

# trioFokus\_50/80/150\_1070

## zoom collimator

### Applications:

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

### Features:

- Focal lengths 50 – 150 mm
- High transmission
- CA 48 mm
- 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"> <li>• total range 50 – 150 mm</li> <li>• fixed position of fiber end: 50, 80, 150 mm</li> </ul>
Input beam divergence	<ul style="list-style-type: none"> <li>• maximum full beam angle 0.3 rad</li> <li>• optimum <math>1/e^2</math> full angle 0.16 rad</li> <li>• minimum <math>1/e^2</math> full angle 0.1 rad</li> </ul>
Output clear aperture	48 mm
Spectral band	1020 – 1100 nm
Optical performance	<ul style="list-style-type: none"> <li>• diffraction limited in working spectral band</li> <li>• angular field of view <math>\pm 1^\circ</math></li> <li>• allowed off-axis shift of the fiber end <math>\pm 0.5</math> mm</li> </ul>
Water cooling	by 6-1/8 fittings
Mounting	<ul style="list-style-type: none"> <li>• External thread M58x1</li> <li>• Adaptor with QB fiber connector mount</li> <li>• correction of fiber end position along axis <math>\pm 2</math> mm</li> </ul>
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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