Tuesday, 29 March 2022, 16:00 CEST

EPIC Members New Product Release









Maik Frede, CEO

neoLASE GmbH



- Technological leader for DPSS lasers
- Focus on Industrial and customized laser systems from single units to volume production
- Industrial and Scientific Applications
- Interdisciplinary working team with outstanding long term experience
- Location Hannover, Germany













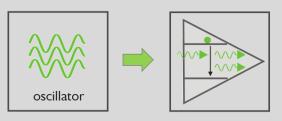
Level of Integration

Laser Amplifiers



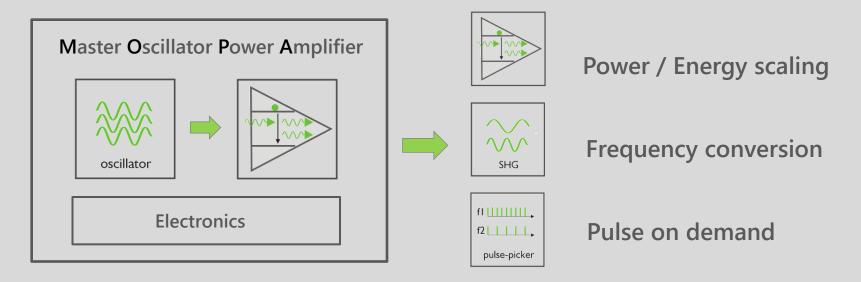
Energy and power scaling 200 W – 50 mJ

MOPA Lasers



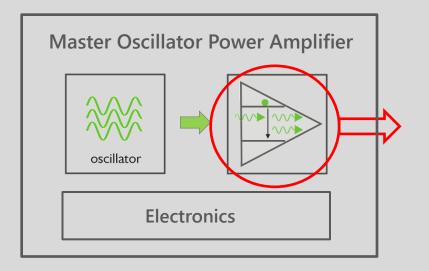
Continuous wave to femtoseconds





- Compact and variable laser platform
- Selectable pulse duration, repetition rate and output power
- Highly reliable technology (neoLASE building blocks)





neoVAN

Wavelength: 1064 nm high gain / cw - ps

neoYb

Wavelength: 1030 nm med. gain / high energy / cw - fs

neoTAP

Wavelength: 1940 nm

neoHOF

Wavelength: 2050 nm

low gain / cw-fs

low gain / cw-fs







The SMAART Idea





Selectable pulse duration, repetition rate and output power

Reduced investment costs



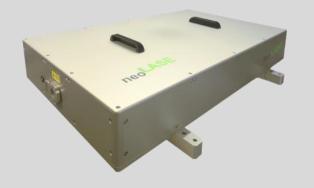
femtoeconds repetition rate

service pulse duration
selectable COSTS mode-locked burst
flexible laser parameter
picoseconds out of one system

gain switched adaptable variable output output power reliability pulse energy wavelength



Easy integration, upgrading, self-service



High reliability and uptime





micro machining femto < 100 fs

ultra-short pulse

applications

"SMAART" femto - pico

neoMOS



cutting drilling pico - nano 50 ps - 10 ns

engraving





700 fs - 50 ps



TYPICAL SYSTEM **PARAMETERS**



single-shot - MHz upgradeable modular flexible

neoLASE philosophy is to provide industrial proven laser technology, individually tailored for the specific user application.

The SMAART laser idea:

- Different applications with one laser
- Upgradeable laser parameter
- Reduced Investment risk
- Self-Service possibilities
- Sustainable use













Booth # A5.119



Thanks for your attention!