

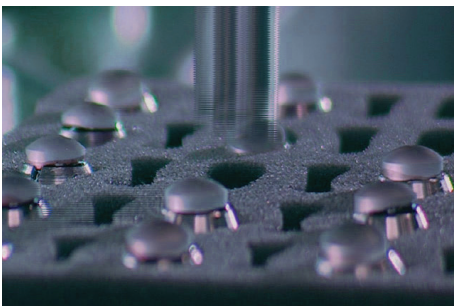
Partner for Development and Production of high-quality optical components

Factsheet



Versatility, Complexity, Precision

KYBURZ SAPPHIRE specializes in the machining of sapphire, ceramics, and other hard materials. Our manufacturing processes are based on state-of-the-art technology designed for industrial serial production. The machinery includes automated systems with up to five numerically controlled axes. The result of such high versatility is our unique flexibility with regard to the geometry and size of our work pieces.



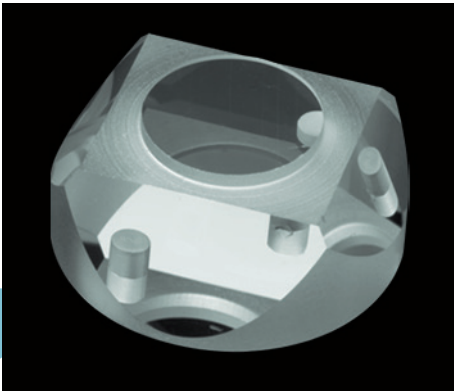
Prototypes, Small and Medium Size Series

Thanks to our machining versatility we are able to offer rapid prototyping. A winning combination of well founded experience and innovative solutions allows us to perform the industrializations required for a successful serial production. Series range from single pieces to hundreds or even several thousand pieces.



The Materials

We machine various kinds of hard materials. Using reliable channels to procure materials from worldwide partners we secure the supply chain. The selection of suitable materials is as much part of our services as its specification, qualification and traceability. In addition to sapphire we also machine YAG, spinel, ruby and oxide ceramics.



Size and Geometry

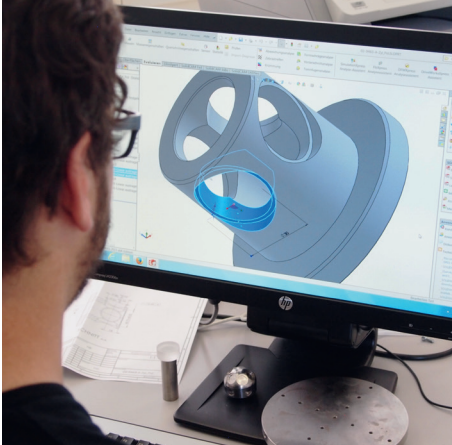
With our equipment we can manufacture parts dimensions ranging from:

- thickness 0,1mm to 250mm
- diameter 0,5mm to 250mm

The range of parts geometries includes flat, angular, spherical, cylindrical, and conical surfaces. We will be glad to advise you on the feasibility and combinability of various geometries as well as the specifics of polished surfaces based on ISO 10110 standards.

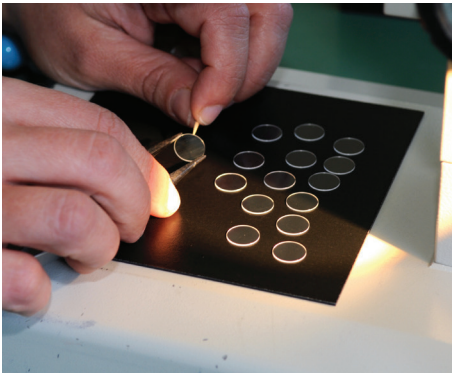


custom made
optical components



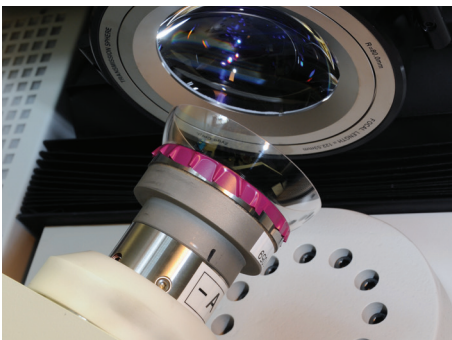
Engineering

Our core competency is the development of custom-made optical components and the corresponding tooling and support systems. Competency and innovation are at the root of our pragmatic solutions. We guide our clients through the entire process, including specification, definition of work techniques, building of prototypes and setting up for serial production. The goal is a prototype that can be reproduced and serially manufactured, including a step by step description of the process and the definition and introduction of measurement techniques.



Coating and other Treatments

Our service includes specific optical coatings (anti-reflex and mirroring) as well as metal coatings and resultant bonding technologies. Furthermore we offer thermal treatments, assembly solutions as well as laser label and reference markings according to customer's specifications.



Guarantee: Top Quality at Every Step

KYBURZ SAPPHIRE stands for 100% Swiss Quality and discretion. You order everything from us and you will receive everything from us. This is our guarantee for quality: choice of materials, machining, refinement – the same high standard at every step. At KYBURZ SAPPHIRE reliability, transparency, and perfection in the machining of hard materials may be taken for granted. All processes are precisely defined and controlled for quality.



Expertise and Individual Consulting

KYBURZ SAPPHIRE is an independent family enterprise with a staff of about 30 skilled specialists. The size of our company allows us to meet demanding customers straightforward and face to face. When you call on us you will find knowledgeable partners supporting you in developing high end technologies.

Victor Kyburz AG

Industriestrasse 15
CH-2553 Safnern
Switzerland

Tel +41 32 355 24 22
Fax +41 32 355 30 52
info@kyburz-sapphire.ch
www.kyburz-sapphire.ch



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