

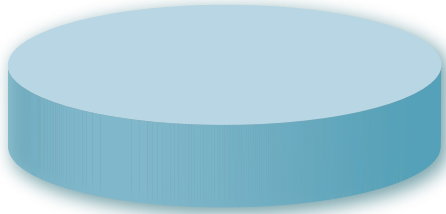
MICROMACHINING

Innovative processing technologies enable new functionalities
for sapphire glasses in medical technology.



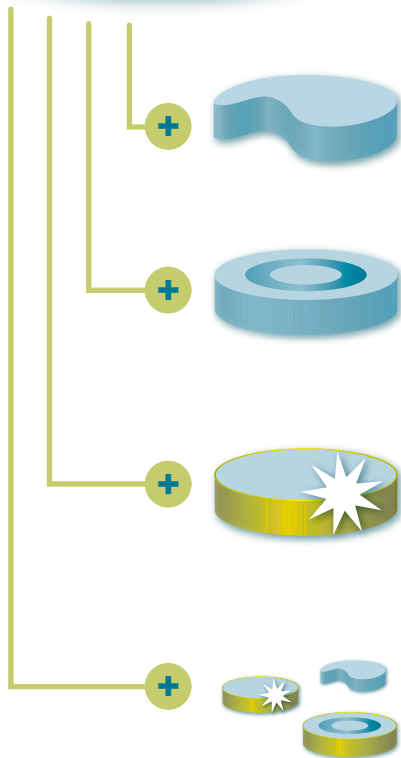
custom made
optical components

As instruments in the medical technology sector become ever smaller and more powerful, the demands made on individual components also increase. With its innovative micromachining technology for cover glasses and lenses, KYBURZ SAPPHIRE provides a clear answer to this challenge.



COVER GLASSES

To produce our cover glasses, we exclusively use qualified raw material that fulfils the highest requirements for purity and crystal quality. The traceability of processes and raw materials is part of our service.



REALISING ANY SHAPES

We bring complex workpiece geometries precisely into the desired shape. Therefore, we use our efficient laser cutting processes which are easily scalable for large quantities.

FUNCTIONALITY AUGMENTATION BY SURFACE MODIFICATION

Our newest processing technologies transform sapphire glasses into high-performance optical elements. Precise internal and external microstructures enable image quality optimizations by containing stray light and reflections.

FUNCTIONALITY AUGMENTATION BY COATINGS

Metal solder layers combined with autoclavable, anti-reflective coatings, or with absorber or mirror coatings: our strong network of partners enables a broad range of refinement solutions. The combination of precise microstructures with coatings opens up new possibilities for design optimisation.

SMALLEST DIMENSIONS

KYBURZ SAPPHIRE has capabilities to produce sapphire cover glasses with spherical surfaces with radii sizes starting at 0.8 mm. By using the state-of-the-art processing technologies, micro-optical design elements can be combined with any external contours.

HIGHEST DEGREE OF PRECISION

Our components fulfil the highest demands in terms of precision and quality. We can ensure this thanks to extensive measuring equipment that also enables very small cover glasses to be qualified according to ISO standards.

LARGE PRODUCTION VOLUMES

KYBURZ SAPPHIRE has the industrialised processes necessary for series production. Our production and measuring technologies are optimised for manufacturing the smallest objects, even in very large quantities.

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