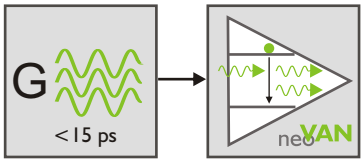
Industrial Picosecond Laser



neoLASE MOPA Technology

neoMOS pico

Compact and Powerful

The neoMOS picosecond laser series combines the reliability and low maintenance of state of the art picosecond oscillators with a solid-state amplifier. The ultra-compact laser head has the smallest footprint currently available enabling easy system integration. High stability and long lifetime are provided by design for 24/7 industrial use.

Precision Laser Processing

The multi-megawatt level peak-power and ultrafast pulses delivered by the neoMOS series are suitable for processing the most demanding materials including transparent glasses and plastics. Typical applications include photovoltaic and electronics production, display glass processing as well as security and decorative marking.

neoMOS picosecond Laser

Key features

Output power	25 W @ 1064 nm
Pulse duration	< 15 ps
Pulse energy	up to 150 µm
Repetition rates	single shot to 40 MHz / burst mode options
Beam quality	$TEM_{0,0}$ / $M^2 < 1.3$

Advantages

- Customized repetition rates and output power configurations
- Ultra-compact laser head design
- Proven long term stability and industrial reliability

neoLASE GmbH | Hollerithallee 17 | 30419 Hannover | Germany
Phone: +49 511 515160-0 | E-Mail: info@neolase.com | **www.neolase.com**

brilliance in solid-state laser solutions

neoLASE

System Specifications

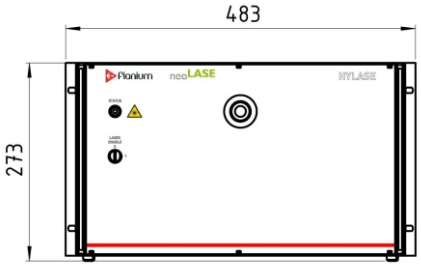
neoMOS pico 15ps

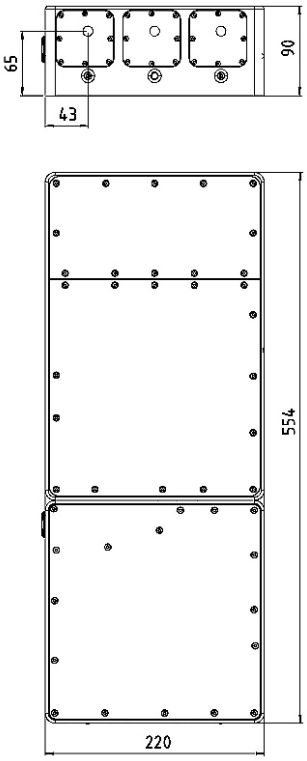
Seed Laser	Modelocked Fiber Oscillator
Pulse duration	<15 ps
Average power	7 / 15 / 25 W
Repetition rate	Single shot to 40 MHz
Max. pulse energy	150 µJ @ 1064 nm
Beam quality	$TEM_{0,0}$ M^2<1.3 / >85 % circularity
Power noise	<1 % RMS
Polarization ratio	>100:1
Warm-up time	<30 min.
Laser controller	19" Rackmount 6 U height
Cooling	Water cooled
Options	SHG, Burst Mode

Dimensions Laser Head and Electronics

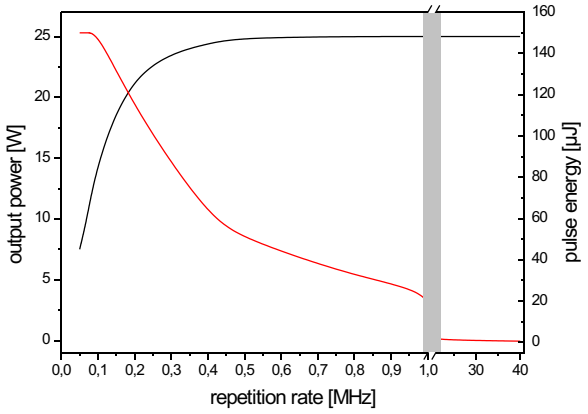
Basic Module:
7 W version
330 x 220 mm

15/25 W version
554 x 220 mm
including SHG option





Typical Output Power and Pulse Energy



Output power above 1 MHz: 25 W
Output beam diameter: ~1 mm

User Interface:
- PC GUI using network connection
- Ethercat Interface
- Other Interfaces on request

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.*

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