Preliminary

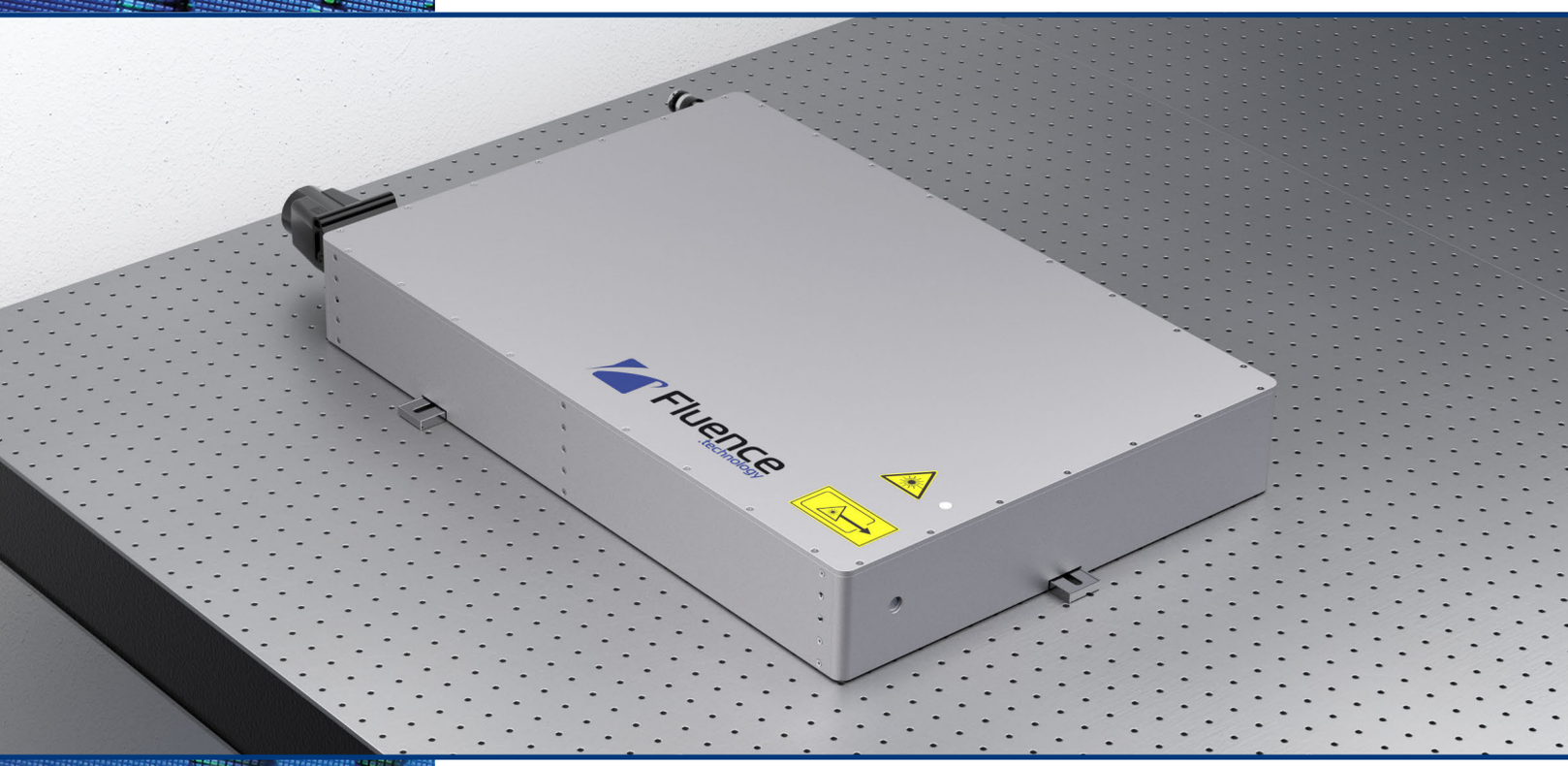
Fluence .technology

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 uJ, 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.

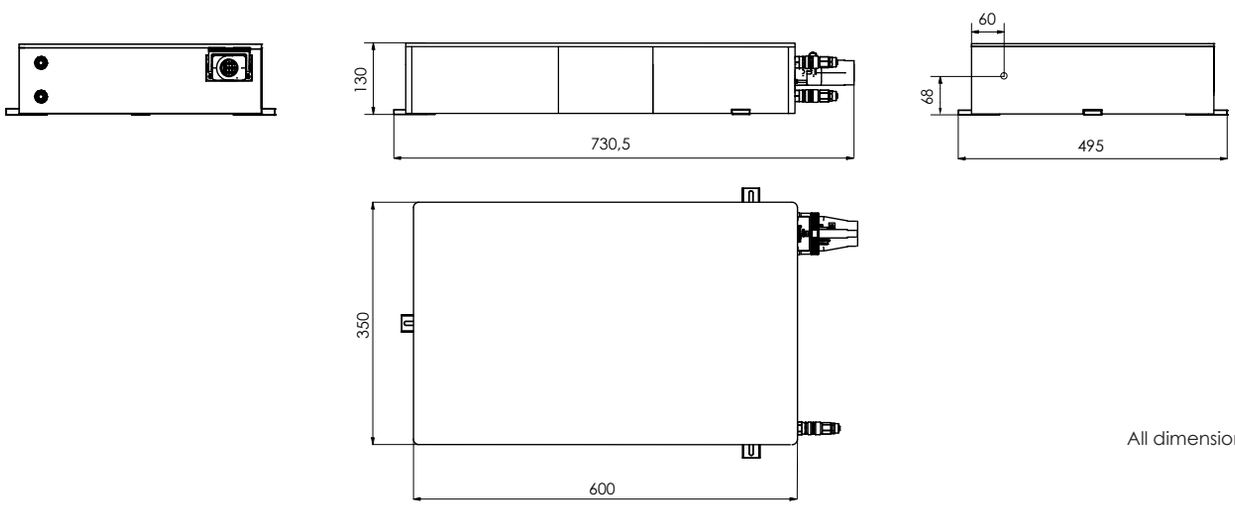
Technical specification:

Maximum average power	30 W
Maximum pulse energy	30 µJ @ 1 MHz rep rate
System base repetition rate	20 ± 2 Mhz
Two stage repetition rate tuning selectable with control software	0 kHz – 1 MHz, pulse picker 1 MHz – 20 MHz, internal repetition rate
Pulse duration	< 250 fs (FWHM)
Pulse duration tuning	< 250 fs – 5 ps (optional 250 fs – 20 ps)
Central wavelength	1030 ± 5 nm
Optional wavelength outputs	515 nm, 343 nm, 258 nm
Built-in pulse picker	Pulse on demand, any division of the base repetition rate
Beam quality (M^2)	< 1.3
Polarization	Linear, vertical
Burst mode for process enhancement	Included
Extrenal gating	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	600 (L) x 350 (W) x 130 (H) mm^3
Power supply unit size	3U rack: 485 (W) x 376 (D) x 132 (H) mm^3
Electrical	100 – 240 V AC, 50 – 60 Hz, < 250 W
Operating temperature	15 – 35 °C
Operating humidity	Non-condensing
Chiller size	3U rack: 485 (W) x 376 (D) x 132 (H) mm^3
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.

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