



# FiberMINI® AF

FiberMINI® AutoFocus (AF) is a compact, lightweight design optimized for flatsheet Fiber Laser cutting. The head is capable of processing a wide range of materials with automatic, programmable focus. FiberMINI® AF delivers both user-friendly operation and reliable performance at an attractive price.

## Features

- Available with or without capacitive height sensing
- Temperature sensors protect optics and minimize the chance of overheating
- 15 mm of automatic lens movement to set focus
- Quick, toolless access to the sealed cover glass
- Flexible design allows a wide range of spot sizes
- Compact, lightweight design
- Nozzle cooling for use with highly reflective materials
- Sealed optics and purge air option
- End-user serviceable focus lens



*Laser Mechanisms' ultra-compact FiberMINI® AF easily integrates into modern, three-axis laser cutting machine designs.*

## Specifications

### CUTTING HEAD

Power Rating	up to 4 kW
Nominal Focusing Lens (Singlet, Fused Silica, $\lambda$ 1025-1080 nm)	100 mm, 125 mm, 150 mm, 200 mm
Clear Aperture	25 mm
Nozzle Orifices	1 mm to 4 mm
Nozzle Styles	Single Orifice, Double, Multi-Hole Shower, Custom
Assist Gas Pressure	up to 20 BAR
Focal Point To Nozzle Adjustment	-10 mm to +5 mm
Weight	~1.5 kg

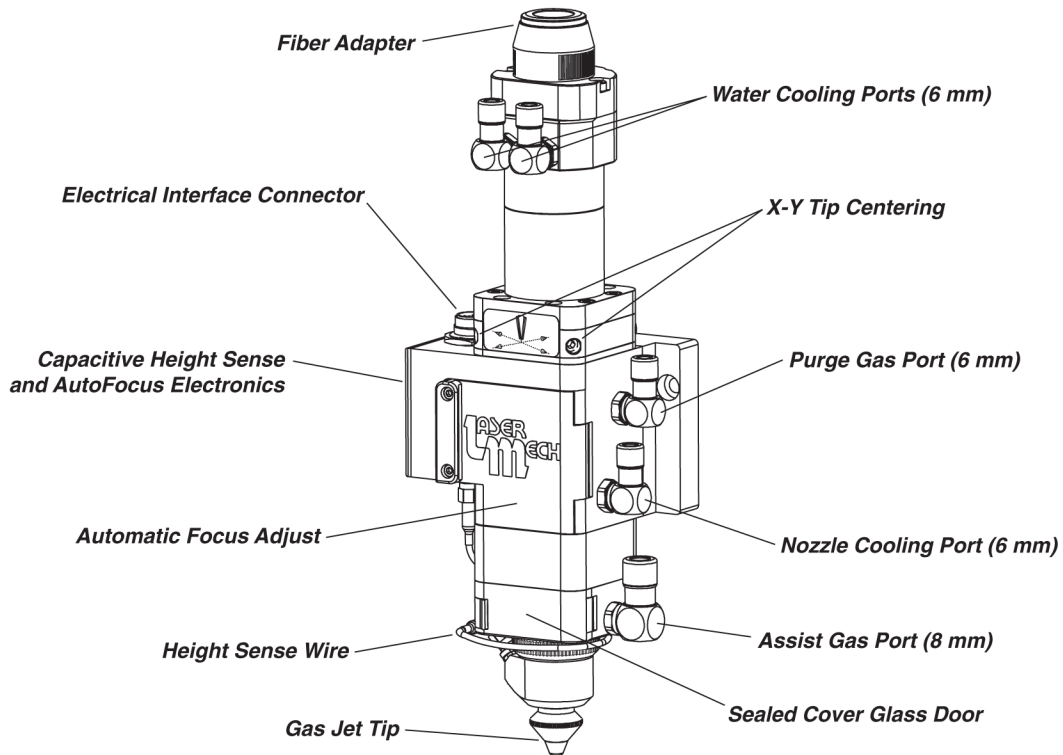
### LASER MECH® COLLIMATOR

Nominal Collimating Lens (Doublet, Fused Silica, $\lambda$ 1025-1080 nm)	35 mm, 60 mm, 75 mm, 100 mm
Clear Aperture	25 mm
Fiber Connection (Others Available On Request)	QBH (HLC-8), QD (LLK-D), LLK-B, PIPA-Q

### HEIGHT SENSOR

Standoff Distance Range (1 mm Recommended)	0.2 mm to 8.0 mm
Calibration	Auto Calibrating
Response Time	<1 msec.
Temperature Stability	±5% of Standoff Setting, 0° to 45° C
Power Requirement	24 V
Output (Optimized Curve For Flat Metal or Linear Signal)	0-10 V Analog

Specifications subject to change without notice.



*FiberMINI® AF shown with 100 mm collimator and 125 mm focal length. Other configurations available upon request.*

