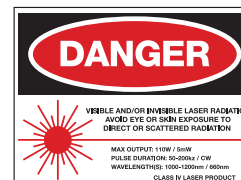
TECHNICAL SPECIFICATIONS

	LMF20-HP-AF	LMF20-SM-AF	LMF35-HP-AF
Laser power	20 W	20 W	35 W
Frequency range	2-500 kHz, CW	2-500 kHz, CW	2-500 kHz, CW
F-theta lens options	100 mm, 160 mm, 254 mm		
Focus range	f-100 mm – 10 mm f-160 mm – 24 mm f-254 mm – 60 mm		
Field size	f-100 mm – 36 mm x 36 mm f-160 mm – 76 mm x 76 mm f-254 mm – 142 mm x 142 mm		
Working distance*	f-100 mm – 97.5 ± 1 mm f-160 mm – 172.9 ± 2 mm f-254 mm – 295.9 ± 3 mm		
Electrical	85-260 VAC, 10 A		
Software	Winlase		

*The distance from the focus point to the lens assembly. Error value of the working distance does not relate to the process depth of focus.

WEIGHT & DIMENSIONS

	LMF20-HP-AF	LMF20-SM-AF	LMF35-HP-AF
Dimensions (L x W x H)	24.4 in x 6.9 in x 6.8 in (619.8 mm x 175.3 mm x 172.7 mm)**		
Weight	20 lbs (9.07 kg)		



**DXF and STEP files available upon request

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