Fluence .technology

NEW!

5 µJ compact laser

Jasper Micro

Compact Femtosecond Fiber Laser

Femtosecond fiber lasers
superior lifetime & performance

Jasper Micro is a compact, all-fiber femtosecond laser that delivers up to 7 W of average power and up to 5 µJ of pulse energy. It is a passively cooled unit that can be mounted in any position to allow easy integration. Jasper Micro is a simplified, cost-effective construction developed to minimize maintenance, making it a perfect source for OEM applications.

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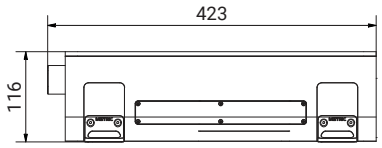
Technical specification:

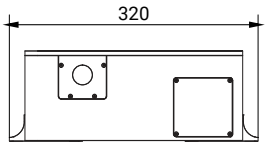
Central wavelength	1030 ± 5 nm
Maximum average power	7 W
Base repetition rate	20 ± 2 MHz
Two stage repetition rate tuning selectable with control software	1 - 20 MHz, internal repetition rate Single Pulse - 2 MHz, realized with built-in pulse picker. Pulse on demand available.
Maximum pulse energy	5 µJ up to 1.4 MHz @ 1030 nm
Maximum burst energy	20 µJ at 200 kHz @1030 nm
Pulse duration	< 270 fs FWHM @ 5 µJ
Pulse duration tuning	< 270 fs - 8 ps, software-controlled
Beam quality M^2	<1.2
Output beam waist diameter $1/e^2$	2.5 ± 0.5 mm (ask for other options)
Burst mode	Optional (ask for availability)
Polarization	Linear, vertical
External analog modulation	Included
External gating trigger	Included
Laser control software	Included
Pulse on demand	Included

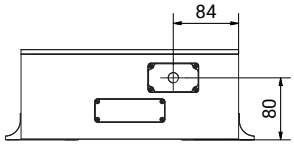
Not exactly what you are looking for?
Get in touch with us and let us help you out.

Physical specification:

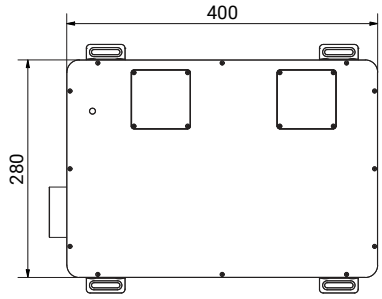
Size	400 (L) x 280 (W) x 116 (H) mm^3
Power supply unit size	4U 19" rack unit; 449 (W) x 495 (D) x 177 (H) mm^3
Power supply unit weight	13 kg
Electrical	100 - 240 V AC, 50 - 60 Hz, < 300 W
Operating temperature	15 - 30°C
Cooling	Passive cooling, no fans in laser head



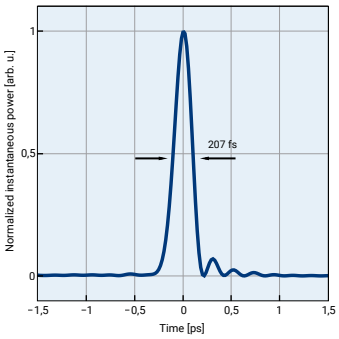




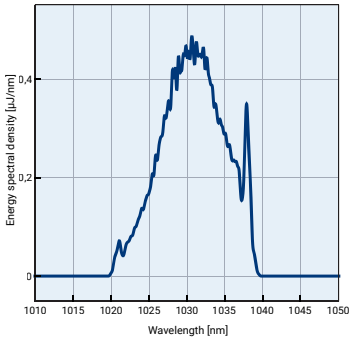
All dimensions in mm



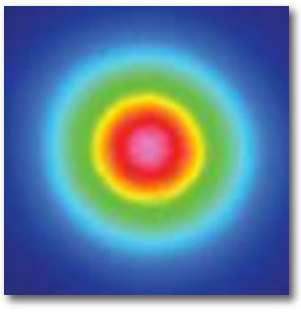
Typical temporal profile



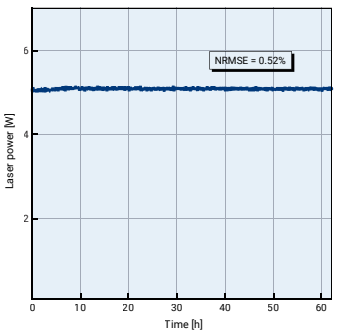
Typical spectral profile



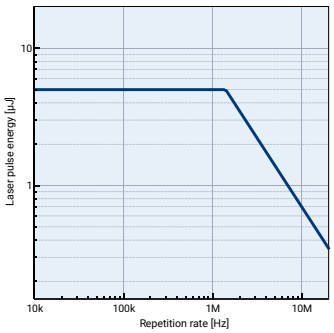
Typical beam profile



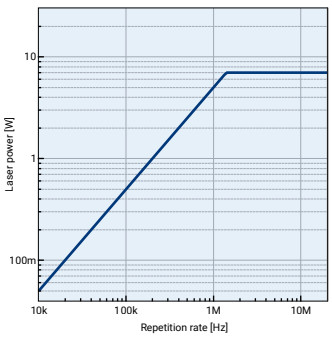
Typical power stability



Pulse energy vs. repetition rate



Laser power vs. repetition rate



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

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Fluence sp. z o.o., ul. Kolejowa 5/7, 01-217 Warszawa, Poland
+48 22 1189 600 sales@fluence.technology https://fluence.technology

DANGER LASER 4
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION

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