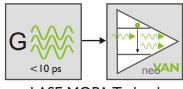
Industrial Picosecond Laser





neoLASE MOPA Technology



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 up to 50 W @ 1064 nm

Pulse duration < 10 ps

Pulse energy up to $150 \,\mu\text{m}$

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

System Specifications

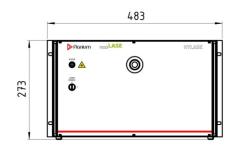


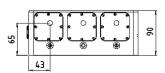
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Seed Laser	Modelocked Fiber Oscillator
Pulse duration	<10 ps
Average power	7 / 25 / 50 W
Repetition rate	Single shot to 40 MHz
Max. pulse energy	150 μ J @ 1064 nm (higher energy on request)
Beam quality	$TEM_{0,0} M^2 < 1.3 / > 85 \%$ circularity
Power noise	< I % RMS
Polarization ratio	>100:1
Warm-up time	<30 min.
Laser controller	19" Rackmount 6 U height
Cooling	Water cooled
Options	SHG, Burst Mode
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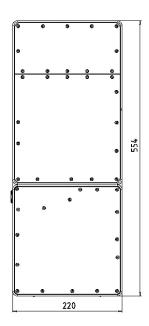
Dimensions Laser Head and Electronics

Basic Module: 25 W version 330 x 220 mm

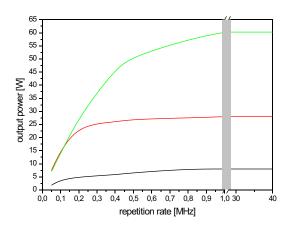
50 W version / beam expander / SHG option 554 x 220 mm







Typical Output Power and Pulse Energy



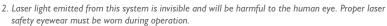
Output beam diameter: ~I mm

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.







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