



**The Plastics Partner that
makes your vision a reality.**

WAREMA Medical Technology

Der KunststoffPartner



Visionaries. Creators. Partners.

We are the WAREMA Group, with more than 4,800 employees at 25 locations worldwide. We turn visionary ideas into innovative and groundbreaking products. We are genuine creators who enjoy getting down to work and developing new solutions. And we are a reliable partner that our customers can trust.

Plastics & Engineering Division

- / Medical technology, Automotive and Industrial products
- / High-precision mould design
- / Injection moulding
- / Blow moulding

Sun & Living Spaces Division

- / Sun and weather protection
- / Designing living spaces



The Plastics Partner



The SunLight Manager



The sun shading expert

CARAVITA®

The summer manufacturer

EXTERRA

The partner of the food service industry



The external roller blind for heat protection



The specialist for large slat systems

Responsibility for people, society and the environment

Social responsibility for our employees and for the regions where we work as well as a responsibility for the environment have always been a central feature of our company philosophy. Our various certifications and awards are proof of our commitment in this area. Our sites are certified according to the internationally recognised environmental management standard ISO 14001. Our German site also complies with the requirements of the energy management standard ISO 50001.

Our aim is to protect the environment and improve energy efficiency within the company and to reduce our environmental impact and energy consumption – in line with economic, social and political requirements. For this reason we use water, energy and raw materials in a sustainable way.



WAREMA – The Plastics Partner

In the Plastics & Engineering division, the WAREMA Group brings together its comprehensive expertise and many years of experience to product ultra-modern solutions made of plastic. We make your vision a reality.

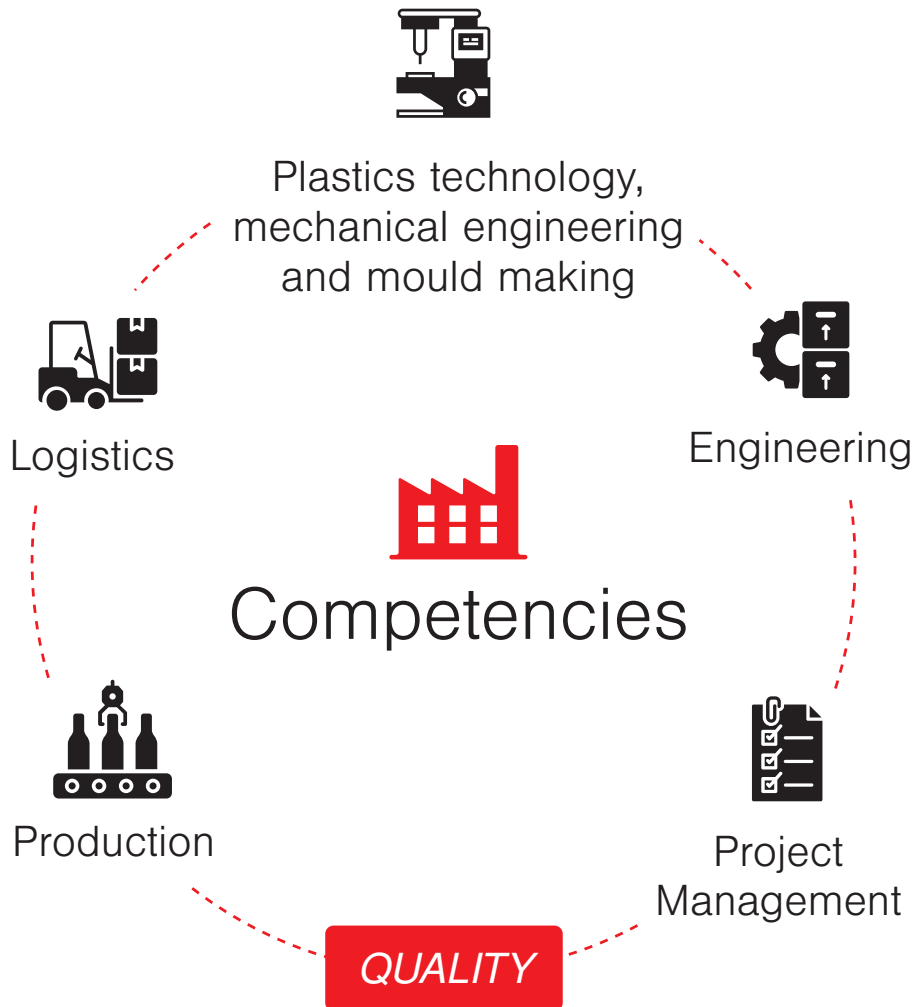
- / 50 years' experience of plastics processing**
- / Development and production in Germany**
- / 400 employees at three locations**
- / Revenue of 70 million euros**
- / More than 160 customers in 33 countries**

*Scan the QR code to find out about
our site in Marktheidenfeld*



WAREMA Medical Technology

Industrialising your requirements



Our experts manage every aspect of your requirements from feasibility studies through to production, approval and logistics.

The benefits of WAREMA

- / **Expertise and experience from a single source**
- / **Reduced interfaces**
- / **Focus on outstanding quality**
- / **Faster production readiness**

Quality and safety for patients

We have many years' experience of developing and manufacturing components and subassemblies for the medical technology, pharmaceutical and diagnostics sectors.

In our cleanroom, which is certified to ISO 14644-1 Class 7 and GMP Class C, our production processes meet the highest standards of safety, cleanliness, sustainability and traceability. We rely on a customer-focused project management system and certification standards in accordance with ISO 13485.

- / Development and manufacturing: Everything from a single source
- / Validated injection moulding processes using high-quality machines, equipment and tools
- / Functional, visually appealing components and subassemblies
- / Customer-specific assembly with laser marking, labelling and packaging
- / Documented, traceable delivery quality
- / Downstream processes such as sterilisation and batch documentation



Areas of Expertise

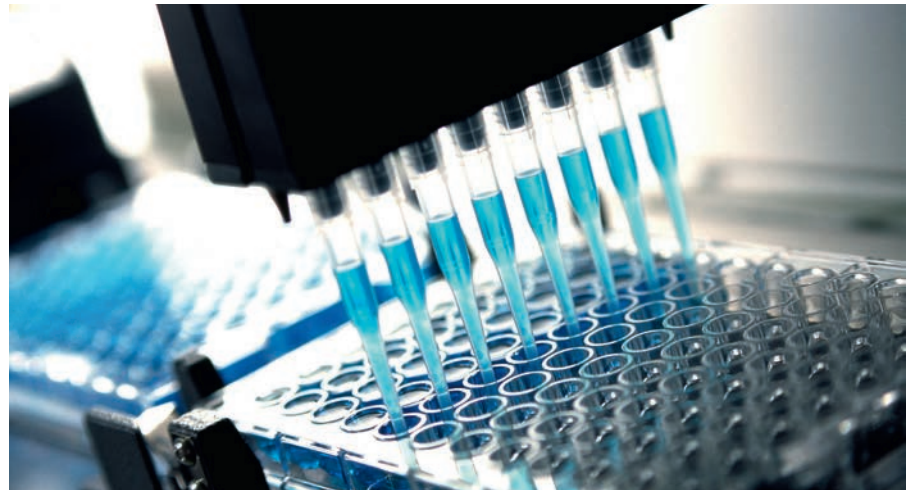
Pharmaceuticals

Hygienic production: Our components for the pharmaceutical industry are manufactured under controlled cleanroom conditions. In addition, we apply anti-bacterial materials as a finish and perform efficacy tests to ensure that our products are completely free of microorganisms.



Diagnostics

Full accuracy: Clear, correct and traceable measurements require components that are free from contamination. Our products meet this requirement and comply with all the other relevant hygiene standards. Precision production methods and carefully defined processes guarantee the functionality of the products.



Medical technology

Perfect performance: As a supplier of subassemblies and components to the medical technology industry, we ensure that our products provide the highest possible standards of patient safety.





Pharmaceuticals

- / Containers and closures
- / Aseptic connectors
- / Liquid fluid handling



Diagnostics

- / Cartridges
- / Analyzers
- / Point-of-care products



Medical technology

- / Ophthalmology
- / Dialysis
- / Surgical lights and support arms
- / Artificial respiration
- / Inhalation

Consultancy, Development, Project Management Expertise from more than 25 years' experience



All projects begin with a detailed consultation process. Your enquiry will undergo a producibility assessment in all our departments from sales, quality management and purchasing through to design, development, tool-making and machinery, plastics moulding and assembly in the cleanroom. We aim to find the ideal balance between your product and our manufacturing concept.

Our team knows exactly which medical-grade materials, which tools and which process technologies are needed to meet your requirements in full.

The members of our project management team constantly monitor the process to ensure that we comply with the requirements of your specific project. We use

project schedules for systematic deadline tracking and documentation. Our team is committed to keeping its promises.

Our products and services

- / Comprehensive producibility assessment
- / Consultancy on materials and process technology
- / Development to your specifications
- / Transparency and documentation



Expert consultancy right from the start

Quality Management

Certified safety



Quality is the top priority at WAREMA. We focus on your requirements from the beginning to the end of your project. Our quality management system, which is certified to ISO 13485, helps us to guarantee this. You can rely on us to fulfil your requirements in the best possible way.

Our certificates*

- / ISO 13485
- / ISO 50001
- / ISO 9001
- / ISO 14001

Our products and services

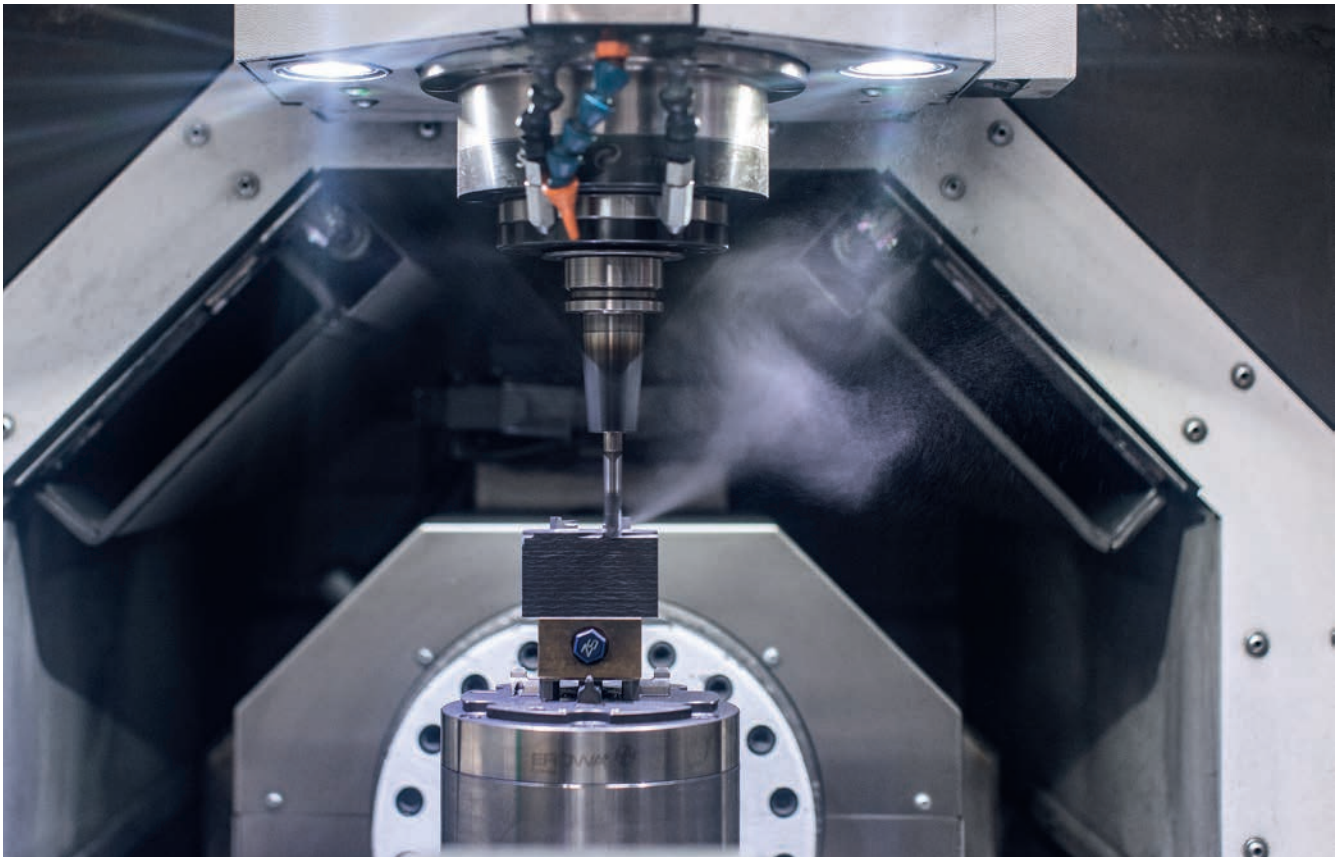
- / Optical and tactile CNC-measuring machine
- / Structured light for 3D digitalisation
- / CNC-controlled coordinate measuring machine (CMM) with touch probe scanner
- / Computed tomography



Continuous quality monitoring
with high-precision instruments

Mould design

For complex plastic parts



We develop and manufacture high-precision and long-lasting injection moulds for producing large or small, single or multiple components in large volumes to meet your requirements. Our wealth of experience makes us one of Germany's leading suppliers of high-quality injection moulds for the medical technology industry.

Our products and services

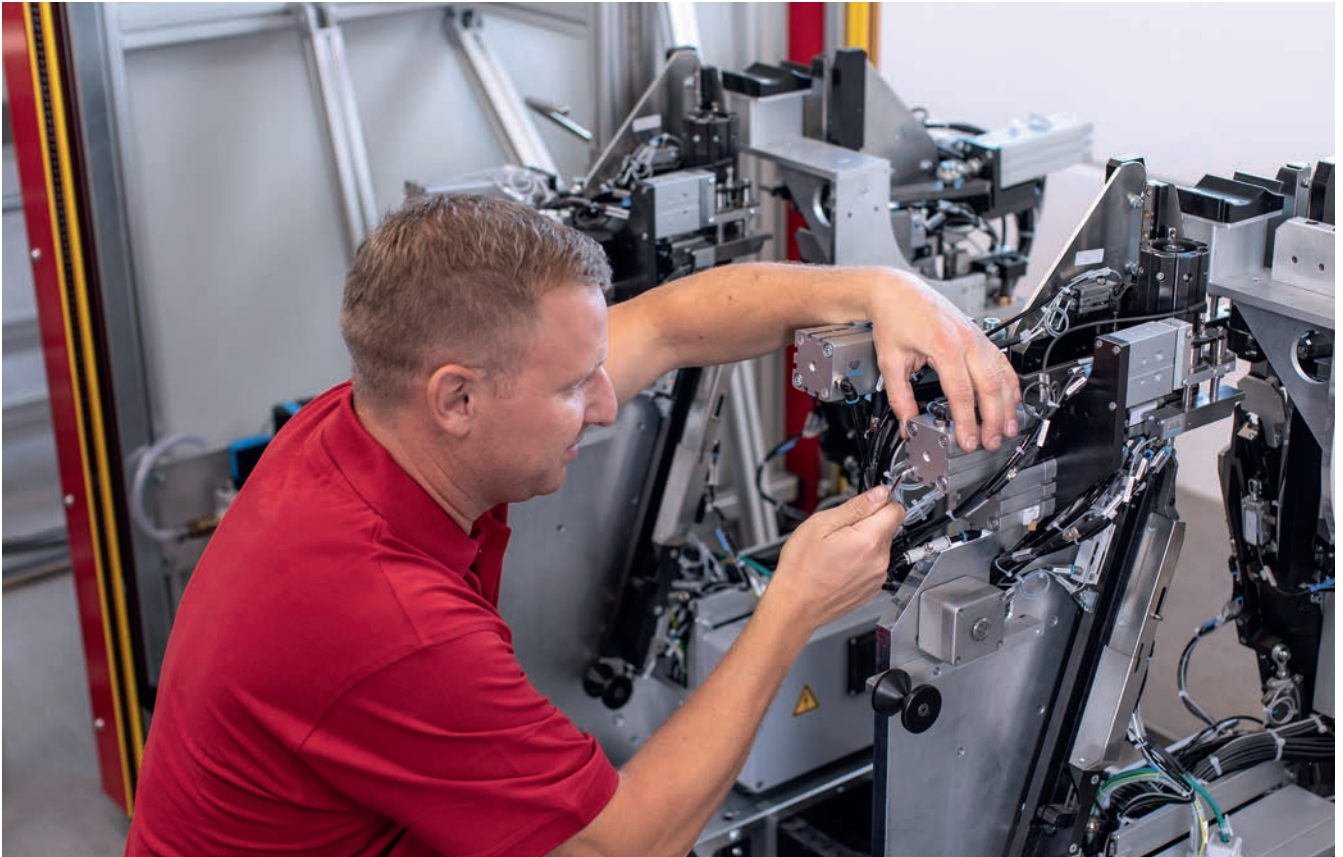
- / Procurement, development and design by experienced engineers
- / Material flow simulation and warpage analysis for optimum output quality
- / Modern machinery for precision moulds
- / Our own measurement room guarantees the quality of electrodes and workpieces
- / Qualified staff adjust, maintain and repair your moulds to assure your investment



Protect your investment in tools with manufacturing and maintenance from WAREMA

Mechanical engineering

Customer-specific automation solutions



We develop and produce solutions based on specific customer requirements and can guarantee the reliability of our processes. This enables us to manufacture complex products cost-effectively and to a consistent standard of quality.

For our internal project processes, our mechanical engineering department provides integrated manufacturing and testing concepts. This reduces the complexity of the processes, the number of interfaces and the time-to-market for you.

Our products and services

- / Development and design of special mechanical and electrical solutions
- / In-house software development
- / Automation solutions provide reproducible quality in plastic moulding
- / In-house maintenance of the machines guarantees permanent readiness for use



In-house mechanical engineering expertise ensures permanent production readiness

Cleanroom and controlled area

Plastic moulding in its cleanest form



Our cleanroom complies with ISO 14644 Class 7 and is certified to GMP Class C. This enables a completely separate area designated specifically for manufacturing plastic parts for your medical products and pharmaceutical components. The temperature, overpressure and humidity in the room are permanently monitored. Regular monitoring of particles and microorganisms adds the finishing touch to our cleanroom concept.

Our whiteroom, located in front of the cleanroom, is also equipped with a high-quality air filtration system. This provides us a variety of options for meeting your individual requirements cost-effectively and to a high standard of quality.

We expand the injection moulding of thermoplastic components by processing them into subassemblies or finished products. Depending on your requirements, this can be done manually or using automated assembly machines.

Our products and services

- / Injection moulding of medical and pharmaceutical products
- / Special machines developed in-house for the automated feeding of inserts, including camera detection
- / Transfer systems for further automated testing and assembly tasks
- / 3D laser marking under cleanroom conditions
- / UDI-compliant labelling – machine-readable and in text form
- / Individual product labelling
- / Assembly of hand-made single units through to automated volume production
- / Packaging in hard or soft blister packs to meet customers' requirements
- / Customer-specific labelling

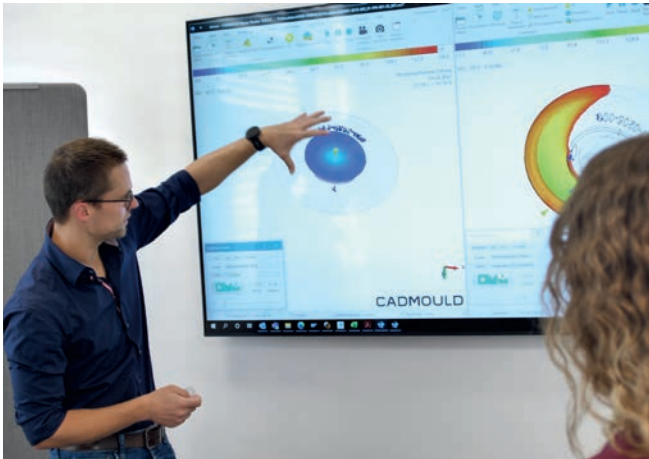


Efficient processes provide the highest standards of cleanliness – accompanied by monitoring of microorganisms and particles



News

WAREMA is constantly increasing its capacity, expertise and production technologies. This enables us to offer you the best solution on the market and to make your vision a reality.



Increased development capacity

We have increased the workforce in our development department by 25%. In addition, our new software tools ANSYS 2021 R1 and CADMOULD provide improved simulation of components and lead to cost and time savings in the development process. This has enhanced our expertise in the development of complex plastic components. That makes it even more attractive for customers to transfer the complete parts development to WAREMA.



Increased production capacity

Due to the growing demand for medical solutions from WAREMA, we have doubled our cleanroom capacity this year and already in planning of additional facilities. WAREMA uses plastic injection moulding machines in the whiteroom that produce "into" the cleanroom. Our extended capacity allows us to deliver high volumes of components on schedule and according to the highest standards of quality.



Laser welding system

Hereby the plastic components are joined together by laser radiation, unlike mechanical welding processes, such as ultrasound or vibration welding. The benefit: that process produces no abrasion or particles. Our laser welding system can process components up to 196x196 mm in size cost-effectively, including in large volumes.





WAREMA GROUP

We look forward to hearing from you.

E-mail: info.kunststofftechnik@warema.de

Tel.: +49 (0) 9391 209900