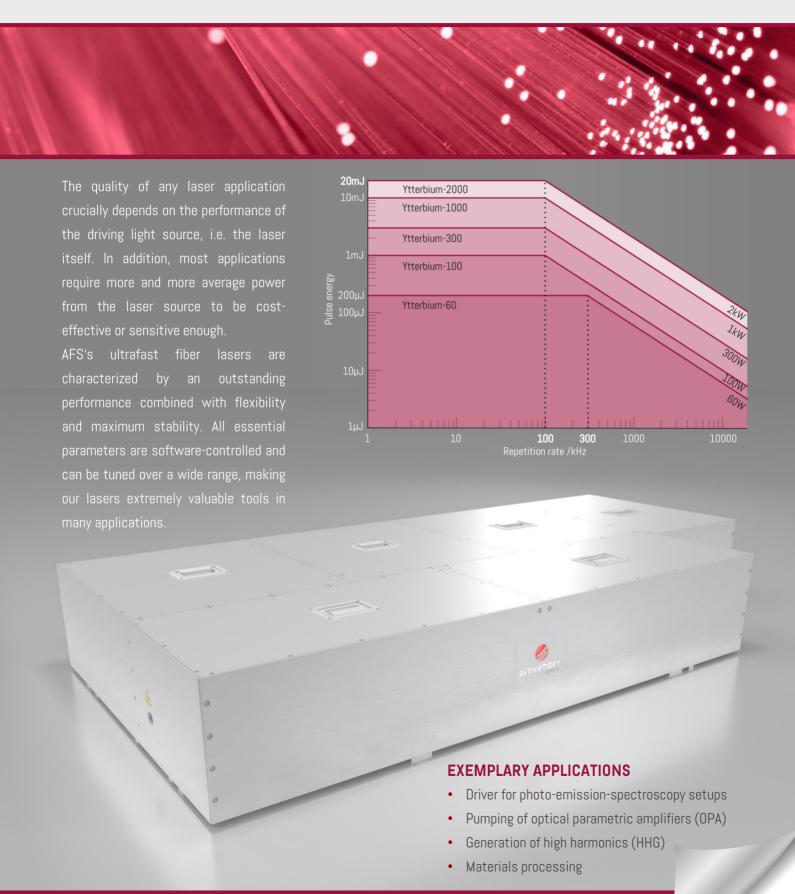
CUSTOMIZED kW AND mJ ULTRAFAST YTTERBIUM LASERS



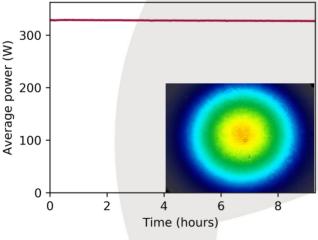




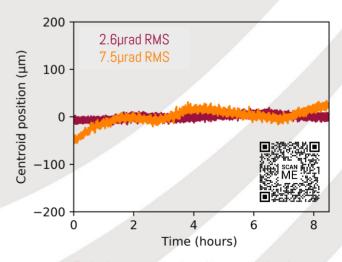
CUSTOMIZED kW AND mJ ULTRAFAST YTTERBIUM LASERS

	Ytterbium-300	Ytterbium-2000
Central wavelength	approx. 1030nm	
Repetition rate	50kHz (or single pulse via externally controllable AOM upgrade) up to 50MHz, others on request	
Pulse energy	up to 3mJ	up to 20mJ
Peak power	up to 12GW	up to 80GW
Average power	up to 300W	up to 2kW
Pulse duration	< 300fs 5ps adjustable, others on request	
Polarization	linear	
Beam quality	close to diffraction-limited, M² < 1.25	
RIN slow (average power)	< 0.6% RMS [1/ (8hours) 1Hz]	< 0.8% RMS [1/ (8hours) 1Hz]
RIN fast (pulse energy)	< 0.6% RMS [1Hz f _{rep} /2]	< 0.8% RMS [1Hz f _{rep} /2]
Beam pointing	< 20µrad RMS (< 10% nat. divergence)	
Dimensions laser $(W \times D \times H)$	up to 2mJ: 98cm × 202cm × 32cm up to 5mJ: 150cm × 202cm × 32cm	149cm × 292cm × 50cm
Add-ons	OPA, SHG, THG, HHG, Few-cycle generation, CEP-stability, GHz-Burst, Fast-switch	
Logging	Logging of all operation parameters via control software, remote monitoring and service access	
Additional features	All parameters software-controlled, temperature-stabilized and dust-sealed housing	

The specs above show only our main platforms. We gladly customize a system that fits your specific needs.



Typical characterization of power stability and beam quality for the Ytterbium-300 platform at 3mJ



Typical characterization of beam pointing for Ytterbium-300 platform at 3mJ

