LEISTER®

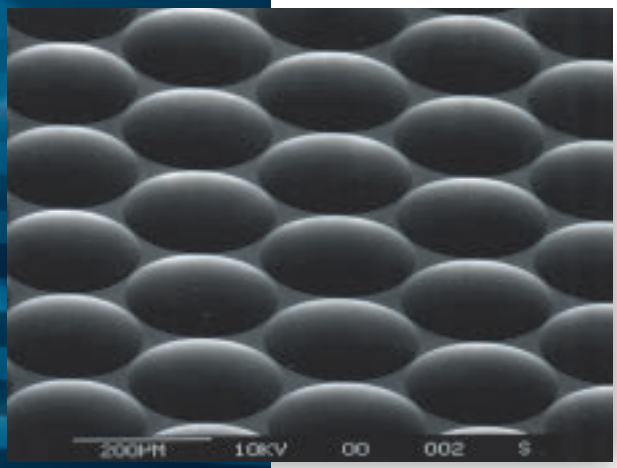
LEISTER Microsystems

micro-optics

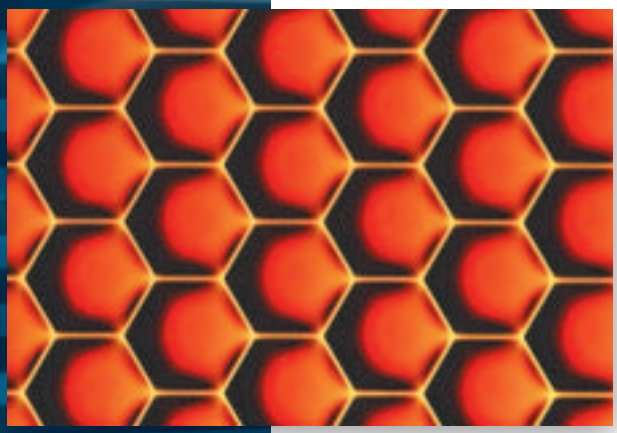
imagine the future of light

LEISTER
Microsystems

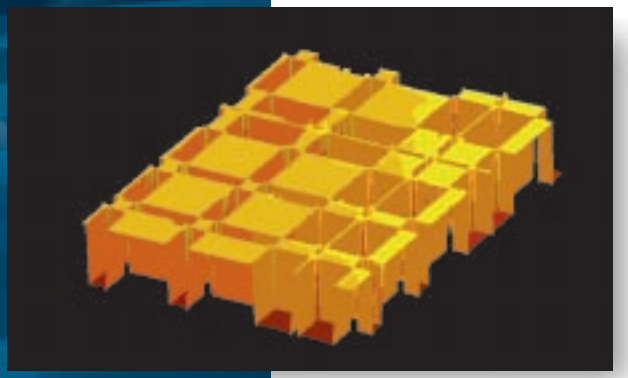
From components



Refractive lens arrays are provided in a range of diameters and focal lengths.



Hexagonal lens arrays provide very high fill factors with minimal space between the lenses.



Diffractive fan-out structures are used for multiple beam generation.

LEISTER Microsystems provides a range of standard and customer defined optical microstructures. These include:

- refractive microlens arrays and
- diffractive structures

which are used either as stand-alone items or as enabling components for advanced optical systems. Micromechanical structures such as V-grooves complement these structures as building blocks for micro-optical systems.

Optical functions

- Collimation
- Fiber coupling
- Beam steering
- Beam shaping
- Diffusing
- Beam homogenizing
- Fan-out / beam splitting

Materials

To provide an optimal solution for your needs our micro-optical components are available in a range of materials, including:

- Fused silica
- Silicon
- Plastics
- Polymer on glass / silicon / GaAs

for applications in:

- **Telecom**
- **Displays**
- **Data storage**
- **Imaging**

to solutions

We start with your early ideas to design optimized micro-optical components and systems to suit your needs.

Whether you need rapid prototyping or large volumes of micro-optics our varied in-house fabrication technologies, combined with external partnerships, allow us to offer you a reliable production solution for your micro-optical devices.

Design

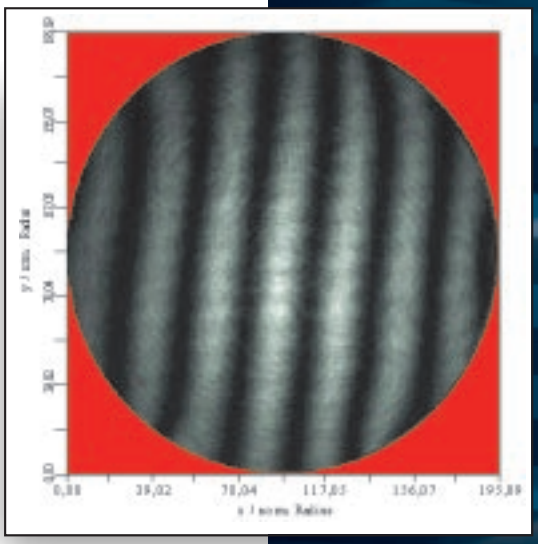
- Optical design and modelling

Fabrication

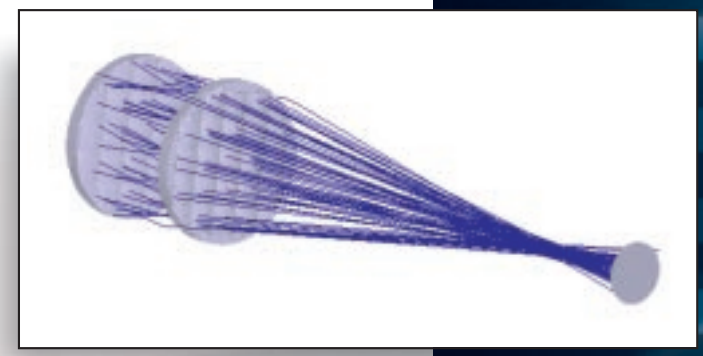
- Prototyping and small volume manufacturing
- Large volume fabrication
- Replication on custom specific substrates and parts

Systems

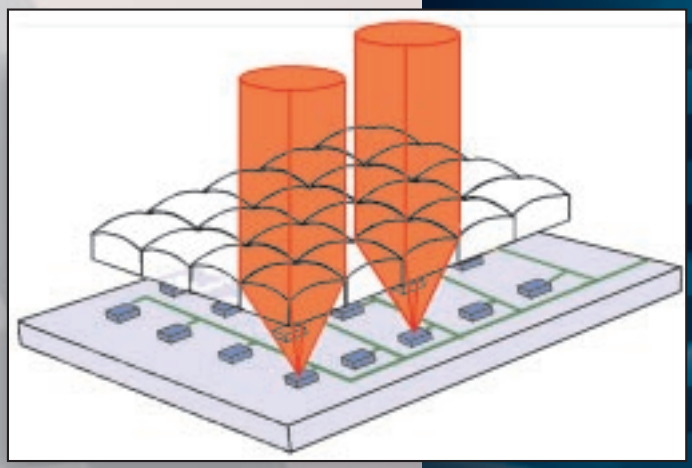
- Stacked arrays
- MOEMS capabilities
- Custom specific developments
- Assembled subsytems



The ability to measure micro-optics is crucial to achieve a quality product. The inferfero-gram shows a microlens with diffraction limited quality.



Good optical design reduces overall development time and ensures optimized final systems.



An important application of microlens arrays is fill factor enhancement in CCD cameras.

- **Laser material processing**
- **Metrology**
- **Optical sensors**
- **Biomedical**

LEISTER Microsystems

A division of LEISTER Process Technologies

LEISTER Process Technologies has 50 years experience in the development, production and worldwide distribution of technical products.

LEISTER Microsystems is the latest division of LEISTER Process Technologies. With our combination of experienced international staff and modern fabrication facilities we provide a one-stop-shop for your micro-optical needs. To achieve this we are integrating all of the steps in the design, prototyping and production process. Our facilities include a class 100 clean room environment, comprehensive lithographic and thin film processing lines and state of the art galvanoforming capabilities. Quality control is ensured by a suite of metrological systems which underpin all of our production processes including a number of custom made, extremely accurate measurement instruments.

We provide full customer service to the highest standards - from initial contact right through to post delivery support. Everything we do is ISO 9001 accredited to ensure the highest quality. Complete confidentiality is ensured in all of our work.

Discuss your application with our micro-optics experts!

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