

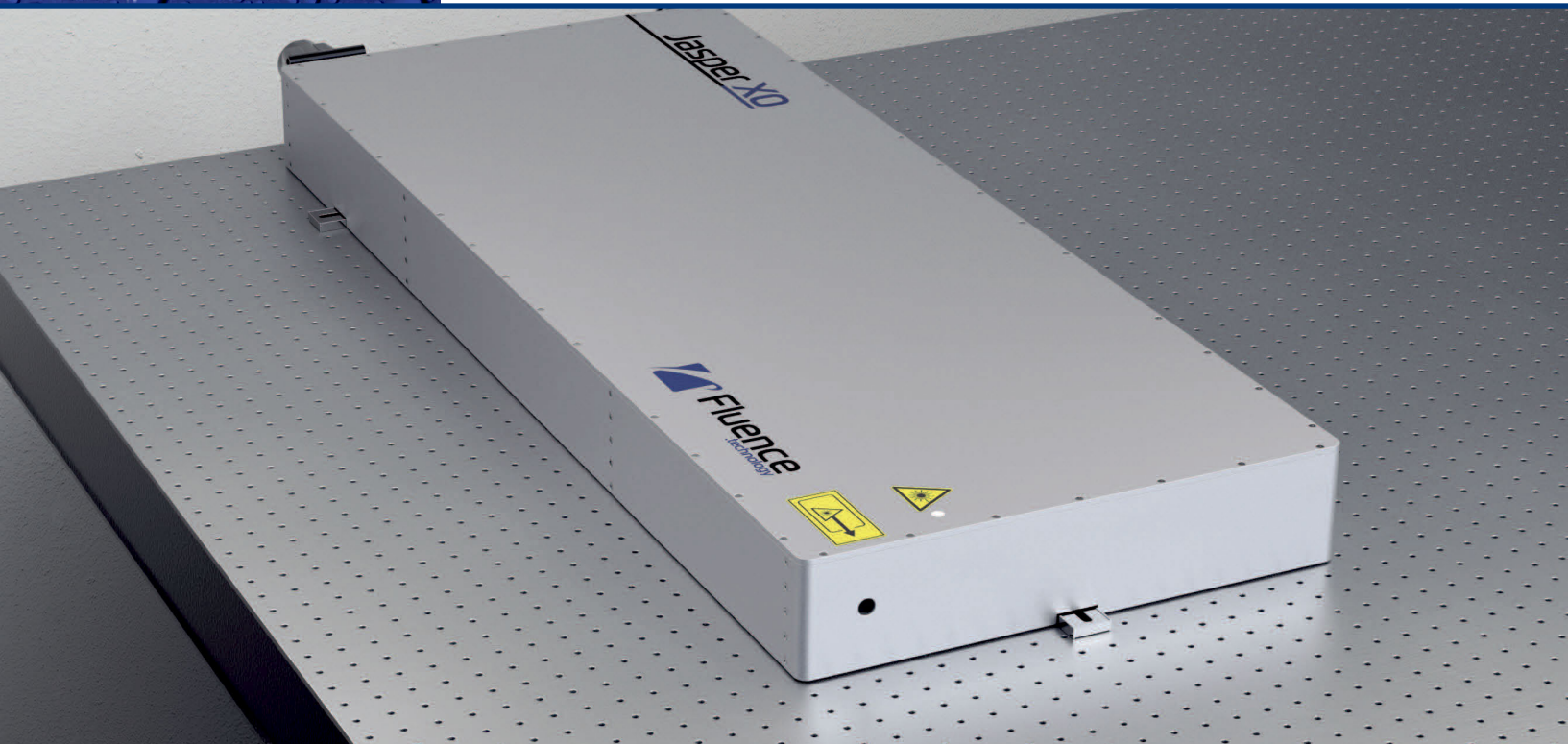


Ultrafast lasers that simply work

FOR INDUSTRY, SCIENCE AND MEDICINE

Jasper XO

High Power Femtosecond Fiber Laser



Jasper is a 1030 nm high-power femtosecond fiber laser, delivering pulses with energy up to 100 μ J 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.

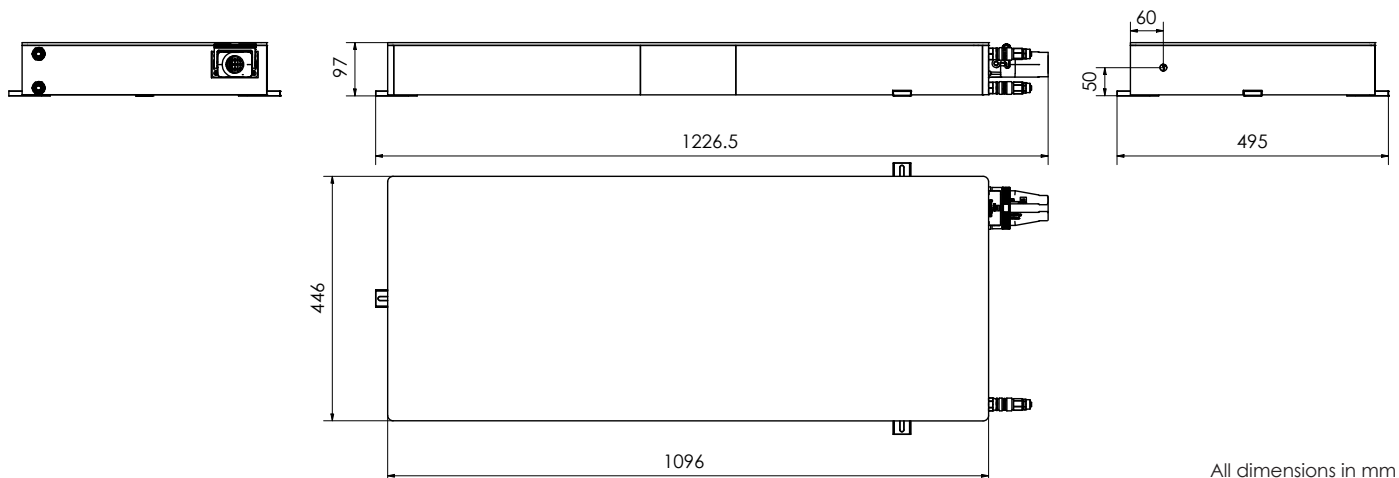
Technical specification:

| | 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 – 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 (M ²) | < 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:

| | |
|------------------------|---|
| Size | 1096 (L) x 446 (W) x 97 (H) mm ³ |
| Power supply unit size | 3U 19" rack unit: 485 (W) x 376 (D) x 132 (H) mm ³ |
| 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 dimensions in mm

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