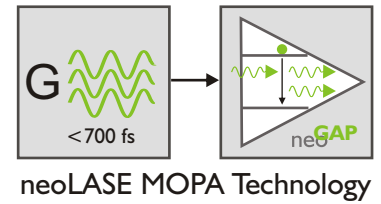


Femtosecond Laser



neoMOS

Catch the peak!

The neoMOS femtosecond laser series combines the reliability and low maintenance of a state of the art femtosecond laser oscillators with a power and energy scaling solid-state amplifier. The new developed laser system further expands the neoMOS pulse duration range into the area of less than 700 fs. The technology allows for bandwidth limited, high energy pulses on a smallest available footprint.

Cold Laser Processing

The new neoMOS system with pulse durations of less than 700 fs enables new and more efficient laser material processing. Whether micro material or nonlinear processing the short pulse duration supports cold and therefore highly precise laser material applications as well as scientific applications like OPCPA pumping and higher harmonic generation.

neoMOS Femtosecond Laser

Key features

Output power	> 50 W
Pulse duration	< 700 fs
Pulse energy	> 500 μ J
Repetition rates	single shot to MHz
Beam quality	TEM _{0,0} / M ² < 1.3

Advantages

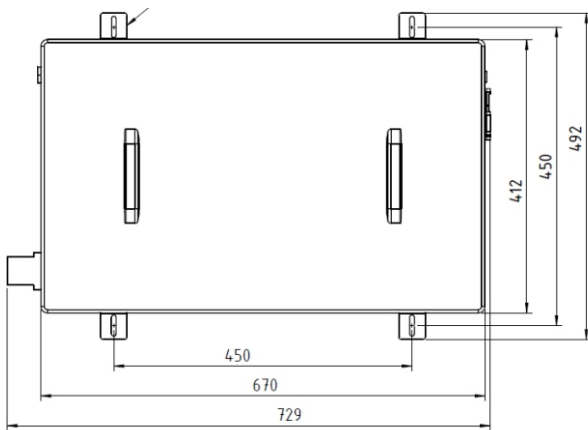
- Compact laser head design
- Highly flexible and scalable design

System Specifications

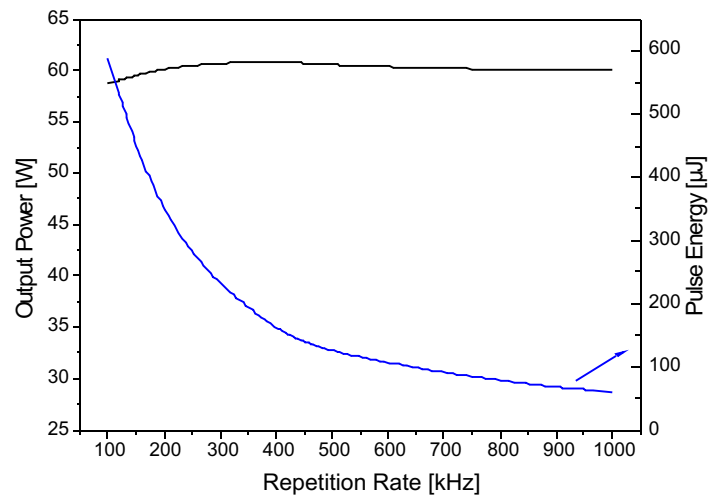
neoMOS 700fs

Seed Laser	Modelocked Fiber Oscillator
Pulse duration	< 700 fs
Average power	>50 W
Repetition rate	Single shot to MHz
Max. pulse energy	>500 μ J @ 1030 nm
Beam quality	TEM _{0,0} M ² <1.3 / >85 % circularity
Power noise	< 1 % RMS
Polarization ratio	> 100:1
Warm-up time	<30 min.
Laser controller	19" Rackmount 4 U height
Cooling	Water cooled
Options	SHG

Dimensions



Typical Output Power and Pulse Energy



Further options on request

Output performance and specifications will be adapted for different seed laser systems

Housing specifications are depending on the level of integration

OEM amplifier configurations available

Visit www.neolase.com or email info@neolase.com for further information.

- Notes:
1. Due to neoLASE continuous product improvement, all specifications are subject to change without notice.
 2. Laser light emitted from this system is invisible and will be harmful to the human eye. Proper laser safety eyewear must be worn during operation.

