

BOREAS

IR, GREEN & UV HIGH POWER FIBER LASER

Wavelength	Average power / Laser type		
	HF High Frequency	HE High Energy	HP High Power
IR 1030 nm	30 to 60 W	30 to 60 W	150 to 300 W
GREEN 515 nm	15 to 30 W	–	70 W
UV 343 nm	7 W	–	–

General features

Repetition rate	up to 300 kHz
Pulse duration	down to 10 ns
Pulse energy	up to 2 mJ
Beam characteristics	M² down to 1.1 and linear polarization



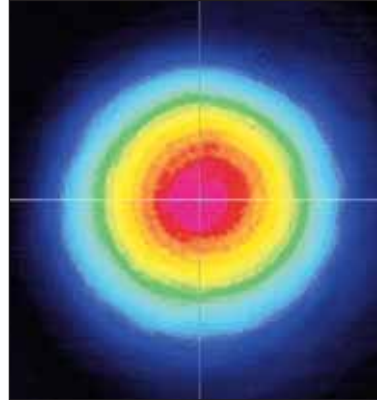
VIA DRILLING_
DEEP ENGRAVING_
SCRIBING & CUTTING_
POLYMER MARKING_
PHOTOVOTAÏC PROCESSING_

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KEY FEATURES

- _High peak power: up to 200kW
- _Short pulses duration: down to 10ns
- _Diffraction limited beam quality: $1.1 < M^2 < 2$
- _Excellent beam stability
- _Ruggedized for 24/7 industrial applications
- _External water cooling device
- _External synchronisation mode
- _Remote control via RS-232
- _Multiple customized optical interfaces



High Power Pulsed Fiber Lasers

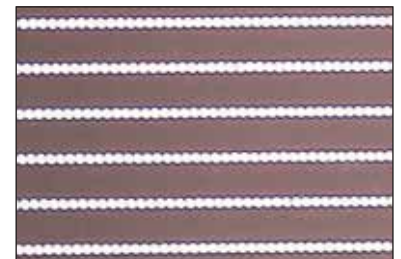
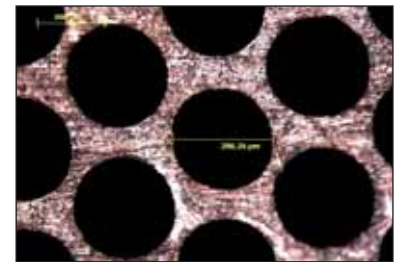
Boreas lasers are based on a new generation of "Rod-type Fibers" designed to provide high-energy pulses together with a very good beam quality. The patented fiber and resonator designs insure a polarized diffraction-limited beam with sub 10ns pulses and repetition rates up to 300kHz.

Fiber Lasers for visible and UV applications

Boreas unique design provides high average power at 515nm and 343nm together with short pulses at very high repetition rates.

Industrial standard

Rugged head design and customized control system provide solutions ideally suited for industrial applications. Standard serial interfaces and multiple synchronization mode into OEM equipment and process lines allows very easy integration.

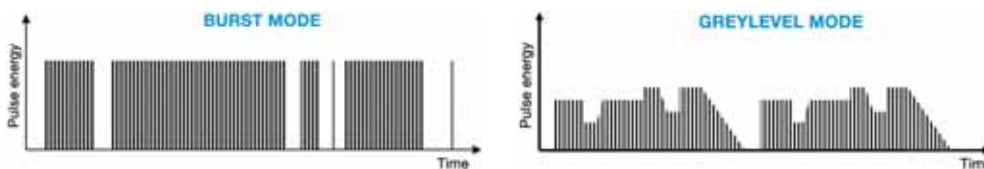


OPTIONS

Pulse-on demand

PULSE-ON DEMAND option has been developed to deliver bursts (from single to unlimited number of pulses) at any pulse-to-pulse energy levels.

In burst mode, this option enables to deliver constant pulse energies from single to unlimited pulses bursts. In Greylevel mode, customer can design any kind of burst envelop of any length.



Fiber delivery

Fiber output for specific integration design. Different fiber models are offered depending on spotsizes and divergence requested for the application.

Dual wavelength

Dual wavelength 1030nm/515nm is available on demand for scientific applications.

