

# EXACTLY TUNED SOLUTIONS FOR MEDICAL CHALLENGES

... MEDICAL TECHNOLOGY THAT SETS STANDARDS

Our expertise in the field of medical technology is based on know-how, state-of-the-art plastics engineering, and high-quality mould construction. In our in-house toolmaking department, we manufacture moulds that are suitable for clean rooms on high-precision machines, which allow us to cater flexibly to customer requirements and to implement necessary changes and repairs promptly. Our demand for quality and precision guarantees that all components meet the highest standards and satisfy the requirements of our customers.

## HIGH-PRECISION MEDICAL TECHNOLOGY MADE OF PLASTIC

Our state-of-the-art production hall is an air-conditioned grey room and serves as an upstream zone for our 230 m<sup>2</sup>, ISO-class-7 clean room. This allows us to create ideal conditions for the production and assembly of

injection moulded parts. The specialised processes in our cleanroom include:

- Laser welding, „clear to clear“
- Ultrasonic welding
- Chemical spotting of injection moulded parts
- Laser cutting
- Part assembly
- Inline production

## QUALITY ASSURANCE IN THE CLEANROOM LABORATORY

In our 20-m<sup>2</sup> cleanroom laboratory, we guarantee the quality of our products by using state-of-the-art analysis methods. High-performance liquid chromatography (HPLC) will play a decisive role as a powerful method in the future. In addition, we prepare reagents and chemicals for production here, in order to guarantee the highest purity and precision standards.



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# PERFECTION THROUGH PRECISION

WE DELIVER  
WHAT MEDICAL TECHNOLOGY NEEDS!

WE SHAPE THE FUTURE



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MEASUREMENT TECHNOLOGY  
AT THE HIGHEST LEVEL –  
FOR MAXIMUM ACCURACY  
AND RELIABILITY IN  
EVERY DETAIL.



## FLEXIBLE AND PRECISE MANUFACTURING

Our injection moulding machines are housed in an air-conditioned room to ensure maximum manufacturing accuracy. Thanks to the housings for the machines and robots, we are also able to meet the strict requirements of ISO class 7 during the injection moulding and handling process, which leads to consistently high product quality.

### MEASUREMENT TECHNOLOGY AT THE HIGHEST LEVEL

To ensure precise evaluation and measurement of our parts within the micrometre range, we use state-of-the-art measuring technologies. These include

- a Keyence VKX series confocal laser scanning microscope,
- a Keyence VL700 3D scanner, and
- a Keyence IM-8000 digital measurement projector.

These devices enable us to carry out detailed and accurate measurements for reliable quality assurance and to comply with the highest standards.

### ADVANCED MACHINES AND DIVERSE MATERIALS

The challenges in medical technology lie, on the one hand, in constructing moulds to meet the technical requirements and, on the other hand, in

finding suitable, highly specialised plastics that satisfy the required properties.

A particular strength of our company is the use of a two-component injection moulding machine, which produces under the demanding conditions of the ISO 7 standard and ensures maximum precision and quality. Our focus is on always ensuring optimal production conditions in every process step as far as possible. Our diverse array of materials includes PMMA, COP, PC, PA, TPU, TPE, PP, PE, etc.

This equipment, as well as the range of materials and products used, enables the efficient production of complex components and, once again, underlines our commitment to delivering the best solutions for our customers. Examples of current products we produce in the field of medical technology include:

- cuvettes,
- corrugated sheets and
- microcartridges.

### CERTIFICATION AND QUALITY MANAGEMENT

Our processes and documentation meet the requirements of ISO 13485, whose certification we aim to achieve by the end of 2025. In addition, our processes are based on the principles of Good Manufacturing Practice (GMP), Good Laboratory Practice (GLP) and Good Documentation Practice (GDP) and are fully embedded in an Integrated Management System (IMS). This combination ensures the highest standards of quality and safety, which are essential for the production of medical technology products.

... WITH OUR EXPERTISE, WE DELIVER TAILOR-MADE SOLUTIONS FOR THE HIGHEST OF DEMANDS.

### WHAT SETS US APART

Our focus in our work with our customers is on a long-term partnership, and is characterised by trustworthiness, accuracy and punctuality. We offer high-precision injection moulding solutions and, of course, in addition to medical technology, we also serve a number of other industries, such as the food and cosmetics industries. Our combination of state-of-the-art technology, extensive experience, and strict quality controls ensures that we always meet the highest standards. Thanks to our flexibility and capacity to innovate, we develop bespoke solutions that are precisely tailored to the specific requirements of our customers.

### STRATEGIC BACKUP

Our process water system offers maximum reliability. This ensures that our production continues to run reliably and without delay at all times. In addition, our heat pump acts as a double backup, which further increases safety. The closed cycle of the system helps to minimize CO2 emissions and thus ensures an environmentally friendly and sustainable solution. Our customers benefit from stable and efficient operation while at the same time protecting the environment.



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FOR US, EVERY  
MICROMETRE COUNTS