

BERLINER GLAS GROUP – AN INTRODUCTION.

LEARN MORE ABOUT BERLINER GLAS AND THE BUSINESS UNIT
MEDICAL APPLICATIONS.

YOUR PARTNER FOR OPTICAL OEM SOLUTIONS. FROM CONCEPT TO VOLUME PRODUCTION.

The Berliner Glas Group is one of the world's leading providers of optical key components, assemblies and systems, high-quality refined technical glass as well as glass touch assemblies.

With its understanding of optical systems and optical production technology, the Berliner Glas Group develops, produces and integrates optics, mechanics and electronics into innovative system solutions for its customers.

With more than 1,500 qualified and experienced employees the Berliner Glas Group develops and produces optical system solutions at five locations in Germany, Switzerland and China.



SPECIALIZED IN SELECTED MARKETS.

WE HELP OUR CUSTOMERS TO ACCELERATE INNOVATION.



Semicon

- ▶ Lithography
- ▶ Wafer handling
- ▶ 3D Integration
- ▶ Coating
- ▶ Inspection
- ▶ Metrology



Photonics Solutions

- ▶ Space
- ▶ Laser technology
- ▶ High-precision optical components



Metrology

- ▶ Geodesy
- ▶ Photogrammetry
- ▶ Industrial surveying
- ▶ Industrial metrology



Medical Applications

- ▶ Ophthalmology
- ▶ Dentistry
- ▶ Endoscopy
- ▶ Life Sciences



Technical Glass

- ▶ Display glass and glass touch assemblies
- ▶ Glass for devices
- ▶ Structured surfaces

BUSINESS UNIT MEDICAL APPLICATIONS.

CONTRIBUTION TO INNOVATIONS IN MEDICAL TECHNOLOGY.



Ophthalmology

Optical components and systems for

- ▶ Ophthalmic lasers (LASIK)
- ▶ Eye diagnostics (fundus imaging systems, OCT etc.)



Dentistry

- ▶ Dental measuring cameras
- ▶ Dental video cameras
- ▶ Intraoral cameras
- ▶ Caries detection systems
- ▶ Lab scanners



Endoscopy

- ▶ 3-chip cameras, autoclavable
- ▶ 2-chip cameras, VIS-NIR
- ▶ Endoscopes
- ▶ Autoclavable lenses
- ▶ Chip-on-tip



Life Sciences

- ▶ Lens systems
- ▶ Broadband lenses
- ▶ Microscope lenses
- ▶ Laser modules
- ▶ Spectrometers

YOUR CONTACT:

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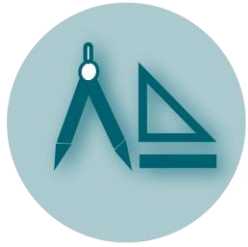
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COMPLETE SOLUTION PROVIDER.

READY TO BE YOUR PARTNER FROM CONCEPT TO VOLUME PRODUCTION.



Design and
Engineering



Certification



Global Supply
Chain
Management



Assembly & Quality
Management



After Sales
Service

ENABLING TECHNOLOGIES: MICROALIGNMENT.

MEET HIGHEST PRECISION REQUIREMENTS FROM EARLY DEVELOPMENT ON.

Features

- ▶ Microalignment and bonding of currently up to 4 components
- ▶ Precision of 200 nm or better – at 3x6 degrees-of-freedom
- ▶ Free selection of quality parameters

Benefits

- ▶ Rapid and economical solution for prototypes and small series
- ▶ Straightforward transfer into dedicated solution for series production
- ▶ Platform concept to protect your application IP

Applications

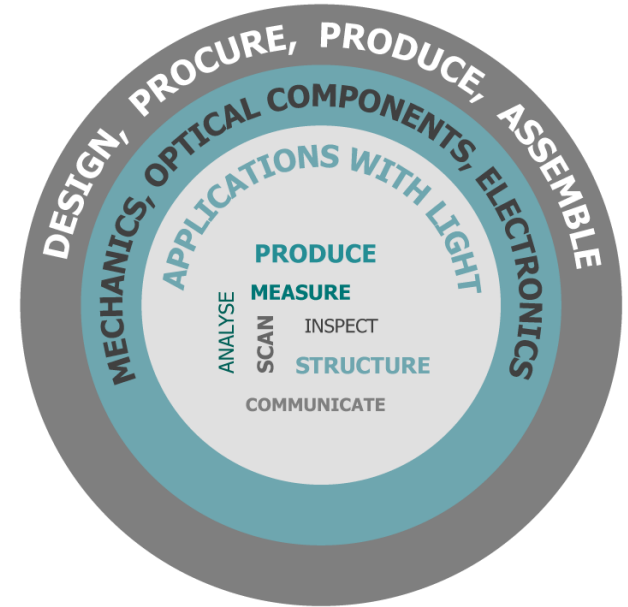
- ▶ High-precision bonding of optical systems:
Prisms, lenses, camera chips, fibers, microoptics
- ▶ Multi-chip prism assemblies for HD, 4K and VIS/NIR applications



WORKING WITH BERLINER GLAS MEDICAL APPLICATIONS.

YOUR SINGLE SOURCE – FROM CONCEPT TO VOLUME PRODUCTION.

- ▶ **Specialized, internationally oriented OEM supplier for medtech and life sciences**
 - ▶ Maintaining a Start-up mindset for conception and initial R&D
 - ▶ Dedicated to employ the latest in relevant technologies
 - ▶ Dedicated to quality and series readiness – shortening your time-to-market
 - ▶ Dedicated to flexibility: batch sizes, technology, vertical integration, improvement of specifications.
- ▶ **Project-experienced worldwide sourcing and procurement**
- ▶ **Design and manufacturing according to ISO 13485**
- ▶ **Proven track record in complete medical devices and critical components**



**WE HELP OUR CUSTOMERS TO GET TO THE TOP.
AND TO REMAIN THERE.**

