

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.

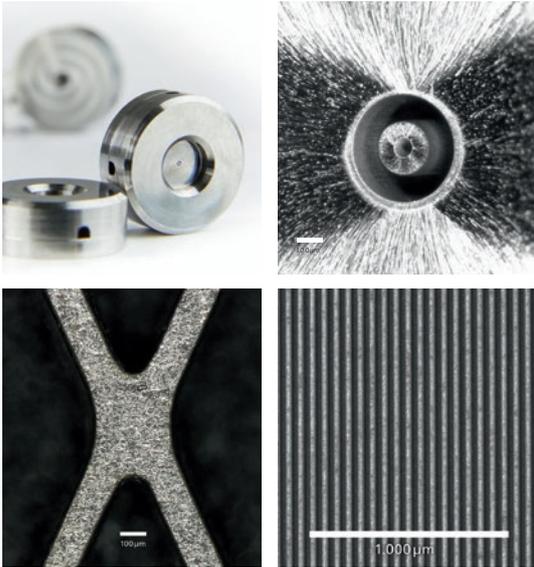
For these services a machine pool of high-precision mechanical CNC machining centers, several laser machines for micro processing and a qualified team are available. Our laser machines are equipped with various positioning systems and processing optics.

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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