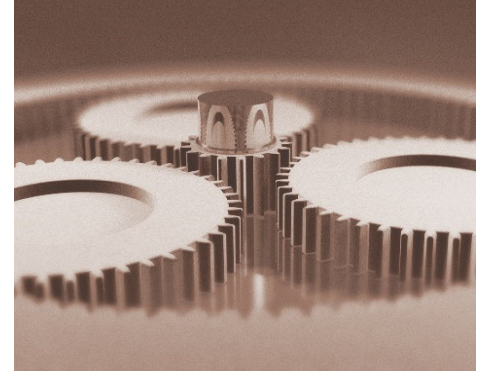


## Micro Parts, Precision Parts, Micro Probes

A wide range of precision parts can be fabricated with temicon's UV-LiGa process (Lithography-Galvanics). For example, electrical contact tips (microprobe), microelectrodes or micro gears can be produced with this technology.

With our specific process variants customized hole profiles in the micro-scale can be made. Cylindrical or conical hole profiles with adjustable sidewall angles are possible as well as two-layer or multi-layer or trumpet profiles. In case of very thin membranes support structures may be processed in a second step, in order to increase the robustness of the part.

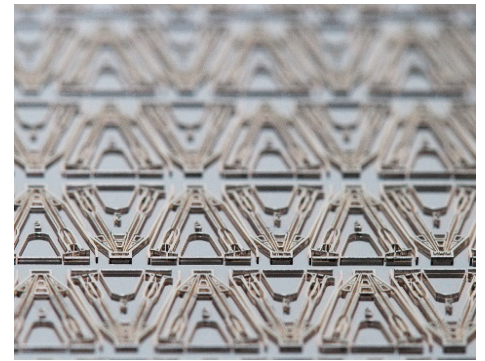


Planetary gears, sharp edges, no burrs

### 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  $\mu\text{m}$  down to 100 nm.



Microprobes. Tip size 5  $\mu\text{m}$ .

### Specifications

material	soft nickel (~200-250HV 0,1) hart nickel (~600-650HV 0,1)
coating (optional)	blackened, gold and other metals
profile	1-step, 2-step, trumpet
size	up to 100 $\mu\text{m}$
thickness	0,005 mm – 0,320 mm
structure	0,003 mm – a few millimeter



Micro gear. 200  $\mu\text{m}$  high.

**We look forward to your individual inquiry!**

temicon GmbH

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