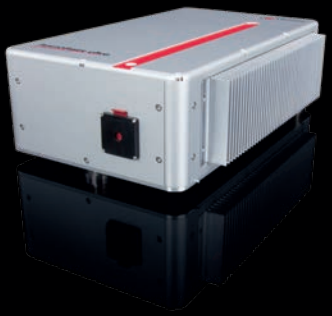
reliable.

Industrial-grade and turn-key femtosecond fiber laser

780 nm

Femtosecond Fiber Laser

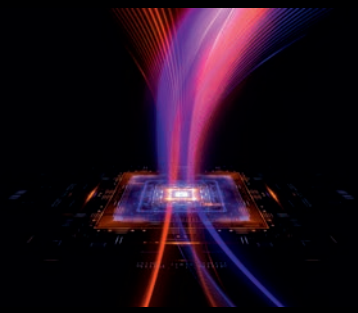


- Robust & compact fiber laser technology
- Low cost of ownership

2-Photon Polymerization

Copyright Nanoscribe

Semiconductor Inspection



Large installed OEM base with global service!

Convince yourself and apply for your own free live demo!

TOPTICA PHOTONICS

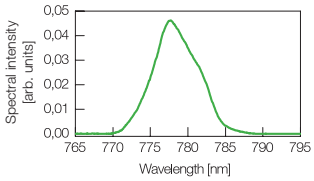
www.toptica.com/reliable

FemtoFiber ultra 780

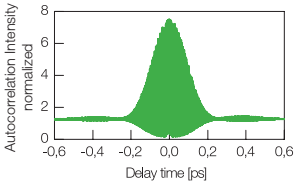
Class 4 Laser Product EN 60825-1:2014. Visible or insible laser radiation. Avoid direct exposure to beam. WARNING — Class 4: DANGER — visible or insivisble laser radiation when open. Avoid exposure to the beam.

Laser Specifications*	
Center wavelength	780 nm
Pulse duration	< 100 fs or < 150 fs
Average output power	> 500 mW
Repetition rate	80 MHz
Beam shape	TEM_{00}, $M^2 < 1.2$
Beam divergence	< 1 mrad
Beam size ($1/e^2$)	Ø1.1 mm (typ.)
Linear polarization	> 95 %, horizontal
Output coupling	Free space
Dimensions laser head	111 x 250 x 380 mm³ (H x W x D)
Weight laser head	< 15 kg
Dimensions supply unit	154 x 342 x 382 mm³ (incl. stand) (height 3U/HE, width/horizontal pitch 63 HP/TE)
Weight supply unit	< 10 kg
Power supply	100 - 240V AC, 50/60 Hz
Power consumption	< 150 Watt
PC Interface	Ethernet, USB
Environment temperature	19 - 25 °C (operating), 0 - 40 °C (storage and transport)
Environment humidity	Non-condensing

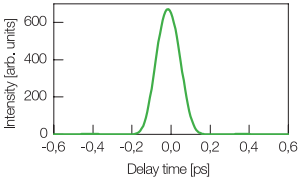
*) Subject to change without notice



Typical emission spectrum (linear).



Interferometric autocorrelation.



Retrieved pulse shape with typ. 99 % of laser power in main peak.