

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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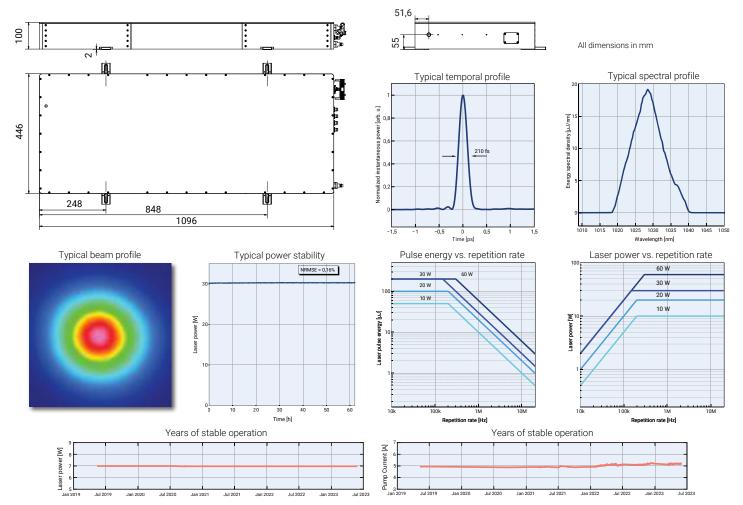
Technical specification:

		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
Maximum burst energy		100 μJ	200 μJ	300 µJ	200 μJ
Base repetition rate		20 ± 2 MHz	20 ± 2 MHz	20 ± 2 MHz	20 ± 2 MHz
Repetition rate tuning	Internal	200 kHz - 20 MHz	200 kHz - 20 MHz	150 kHz - 20 MHz	300 kHz - 20 MHz
	Pulse picker	Single Pulse - 2 MHz	Single Pulse - 2 MHz	Single Pulse - 2 MHz	Single Pulse - 2 MHz
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 (available upon request)			
Built-in pulse picker		Pulse on demand, any division of the base repetition rate			
Beam quality M ²		< 1.2 (<1.1 typical)			
Output beam diameter 1/e ²		2.5 ± 0.5 mm (other available upon request)			
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) mm ³		
Power suply unit size	3U 19" rack unit: 485 (W) x 376 (D) x 133 (H) mm ³		
Electrical	100 - 240 V AC, 50 - 60 Hz, < 620 W		
Operating temperature	15 - 35°C		
Operating humidity	Non-condensing		
Chiller Water chiller required (available upon request)			



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









