

# FBG Sensors & Optical Microstructures

## Componous FBGs

- > Point – by – point laser inscription
- > High spectral quality
- > High temperature stability >70% of Reflectivity above 750°C continuous operation

## Custom tailored to your needs

### Coating

#### Coating types\*:

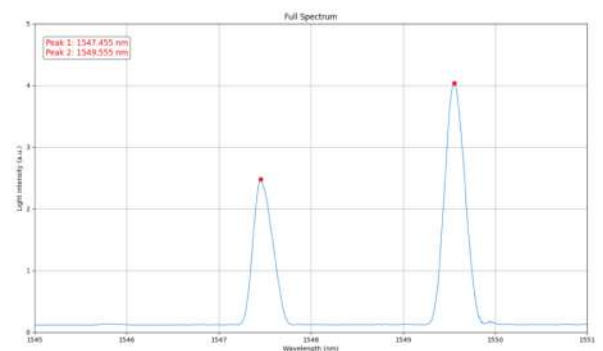
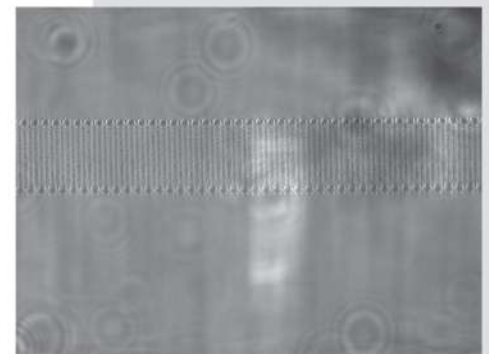
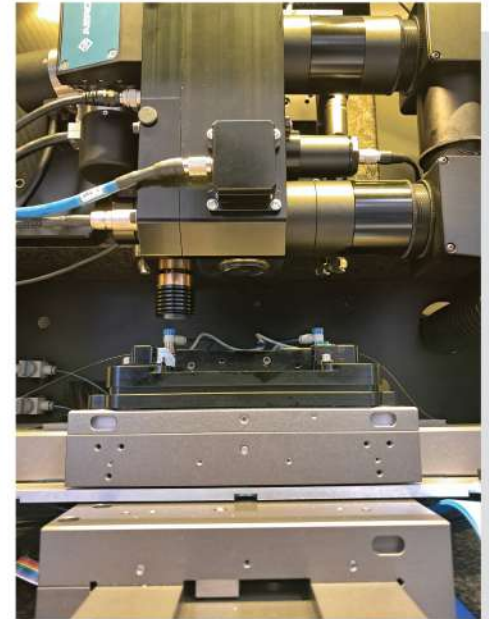
- > **Acrylate** for standard use (up to ~85°C)
- > **Polyimide** for exceptional strain transfer (up to 300°C)
- > **Custom** for special applications (inscription on any step index fiber)

\* custom furcation, metal coating, sensor packaging

### Grating

#### Grating types:

- > **Top-hat (uniform)** for standard use
- > **Apodized** for improved spectral clarity
- > **Chirped** for broad spectral reflection
- > **Tilted** for multi-parameter sensing
- > **Phase shifted** for ultra-precise measurements
- > **Custom FBG arrays** for multipoint sensing



“Don’t see exactly what you need?  
Contact us, and we’ll make it for you!”



[componous.gr](http://componous.gr)

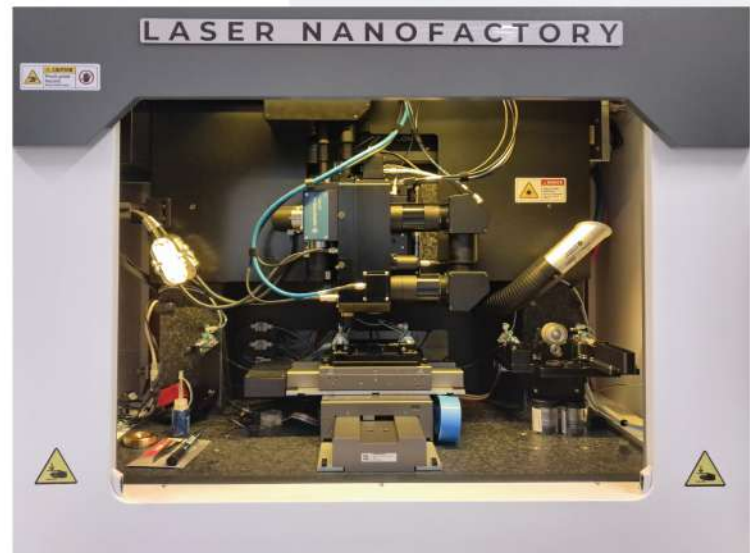
## Free Form Micro-Optics

### Two-Photon Polymerization

- > 3D polymer microstructures
- > Free-form & complex geometries
- > Sub-micron precision
- > TPP capabilities at sizes up to 10 x 16 cm

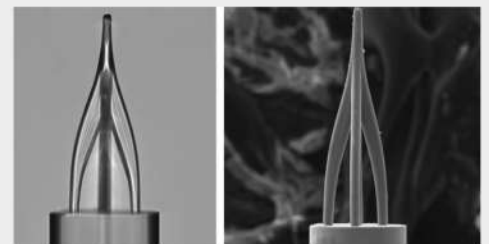
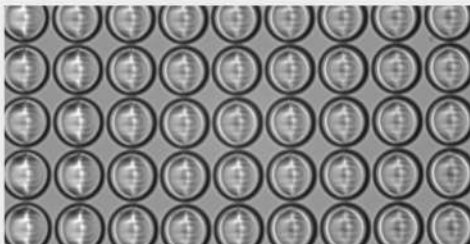
### Glass Machining

- > Laser ablation
- > Selective Laser Etching (SLE)
- > Waveguide inscription



### Manufacturing capabilities

- > Micro-lenses and arrays (Lenses, collimators, diffusers, beam splitters)
- > Structured optical fiber sensors
- > Waveguides & integrated photonics (Embedded optical paths, interconnects)
- > Optical fiber tip structuring or selective etching capabilities



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