

Compact picosecond lasers for OEM and series production



About Us

Profile



Manufacturer of compact, DPSS lasers for scientific and industrial applications. Our aim is to bring cost effective lasers to medical and industrial OEM markets.



Accumulated experience in laser development, production and service over 35 years.



Advanced short pulse generation technology.



Designing and adopting lasers for OEM integration.



Series production.

Field of expertise



Diode pumped Nd:YAG, Nd:YLF, Nd:YVO, Nd:YAP lasers + harmonic generators



Short pulse generation
(20 -50ps , 250-500 ps, <3 ns)



Pulse energy (1 μ J - 2 mJ)



Repetition rate (single shot to 10 kHz)

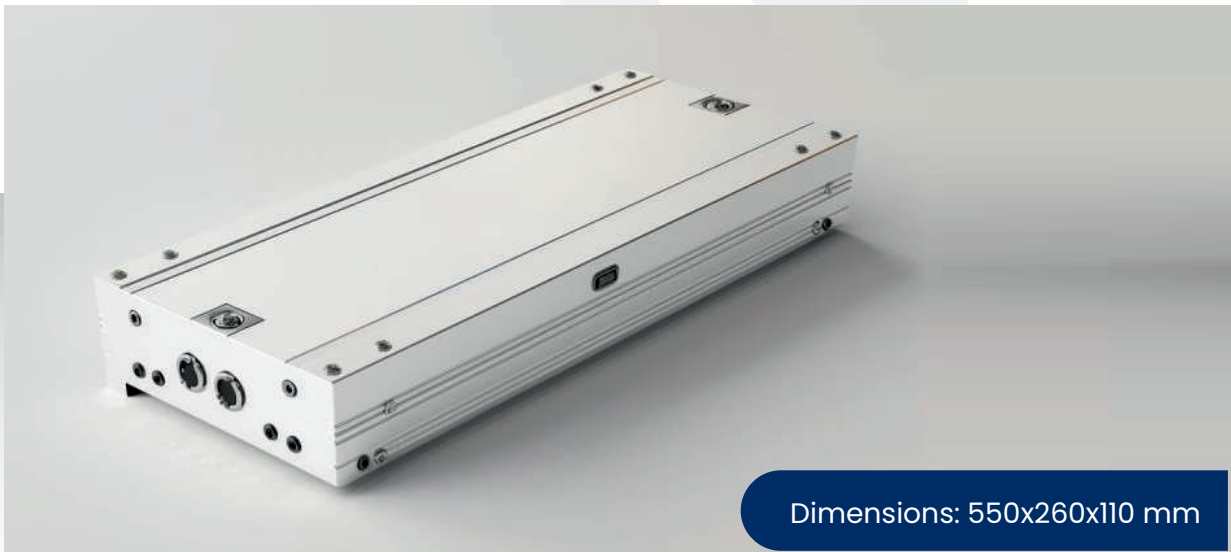


Custom laser systems
for specific applications

Applications of our lasers

- Seeder for amplifiers in the medical field
- Medical diagnostic systems
- OLED repair
- LIDAR
- Digital holographys
- Laser Induced Breakdown Spectroscopy
- Non-linear spectroscopy
- Remote sensing
- Matrix Assisted Laser Desorption/Ionization (MALDI)

Picosecond Lamp Amplified Laser "TAURAS"



Dimensions: 550x260x110 mm

Applications

- LIDAR
- Remote Sensing
- LIBS
- Spectroscopy
- PIV
- LIDT
- LIF
- Material Ablation

Specification	Value
Repetition rate	1-10 Hz
Energy	
1064 nm	500 mJ
532 nm	200 mJ
Energy Stability RMS	
1064 nm	1 %
532 nm	2 %
Power Drift	
1064 nm	2 %
532 nm	3 %
Pulse width	
1064 nm	350 ps
532 nm	320 ps
Divergence	<1.5 mrad
Beam diameter	10 mm
Beam profile	top hat
Polarisation	linear
AC Input	220 VAC, 50-60 Hz
Power consumption	<1 kW
Operating conditions	temperature 20-35 °C, humidity 60%

Our sub-nanosecond Nd:YAG Q-switched flash lamp amplified laser system generate up to 500 mJ at 1064 nm. These systems are built with a robust industrial-grade aluminum laser head and a compact power supply unit, both equipped with efficient water-to-air cooling. Their compact size and alignment-free design ensure easy integration with customer devices. Additionally, an automatically embedded harmonics generator is available, delivering up to 200 mJ at 532 nm. Our lasers are known for their reliability, durability, and exceptional performance, making them a dependable choice for various applications.