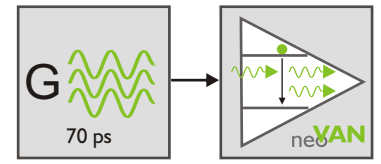


## Industrial Picosecond Laser



neoLASE MOPA Technology

neo**MOS**  
pico

### Compact and Powerful

The neoMOS picosecond laser series combines the reliability and low maintenance of a state of the art picosecond laser diode with a solid-state amplifier. Customized combinations with different output powers and flexibel repetition rates are integrated into a ultra-compact laser head enabling easy system integration. High stability and long lifetime are provided by design for 24/7 industrial use.

### Flex Pulse

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. The flexpulse technology allows to change the repetition rate and the pulse energy on the fly and therefore enables new potentials in laser control.

### neoMOS picosecond Laser

#### Key features

Output power	15 W @ 1064 nm
Pulse duration	70 ps
Pulse energy	up to 250 $\mu$ J
Repetition rates	single shot to 80 MHz, flex pulse
Beam quality	TEM <sub>0,0</sub> / M <sup>2</sup> < 1.3

#### Advantages

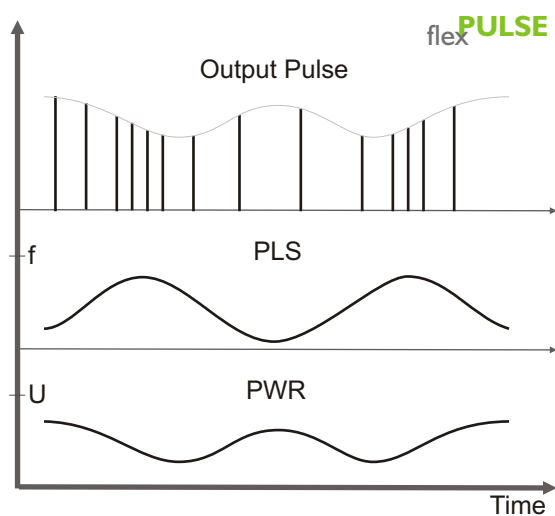
- Flexibel repetition rate and pulse energy
- Ultra-compact laser head design
- Proven long term stability and industrial reliability

# System Specifications

neo **MOS** pico 70ps

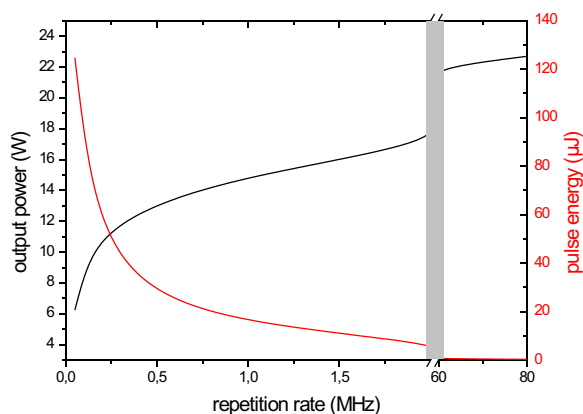
Seed Laser	Laser Diode
Pulse duration	70 ps
Average power	15 W
Repetition rate	Single shot to 80 MHz / free triggerable including burst mode
Max. pulse energy	250 $\mu$ J @ 1064 nm
Beam quality	TEM <sub>0,0</sub> M <sup>2</sup> < 1.3 / >85 % circularity
Power noise	< 1 % RMS
Polarization ratio	> 100:1
Warm-up time	< 30 min.
Laser controller	19" Rackmount 6 U height
Cooling	Water cooled
Options	SHG

## Flex Pulse Control

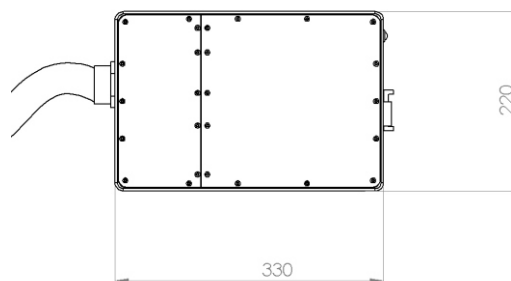


The flex pulse control allows separate and continuous change of lasers repetition rate and pulse energy by 5 V TTL (PLS) and 0 - 5 V analog signal (PWR).

## Typical Output Power and Pulse Energy



## Dimensions Laser Head



Visit [www.neolASE.com](http://www.neolASE.com) or email [info@neolase.com](mailto: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.

