

For many years SITEC has been combining mechanical precision processing and laser micro processing for the production of smallest and high-precision components. This process combination has especially established as highly efficient and process-reliable for the production of components in medical technology, electronics, precision engineering, automotive industry and environmental technology.

**SITEC – Your partner  
for precision manufacturing**

We are your partner for technology and product development and produce prototypes as well as small and large series up to several million pieces per year.

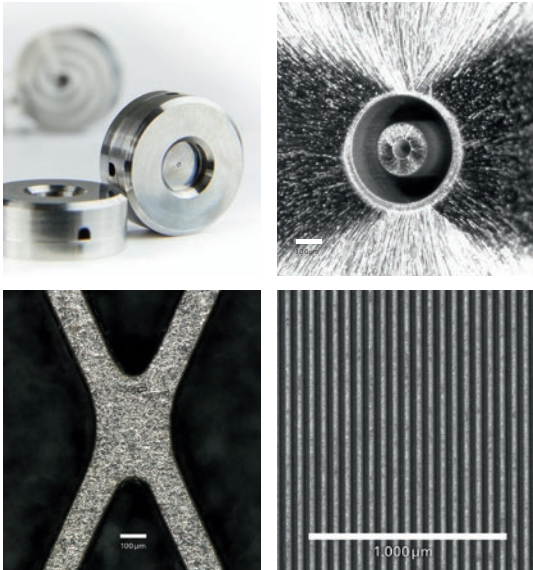
For these services a machine pool of high-precision mechanical CNC machining centers, several laser machines for micro processing and a qualified team are available. Our laser machines are equipped with various positioning systems and processing optics.

Depending on the requirements, CW lasers, short-pulse and ultrashort pulse lasers in the wave length areas infrared, green and ultraviolet are used.

**Products** Our product portfolio in precision processing includes components and assemblies for nozzles, medical films, membranes, micro filters, carrier plates and industrial diamonds.

**Materials**

- Stainless steel and non-ferrous metals
- Semi-conductors, such as silicon, silicon carbide or organic semiconductors
- Polymers
- Anorganic non-ferrous materials, such as ceramics and glass



### Precision manufacturing

#### Structuring | Ablation

- Creating complex 3D free form surfaces
- Selective ablation of thin layers
- Surface functionalization to improve bio compatibility and frictional properties
- Minimal heat input
- High reproducibility

#### Drilling | Cutting

- Creating cylindrical, conical and elliptical drilling forms
- Sharp, burr-free contours
- Smallest wall thicknesses and web widths
- Surface roughness  $R_a < 0,2 \mu\text{m}$
- Any desired 2D geometries
- Accuracy of the 2D geometries  $\geq 1 \mu\text{m}$

### Quality

We produce your precision parts with highest commitment to quality and dimensional accuracy. Compliance to your specification is ensured through continuous optical, fluidic and geometrical tests.

#### IATF 16949 certified production

ISO 9001 und ISO14001

### Mechanical engineering

Alternatively to series production we globally deliver customized laser machines for micro processing including solutions for automation and 24/7 service.

### SITEC contact

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