

FEMTUM

Mid-Infrared Fiber Lasers

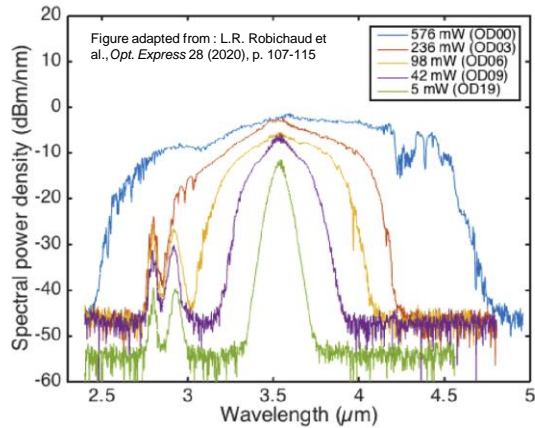
Product release :
The first μJ -level short pulse
fiber laser emitting in the mid-IR

Louis-Rafaël Robichaud, CEO

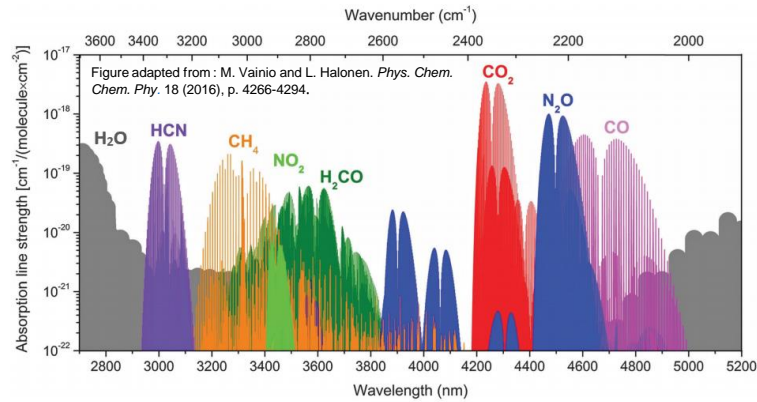


Challenging scientific applications in the mid-IR

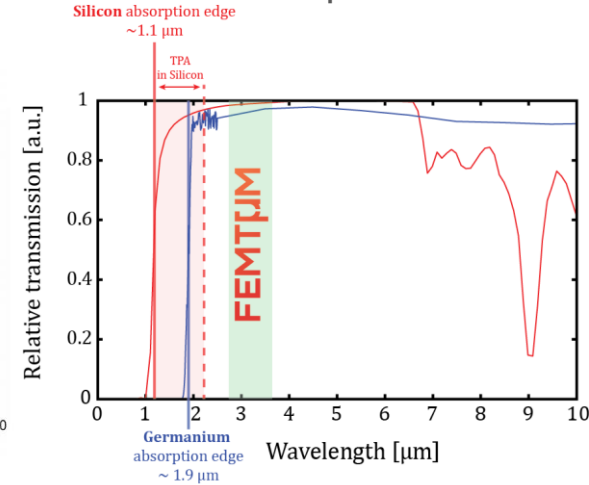
Nonlinear optics

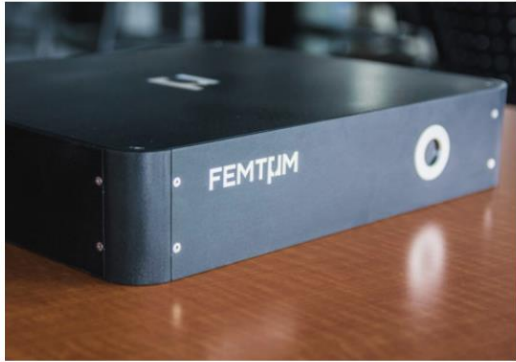


Spectroscopy



Silicon photonics





Femtum Ultra 2800

2.8 μm fs fiber laser

Pulse duration < 500 fs

Rep. rate > 20 MHz

Automated mode locking



Femtum Amp 2800

2.8 μm fiber amplifier

> 20 dB amplification

Up to 5W average power

CW and pulsed lasers



Femtum UltraTune 3400

Tunable fs fiber laser

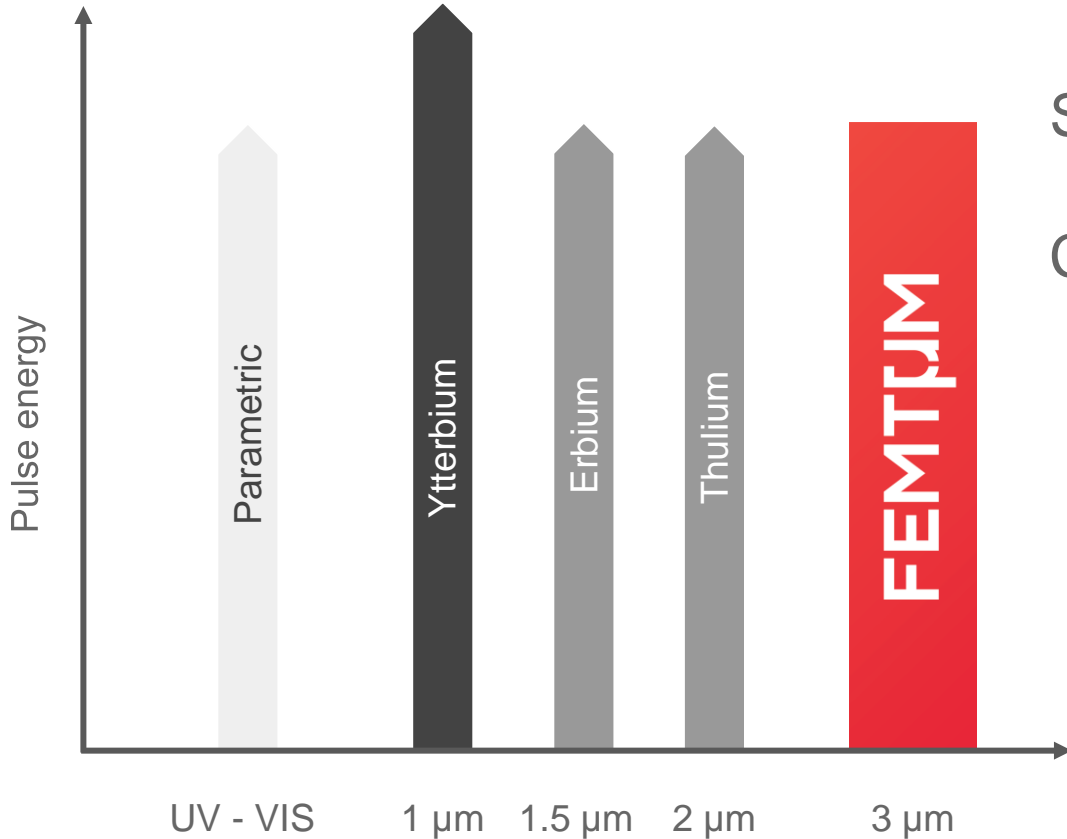
2.8 to 3.4 μm spectral coverage

Pulse duration < 250 fs

Alignment-free electronic tunability

Our products

Short Pulse Laser Processing Industry



Still limited with current lasers?

Consider 3 μm fiber lasers

- Strong absorptions of non-metals
- More selectivity than UV
- Industrial-grade

Introducing Femtum Nano 2800



Energy : 1 to > 100 μ J

Rep. rate : 1-50 kHz

Wavelength : 2.73-2.83 μ m

Duration : 30 to > 200 ns

$M^2 < 1.5$

Fiber delivery

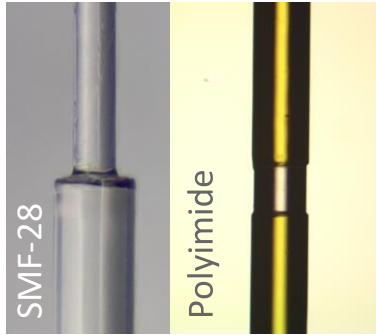
Rack-mount 19 in - 2U

Air-cooled

Made for **non-metal processing, biological tissue ablation and scientific research**

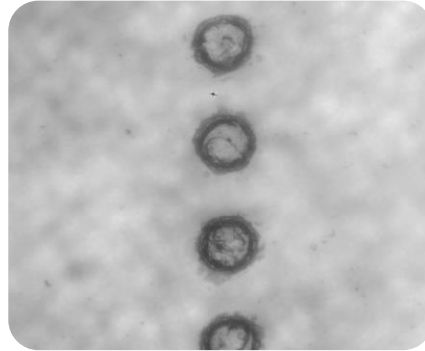
Challenging industrial applications

Fiber stripping



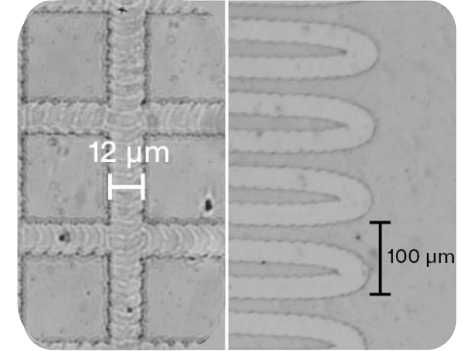
- ✓ High mechanical strength
- ✓ High speed
- ✓ Clean edges

Semiconductor processing



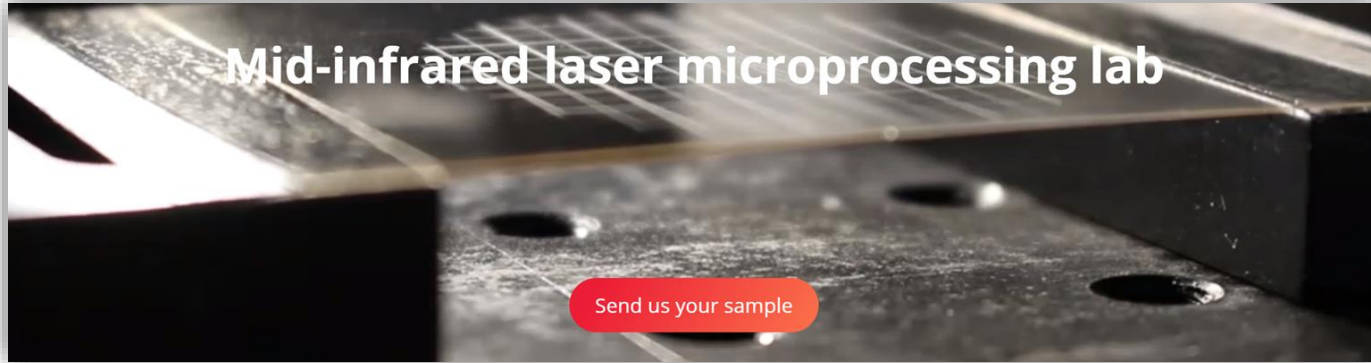
- ✓ In-volume processing
- ✓ High precision

Thin-film removal : ITO patterning on PET



- ✓ Selective patterning
- ✓ High speed
- ✓ Small feature size

Limited with your processing applications ?



Send us your sample for a free demo

Go to:

www.femtum.com