

**Press release**  
**july 28, 2011**

## **High-power product for laser medicine: Tapered Bare Fiber**

*Rheinbach – The LightGuideOptics Group is one of the leading manufacturers of Tapered Bare Fibers in the world. This medical probe offers a clear advantage to customers who need to launch with a larger light diameter into the fiber at the Laser side (proximal end) than needed at the application side (distal end). This allows a very flexible usage of the laser apparatus. Lasers that are designed for 400/600/800/1000  $\mu\text{m}$  fibers can now be qualified for applications with 200  $\mu\text{m}$  fibers. The taper generates excellent power and adequate energy on an extremely small spatial dimension unit.*

Numerous customers of LGO have been convinced by the utilization of the Tapered Bare Fiber over the last several years. Production with a core ratio of 2:1 is possible. For instance starting with a 400  $\mu\text{m}$  core at the laser connector, you can achieve a 200  $\mu\text{m}$  core at the medical application end. Advantages would include a more flexible distal end of the probe, the ability to work with a much smaller scope, enhanced procedure capabilities, and a technical adaption to the laser. Possible alternatives would include a product assortment of Bare Fibers with core diameters ranging from 200  $\mu\text{m}$ , 400  $\mu\text{m}$ , 600  $\mu\text{m}$ , 800  $\mu\text{m}$  and 1000  $\mu\text{m}$ . A variety of fiber end preparations are also available that include Flat, Conical, Ball, Orb and Spherical Tips. LGO provides individual solutions to their customers.

“A lot of users appreciate the value of this special product and favor the Tapered Bare Fiber over the normal Bare Fiber. The quality of the product and the increasing number of orders show that we have reached a milestone in our production”, rejoices the head of Engineering of LightGuideOptics, Hermann Tondorf. “The customer benefits from our efficient product innovation.”

LightGuideOptics Germany GmbH manufactures a variety of standard and custom medical products for applications in Urology, Cardiology, Ophthalmic, Orthopedic, Dentistry, and General Surgery. LGO also manufacture very high quality Fused and Standard Bundles to support the Industrial and BioMedical markets. The company is DIN EN ISO 13485 certified.

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