Korund_1070

collimators for multi-kW lasers

Applications:

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

Features:

- Focal lengths (EFL) 50, 100, 120 mm
- High transmission
- Clear aperture (CA) up to 30 mm
- Reduced thermal focus shift
- Spectrum: 1020 - 1100 nm, other wavelengths by request

Specifications

Common	
Description	• collimators for fiber lasers and fiber-coupled solid-state and diode lasers • made of sapphire lenses providing reduced thermally induced focus shift and aberrations • adjustable Fiber End Position (FEP)
Spectral band	1020 – 1100 nm
Input beam divergence	• maximum full beam angle 0.25 rad • minimum $1/e^2$ full angle 0.08 rad
Optical Performance	• diffraction limited in working spectral band • angular field of view ±1° • allowed off-axis shift of the fiber end ±1 mm
Mounting	• External thread • Adaptor with QB fiber connector mount (D2-9626x01) • correction of the Fiber End Position (FEP) along the optical axis
Water cooling	• through 6-1/8 fittings • coating of water cooling channel: Al oxide

Features

Model	EFL, mm	output CA mm	Laser power kW	Range of the FEP along Z-axis, mm	Ø, mm	Length mm	Mounting thread	Weight kg
Korund_120_D30_1070	120	30	< 6	±9	67	< 186	M47x0.75	< 1.4
Korund_100_D30_1070	100	30	< 6	±9	67	< 186	M47x0.75	< 1.4
Korund_50_D20_1070	50	20	< 4	±5	< 63	< 146	M30x0.75	< 1

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