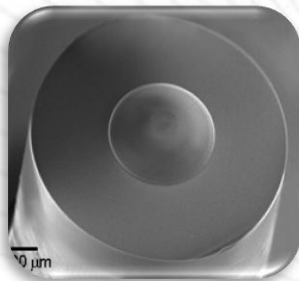




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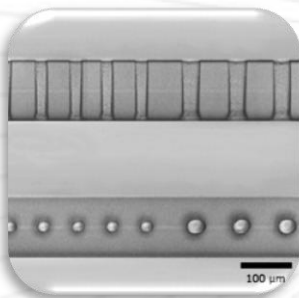
## OPTICAL FIBER FABRICATION

Workshop of Photonics<sup>®</sup>, a laser technology research and development brand of Altechna R&D Co. Ltd, develops techniques for optical fiber processing using femtosecond laser instruments. By applying multi-photon polymerization technique complex structures are formed on the optical fiber tip; by employing advanced laser drilling techniques, holes of various profiles are drilled through all types of fibers; by refractive index modification required scattering structures are formed inside fibers (FBG, ect.).



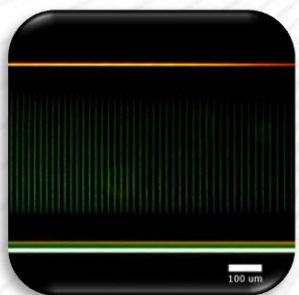
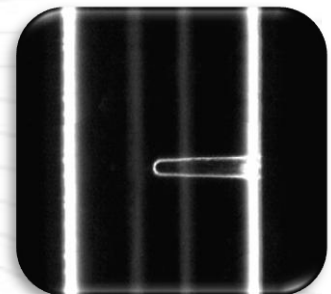
### Micro-optics on the optical fiber tip

- Lenses, prisms, gratings, spiral phase plates, lens with 2D grating, or any other 3D element.
- All type of optical fibers.
- 100 nm to 20 μm resolution.
- Beam formation and coupling applications.



### Drilled fiber

- Profiles of the hole: circle, square, rectangular, ect.
- Diameter: from 10 μm.
- All type of optical fibers.
- Application in optical sensors and micro-fluidic devices.



### Fiber for light scattering

- SM and MM fibers.
- Any type scattering profile.
- Application in photodynamic therapy and FBG sensing systems.



AR coatings, metallization, assemblies are available up on request.

Please contact **Workshop of Photonics<sup>®</sup>** for custom solutions.