

Fiber Laser Process Heads

Fiber laser process heads easily and safely focus laser beams toward an object.

We offer appropriate laser process heads for different power ranges. The modular design of the laser process heads makes it possible to customize a configuration according to the respective application.

Compact, PHFM-Series Laser Process Heads

One typical area of application of the PHFM series is the laser welding of synthetic materials at a power of approximately 100 W. In such applications, the compact design, easy handling, and last but not least attractive price are paramount.

The modular design of the PHFM series opens up a number of possibilities.

- Ø1" optics with different focal lengths available
- Easy-to-use SMA connector for connection to fiber
- Mount for protective window (optional)
- X-Y adjustment of lens (optional)
- Use with and without nozzle tip
- Gas connection (optional)



PHFM series

Robust Design of PHF-25 Series for Medium Power

PHF-25 series laser process heads are available for medium power levels of up to 2 kW.

The following features make this series particularly well suited for standard industrial applications:

- Typical wavelength: 1064 – 1070 nm
- Robust, industrial-strength design
- Uses standard Ø1.1" optics
- Free aperture of 22.8 mm
- QBH fiber connection
- Protective windows easily interchangeable
- Several standard focal lengths available
- X-Y adjustment of lens
- Gas connection for up to 25 bars



PHF-25 series

The G6F Series Exhibits Maximum User Friendliness at High Power Levels

One typical area of application of the G6F series for high power levels (up to 5 kW) includes high-speed cutting applications. In this series, the user friendliness plays a central role. The modular design of this series provides for maximum variability.

- Drawers (cartridges) for quick change of optics
- Drawers (cartridges) for interchangeability of protective glasses
- Very robust design for rough industrial conditions
- Standard Ø1.1" optics
- Several standard focal lengths and focal length combinations possible
- Free aperture of 24.6 mm
- Patented TLC™ optics for the reduction of thermal lenses can be used
- Gas connection for up to 25 bars
- Calibrated Z adjustment of nozzle tip
- X-Y adjustment of lenses



G6F series