



### Ultrafast lasers that simply work

FOR INDUSTRY, SCIENCE AND MEDICINE



High Power Femtosecond Fiber Laser



Jasper is a 1030 nm high-power femtosecond fiber laser, delivering pulses with energy up to 100 µJ and 60 W of average power. With truly monolithic all-fiber front-end this laser provides fast warm-up time, unprecedented long-term stability and hands-free operation. Contrary to free space laser amplifiers, fiber amplifiers ensure unbeatable beam pointing stability even in harsh environment.

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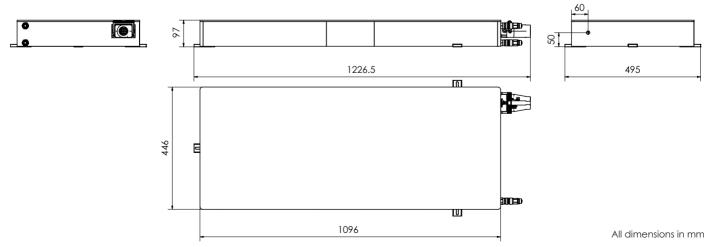
#### **Technical specification:**

	Jasper 10	Jasper 20	Jasper 30	Jasper 60
Maximum average power	> 10 W	> 20 W	> 30 W	> 60 W
Maximum pulse energy	> 50 µJ	> 100 µJ	> 100 µJ	> 100 µJ
Two stage repetition rate tuning:	selectable with control software			
Internal repetition rate	200 kHz – 2	20 MHz	300 kHz – 20 MHz	600 kHz – 20 MHz
Pulse picker	0 Hz – 1 MHz			
System base repetition rate	20 ± 2 MHz			
Pulse duration	< 250 fs (FWHM)			
Pulse duration tuning	< 250 fs – 8 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 (M²)	< 1.3 (typical <1.2)			
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:

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Size	1096 (L) x 446 (W) x 97 (H) mm <sup>3</sup>		
Power supply unit size	3U 19" rack unit: 485 (W) x 376 (D) x 132 (H) mm³		
Electrical	100 – 240 V AC, 50 - 60 Hz, < 250 W		
Operating temperature	15 – 35 °C		
Operating humidity	Non-condensing		
Chiller size	6U 19" (ask for other options)		
Chiller electrical	100 – 240 V AC, 50 – 60 Hz, < 10.0 A		



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