

Plastic is the future ... is flexible







The future is today. We'll face it. Together.

High-quality plastic products, made by SAMAPLAST AG:



What distinguishes us



Strength

Core competency

SAMAPLAST AG - Specialist in plastics

Innovation, precision, flexibility - that's what makes us special, both in production and in customer service. With six decades of experience, we permanently maintain our know-how in the processing of high-tech plastics and absorbable materials at the highest level. That is our aspiration.

Quality

Quality management

Quality is our job

Developing products and bringing them to market maturity is one of our tasks. Another is the optimal quality of these products, on which you can always rely.

Therefore, quality management according to EN ISO 9001, EN ISO 13485 and MDR 2017/745, 21 CFR Part 820 (FDA), ANVISA and JPAL has top priority at SAMAPLAST AG.

Lean

5S / LEAN

Process optimisation through sustainable lean management

Based on the highest process and product quality, we continuously improve our processes and procedures. We consistently use a wide variety of lean tools, such as set-up time optimisation, value stream analyses and shop floor management.

This enables us to implement all customer requirements flexibly, efficiently and cost-effectively in our optimised production facility. This is what we are committed to day after day.



Risk management

Risk management without compromise

Risk management is an important part of our daily work. We bear a great responsibility in the production of our medical devices, because ultimately life depends on them.

For this reason, a functioning risk management system based on EN ISO 14971 is one of our central tasks. Since this area is of existential importance, we face up to this responsibility: for our customers, for our employees, for our company.

Engineering – a component is created

From the idea to the implementation

Do you have your own ideas for your component? Then we are your partner: Because we leave nothing to chance and develop a tailor-made and market-driven product from your ideas and wishes.





Analysis and optimisation

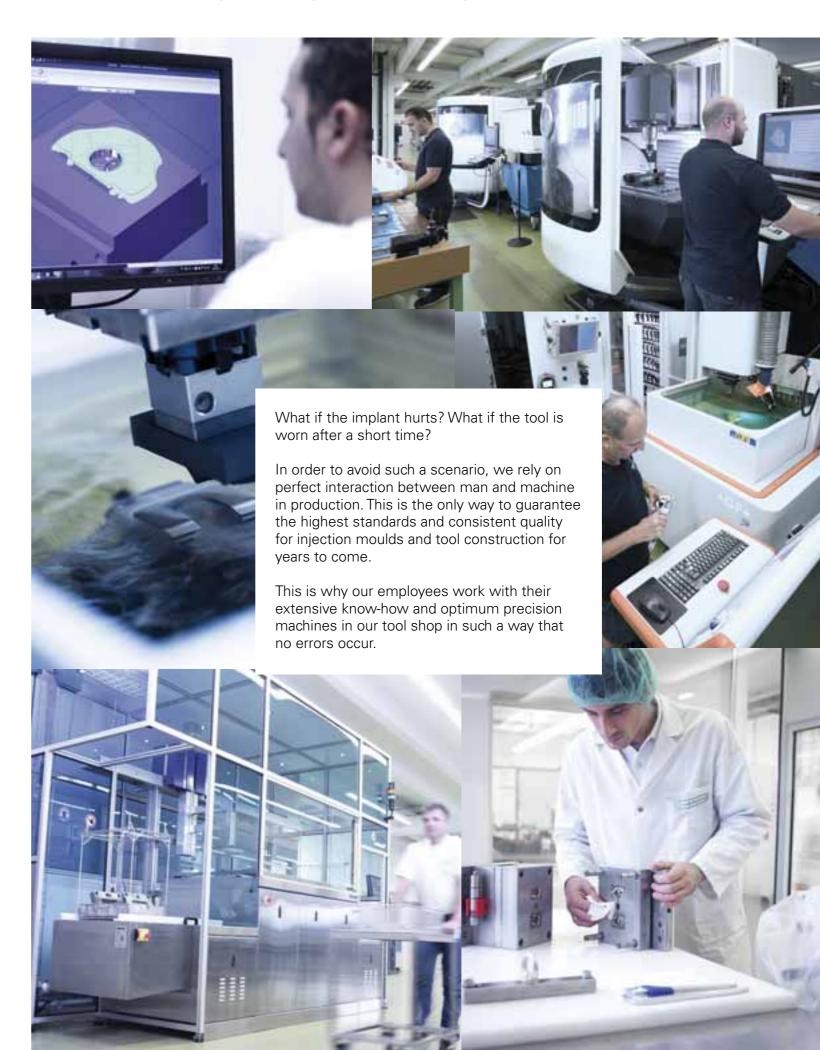
Implementation is good, optimisation is important. Because there's nothing that can't be made any better. With our Moldflow filling simulation programme and external FEM analyses, we get to the bottom of the components in your product and optimise the manufacturing process.

Prototypes - quickly to the test model

So that you can test your design ideas quickly, we can produce your prototypes for you using i.e. our Stratasys 3D printer.

SAMAPLAST AG

Toolmaking – long life through precision



Prototypes and additive manufacturing (AM)



Testing made easy

Experience has shown that market analysis and functional tests follow ideas, development and optimisation. So that you can quickly test your products in the market, we internally manufacture prototypes and small series.

With our Stratasys and Kumovis PEEK 3D printer or Arburg Freeformer, you can have your prototype in your hands in no time at all. On request, we can also produce it from hardened steel tools in 10 days. Because we develop solutions.





Additive Manufacturing (AM) - a step into the future

Keyword prototypes and small series: The market is increasingly demanding the production of small batch sizes for medical devices and implants. For this reason, the machinery at SAMAPLAST AG was expanded to include Freeformer and PEEK 3D printer, as well as a clean room (ISO Class 8 in operation).

Freeformer is a system type for additive manufacturing that combines the basic functions of an injection moulding machine with those of a 3D printer. With our 3D printers, generatively manufactured components can be produced with standard material from batch size 1, if necessary also patient-specific.



Injection moulding – part of our core competence



We process all thermoplastics and absorbable materials on our state-of-the-art injection moulding machines. Our work is based on decades of experience, innovative strength and precision.

In addition, we are able to produce plastic parts from 0.01 – 1000 g piece weight. This is the foundation for long-lasting, trusting customer relationships.





We'll get to the bottom of it

For us, man and machine form a unit that gets to the bottom of the specific tasks. Modern analysis tools for the characterisation of flow behaviour and for the detection of residual moisture support our specialists in their daily work. This also includes the quality control of raw materials and a possible damage analysis.



Further processing

Final packaging | sterilisation





Final packaging of medical devices

Medical devices must be designed, manufactured and packaged in such a way that it is assured - according to the information provided by the manufacturer - that their characteristics and performance do not change during storage and transport.

Validated standard packaging

In order to minimise the time and costs involved in the development process and project management, SAMAPLAST AG has determined standard medical packaging for bags and blisters of various sizes and materials and validated them in accordance with EN ISO 11607.



Sterilisation

To achieve the sterility of the final packaged medical devices, SAMAPLAST AG offers in cooperation with its partners the execution of sterilisation (e.g. gamma or ETO) in accordance with the standards.

Gamma/X-ray sterilisation process	Standard
Method 1, sterilisation dose: 14,2–36,3kGy	ISO 11137-2
VD _{max} -method, sterilisation dose: 25kGy VD _{max} -method, sterilisation dose: 15kGy	ISO 11137-2
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Ethylene oxide sterilisation process	Standard
Half-cycle method (Overkill)	ISO 11135-1
Ethylene oxide sterilisation residues	ISO 10993-7







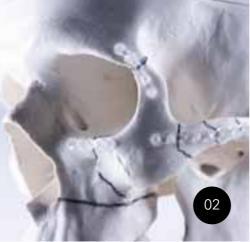
«We don't take any half measures in plastic.»

«Packaging and sterilisation - critical for safe medical devices.»

References – everything from a single source for our customers

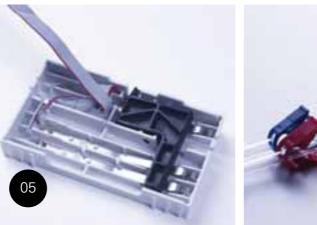














That's our strength: We offer complete solutions from idea to prototype to marketability. This applies to technical injection moulded parts and assemblies, injection moulded medical devices and implants to the sterile packed end product. Thus, we unite all competences in our company.

Implants

In addition to technical and medical devices, SAMAPLAST AG also manufactures a wide range of implants, e. g. spinal prostheses to replace intervertebral discs, components for knee and hip implants or port catheters, and much more.

01 / 02 Implant

Medical devices

In the dental industry, but also in many other areas, our medical devices are in demand. They are used, among other things, for external fixations or instruments for a wide range of tasks.

03 / 06 Medical device

Technical parts

SAMAPLAST AG has been successfully developing products and solutions in the fields of technology, medical devices and implants for many years. Especially for surveying technology, the food industry, floor cleaning or mechanical engineering, our know-how and our competences lead to individual solutions.

04 / 05 Technical part

Clean room – competence at its finest





Production without ambient noise

Clinically pure products – a necessity for many areas. For this purpose, we at SAMAPLAST AG have set up two clean rooms (ISO 7 in operation according to EN ISO 14644) in which we manufacture these products and carry out their subsequent operations in the required quality. You can rely on that.







Cleaning with ultrapure water

However, we do not manufacture all our products in a clean room, but also outside it. Nevertheless, these products must also be pure at the end. We achieve this with our ultrapure water washing machine, which connects the producing dirty area with the clean room via a sluice.

In addition to our ultrapure water washing machine, we also have a water treatment plant with which we can treat HPW water (Highly Purified Water) according to Pharm. Eur. We need this water to feed our washing machine. This process is, of course, also optimised and certified.



Monitoring – a must

To ensure that production and further processing are demonstrably carried out under the required parameters, we at SAMAPLAST AG have set up a monitoring system that completely documents the individual parameters. In this way, we meticulously comply with the manufacturing instructions (device master record etc.) and guarantee comprehensive and complete hygiene measures. In order to permanently meet the high quality level, we have implemented further monitoring: hygiene monitoring. So you can be sure that we have all hygiene requirements and regulations under control.





