

GRINTECH Company

GRINTECH is one of the leading manufacturers of gradient index (GRIN) micro-optic lenses and lens systems based on more than 20 years of experience. Together with our customers, we develop, fabricate and deliver medical imaging and biophotonic technology, optical metrology and sensor technology to growing markets.

GRINTECH GmbH was founded in 1999 as a spin-off of the Fraunhofer Institute for Applied Optics and Precision Engineering in Jena, Germany and has grown dynamically with our customer demands. In January 2022, we moved to our new company facility which offers us a doubling of work space, a great step in GRINTECH's history to inspire our creativity and your future needs.

We at GRINTECH support micro-optics technology with our long-standing technical expertise in optical and mechanical design, process development, and reliable customer service.

Products and Solutions

Our original and still main expertise is focused on GRIN-lenses, which are miniaturized lenses having extraordinary good optical performance and flat optical surfaces. The optical power of GRIN-lenses is achieved by a refractive index (GRADIENT INDEX) profile fabricated by a non-toxic silver or lithium ion exchange process in glass. Our unique rod micro lenses have typical dimensions from 250 μm to 2 mm. With diffraction-limited numerical apertures up to 0.45, the flat optical surfaces enable an easy assembly to micro-optical lens systems tailored to your specific requirements.

However, our products consist not only of GRIN lenses, but integrate where necessary also other micro lenses, optical fibers, prisms, filters, beam splitters and mechanical mounts to robust cemented or/and mounted modules according to our customers needs. Derived standard products are magnifying GRIN lens doublets, GRIN-prism assemblies, chromatically and field-corrected high-NA micro-objectives in diameters of down to 1.3 mm, fiber-optic focusing probes or collimators, top-hat beam shaping assemblies for laser diodes, fiber-optic probe heads for interferometric and confocal-chromatic distance sensors, and others.

Applications

- Contactless distance measurement technology (low coherence interferometry, confocal-chromatic sensors), especially where smallest dimensions are required
- Miniaturized microscopy and endomicroscopy (single- and multi-photon fluorescence, CARS, SHG, OCT) in neuroscience, cancer research and medical imaging
- Automotive and print technology
- Semiconductor and electronics industry
- Research

Contact

Please visit www.grintech.de for our catalogue of standard products and more information, our online shop shop.grintech.de for a selection of most popular needle endmicroscopes, or contact us directly for any technical or commercial request:

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