

Fiber Coupling Option

VALO Femtosecond Series | Ultrafast Fiber Lasers

The VALO Femtosecond Series ultrafast fiber lasers can be optionally equipped with a Fiber Coupling Option. This add-on module is attached to the laser chassis and offers the user plug-in ready beam routing.

The Fiber Coupling Option is specifically designed and optimized for the <50 fs pulses of the VALO Femtosecond Series featuring a large optical bandwidth. The integrated user-friendly dispersion pre-compensation of the VALO Femtosecond Series is fully compatible with the Fiber Coupling Option and can be used to compensate for additional dispersion in the external beam path after the fiber.

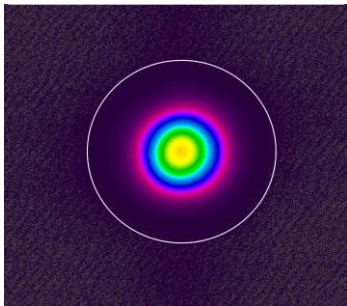
PARAMETER	SPECIFICATION
Coupling Efficiency	>75 %
Power Handling	up to 1 Watt
Fiber Numerical Aperture	0.017 ± 0.002
Mode Field Diameter	45 ± 3 µm
Fiber Output	Connectorized (e.g. FC/PC)

The Fiber Coupling Option can also be offered with a collimated beam output.

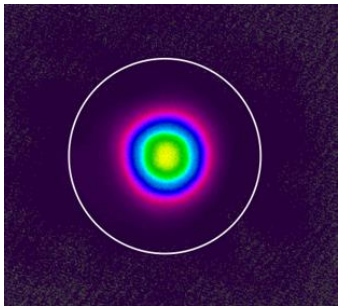
Typical Experimental Results

PARAMETER	LASER INPUT	FIBER OUTPUT
Pulse Duration (FWHM)	39 fs	43 fs
Spectral Bandwidth (-10 dB)	117 nm	116 nm

Far Field Beam Profile of Laser



Far Field Beam Profile After Fiber



Specifications and technical data are subject to change without notice due to technical developments.



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