



**NEW!**

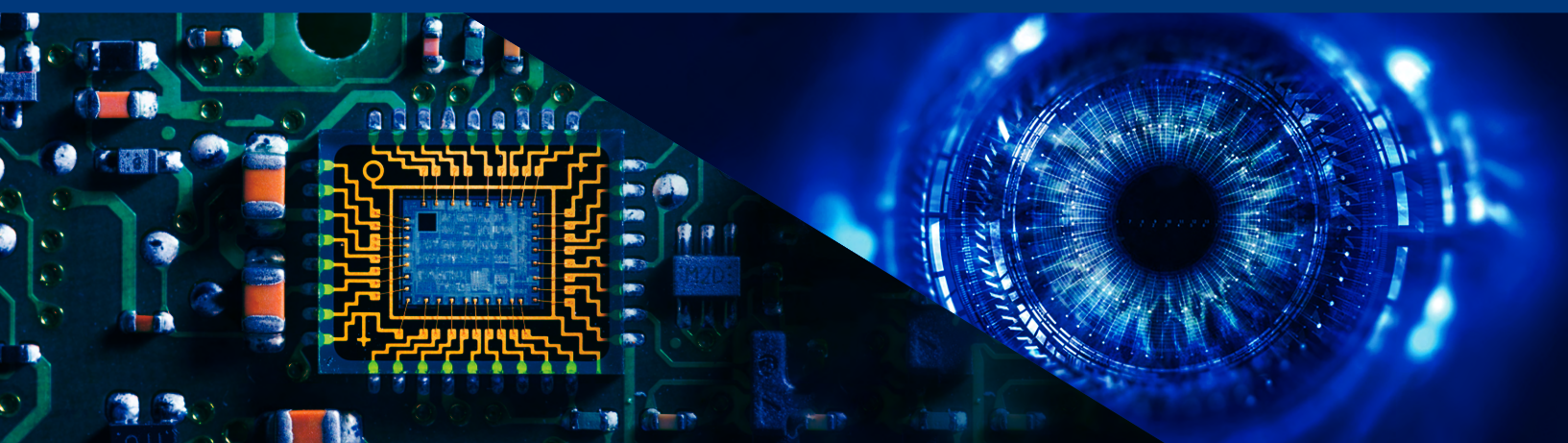
5  $\mu$ J compact laser

# 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  $\mu$ J of pulse energy. It is an air-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.



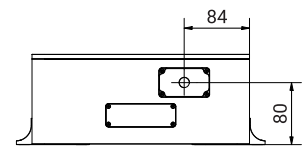
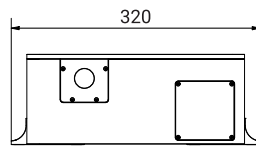
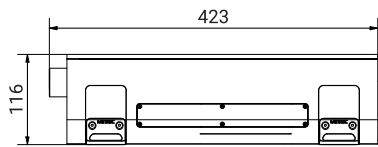
### Preliminary specification:

Wavelength	1030 ± 5 nm
Average power	> 5 W @ 1 MHz (> 7 W @ 20 MHz)
Base repetition rate	20 ± 2.5 MHz
Two stage repetition rate tuning selectable with control software	1 - 20 MHz, internal repetition rate Single Pulse - 1 MHz, realized with built-in pulse picker
Material dispersion compensation	up to 100 000 fs <sup>2</sup>
Pulse energy	> 5 μJ @ up to 1 MHz
Power stability	< 0.5% RMS @ 12h
Pulse duration	< 270 fs @ 5 μJ
Pulse duration tuning	< 270 fs - 8 ps (< 270 fs - 20 ps optional)
Beam quality M <sup>2</sup>	< 1.2
Beam diameter	2.0 ± 0.2 mm (ask for other)
Cooling	Air-cooled
Polarization	Linear, vertical
External analog modulation	Included
External gating trigger	Included
Laser control software	Included

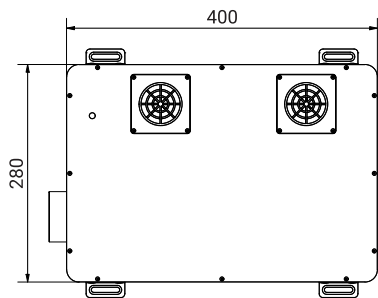
**Not exactly what you are looking for?**  
**Get in touch with us and let us help you out.**

### Technical specification:

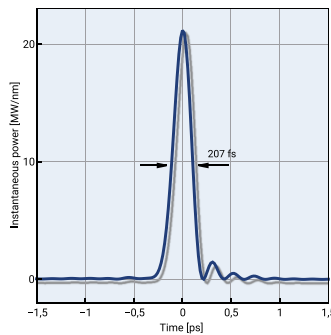
Laser head size	400 (L) x 280 (W) x 116 (H) mm <sup>3</sup>
Power supply unit size	4U 19" rack unit; 449 (W) x 495 (D) x 177 (H) mm <sup>3</sup>
Power supply unit weight	13 kg



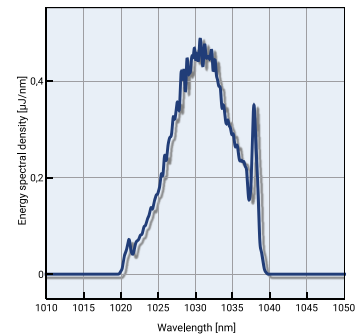
All dimensions in mm



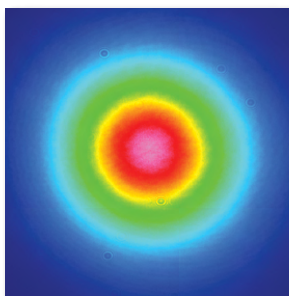
Typical temporal profile



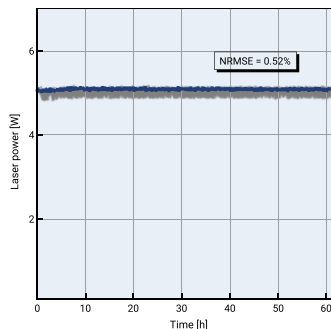
Typical spectral profile



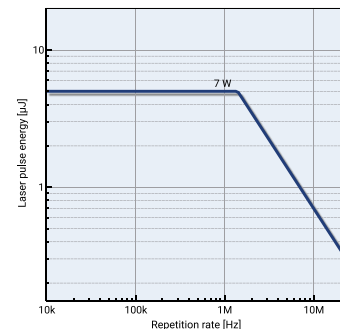
Typical beam profile



Typical power stability



Pulse energy vs. repetition rate



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