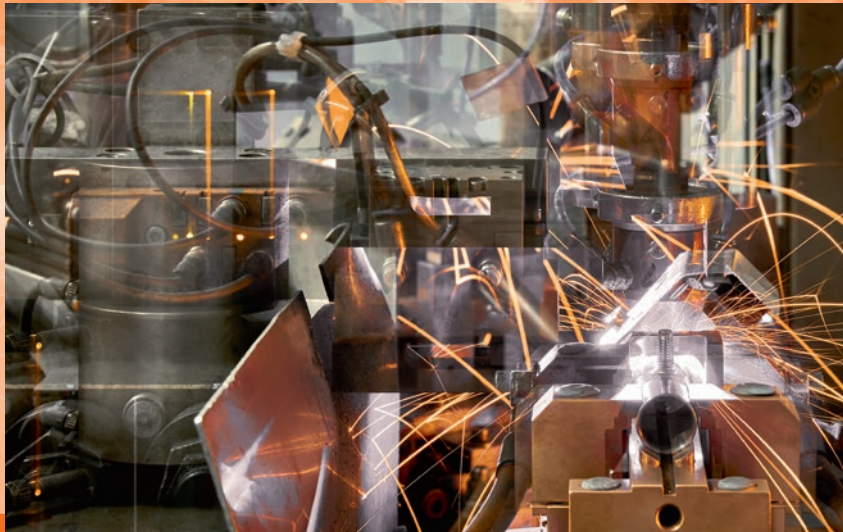


SITEC

SERIES PRODUCTION



SUB-ASSEMBLIES AND COMPONENTS
IN HIGHEST QUALITY

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



Automotive



E-Mobility



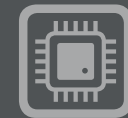
Fuel cell



Medical engineering



Renewable
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 supplying automated machines and production systems and manufacture high quality parts and components in series.

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.

MORE THAN SERIES PRODUCTION – SYSTEM SOLUTIONS FOR YOUR PRODUCTS

SUPPLIER AND QUALITY MANAGEMENT

Prototypes up to
pre-series production

PRODUCT DEVELOPMENT

TECHNOLOGY DEVELOPMENT

FIXTURE CONSTRUCTION

Small series up to
largescale production

LASER

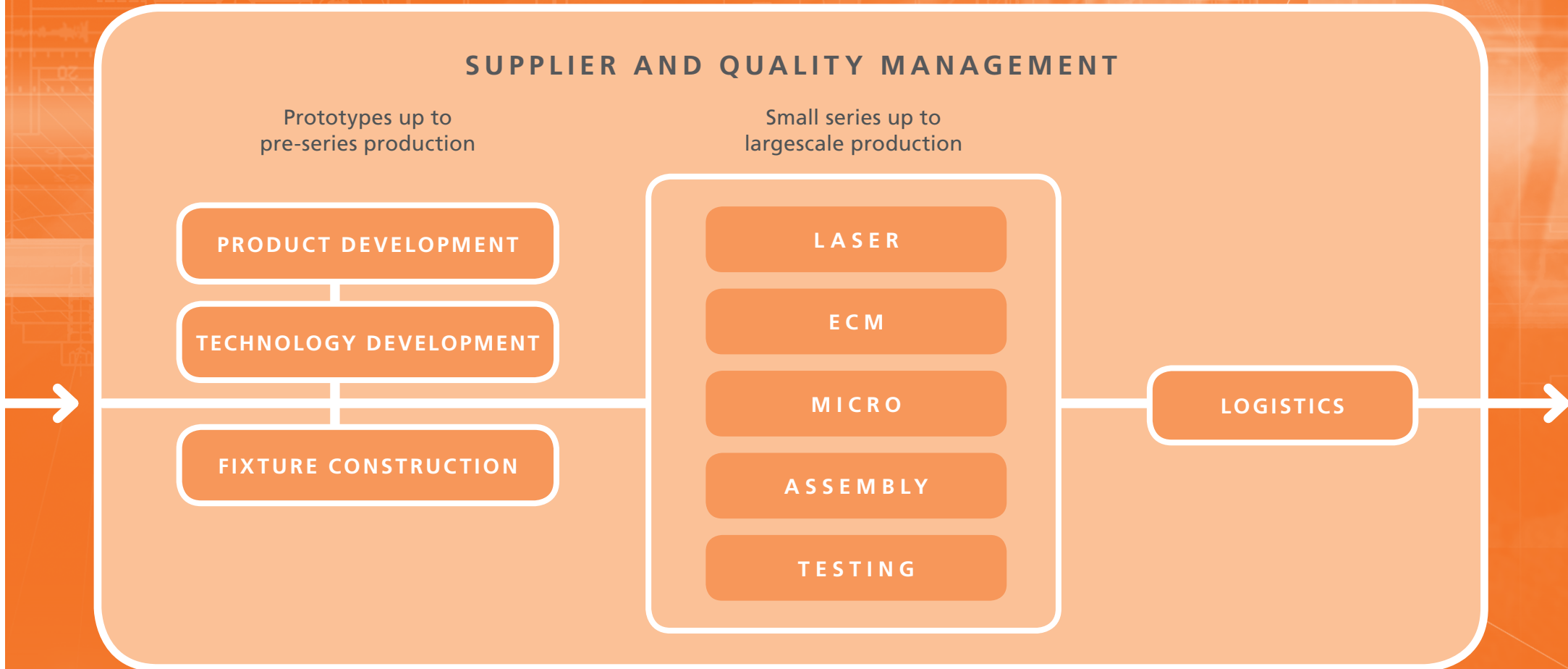
ECM

MICRO

ASSEMBLY

TESTING

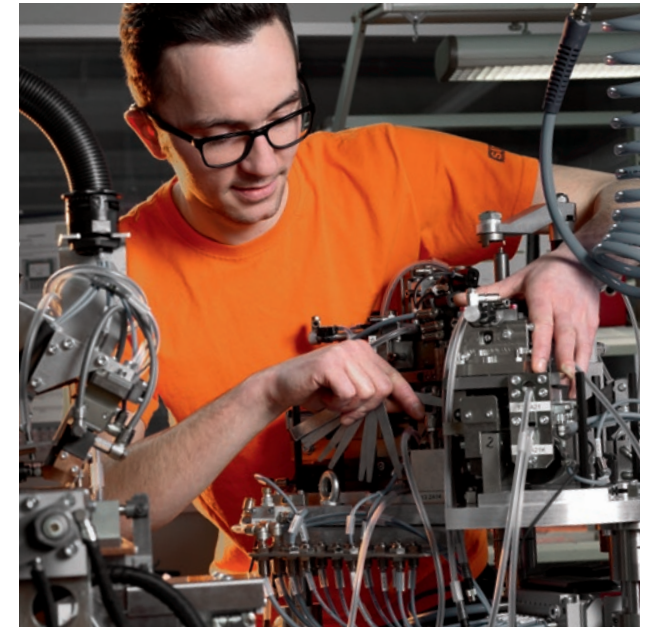
LOGISTICS



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



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.

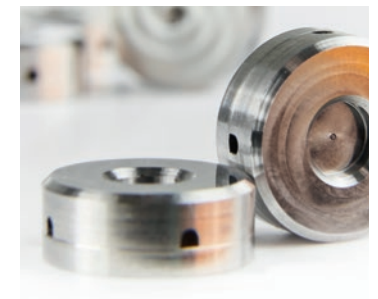
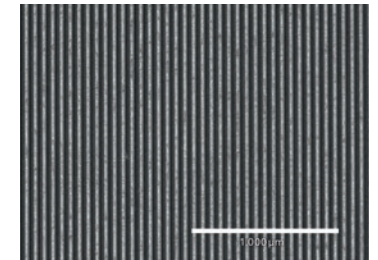
- Welding
- Cutting
- Hardening



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 pulsed lasers in the wave length areas infrared, green and ultraviolet are used.

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



ELECTROCHEMICAL METAL WORKING (ECM)

The ECM process is particularly suitable for deburring drill intersections as well as for generating defined edge breaks 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



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



For the use of green energy in mobile and stationary applications we have been manufacturing key components for fuel cells and solar panels from prototype to large-scale production for years.

- Bipolar plates (PEM and SOFC)
- Hydrogen distribution tubes
- Components for fuel cells and stacks
- Components for solar panels



Thin wall thicknesses, high demands on surface quality and highest precision down to the micrometer range belong to the typical requirements of medical products. We have been processing medical precision parts for years using various process combinations such as the mechanical precision machining, laser micromachining and EC deburring.

- Surgical instruments
- Microfluidic components made of glass and ceramics for diagnostics
- Implants
- Medical films
- Membranes



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

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SERIES PRODUCTION

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