# Laser World of Photonics 2023: CeramOptec presents fiber optics portfolio for industry, medicine and laboratory technology

## Multicore fiber optics and germanium-doped fibers as focal points

*Fiber optics specialist CeramOptec will present its complete range of fiber optic solutions for medicine, laboratory technology and industry at Laser World of Photonics. Multi-core fiber optics for laser applications as well as UV-resistant fibers and NCC fibers with polygonal core geometry are the focus of this year's trade show appearance.*

**Bonn/Livani, May 09, 2023 -** CeramOptec will showcase its fiber optics portfolio for industrial, medical and laboratory applications at Laser World of Photonics (June 27-30 in Munich, Hall B2, Booth 308). Focus topics of the trade show appearance are multicore fiber optics for laser applications, germanium-doped fibers for spectroscopy and sensor technology as well as NCC fibers with polygonal core geometry. The fiber optics specialist will also be presenting UV-resistant and metal-coated Harsh Environment fibers.

Designed for use in fiber-coupled industrial lasers, the multicore fiber optics enable better control of beam shaping and power density due to their concentric cores. Cable designs are available from the factory for wavelength ranges from 190 to 1,200, 300 to 2,400 and 700 to 2,400 nm, and with numerical apertures between 0.10 and 0.28. For use in harsh environments - such as high-temperature and high-vacuum applications or in conjunction with aggressive chemicals - particularly resistant fiber jackets made of nylon, acrylate, ETFE (ethylene tetrafluoroethylene) and other materials are available. Customized fiber designs - for example with polygonal core geometries - can also be realized. The fibers of the Optran NCC (Non-Circular Core) product line were specially developed for active laser beam shaping in ablation, coating or cutting applications and are also on board in Munich.

In addition, the fiber optics specialist will present the solarization-resistant Optran UVNSS fibers, which are particularly suitable for long-term applications in UV curing or UV spectroscopy. Also on show will be the germanium-doped Optran Ultra WFGE fibers with a numerical aperture of 0.37 (higher on request) for spectroscopy and sensor applications with particularly high demands on fiber durability and transmission quality. Visitors to the booth can also find out in detail about AL fibers with hermetic aluminum coatings for use in harsh environments. The fibers are suitable for temperature ranges from -196 to +450°C, withstand organic solvents and other aggressive chemicals, and do not outgas even under high vacuum conditions.

For more information on CeramOptec fiber optics, interested parties can visit: www.ceramoptec.com.

**About CeramOptec**

CeramOptec® (Bonn) in cooperation with Ceram Optec SIA (Livani/Latvia) specializes in the production of multimode optical fibers made of quartz glass. The medium-sized company was founded in 1988 and

is now a subsidiary of biolitec AG, one of the world's leading medical technology companies in the field of laser applications. With subsidiaries in China, Finland and Dubai as well as distribution partners in France, Israel, India, Japan, Korea and the USA, CeramOptec has a strong presence not only in Europe but also in the Asian and North American markets. The product range includes preforms, fibers, cables and bundles (assemblies) for numerous applications, including industrial and medical laser applications, semiconductor manufacturing, sensor systems in aerospace and spectroscopic applications in astronomy and the chemical industry. The biolitec group employs a total of 345 people.

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