



Microstructuring & finishing.

Finest structures, functionality and aesthetics.

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SwissOptic AG offers a wide range of microstructuring and finishing technologies on various substrates. Moreover SwissOptic develops individual solutions and advises you gladly.

Typical applications are in medical and laser technology, metrology, semiconductor industry, military systems and space.

Specifications*

Microstructures

- Lithographic patterning technologies with back- & frontside alignment
- Structuring dichroic and metallic layers (RGB filter)
- Structured black chrome coatings
- Structures to 1 microns possible with accuracy of 0.2 microns, depending on the design of the structures
- Reticles, targets, masks and apertures
- Angle encoders and encoder discs
- Beam splitter as a perforated mirror
- Luminous structures in glass
- Special low defect coatings
- Graduated or variable-density filter

Varnishing/Painting

- Pad/Screen printing
- Edge/spray painting
- Optical black painting

Surface imperfection

- Assessment according to ISO 10110/MIL-O-13830A/DIN3140
- Specifications depending on the layer system and applications:
 - Lift-off process: 5/C3 x 0.025 over Ø 25 mm (MIL 20/10)
 - Etch process: 5/C3 x 0.025 over Ø 25 mm (MIL 20/10)

* The following error and tolerance data indicate possible limit values.