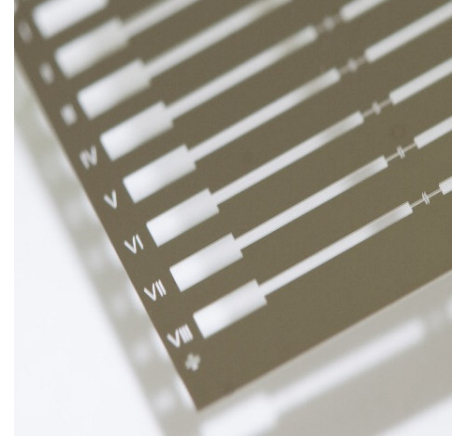


Stencils, deposition masks (PCB, SMT)

Stencils and deposition masks are tools to print or deposit patterned layers on top of a substrate in a cost-effective and high quality process, for example used for PCB (printed circuit board) or SMT (surface mount technology). In the PCB, semiconductor and solar industry screen printing stencils are used to print the conductor tracks.

With the increasing requirements on precision and pattern resolution, electroformed masks become more and more important. Electroformed masks are characterized by vertical, burr-free edges, a long life time and good separation behavior. Due to the additive deposition process of electroformed micro stencils, even very thin stencils can be manufactured in a single-digit micron range.

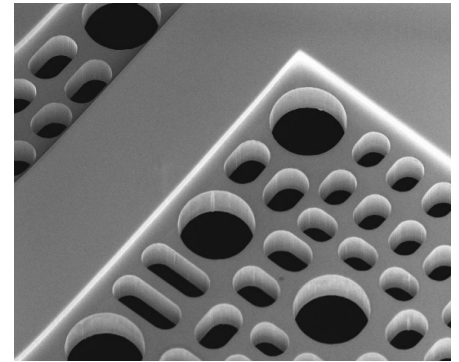


Deposition mask

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.

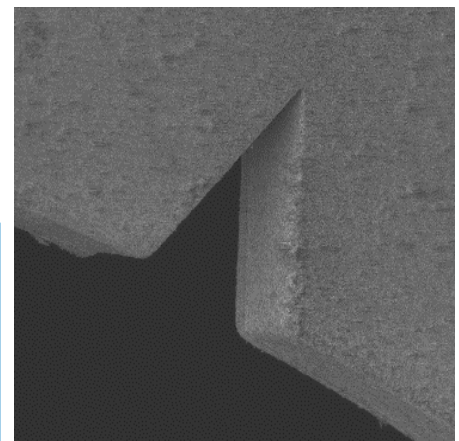
Typically, a large number of metal components are produced in one batch and separated afterwards, which enables a high quality and cost-efficient volume production. The micro structures have dimensions of several 100 μm down to 100 nm.



Stencil, 15 μm holes

Specifications

material	soft nickel (~200-250 HV 0,1) hart nickel (~600-650HV 0,1)
profile	1-step, 2-step
size	up to 350x350 mm ²
thickness	0,005 mm – 0,320 mm
structure	0,003 mm – a few millimeter



Small radius 1.5 μm , sharp edges, no burrs

We look forward to your individual inquiry!

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