

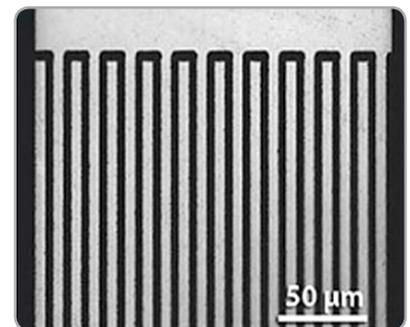
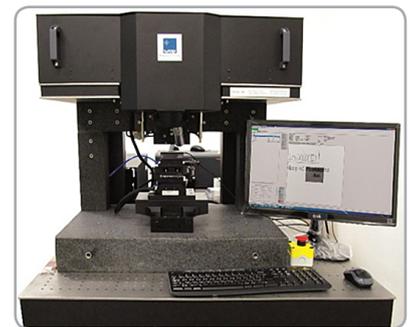
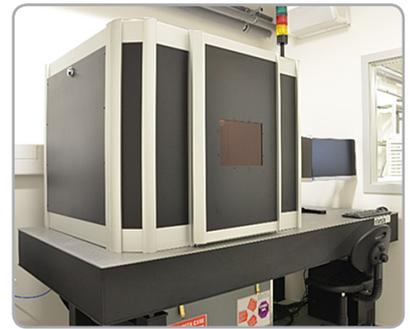
NETWORK GROUP has a unique technology for laboratory micromachining: FemtoLAB - femtosecond laser micromachining system. Equipped with high accuracy linear positioning stages, high performance laser and versatile micromachining software.

## Applications [WoP]:

- Surface micro and nano structuring
- Engraving
- Micro drilling
- Laser lithography and multiphoton polymerization (mPP)
- Refractive index modification inside bulk of material
- Selective layer removal
- Selective ablation
- Dicing and cutting brittle materials
- Waveguide fabrication
- Micromachining of rotary symmetrical structures

## FemtoLAB features [WoP]:

- Micromachining by 1st and 2nd harmonics of the laser
- High-speed precision micromachining
- High-end industrial grade femtosecond laser
- Fabrication of difficult objects with submicron resolution
- Minimal heat affected zone in femtosecond micromachining mode
- Nanometer accuracy object positioning
- Original software interface for control of all integrated hardware devices



With our current technological capabilities and unique know-how we are able to form unique products based on combination of optical sensing principles, fibers and casings in Low Temperature Co-fired Ceramics (LTCC). Combination of these technologies leads to miniaturization, higher accuracy of optical sensors and opens possibilities for completely new sensory solutions in many areas (physical, chemical, biological, etc.).



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Workshop of Photonics