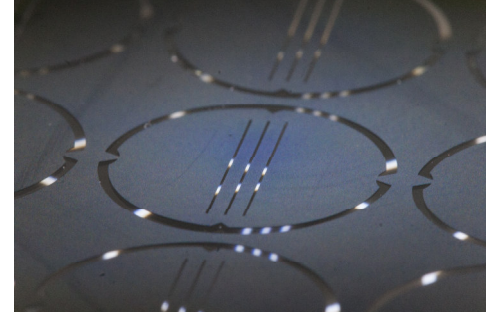


Optical apertures and pinholes

From optical pinholes to more complex aperture geometries - with the temicon technology, many variants of high-precision optical micro-apertures are feasible. The apertures are used in optical systems to correct light beams or to eliminate stray light.

The classical drilled, machined or lasered optical apertures have burrs and often inadequate geometric tolerances. By using the UV-LiGa technology temicon provides optical apertures at highest quality levels. The micro-apertures can be black coated upon request.

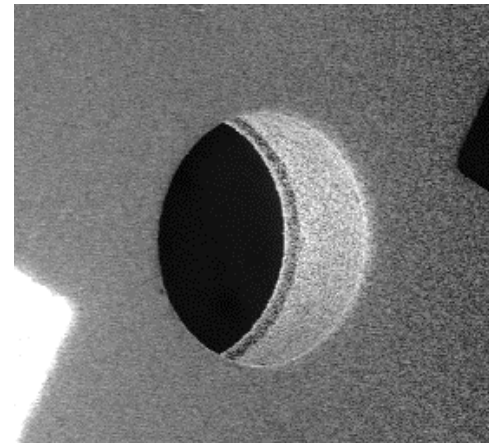


optical apertures, blackened

temicon GmbH

We use lithography and electroforming technology to produce highly precise metallic micro parts at industrial scale. Whenever traditional methods such as milling, punching, laser cutting or photo etching reach their limits, our innovative technologies come into play.

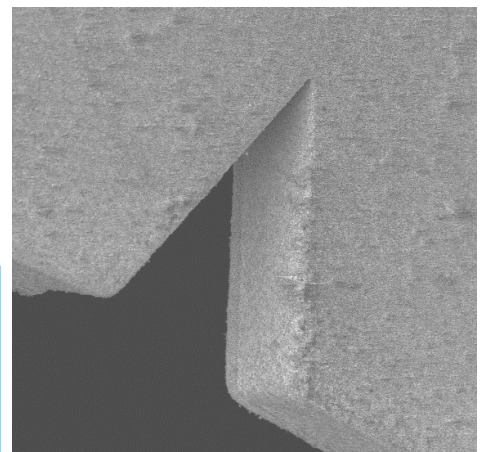
Typically, a large number of metal components are produced in one batch and separated afterwards, which enables a high quality and cost-efficient volume production. The micro structures have dimensions of several 100 μm down to 100 nm.



44 μm hole with sharp edges, 17 μm to the other edge

Specifications

material	soft nickel (~200-250 HV 0,1) hart nickel (~600-650HV 0,1)
coating (optional)	blackened, gold coated
size	up to 100 mm
thickness	0,005 mm – 0,320 mm
structure	0,0003 mm (300nm) – a few millimeter



1.5 μm radius, no burr

We look forward to your individual inquiry!

temicon GmbH

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