

trioFokus_50/80/150_1070

zoom collimator

Applications:

- Cutting
- Welding
- Cladding
- Hardening
- Applications based on fiber and fiber-coupled lasers

Features:

- Focal lengths 50 – 150 mm
- High transmission
- CA 48 mm
- Power up to 6 kW
- TEM₀₀ and multimode lasers
- Reduced thermal focus shift
- Common position of fiber end for focal lengths 50, 80, 150 mm
- Spectrum: 1020 - 1100 nm, other wavelengths by request



Specifications

Description	Quasi-zoom collimator, fixed focus position for 3 values of focal length
Focal length @ 1070 nm	<ul style="list-style-type: none"> • total range 50 – 150 mm • fixed position of fiber end: 50, 80, 150 mm
Input beam divergence	<ul style="list-style-type: none"> • maximum full beam angle 0.3 rad • optimum 1/e² full angle 0.16 rad • minimum 1/e² full angle 0.1 rad
Output clear aperture	48 mm
Spectral band	1020 – 1100 nm
Recommended maximum power	6 kW
Optical performance	<ul style="list-style-type: none"> • diffraction limited in working spectral band • angular field of view ± 1° • allowed off-axis shift of the fiber end ±0.5 mm
Water cooling	by 6-1/8 fittings
Mounting	<ul style="list-style-type: none"> • External thread M58x1 • Adaptor with QB fiber connector mount • correction of fiber end position along axis ±2 mm
Diameter	< 120 mm
Length	360 mm (with QB fiber connector mount)
Weight	< 5 kg

Specifications are subject to change without notice



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