

Femtosecond fiber lasers superior lifetime & performance

Jasper X0 is a 1030 nm high-power femtosecond laser, delivering pulses with energy up to 200 μJ and 60 W of average power.

With a truly monolithic all-fiber amplified oscillator inside this laser provides fast warm-up time. Furthermore, you can count on unprecedented long-term stability and hands-free operation. The heart of the system is our unique truly all-fiber oscillator. Thanks to its unique construction and SESAM-free technology Jasper is amazingly robust and reliable. Additionally, the fiber amplifiers ensure unbeatable beam pointing stability even in a harsh environment — unlike the free-space constructions.





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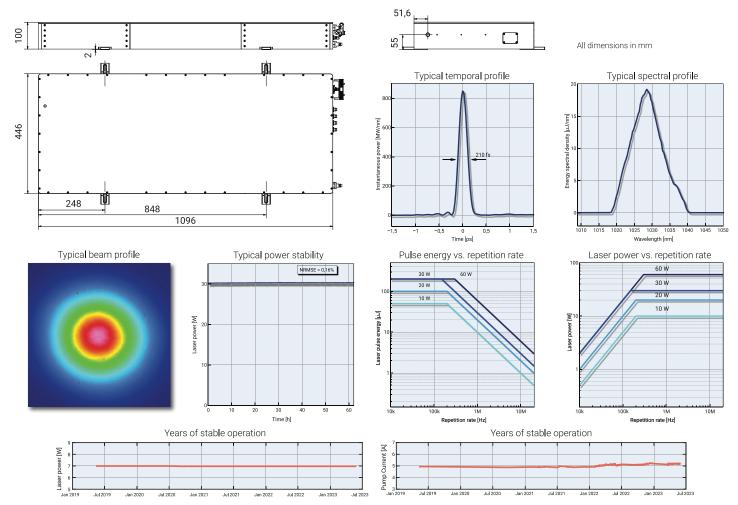
Technical specification:

	Jasper X0-10	Jasper X0-20	Jasper X0-30	Jasper X0-60
Maximum average power	> 10 W	> 20 W	> 30 W	> 60 W
Maximum pulse energy	> 50 µJ	> 100 µJ	> 200 µJ	> 200 µJ
At repetition rate up to	200 kHz	200 kHz	150 kHz	300 kHz
System base repetition rate	20 ± 2.5 MHz			
Two stage repetition rate tuning selectable with control software	200 kHz - 20 MHz, internal repetition rate Single Pulse - 2 MHz, realized with built-in pulse picker			
Pulse duration	< 270 fs FWHM (< 250 fs typical)			
Pulse duration tuning	< 270 fs – 8 ps (< 270 fs - 20 ps optional)			
Central wavelength	1030 ± 5 nm			
Optional wavelength outputs	With Harmonic Generation module (HGM): 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 (< 1.15 typical)			
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	1096 (L) x 446 (W) x 100 (H) mm³	
Power suply unit size	3U 19" rack unit: 485 (W) x 376 (D) x 133 (H) mm³	
Electrical	100 - 240 V AC, 50 - 60 Hz, < 620 W	
Operating temperature	15-35°C	
Operating humidity	Non-condensing	
Chi ll er size	6U 19" rack unit: 485 (W) x 653 (D) x 267 (H) mm ³	



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









