



# Fibered UltraFast Laser System

Fully integrated ultrafast fibered laser



*Ultra-short pulse lasers – High peak power*

*Fully integrated system*

*High Beam Quality*

Micromachining



Surgery



Biomedical



# FULS specification (2), (3)

Working wavelength (nm)	1030 <sup>(1)</sup>
Energy ( $\mu$ J)	< 100 <sup>(1)</sup>
Beam Quality ( $M^2$ )	< 1.2
Average power (W)	> 14 <sup>(1)</sup>
Pulse duration	0.35 to 20 ps <sup>(1)</sup>
Burst Mode	Up to 8 pulses
Repetition rate	Single shot to 2MHz
Energy Stability (rms)	< 2% <sup>(3)</sup>

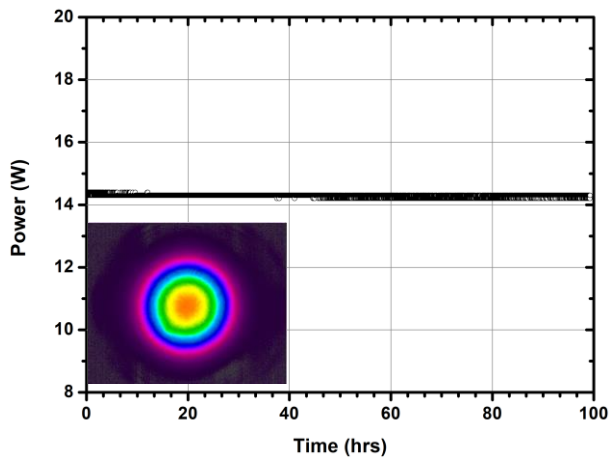
## Physical Properties

Footprint (L x W x H) (mm)	1200 x 600 x 218
Weight (kg)	60kg (excl. laser control unit)
Fiber length (m) <sup>(1)</sup>	2, 3, 5, 15
Gas/Vacuum connection	KF16
Water cooling connection	8mm push-in
Fiber protection <sup>(1)</sup>	13mm armored PU tube <sup>(1)</sup>
Cable min. bending radius (cm)	20
Output	Sealed round cell compatible with optional collimation

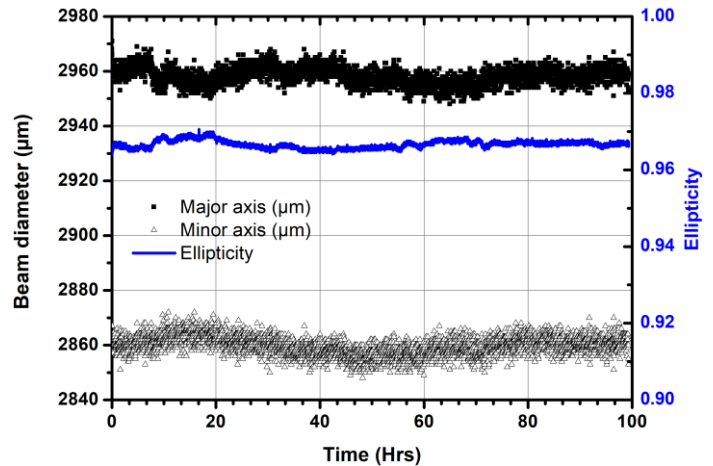
(1) Other upon request

(2) At nominal output power in steady-state operation (no pulse modulation or pulse repetition rate change)

(3) Over >8 hours after warm-up time at controlled ambient temperature (+/-1K), unless otherwise noted



100 hours fiber output power measurement showing 1.4 % peak to peak power stability.



100 hours fiber output beam dimension measurement showing 0.8 % peak to peak beam size stability.