



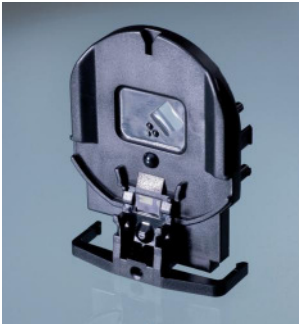
Optical Components

From concept through mass production – we are your partner. From optical design and development through prototypes and mass production molds to fully automated injection molding – we respond flexibly to meet your requirements.



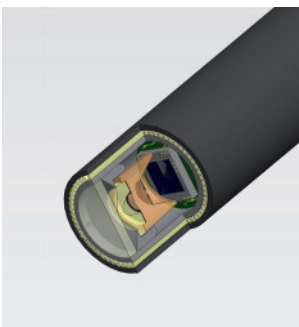
Optoelectrical Systems

We bring your vision to life.



As a system supplier, we produce customer specific precision polymer optical components.

- Spherical, aspherical and toric optics
- Complex 2-component optical parts
- Free-form surfaces
- Optical micro structures (micro lens arrays)
- Diffraction gratings and spherical gratings
- Fresnel and diffractive optics



Development/Design

- Optical, mechanical and system design (ZEMAX, ASAP)
- 3D construction with AutoCAD and ProENGINEER
- Raytracing and stray light simulation
- Tolerance analysis
- Ultra precision technology (SPDT) for prototype production of optical components and systems



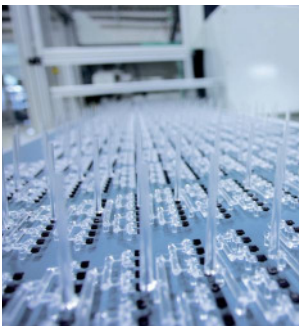
Tool design/ ultraprecision technology

Ultraprecision technology:

- Processing diameters from 0.2 mm to 350 mm
- Shape accuracy $\lambda/4$ (with $\lambda=632.8$ nm)
- Roughness <5 nm (Ra)

Tool design:

- Tool construction
- Production of customer specific injection molds



Mass production of optical components

- 50 injection molding machines with clamping forces of 5 to 325 Tons
- variotherm process management
- Injection embossing (silicone injection molding)
- 2-component injection molding
- Micro injection molding
- Fully automated separation and handling
- Integrated optical inspection during production



JENOPTIK | Optische Systeme

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JENOPTIK | Optical Systems

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