

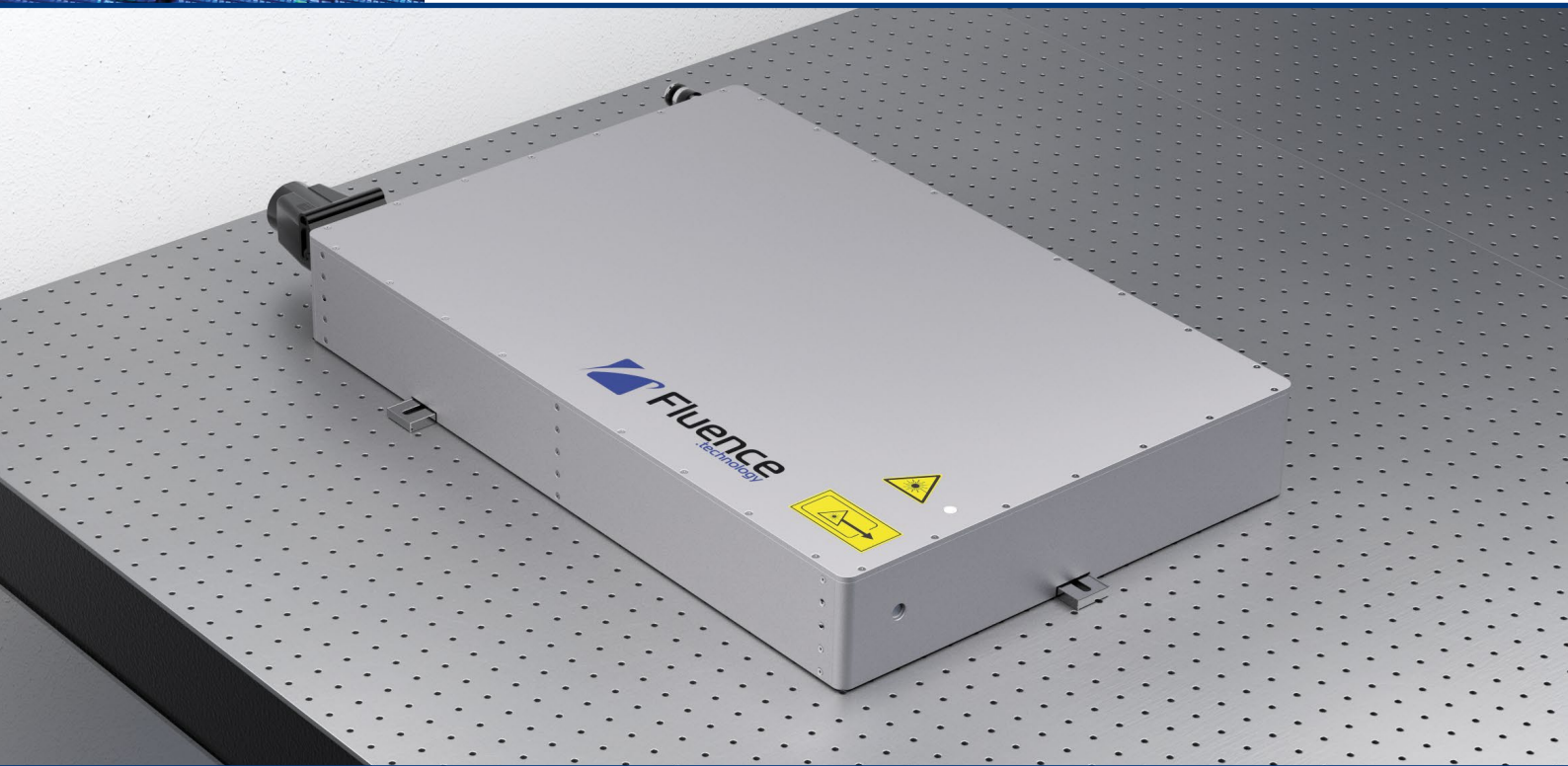


Ultrafast lasers that simply work

FOR INDUSTRY, SCIENCE AND MEDICINE

# Jasper Flex

Compact High Power Femtosecond Fiber Laser



Jasper Flex – our new high-power femtosecond laser for microprocessing. Its compact size makes it easy to use and to integrate. It delivers pulses with a maximum energy of 30  $\mu\text{J}$ , up to 1 MHz repetition rate. The user-configurable burst mode brings new capabilities in industries manufacturing consumer electronics, integrated photonics, and displays. Contrary to free-space lasers, our all-fiber, SESAM-free technology ensures unbeatable beam pointing stability resulting in an outstanding lifetime even in a harsh environment.

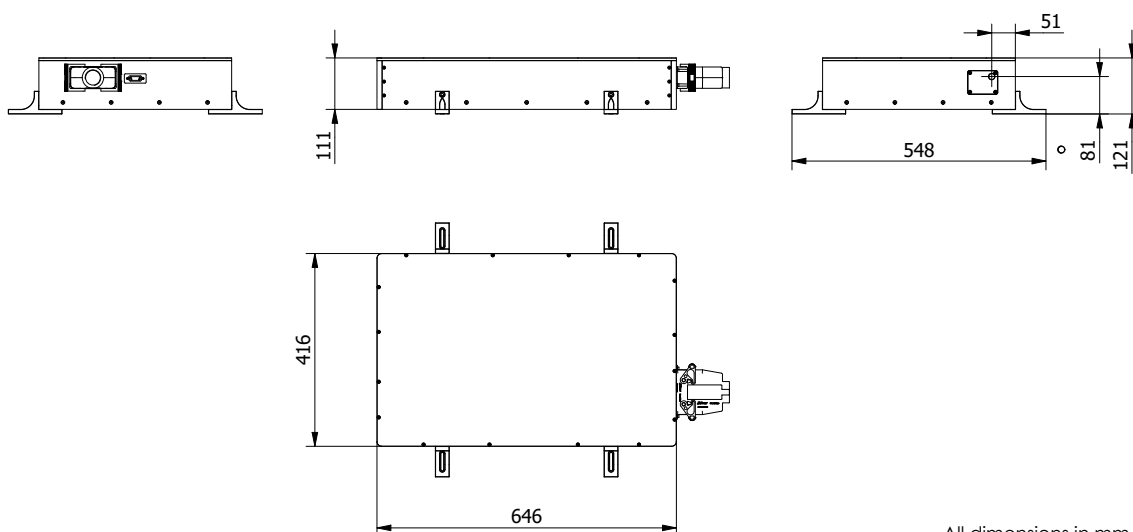
### Technical specification:

Maximum average power	>30 W @ 1030 nm (ask for higher)
Maximum pulse energy	>30 $\mu$ J up to 1 MHz @ 1030 nm (ask for higher)
Base repetition rate	20 $\pm$ 2.5 MHz
Two-stage repetition rate tuning, selectable with control software	1 MHz - 20 MHz, internal repetition rate Single Pulse - 1 MHz, realized with built-in pulse picker
Pulse duration	<270 fs FWHM (< 250 fs typ.)
Pulse duration tuning	<270 fs - 8 ps, software-controlled (optional wide tuning up to 20 ps)
Wavelength	1030 $\pm$ 5 nm
Optional wavelength outputs	With Harmonic Generation Module (HGM): 515 nm, 343 nm, 258 nm
Polarization	Linear, vertical
Beam quality $M^2$	<1.3 (<1.15 typical)
Output beam waist diameter $1/e^2$	2.0 $\pm$ 0.5 mm (ask for other)
Burst mode for process enhancement included	
6U, 19" rack-mountable chiller included	
External gating trigger included	
External analog power modulation included	
Laser control software included	
Pulse on demand included	

**Not exactly what you are looking for?**  
**Get in touch with us and let us help you out.**

### Physical specification:

Size	646 (L) x 416 (W) x 111 (H) mm <sup>3</sup>
Power supply unit size	3U rack: 485 (W) x 496 (D) x 133 (H) mm <sup>3</sup>
Electrical	100-240 V AC, 50-60 Hz, <300 W
Operating temperature	15-35 °C
Operating humidity	Non-condensing
Chiller size	3U rack: 485 (W) x 376 (D) x 132 (H) mm <sup>3</sup>
Chiller electrical	100-240 V AC, 50-60 Hz, 10.0 A



All dimensions in mm

All specifications are subject to change without prior notice due to continuous improvements.