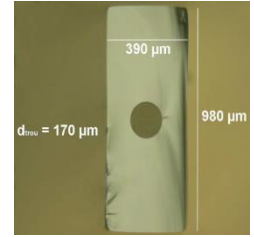
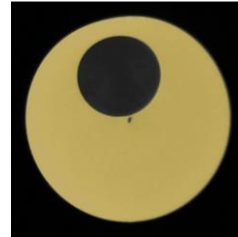
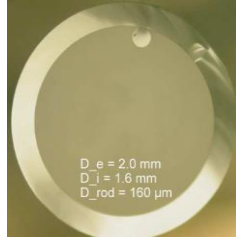
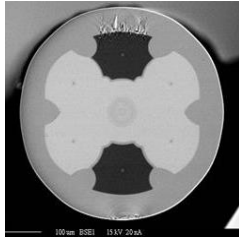
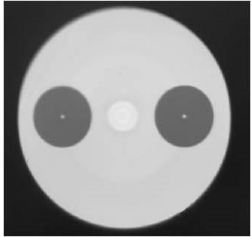




SPECIALTY OPTICAL FIBERS

Custom optical fibers to meet your specific needs



FIBER FABRICATION EXPERTISE

We select the best solution and use our broad experience to develop custom optical fibers tailored for your application

Fiber types and expertise

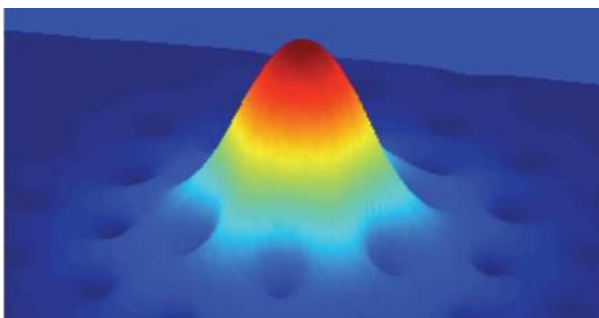
- Silica optical fibers of various chemical compositions
- Single, double, and multicladd rare earth doped optical fibers
- Low-photodarkening Yb-doped fibers
- Polarization maintaining (PM) optical fibers
- Microstructured optical fibers
- Custom capillaries; circular/ non-circular cross-sections
- Fiber post-processing
- Polymer optical fiber drawing

Applications

- Fiber lasers and amplifiers
 - High peak-power applications
 - Endcaps
- Biophotonics
- Optical fiber sensors
 - Physical sensing
 - Chemical sensing
 - Opto-fluidic systems

FIBER MODELING AND SIMULATION

Mode profile, NA, birefringence, dispersion, bending losses, etc.



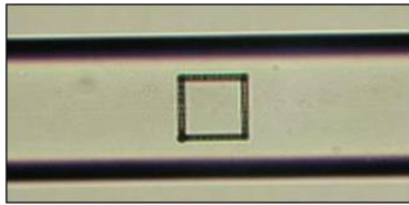
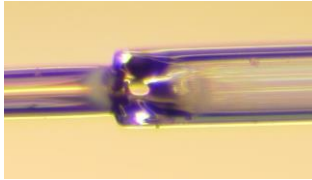
MANUFACTURING

From preform fabrication to final fiber drawing



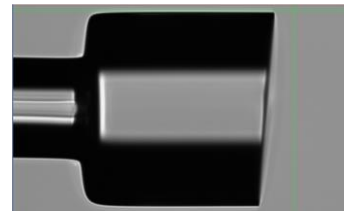
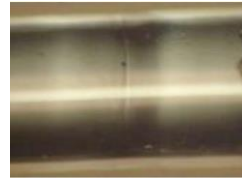
LASER MICROMACHINING OF SPECIALTY OPTICAL FIBERS

Drilling



Micron-scale micromachining of grooves and holes in fibers

Welding



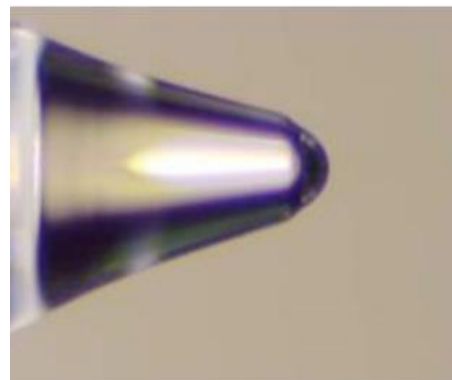
Adhesive-free components assemblies using laser welding

Cleaving



Laser cleaving for unique cleaving angle control and reproducibility

Lensing



Fiber lensing with curve radii down to 5 μm

FACILITIES

- MCVD and glass lathes
- Fiber drawing towers
- Ultrasonic drilling equipment
- Laser micromachining application labs
- Characterization and modeling of photodarkening in active fibers