

MEDICAL

Safe manufacturing for
safe products

ARBURG

HERE'S TO YOUR HEALTH!

**Traceable and precise production –
with a reliable partner.**

Plastics are used universally in medicine. They are durable, sterilisable, biocompatible and offer excellent insulation. The number of possible applications is growing, because new treatment methods are constantly being developed to improve our lives. For manufacturers of medical products, however, there is only one thing that ultimately matters: continuous quality. This is where ARBURG can help you – with high-quality technology and comprehensive advice for the entire range of materials and processes. You can rely on us!

WIR SIND DA.



Source: Horst Scholz GmbH + Co KG

Clean production: focus on the product, patient and user right from the planning phase.

AT A GLANCE

// Clean, reproducible and economical production is a prerequisite for high-quality medical products. In ARBURG you have a partner who always sees the entire process. We understand our business – with production that takes all applicable standards into account. We work with you to develop your perfect solution concept – and if you wish, we can also find new ways to add value. \\

Highlights

- Clean room-compatible technology
- Practice-oriented digitalisation
- Individual system solutions
- Industrial additive manufacturing
- Comprehensive service range

Ensuring safety

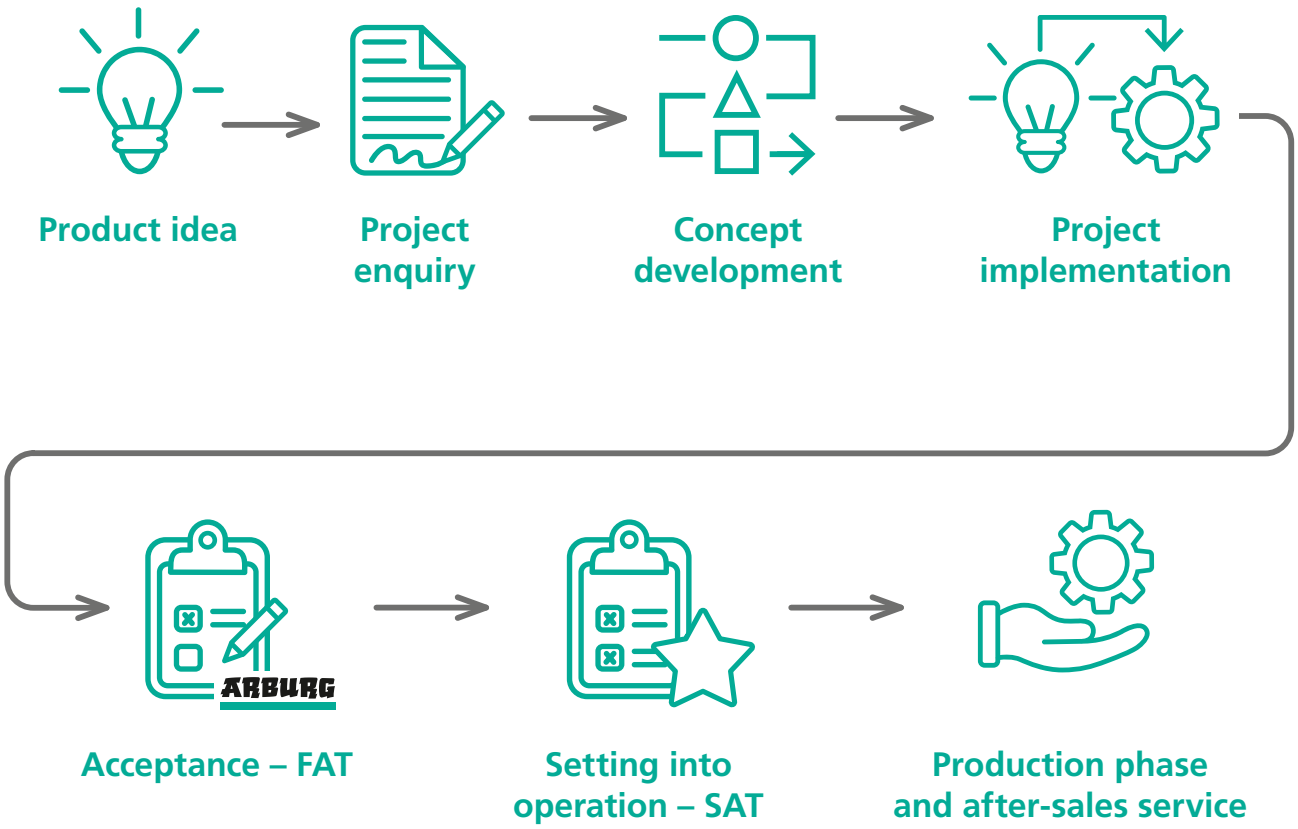
Which guidelines apply to sterile packaging of pharmaceutical products or to accessories for genetic diagnostics? To make a product successful, the correct implementation of all relevant standards and guidelines is important – right from the start. As your competent partner, we consider all relevant guidelines for a specific process validation, so that you have reliable and economical control over every project.

Enabling innovation

Medical progress constantly requires new production concepts. Whether it is silicone microvalves produced in a clean room or additively manufactured individual implants made of resorbable material. Our interdisciplinary team will support you with expert advice when it comes to implementing demanding processes. Our extensive portfolio enables you to manufacture using the most innovative production solution and to master the most demanding tasks.

Economical production

High-quality materials are used for applications on or in the body of a patient. The basis for economical and efficient processing of sensitive materials: perfectly coordinated processes and smart machines that autonomously monitor important components. Our intelligent after-sales services enable you to plan your service in advance with detailed proof of calibration.





WELL THOUGHT THROUGH: PRODUCTION CONCEPTS

// In the medical sector, manufacturing safe products is literally vital. In addition, subjects such as circular economy are becoming increasingly urgent. Our solution is to combine high-quality technology with transparent processes. ALLROUNDER high-end injection moulding machines, combined with smart control management and comprehensive digitalisation, form the basis for continuous high-quality, value-adding production that also takes environmental aspects into account. \\


Traverse X
success 11
www.sepro-robotique.com
ARBURG
ALLROUNDER 370 A
ALLDRIVE



Qualified injection moulding technology

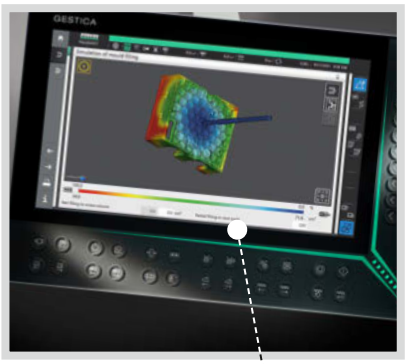
Low-emission technology in combination with application-specific additional equipment on our ALLROUNDERs can be adapted to clean room conditions. In order to provide seamless certification, we can offer you individually tailored

- comprehensive validation documentation
- precise calibration of all components and documentation
- regular re-validation as part of a service contract

Digitalised processes

A smooth production process is important in order to fulfil requirements for traceability and part quality while maintaining consistently high productivity. Practical assistance packages and other tailor-made Industry 4.0 components actively support you in this regard. The connectivity of our ALLROUNDERs enables the comprehensive provision of process parameters. The result: complex processes become transparent and are seamlessly documented.

Perfectly clean ALLROUNDERs in stainless steel design are ideal for demanding clean room requirements.



Supports validation processes: aXw Control FillAssist visually displays the interaction of parameters.

Further information:
Clean room technology brochure

Individual system solutions

Manufacturing for the medical and pharmaceutical industries requires that all key process data (shot-by-shot traceability) be stored and linked to the end product (UDI). Our turnkey systems will take over the planning and implementation of demanding production tasks, including data management. This means that you will have a single contact person who takes care of all aspects.

Efficient production management

How can you respond economically to shorter product life cycles and dynamic market requirements? Our ARBURG host computer system (ALS) offers you all the features you need for the efficient organisation and flexible optimisation of your production processes. You can act rather than react – with up-to-date production data and standardized documentation of your production processes.



Maximum part quality: precise and reproducible injection with the aXw Control ScrewPilot.

Traceable production: Component ID and production data can be permanently linked.

Multi-level data security: with central machine control and networked production management.

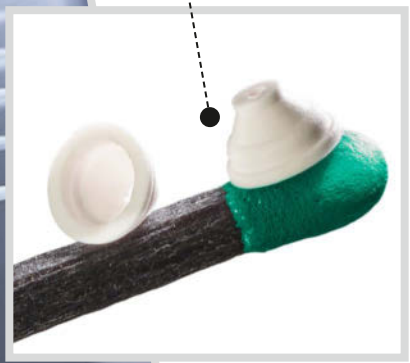
Ideal for clean room applications: raised machine feet and special powder coating.

Further information:
arburgXworld brochure

PRACTICAL APPLICATIONS

// Achieving top performance every day – by manufacturing labs-on-a-chip, silicone masks, dental drills or additively manufactured implants. With our technology and competent advice, you can be sure that your order will be implemented without errors, even under the strictest demands. This will enable you to produce medical and pharmaceutical products using innovative and bio-based materials, digital process management and our comprehensive after-sales service. And always with energy-saving and economical processes! \\

Cap for microswitches Micro injection unit processes non-postcuring LSR at 0.072 gram shot weight.





Durable components for hearing aids: precise overmoulding of electronic components.

Pre-filled syringes made of COP material: Flawless overmoulding of inserts and perfect transparency with every shot.



Source: SiO2 Medical Products, Inc.

Fresnel lenses for examination lamps: precise injection compression moulding of ultra-fine structures.







"Ready-to-use" lab-on-a-chip: complex assembly injection moulding using two components.

More than 2,500 dosage cups per hour: low-emission production with perfectly coordinated high-performance technology.

Further information:
Turnkey projects brochure

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