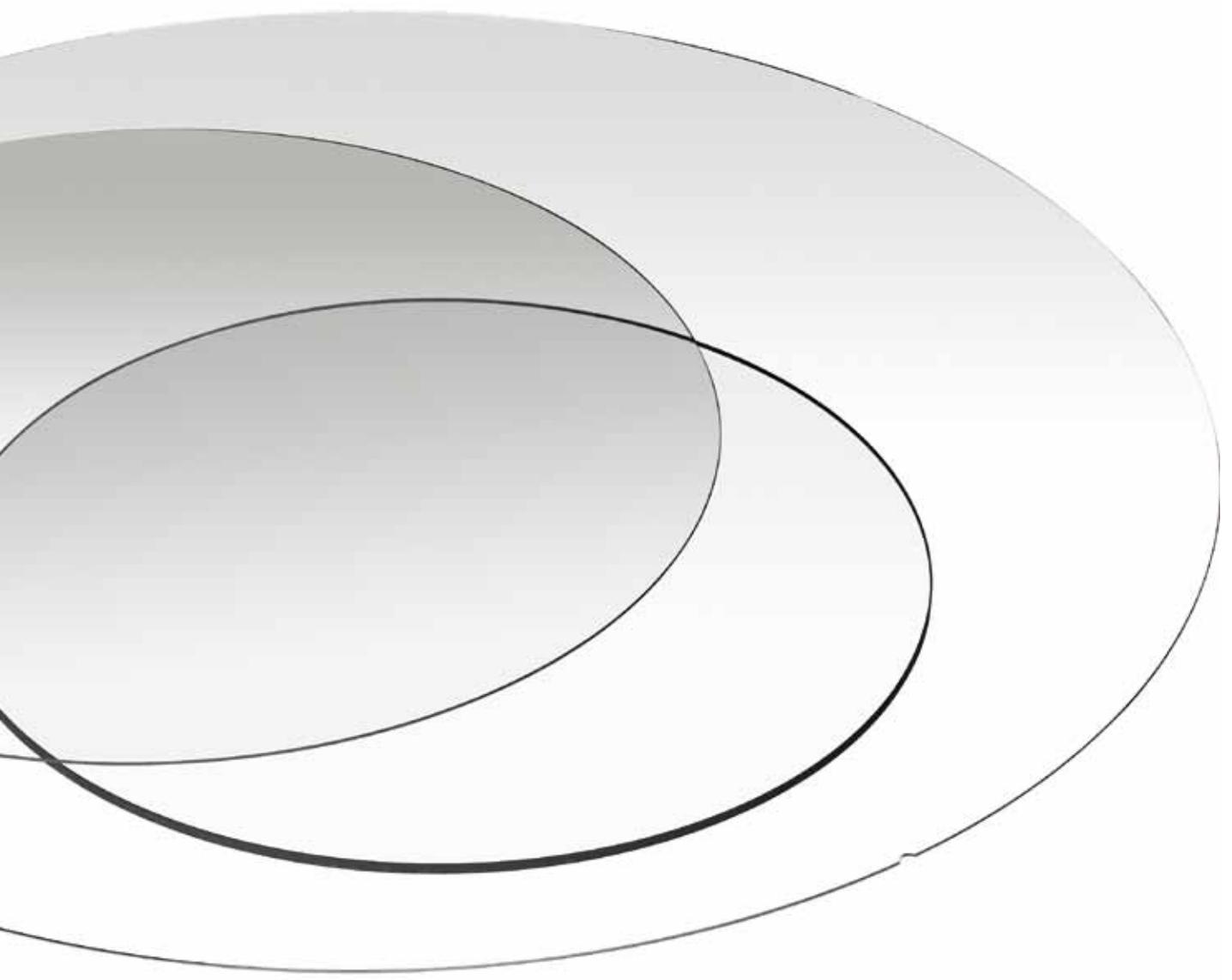


# solutions.

Successful engineering for microsystems technology



# added value.



## EXCELLENCE

### **Advantages through know-how in optics and mechatronics\_**

Our customers – manufacturing companies in the semiconductor and microsystems technology business – count on our quality-components for **lithography, resist coating, rapid thermal processing, chemical vapour deposition, epitaxy** and **metrology** applications. Those are the technologies we know like the back of our hand!

With our professionalism in optics and engineering we know how to support the needs of our customers. We emphasize on their requirements in production as well as process engineering. By helping create innovative processing technologies and clever product designs we highly contribute to our customers' setting themselves apart from their competitors.

In a market of high-precision technologies, which in many areas is influenced by an absolute monopoly or rather oligopoly of a few manufacturers, **amcoss** constitutes a welcome alternative: in cooperation with our customers we help to reduce costs, minimize lead and down times, increase output, improve existing processes and above all, simplify sourcing!

**amcoss** offers all-in-one solutions, starting with the design of any component to supervising the production or repair process, assembly and final quality inspection – **amcoss** creates a veritable additional value; we help to free our customers from being all too dependent in the sourcing process and really leverage the value-added chain!

quality.



## ISO 9001 – A QUALITY STANDARD WE FEEL OBLIGED TO

The consistent growth of our business has shown us that there is a growing demand for our services. The semiconductor and microsystems industry is an extremely quality focused industrial sector. Customer expectations are high and so are our own standards with regard to the quality of our products and services.

The range of our services, our quality management, our production facilities and product portfolio are subject to a process of permanent improvement carried through by our highly qualified personnel. Customer satisfaction is the highest priority – that is our philosophy.

One of our latest strategic decisions has therefore been to have **amcoss** certified according to the DIN EN ISO9001 regulations. With this certification we guarantee that our customers and partners all over the world can rely on our ambitious quality standards. This certification also confirms, that our decision to offer extraordinary solutions with an added value to our customers, has been the correct one.



# ENGINEERING

competence.

## Sophisticated solutions for innovative products\_

### Our competences in optics

- // Production of plane and curved optical components
- // Thin-film-coating with plasma-assisted coating technologies
- // Electroplated and electro-less metal coatings
- // Strip coating and reworking of used components
- // Assembly of optical components
- // Testing (spectrophotometer, interferometer)
- // Product-specific test setups
- // Pyrometer calibration
- // Design of optical parts

### Our competences in engineering and assembly

- // Mechanical design
- // Electrical and software engineering
- // Spin coating
- // Bonding techniques
- // Ceramic thick-film technologies
- // Coordinate measuring technologies
- // X-Ray fluorescence
- // Electron microscopy with EDX

## amcross components – new impetus to your processes\_

We develop, design and build optical and mechanical components for many applications in a microsystems production such as **lithography, coating, rapid thermal processing, metrology, CVD** and **plasma**. Those parts are most often hard to procure, have long lead times or are very expensive when purchased through the OEM.

Thanks to our expert know-how we are also able to offer individual solutions that help to optimize production processes.

In cooperation with our customers and partners we thoroughly analyse the requirements. We design according to our customers' wishes, specify and control the production process. Only experts do count as our production partners. Every manufactured component is tested by ourselves and we also carry out a final inspection. The result will always be a high-end customized product.

### What do we offer?

- // Filters, lenses and mirrors for Canon, Nikon, ASML and Ultratech equipment
- // Wafer-chucks for lithography, coating and other applications
- // Optical fibres either of glass or sapphire
- // Hotplates and coolplates
- // Metal, plastic or ceramics precision parts
- // Wafer handlers, wafer end-effectors, dispense nozzles
- // Optical coatings, protective coatings preventing deterioration and corrosion

# know-how.

## amcoss repair service – therapy for your used components\_

amcoss is also a reliable partner with extensive know-how when it comes to repairs. OEMs sometimes do not even offer reworking and so force their customers to buy new parts or equipment at exorbitant prices. Sometimes lead times for repair services are extremely long, causing unbearable down times for manufacturers. Not to mention, that there are practically no repair services for used parts from outdated equipment.

Over the years our experts have accumulated rich knowledge of production processes, analysing different materials and manufacturing techniques. They possess the knowledge of the composition of various coatings, as well as different techniques to take-off and to reapply those coatings.

At amcoss we also carry out mechanical treatment of components, we test and redo assemblies, we calibrate and exchange optical parts, we do mechanical fine-tuning and are bonding experts.

This qualifies us to rework highly complex mechatronic and optical parts for **lithography, RTP, CVD, EPI, coating** and **metrology** applications in a manner that they equal the original part in quality and performance. We do guarantee for that, with well-defined processes, consistent testing on our own precision-measurement-equipment and our highly developed awareness for quality.

### What do we repair?

- // Lamp house optics for G- and I-line steppers, scanners, and mask-aligners
- // Canon and Nikon shutters and motors
- // Stepper chucks
- // Zygo and HP lasers
- // Robots and controllers
- // Spin-motors
- // Reflector plates for RTP
- // UV reflectors for curing and CVD
- // RTP bearings
- // Gold reflectors for EPI and RTP

REFUR  
BISH  
MENT



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