

For Medicine and Laser Power Transmission

Melt a Spherical Lens on the Fiber by Yourself

Optical fibers with melted spherical lenses of a defined size are used in particular in medical technology and laser power transmission. LASER COMPONENTS offers the Lens Forming Station (LFS) from 3SAE that reproducibly makes these fiber tips. Operation is easy: Simply enter the desired diameter into the software, the LFS produces the sphere fully automatically and subsequently measures it. The production of the lens can be monitored on the display throughout the entire process.

An extremely round shape is guaranteed as the fiber is vertically fixed in the LFS and rotated around the longitudinal axis during the melting process. The "ring-of-fire" melts the fiber in the plasma produced. The alloy of the electrodes ensures that no detectable impurities remain on the surface.

The precise mechanical design, the high-resolution optics, and the complex software make it possible to process fibers with glass diameters between 125 µm and 600 µm and coating diameters up to 900 µm.

The software consists of an engineering mode and a user mode: In the former, programs are created for different fiber materials and diameters; in the latter (user mode), only existing programs can be selected and started.

More Information

<http://www.lasercomponents.com/de-en/product/lens-forming-station/>

Trade Shows

OFC 2015, Mar, 24-26, 2015, Los Angeles Convention Center, Los Angeles, **Booth 2424**
 DSS 2015, Apr 21-23, Baltimore Convention Center, Baltimore, MD, **Booth 1125**
 Sensor+Test 2015, May, 19 - 21, 2015, Messe Nürnberg, Germany, **Booth 12.117**
 Anga Com 2015, Jun, 09 - 11, 2015, Messe Köln, Germany
 LASER. World of Photonics 2015, Jun, 22 - 25, 2015, Messe München, Germany, **Booth B3.303**

The Company

LASER COMPONENTS specializes in the development, manufacture, and sale of components and services in the laser and optoelectronics industry. At LASER COMPONENTS, we have been serving customers since 1982 with sales branches in five different countries. We have been producing in house since 1986 with production facilities in Germany, Canada, and the United States. In-house production makes up approximately half of our sales revenue. A family-run business, we have more than 170 employees worldwide.