

## *DIODE-PUMPED FEMTOSECOND LASERS*

# *FEMTOLAS*



Using most advanced laser technology, ALPHALAS GmbH introduces a new generation of femtosecond lasers. The Ytterbium-doped active medium is pumped directly by laser diodes, thus eliminating the need for an expensive green pump laser, as in the case of femtosecond Ti:Sapphire lasers. This approach not only reduces the price, but also increases the reliability and the lifetime of the new femtosecond laser.

The proven technique of nonlinear-mirror modelocking provides reliable self-starting operation.

The new femtosecond lasers find applications in:

- Time-resolved fluorescence spectroscopy
- Optical coherence tomography
- Material processing
- Two-photon microscopy
- Tissue ablation
- Nonlinear optics research
- Laser-matter interaction

## DIODE-PUMPED FEMTOSECOND LASERS

# FEMTOLAS



**FEMTOLAS-200**

**FEMTOLAS-200** is a very compact diode-pumped femtosecond laser with the following specifications:

Wavelength: 1020 - 1050 nm  
Output power: 200 mW  
Pulse duration: < 200 fs  
Repetition rate: 100 MHz  
Beam quality:  $M^2 < 1.2$

**FEMTOLAS-1000** is a high-power model of the diode-pumped femtosecond laser with the following specifications:

Wavelength: 1020 - 1050 nm  
Output power: > 1 W  
Pulse duration: < 200 fs  
Repetition rate: 100 MHz  
Beam quality:  $M^2 < 1.2$



**FEMTOLAS-1000**