

High End Optics

made in Germany



For more than 25 years dopa has been developing and producing diamond tools, polishing supplies and other auxiliaries for the processing of precision optical components. From this experience we founded our own optics production facility, which manufactures sophisticated plano optics.



You can choose from a wide range of materials for the realization of your product idea.

With great success, we use high-purity quartz glasses, various optical glass types as well as materials such as sapphire, YAG, SiC, aluminum nitride, ZnS, spinel, CaF₂, germanium, metal, aluminum or refractory metals.

Our specialities are plano substrates in any shape:

round, angular, square, ellipsoidal or polygonal shapes – all according to your requirements.

It is also possible for us to produce optics in thicknesses of less than 150 µm. Should your optics need polished chamfers, edges or cylindrical surfaces, please feel free to note that at any time.

Our tools produce very homogeneous, scratch-free surfaces.

Thanks to minimal subsurface damage, we are able to produce precise components meeting the highest requirements for defect clearance, flatness and parallelism.

With a focus on application in laser systems, our standard products are optics with a flatness of $\lambda / 10$ and surface defects 3×0.025 . In order to get the maximum laser power through the optics and to reduce scattering effects to a minimum, we provide surfaces on our optics with minimal roughness.

If desired, we can also manufacture superpolished substrates RMS < 3 Å.

Feel free to contact us and speak with our team about all the possibilities.

- ▶ With the support of our in-house diamond tool manufacturing and process development, we are continuously optimizing our own production processes and venture to take on difficult projects.
- ▶ We are your competent partner for low-, mid- and high-volume products but we also develop and manufacture prototypes in single quantity.
- ▶ In order to guarantee the quality of our optics, we apply state-of-the-art measuring and testing systems from the pre-fabrication stage up to final quality control before shipment. We can also provide you measuring certificates for your optics.
- ▶ For very urgent projects we offer express optics production.