



FiberMINI[®] ST

FiberMINI[®] Straight (ST) is a simple, yet flexible, design that allows the user to optimize the processing head to their specific Fiber Laser application. The head is capable of cutting a wide range of materials and is also available in various welding configurations. FiberMINI[®] ST 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
- 13 mm of lens movement to set focus
- Quick, toolless access to the sealed cover glass
- Flexible design to optimize a wide range of spot sizes
- Compact, lightweight design
- Nozzle cooling for use with highly reflective materials
- Purge air and sealed optics



Laser Mechanisms' ultra-compact FiberMINI[®] ST 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, λ 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 | -4 mm to +9 mm |
| Weight | ~1.5 kg |

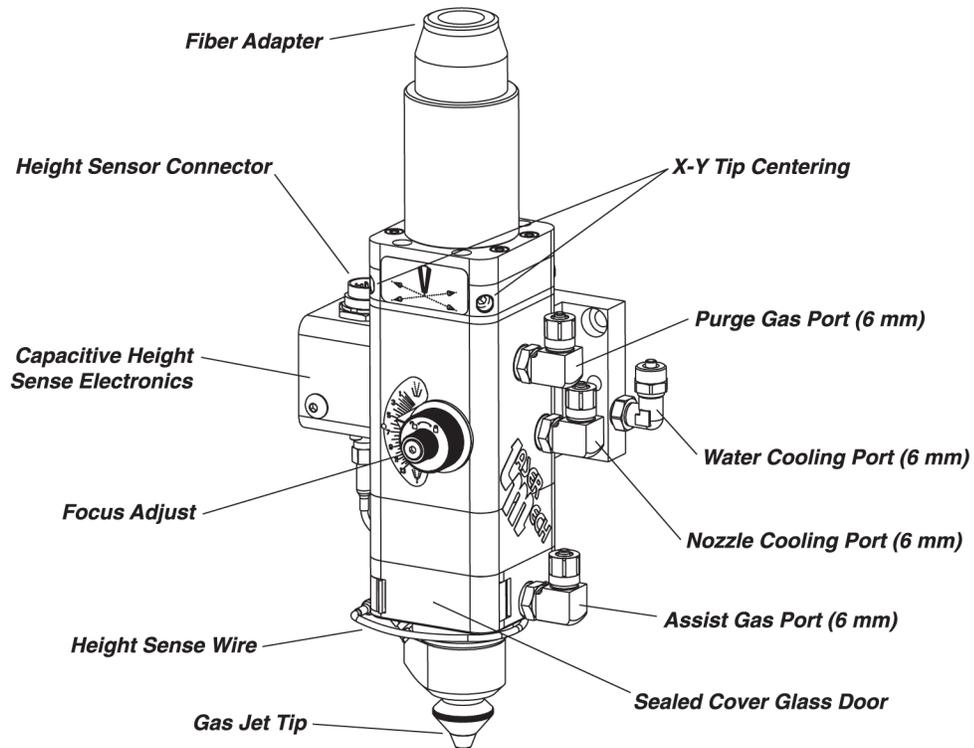
LASER MECH[®] COLLIMATOR

| | |
|--|-----------------------------|
| Nominal Collimating Lens (Doublet, Fused Silica, λ 1025-1080 nm) | 35 mm, 60 mm, 75 mm, 100 mm |
| Clear Aperture | 25 mm |
| Fiber Connection (Others Available On Request) | QBH, LLK-B, QD |

HEIGHT SENSOR

| | |
|--|--|
| Standoff Distance Range (1 mm Recommended) | 0.2 mm to 8.0 mm |
| Calibration | Auto Calibrating |
| Response Time | <1 msec. |
| Temperature Stability | $\pm 5\%$ 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® ST shown in cutting setup with 60 mm collimator and 125 mm focal length. Other configurations available upon request.

