# SITEC

## **SERIES PRODUCTION**





## SUB-ASSEMBLIES AND COMPONENTS IN HIGHEST QUALITY







**BUILDING THE BRIDGE BETWEEN TECHNOLOGY DEVELOPMENT AND SERIES PRODUCTION** CREATES VALUABLE IMPULSES FOR TECHNOLOGICAL LEAD



Medical engineering



Energies



Elektronics and semiconductor industry





Certified production location according to IATF 16949 and ISO 9001

## GROW WITH ME CONCEPT

As a long-standing and reliable partner in series production, we make successfully use of the symbiosis of technology competence and production know-how – from technology and product development over prototyping up to series production or mechanical engineering.

For decades, we have been producing high-quality parts and components for growth markets using automated machinery "Made by SITEC".

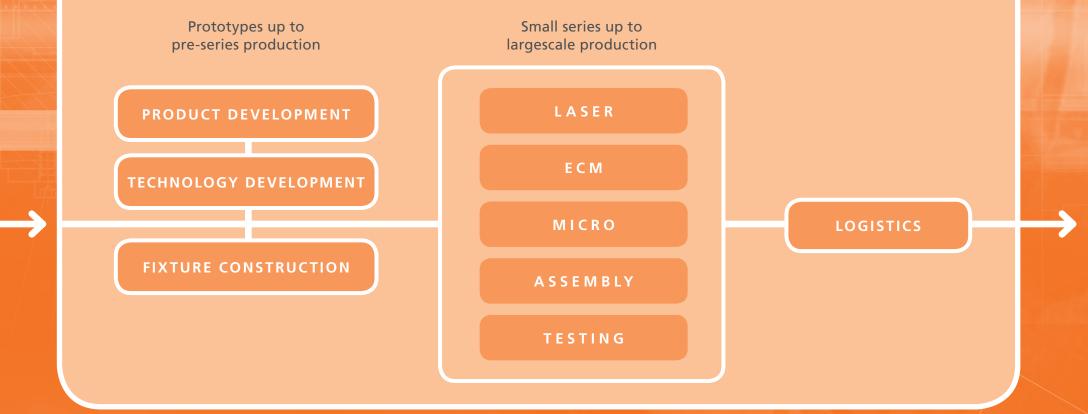
Laser processing, micro and precision machining, electrochemical metalworking and assembly belong to our core technologies.

We thus create resilient added value for our customers across all industries on the basis of reliable system solutions.

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## MORE THAN SERIES PRODUCTION - SYSTEM SOLUTIONS FOR YOUR PRODUCTS

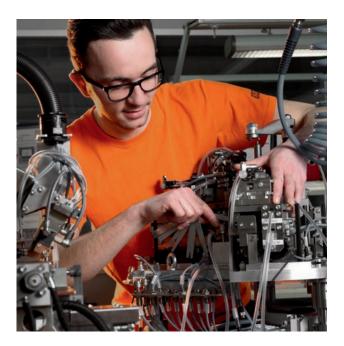
#### SUPPLIER AND QUALITY MANAGEMENT

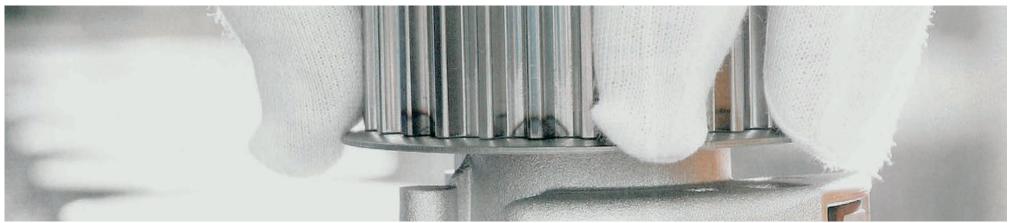


## WE DEVELOP PRODUCTS AND TECHNOLOGIES

As our customer you can expect nothing less than the best. Already in advance we support you in developing technological solutions - process-reliable and economically successful. Many years of experience of our highly qualified application engineers, state-of-the-art machines and system periphery as well as extensive measuring and testing technology in conditioned measuring rooms are available for you.

- Development services
- Feasibility studies, e. g. weldability and hardenability
- Advice on material selection, construction and component design
- Determination of process, production and testing parameters
- Fixture construction
- Production of samples, prototypes and pre-series
- Production of components and assemblies in small to large series





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## READY-TO-INSTALL COMPONENTS AND ASSEMBLIES THROUGH PROCESS COMBINATION

#### LASER PROCESSING

For decades, **laser processing** of complex components made of different materials is our core competence. The process allows 2D to 3D machining down to the micrometer range and is extremely low in distortion due to local heat input. Our laser machines are equipped with different laser beam sources, positioning systems and processing optics.

- Welding
- Cutting
- Hardening
- Coating

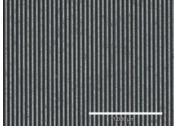


#### PRECISION MACHINING

For the production of smallest and high-precision parts we combine **mechanical precision machining and laser processing**. High-precision mechanical CNC machining centers and several laser machines for micro processing are available for this. Depending on the requirement, CW lasers, short pulse and ultrashort puls lasers in the wave length areas infrared, green and ultraviolet are used.

- Ablation
- Drilling - Turning
- Structuring
- Cutting
- Milling







#### ELECTROCHEMICAL METAL WORKING (ECM)

The ECM process is particularly suitable for deburring drill intersections as well as for generating defined edge breakes and complex geometric structures.

We manufacture from manual to automated extremely economical, precise and with reproducible result.

- Deburring
- Sinking
- Drilling



#### ASSEMBLY

In addition to our machining processes we complete your single parts to ready-to-install, functionally reliable assemblies. Focused on an efficient overall process we take responsibility for the procurement process and further cooperations.

- Oiling and greasing
- Induction heating
- Joining and pressing
- Screwing

- Resistance welding
- Laser marking
- Testing



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## **PRODUCTION COMPONENTS AND ASSEMBLIES FOR FUTURE INDUSTRIES**

For decades we have been manufacturing various components and assemblies for the automotive industry in large-scale production according to IATF 16949.

- Comfort and safety components
- Drive components
- Chassis components

SITEC offers production solutions for laser cladding by powder for the coating of component segments that are function-determining and subject to wear, as well as for assemblies in demand-optimized volume scenarios.

- Brake discs for the reduction of fine dust
- Components exposed to wear





We manufacture key components for fuel cells and solar panels, from prototype to volume production, for the use of sustainable energy sources in mobile and stationary applications.

- Bipolar plates (PEM & SOFC)
- Hydrogen distribution tubes
- Fuel cell and stack components
- Solar cell components

<image>

We process key components for the electronics and semiconductor industries using extremely precise manufacturing processes, such as a water-jet guided laser for processing semiconductors.

- Assemblies and components for electrical engineering and electronics, such as sensors
- Silicon and silicon carbide components for the semiconductor industry



## TRUST IN QUALITY

Quality planning and assurance in series production and a trusting cooperation correspond to our self-image in the production of precision parts.

A team of qualified and experienced QA staff, adequate testing and measuring equipment, a fully air-conditioned measuring room as well as further measuring rooms close to production are available for these tasks.



Quality management to IATF 16949



SITEC SERIES PRODUCTION: ECONOMICALLY SOVEREIGN IN SERIES

## SITEC MACHINERY SERIES PRODUCTION

SITEC Industrietechnologie GmbH Bornaer Straße 192 09114 Chemnitz GERMANY

www.sitec-production.com

SITEC Laser Technology (Shanghai) Co., Ltd. 731B Keyuan Road 88, Pudong 201203 Shanghai CHINA

SITEC Showroom at RM Group Center of Excellence RM Group Pittsburgh Located at JV Manufacturing Co., Inc. 1603 Burtner Rd, Natrona Heights, PA 15065 USA

