



MPH-UKP

Modular laser processing head for ultrafast lasers

- Designed especially to the requirements of ultrafast laser applications
- Single mode imaging quality and a wide range of optical set-ups to choose from
- Defined opto-mechanical interfaces for modular extension
- Modular design with continuous modular extension
- Simple system integration / adaptation to the customer specific application

Technical data MPH-UKP

LLK Receptacle	PT-F (Photonic Tools flange design)
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Collimation module

Magnification **	1.33, 1.0, 0.67, 0.5 *
Focal length **	75, 100, 150, 200 mm *
Beam parameter acceptance (half angle of laser beam exiting the fiber)	50 mrad *
Wavelength	900 - 1100 nm *
Max. average laser power	1 kW (above 350 W cooling modules might be required)

Process monitoring / beam splitting module

Clear aperture	Ø 20 mm
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Beam shaping modules

Beam expander module
Rectangular beam shaping module
Fast scanning module

Focusing module

Magnification **	0.75, 1.0, 1.5, 2.0 *
Focal length **	75, 100, 150, 200 mm *
Clear aperture	Ø 20 mm
Mechanical interfaces to attached modules	

Process modules

Cover slide module Cutting nozzle Crossjet module

Monitoring modules

Cover slide monitor Cctv viewing Temperature monitoring Workpiece illumination
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All data subject to change without prior notice

* others on request, ** reference focal length 100 mm

