

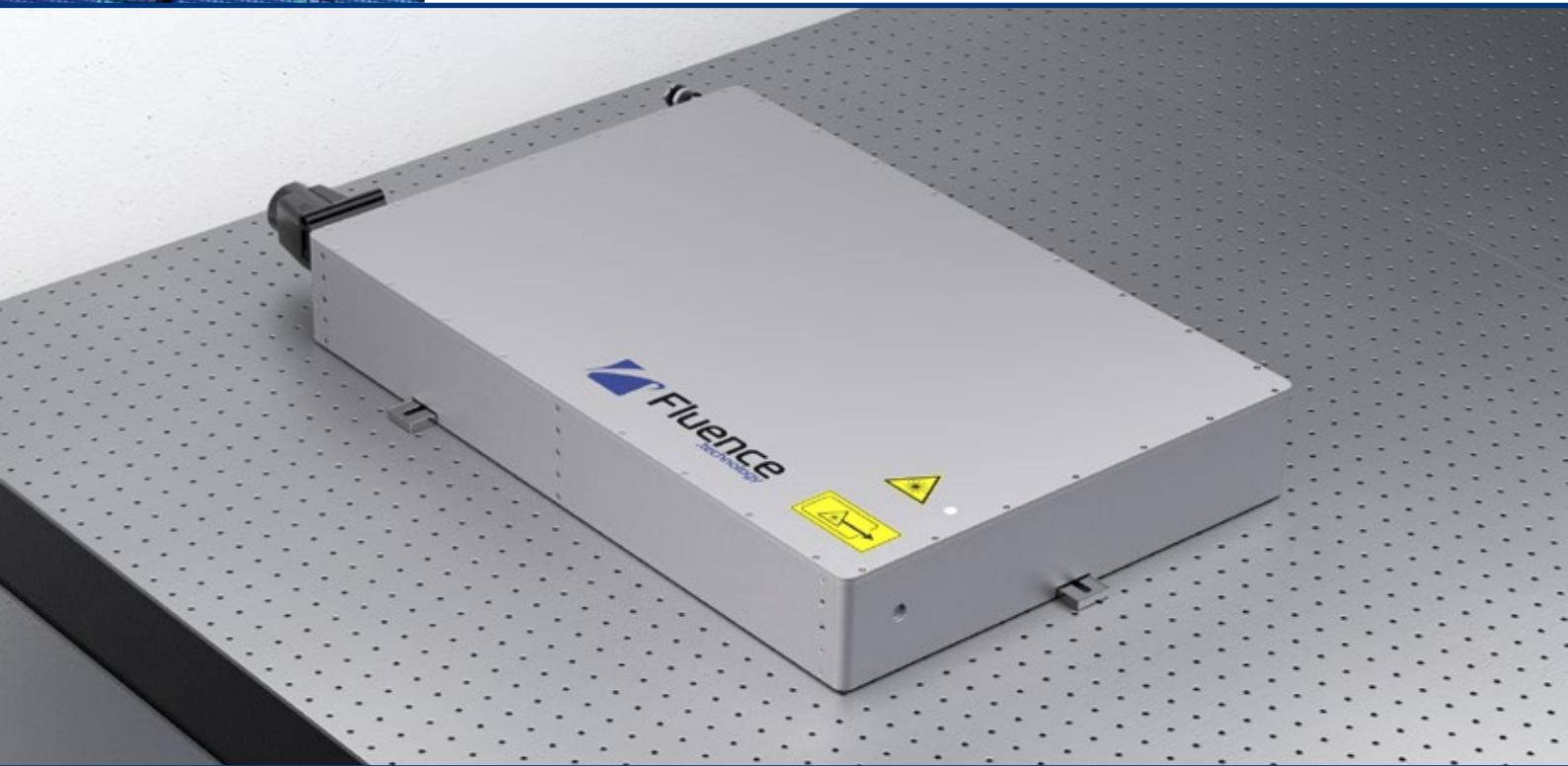


Ultrafast lasers that simply work

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.

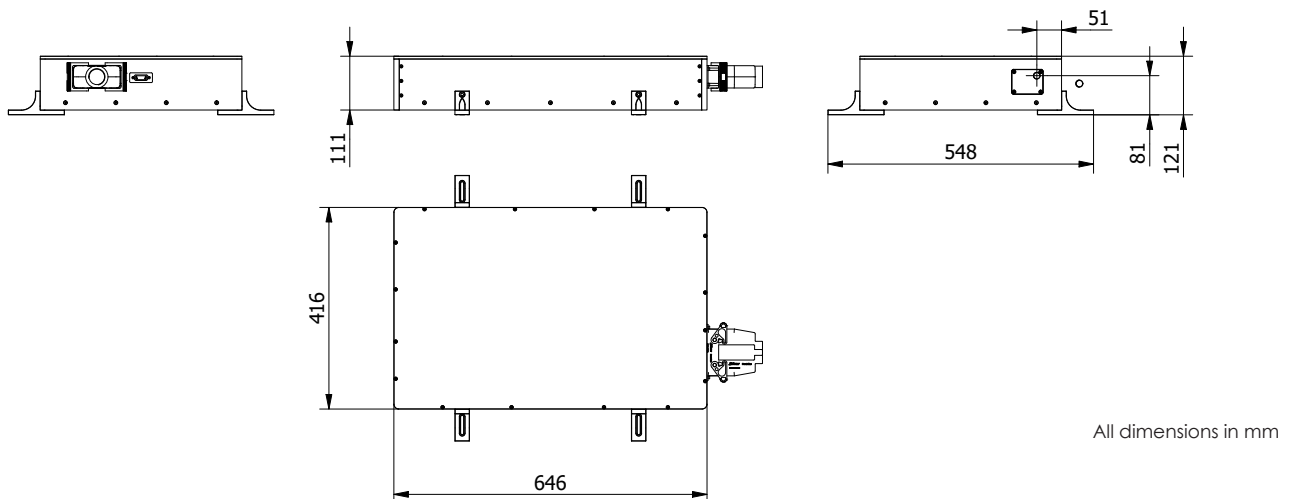
**Technical specification:**

Maximum average power	30 W
Maximum pulse energy	30 μJ
→ at repetition rate up to	1 MHz
Two stage repetition rate tuning	Selectable with control software
→ Internal repetition rate	200 kHz - 20 MHz
→ Pulse picker	Single pulse - 2 MHz
System base repetition rate	20 ± 2 MHz
Pulse duration	< 250 fs (FWHM)
Pulse duration tuning	< 250 fs – 8 ps (optional 250 fs – 20 ps)
Central wavelength	1030 ± 5 nm
Optional wavelength outputs	With Harmonic Generation Module (HGM): <b>515 nm, 343 nm, 258 nm</b>
Built-in pulse picker	Pulse on demand, any division of the base repetition rate
Beam quality (M <sup>2</sup> )	<1.3 (typical <1.2)
Polarization	Linear, vertical
Burst mode for process enhancement	Included
External gating trigger	Included
Laser control software	Included

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

**Physical specification:**

Size / weight	646 (L) x 416 (W) x 111 (H) mm <sup>3</sup> / 40 kg
Power supply unit size / weight	3U 19" rack unit: 483 (W) x 376 (D) x 133 (H) mm <sup>3</sup> / 13 kg
Electrical	100 – 240 V AC, 50 - 60 Hz, < 620 W
Operating temperature	15 – 35 °C
Operating humidity	30 – 70 % relative humidity, non-condensing
Chiller size	6U 19" (ask for other options)
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.



Address: Fluence sp. z o.o., ul. Kasprzaka 44/52, Warsaw, Poland  
Phone: +48 797 890 595, e-mail: info@fluence.pl,  
<https://Fluencetechnology.com>, <https://Fluence.technology>