

*YOUR PROJECTS REQUIRE RELIABILITY, QUALITY  
AND MAXIMUM ECONOMY.*

*WE ARE SPECIALISTS IN THE LARGE-SCALE  
PRODUCTION OF OPTICAL SUBASSEMBLIES.*

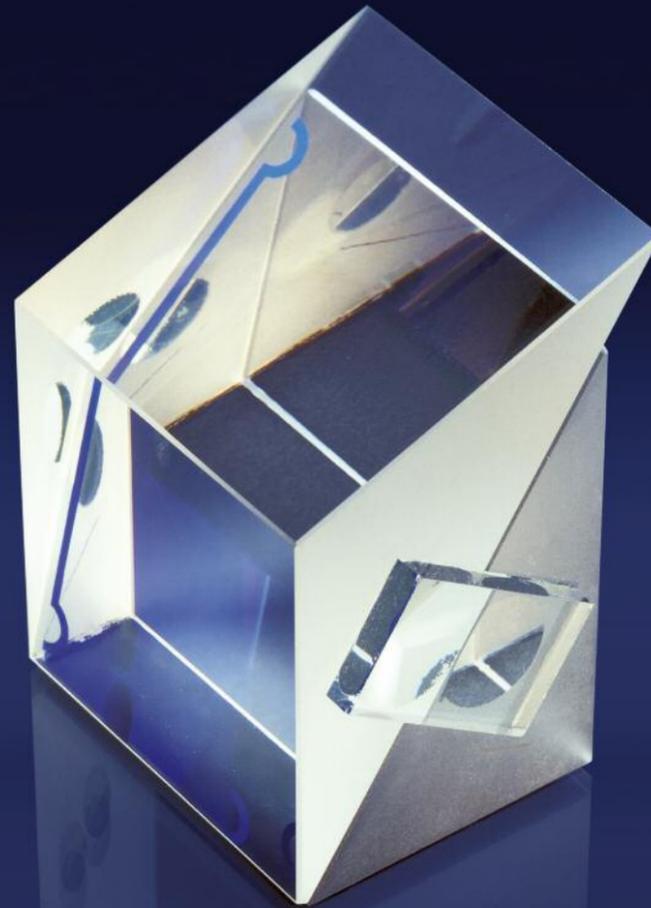
# GOOD REFERENCES.

The Docter Optics Optical Systems division can look back upon over 20 years of experience in the design, production and assembly of optical systems as well as optical, optoelectronic and optomechanical sub-assemblies for clients throughout the world.

This unique experience combines with equally unique production methods based on DOC3D<sup>®</sup> and DOCFast<sup>®</sup> technology to enable us to offer customers solutions that consistently feature high quality and meet or exceed customer expectations.

In the past 20 years, our reputation has spread, and that explains why our list of references includes the names of OEMs from so many different sectors. The following are a few good examples:

- Analytical technology
- Automotive
- Biometrics
- Biological sciences
- Railway technology
- Machine vision
- Aviation and aerospace
- Medical and laboratory technology
- Photovoltaics
- Security technology



# UNIQUE REQUIREMENTS.

Every project is unique. And that's why we pay close attention when our customers tell us what they need and why. That's the kind of approach that builds confidence. It tells you that you can count on us for the services and commitment you need to drive your products. Of course, you can also count on us for complete confidentiality, reliability and compliance with all national and international standards and regulations.



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## COMPLEX SERVICES.

Our Optical Systems division has the resources it takes to offer complex services – experienced engineers, a broad array of technology and a range of services that gives our customers a one-stop source of added value. Services include:

- Feasibility studies
- Optical and mechanical design
- Design and moldmaking
- Production of optical and mechanical components
- Prototyping
- Combination of subassemblies to create entire systems or subsystems
- Large-scale production of customer-specific subassemblies and special-purpose lenses
- Design and production of project-specific inspection systems
- Design of procurement and logistics models
- Documentation based on customer specifications

Dochter Optics production facilities feature state-of-the-art technology. The skilled specialists at our headquarters location in Neustadt an der Orla (Thuringia) use advanced equipment for:

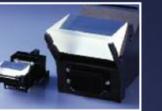
- CNC grinding
- CNC centering
- Advanced coatings for optical components
- Testing and laboratory equipment as well as customer-specific testing equipment
- Flow box assembly and cleanroom technology
- Moldmaking, including spark erosion machines
- Ultrasonic welding to bond plastic and glass

## SYNERGISTIC BENEFITS.

Dochter Optics consists of four independent divisions:

- Optical Systems (OS)
- Automotive Solutions (AS)
- Precision Glass Components (PGC)
- Express Glass Services (EGS)

This unique constellation produces synergistic effects that translate into important benefits for all customers of our OS division. After all, the special processes used in the AS, PGC and EGS areas often permit the use of especially economical optical components that only Docter Optics can offer.



For example, the DOC3D® molding process employed by our AS division makes possible industrial-scale production of large components with optical surfaces on both sides, e.g., aspheres, lens arrays, free-form lenses, prisms and mirrors, and permits exceptional freedom of design.



With the recently developed DOCFast® process, the Docter Optics PGC division can offer customers an economical large-volume production of smaller optical components such as, for example, light pipes/homogenizers or arrays that molded from glass as it leaves the furnace.



EGS is also an ideal source of high-quality blanks for components that can only be produced using conventional methods.

These factors combine to enable the specialists of our Optical Systems division to design individual value chains that feature customer-specific design benefits.



## Headquarters

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