

Specialty optical fiber solutions

Partnering to create exceptional specialty optical fiber products



Introducing Heracle

Heracle is a Germany-based company that helps its customers explore, successfully source and navigate the many opportunities arising in the global specialty fiber-optics industry. The Heracle team is breaking new ground by partnering with customers and leveraging its wealth of experience and personal connections to develop new products.

The company is located in Jena, Germany, the center of leading-edge research and development (R&D) in optical fiber. Heracle provides customers with a personal bridge to the innovation and breakthroughs taking place in Jena's "optical valley" and other important R&D facilities across the globe.



"People are excited about new opportunities, but they still want to be assured that they are moving in the right direction, with the right product. They also want to enjoy the process of creating new products."

"At Heracle, we build personal, highly interactive relationships with our customers and we work closely with each of them to ensure optimal results."

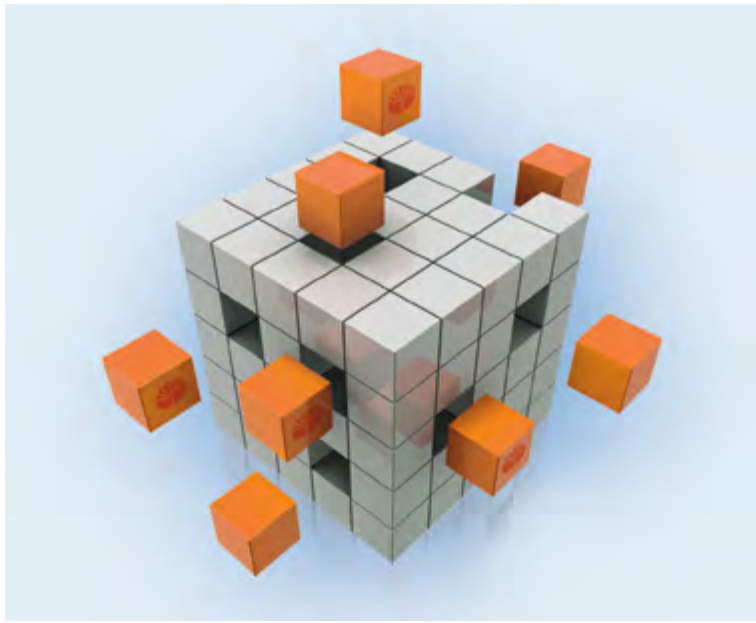
Peggy Baerenklau
President and Founder of Heracle

Heracle designs, develops and produces products for targeted markets and customers worldwide. The products are manufactured using consistent, reliable processes in proven environments. Innovators and established manufacturers value Heracle's ability to create, or complete, concept-to-product roadmaps in a time frame that enables them to maximize profits. Heracle has ready access to the raw materials, suppliers, manufacturers and R&D needed to create superior optical fiber products. The company serves large and small customers that are interested in products that range from:

Step-index to graded-index fiber

Single-mode and multimode fiber for wavelength applications of 200 nm up to 2 μm

Products that operate in temperatures ranging between $-190\text{ }^{\circ}\text{C}$ to $+1000\text{ }^{\circ}\text{C}$



Industrial, Medical and Sensor Markets



Advanced specialty fibers are playing a pivotal role in the components of photonic systems being designed and manufactured for many emerging products and global markets. Heracle is uniquely positioned to leverage the R&D that is taking place in Jena and worldwide to create exceptional products for its customers. The company is highly focused on optical fibers required for sophisticated applications serving the industrial, medical and optical sensor markets.

Heracle expects to see strong growth in specialty fibers used for medical devices due to the progressive adoption of laser-based therapies in healthcare and the growing use of disposable fibers. In addition, increasingly favorable pricing and improvements in the capabilities of sensor technologies are spurring an increase in demand for more capable fiber-based sensors. The new fiber sensors are replacing existing equipment as it is being phased out.

Heracle's expertise and contacts enable customers to enjoy greater success in their individual markets. They also benefit from Heracle's comprehensive market knowledge of the entire value chain involved in fiber manufacturing. This includes the reliability and reputation of the technologies being used throughout the process.

The Fiber

In addition to a wealth of product, system and marketing experience in the optical fiber industry, the Heracle team is well versed in:

Material research on fused silica and borosilicate glass

Preform design and manufacturing

Optical fiber drawing and coating technologies

Characterization of optical and mechanical fiber parameters

Best practices and international standards

Heracle has the ability to tailor fiber to meet customized applications.

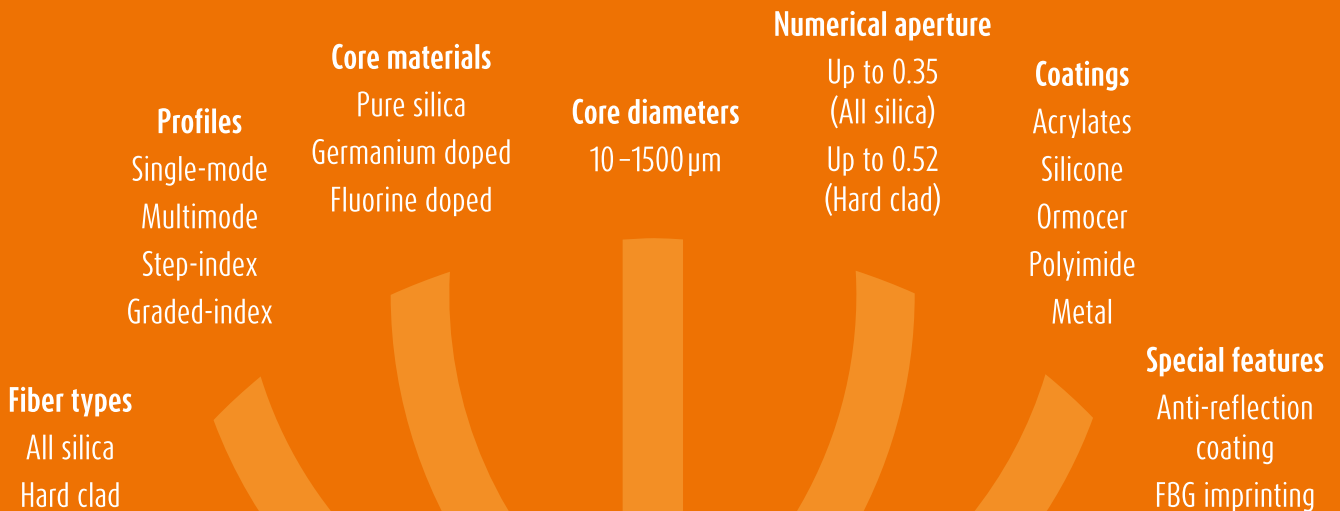


For example, the team can bring the best possible products to market by:

Choosing core material with the best material properties to maximize power transmission

Adjusting the fiber profile to optimize fiber Bragg grating (FBG) writing

Enhancing fiber protection for use in extreme environment applications



Multiple options & combinations available



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Peggy Baerenklau has nearly two decades of experience in the optical fiber and high-technology industries. During that time she has focused on product development, product management and international marketing of optical fibers and preforms for telecommunications and special applications.

Prior to launching Heracle, Peggy Baerenklau served as Global Market Manager of Specialty Fiber and Head of Sales for Europe and the Middle East for Leoni's fiber-optic business unit. Previously, she was responsible for successful market development and establishment of business for preforms, tubes, special fibers and fused silica as Head of Sales and Marketing for Jena, Germany-based j-fiber.



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