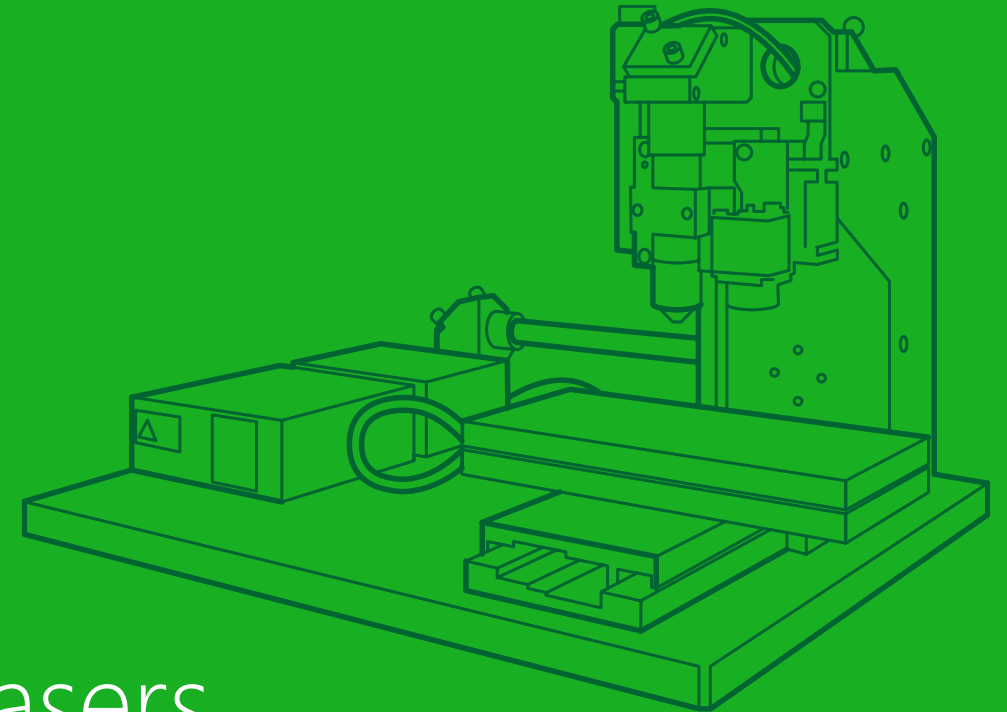
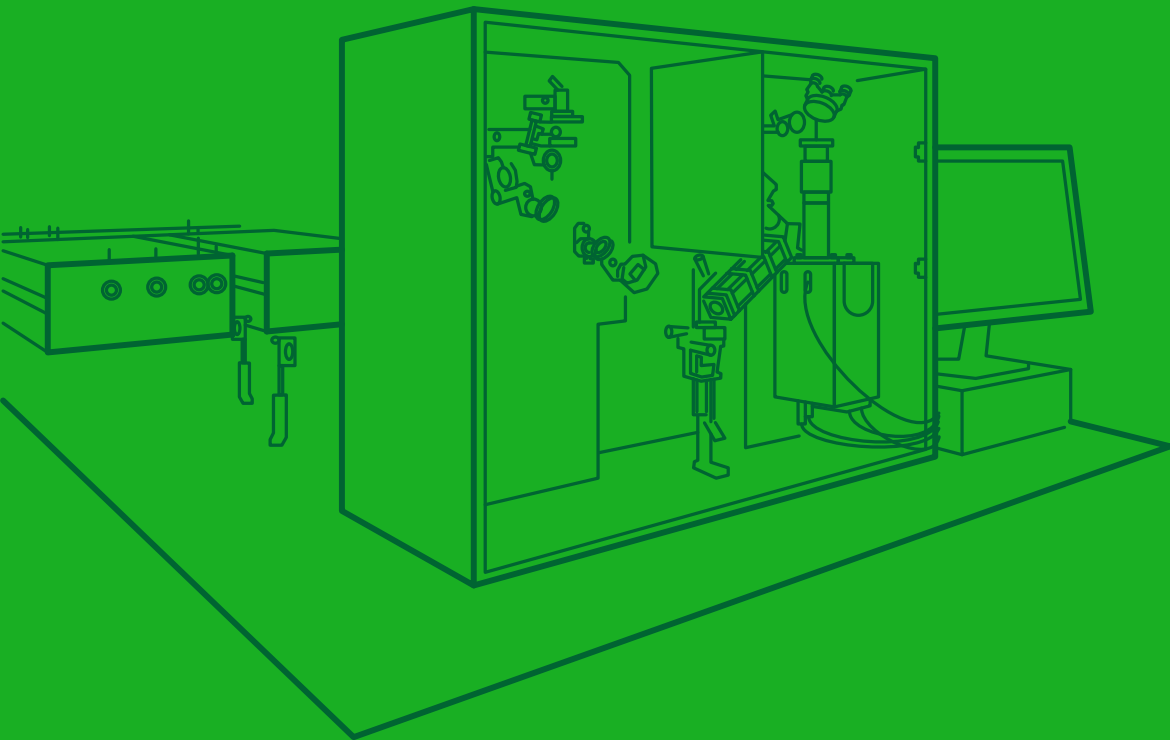




- Lithuania, Vilnius
- >40 Photonics Companies
- Ekspla one of the largest
- ~160 Employees
- Offices in USA, China, UK
- Reps worldwide



# Scientific lasers



Lasers  
**for OEM**

# FemtoLux 30

**30W at 1030nm  
11W at 515nm**

**>90uJ at 1030nm  
>50uJ at 515nm**

**Pulse duration  
<350fs – 1ps**

**Pulse Repetition Rate  
Single Shot – 4MHz**

**Dry Cooling  
no chiller required**

**MHz/GHz Burst Mode  
>250uJ in a Burst mode**

**Warranty  
2 year complete warranty**



**Wavelength range**  
1405 – 18000 nm  
7115 – 555  $\text{cm}^{-1}$

**>100mW OPO**  
2200 – 4000 nm

**Pulse duration**  
~8 ps

**High PRR**  
87 MHz

**AOM Modulation**  
0 – 2 MHz

**Fast scan**  
~2 s

**Narrow linewidth**  
<5  $\text{cm}^{-1}$



**PhotoSonus X**  
DPSS 100Hz/50Hz

**Photosonus M**  
Mobile 10Hz/20Hz

**Photosonus T**  
High Energy

**Fiber Coupling**

**Fast wavelength  
switching**

**High Pulse Energy**



# Scientific Lasers

High Intensity  
Laser Systems



Tuneable  
Wavelength  
Lasers

Fixed  
Wavelength  
Lasers

**Single housing containing  
both pump laser and OPA**

**210nm – 2300nm**

**High pulse energy at  
1kHz rep rate**

**Diode pumped laser**

**Hands free tuning**

**Air cooled, no chiller  
required**

**Low maintenance**



**New design high PRR  
10kHz**

**No gap broad tuning  
range 210nm – 2600nm**

**Narrow linewidth  
Down to 1.5 cm<sup>-1</sup>**

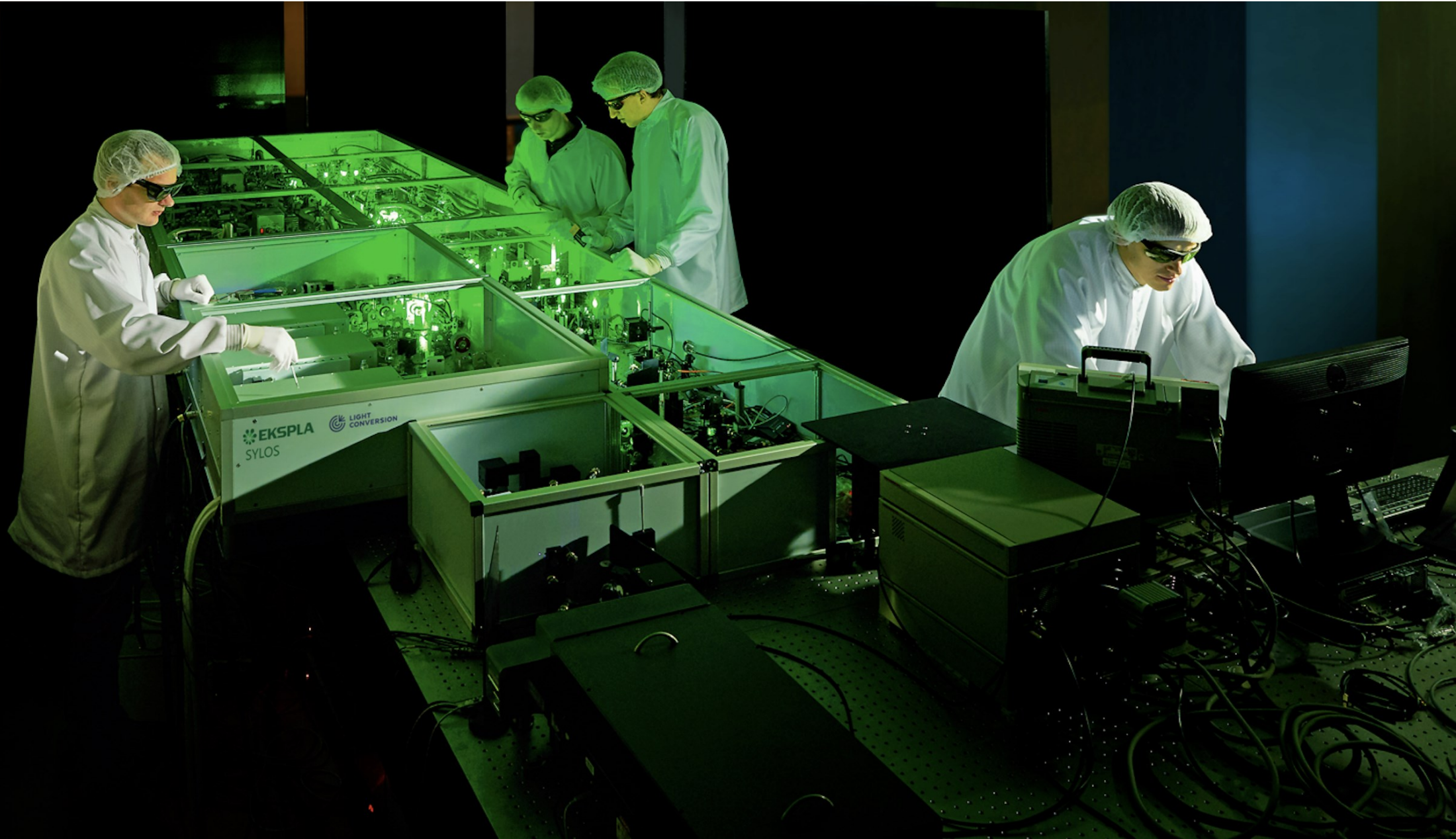
**Up to 0.7 W output**

**Diode pumped laser**

**Monolithic rugged frame**







# ANL – Amplified Nanosecond Lasers



**MM/SLM**

- Multi/Single mode
- Up to 20 J; 10 Hz

**AWG**

- Temporally Shaped
- Up to 10 J; 10 Hz

**Nd:Glass**

- Nd:Glass
- Up to 160 J; 1/60 Hz

**DPSS**

- Diode-pumped
- Up to 3.7 J; 1 kHz

# APL – Amplified Picosecond Lasers



## HE

- High Energy, Flash-lamp
- Up to 2.2 J; 10 Hz; 20 – 300ps

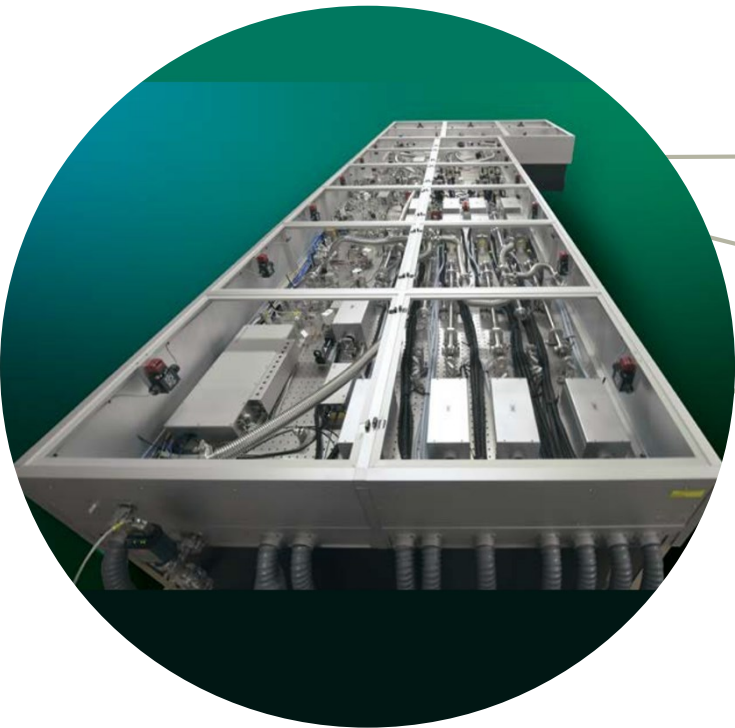
## HP

- High Power, DPSS
- Up to 150 mJ; 1 kHz; 20 – 300ps

## CUSTOM

- Multi-Channel
- Up to 8 channels

# Ultraflux – Femtosecond OPCPA systems



**HE**

- High Energy
- Up to 1 J; 10 Hz; 12 fs

**HR**

- High Rep. Rate
- Up to 14 mJ; 1 kHz; 12 fs

**CUSTOM**

- Multi-TW
- Up to 30 TW; 1 kHz; 8 fs

# High Intensity Laser products from EKSPILA

- Broad and diverse portfolio for wide array of applications:
  - Ti:Sa, OPCPA pumping
  - HH generation and attosecond science
  - Thomson scattering
  - Plasma and shock physics
  - Satellite ranging
  - Laser shock peening
  - Semiconductor annealing
- High degree of flexibility and customization





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