

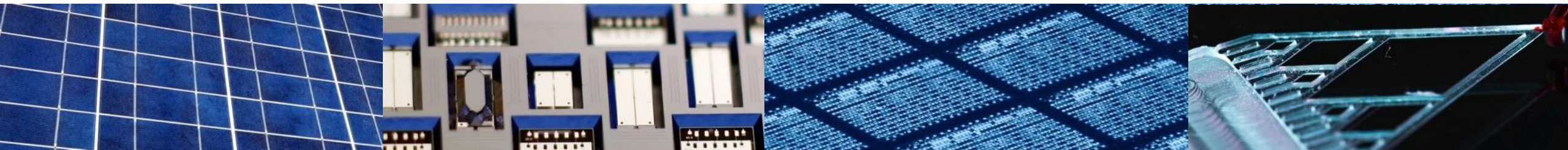


Jasper Flex – all fiber, SESAM-free, high power femtosecond laser

<https://Fluence.technology/>

EPIC Members New Product Release
Dr. Dariusz Świerad, Business Development Manager

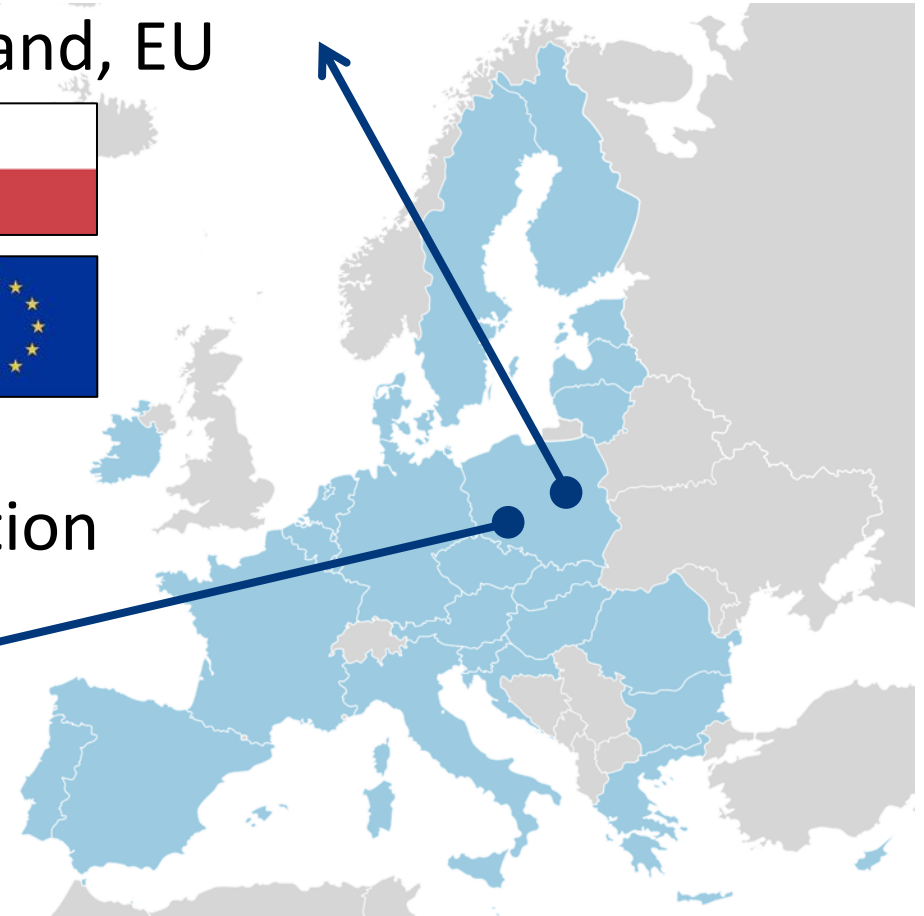
14 October 2020



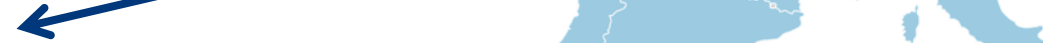
Fluence location



Headquarters in Warszawa,
Poland, EU

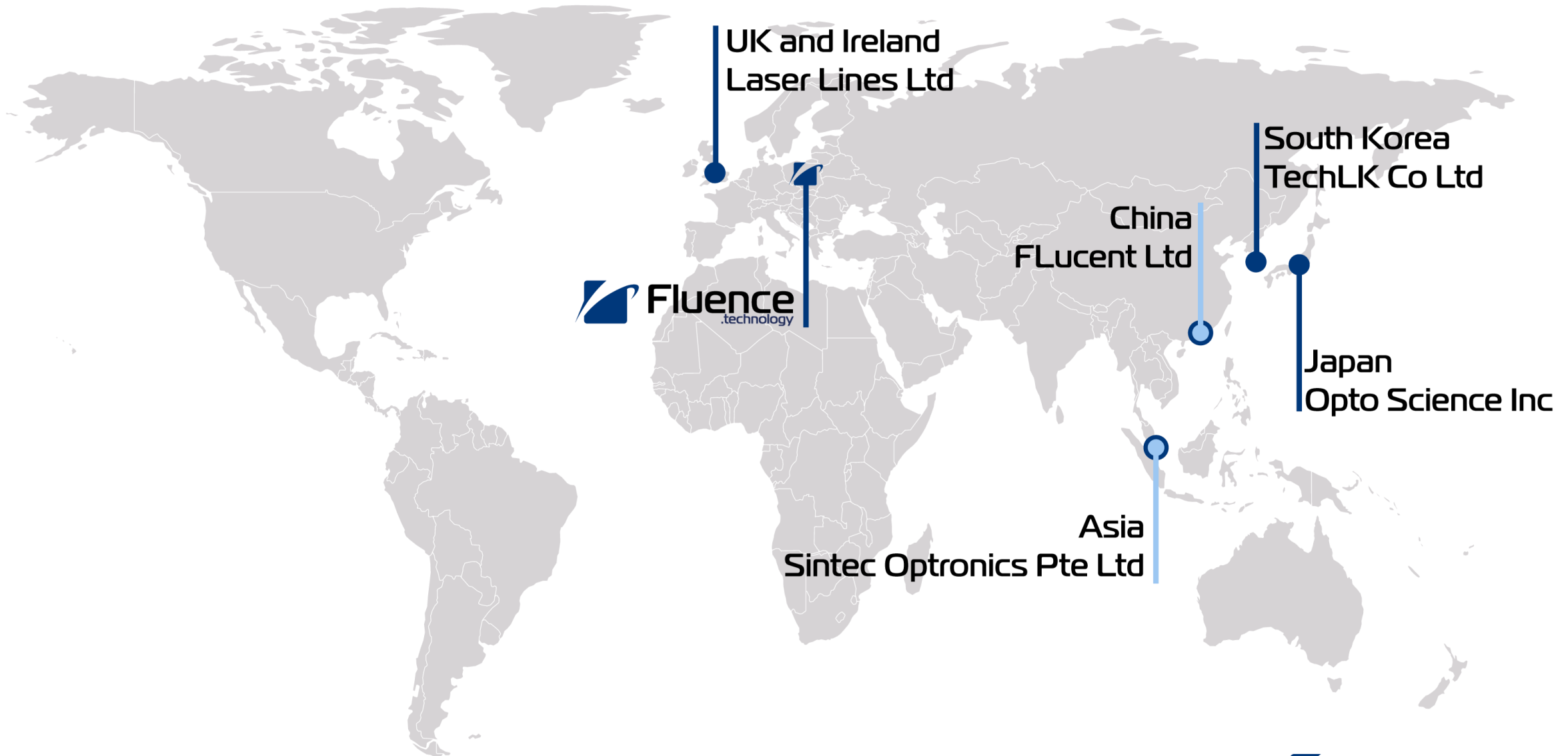


Soon new application
lab in Wrocław

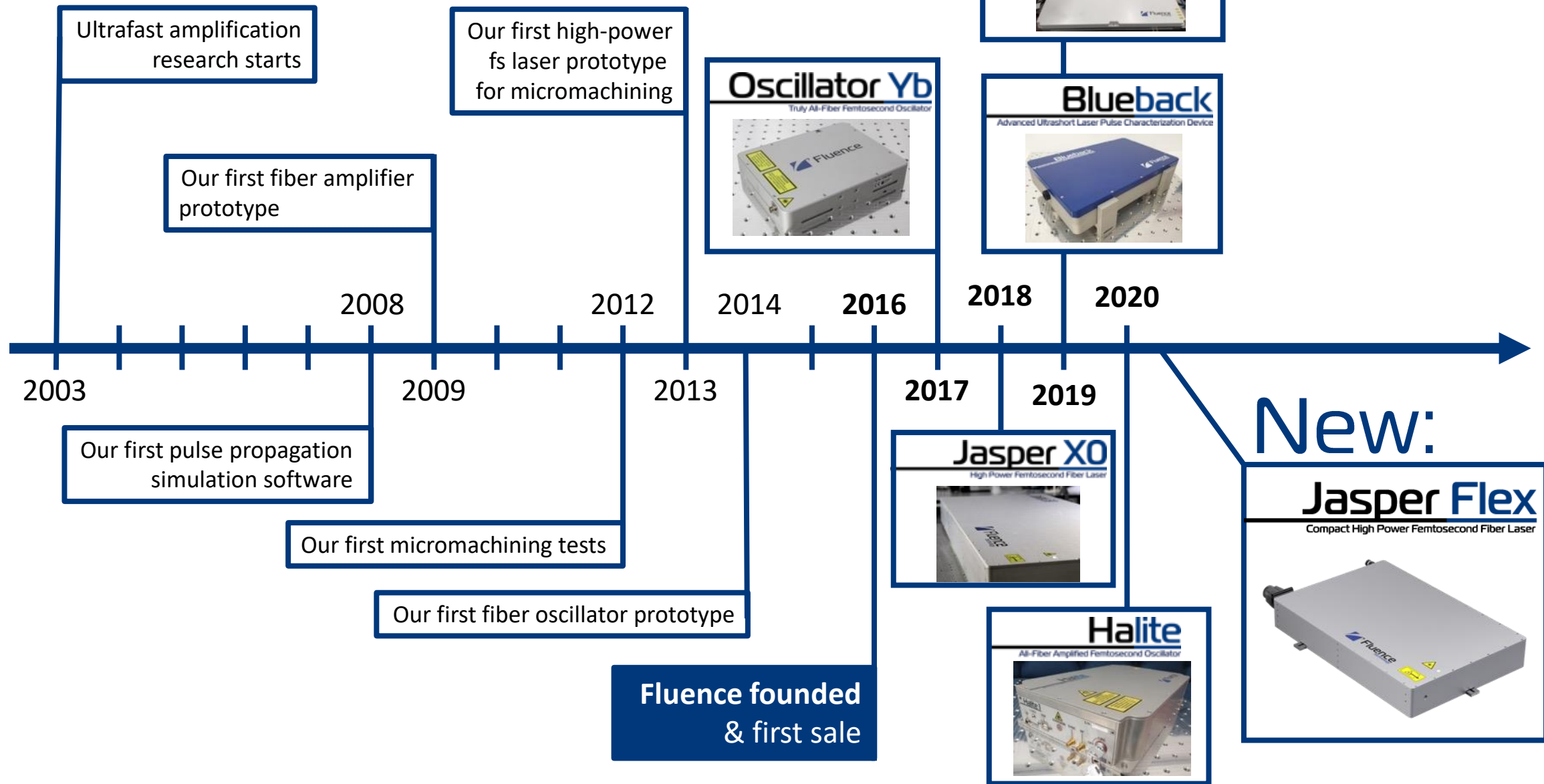


Fluence worldwide

- Distributor
- Partner



Experience



Fluence fs lasers at 1030 nm

Oscillator Yb

Truly All-Fiber Femtosecond Oscillator



20 mW

1 nJ

Halite

All-Fiber Amplified Femtosecond Oscillator



2 W

100 nJ

New

Jasper Flex

Compact High Power Femtosecond Fiber Laser



30 W

30 μ J

Jasper X0

High Power Femtosecond Fiber Laser



60 W

100 μ J
(200 μ J)

Fluence technology

All products designed and manufactured in company headquarters in Warsaw, Poland

- Unique all-fiber technology
- No SESAM and other degradable components in our oscillator
- Our own constructions from the scratch
- CAN-based modular design



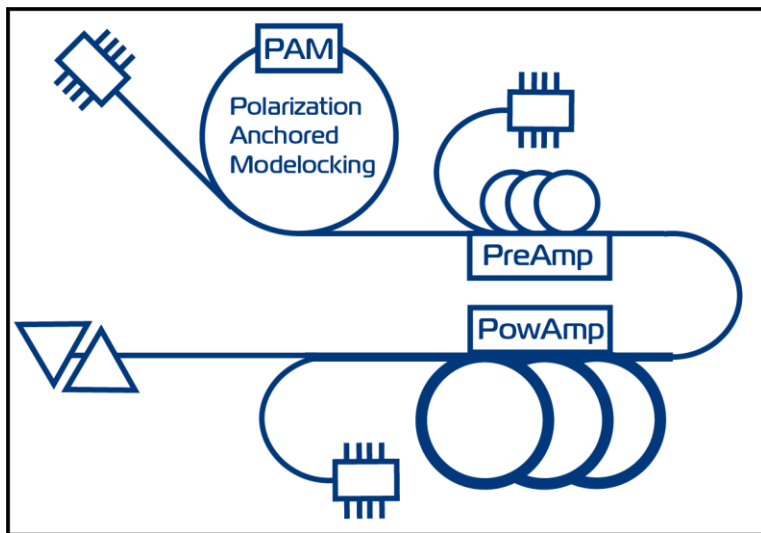
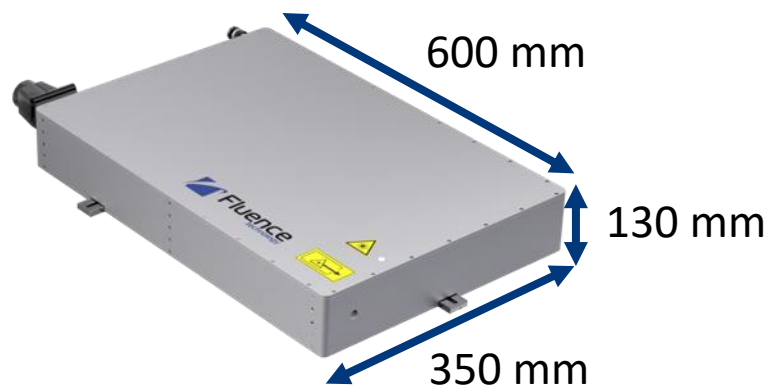
Fluence fiber technology

- all fiber, nothing to misalign
- robust (operational even @ 40g for the oscillator)
- stable in vast range of temperatures
- no servicing required
- first to use truly all-fiber oscillators, SESAM-free in high power constructions



Jasper Flex

Compact High Power Femtosecond Fiber Laser



Highlights:

- All fiber, SESAM-free
- High power, short and clean pulse
- Harmonics modules available
- CAN based, modular construction

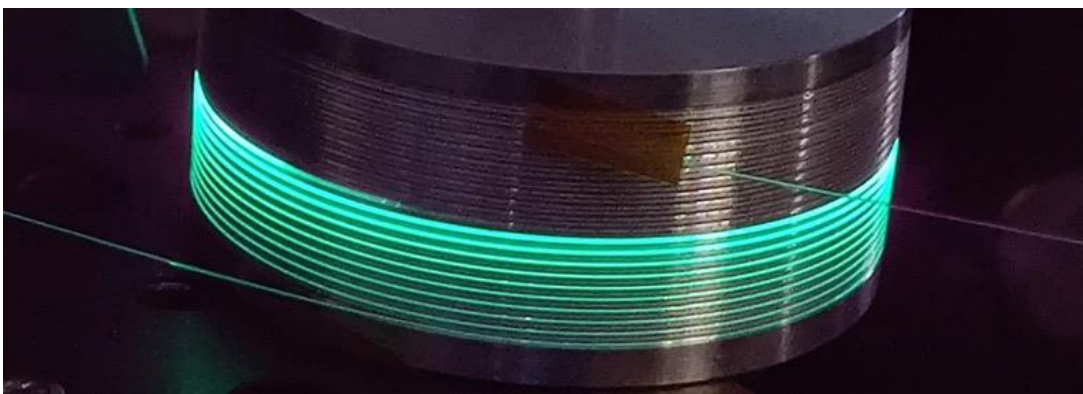
Specification:

- Av. power: >30 W
- Wavelength: 1030 nm
- Pulse duration: <250 fs
- Pulse energy: >30 μ J
- Repetition rate: 1 – 20 MHz
0 – 1 MHz w. pulse picker

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

Jasper Flex

Compact High Power Femtosecond Fiber Laser

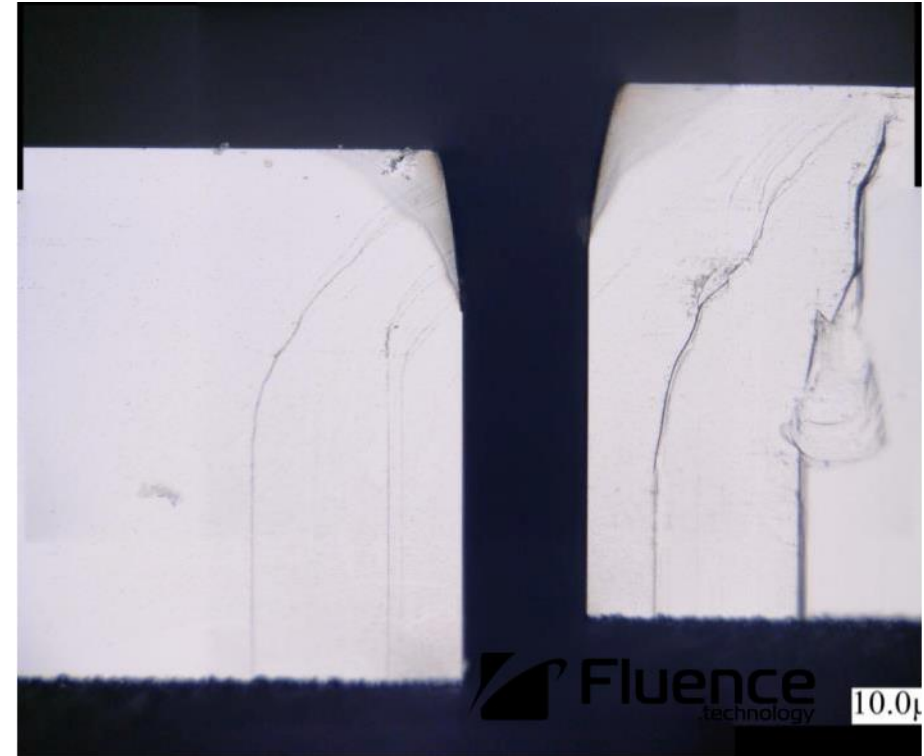
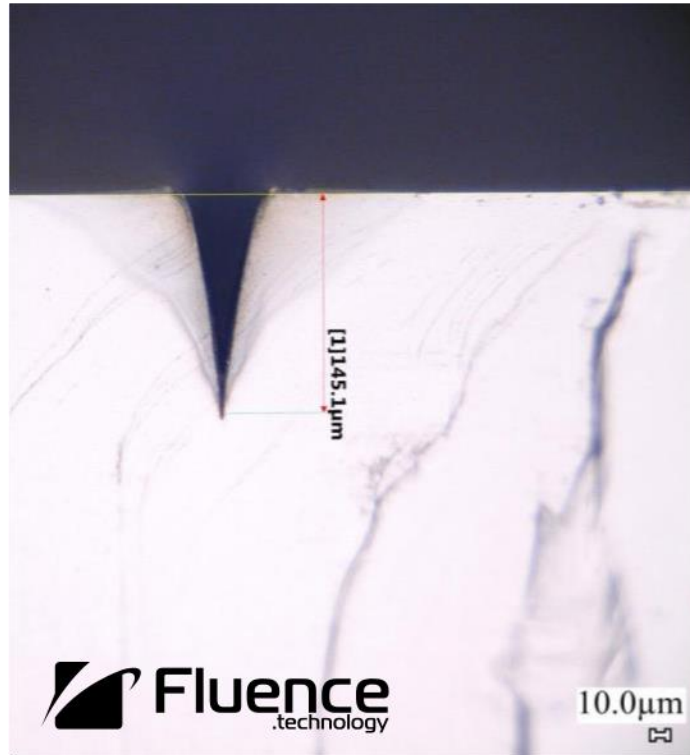


Applications:

- Micromachining
- LCD / OLED display repair
- Precise cutting
- Surface structuring
- Cold ablation
- Ophthalmology
- Ultrafast science

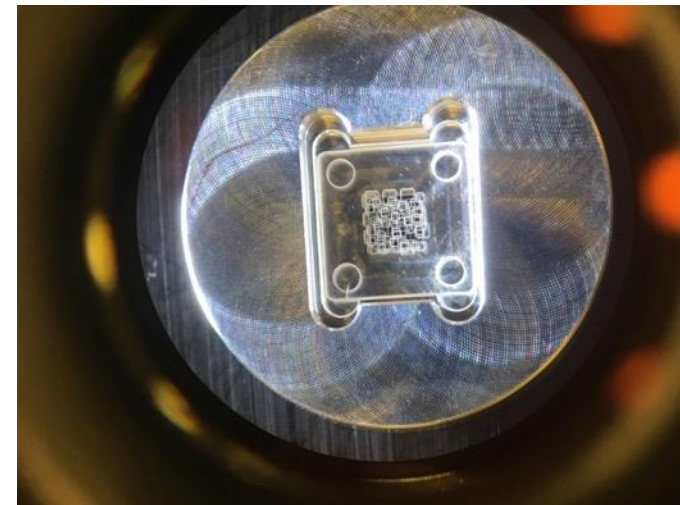
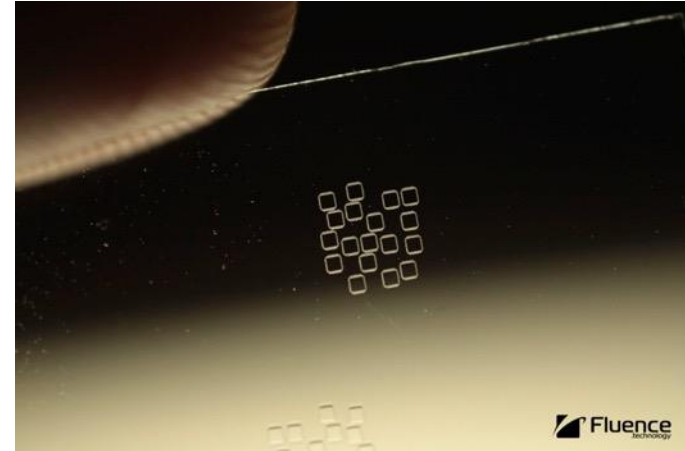
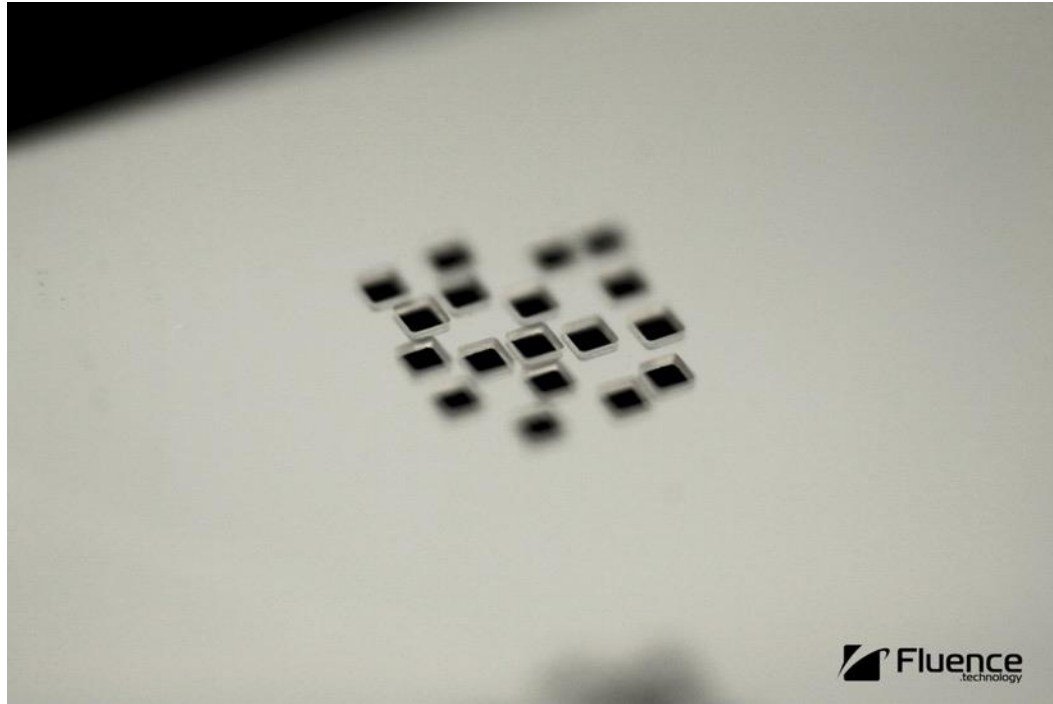
Done with Jasper

Semiconductor laser scribing - GaN



Done with Jasper

Precise glass cutting



Done with Jasper

In-volume glass marking





Thank you for your attention

<https://Fluencetechnology.com>
<https://Fluence.technology>