ai6 SOLUTIONS



From design transfer to reliable series production

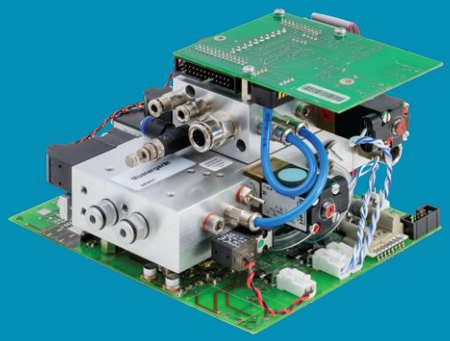
Services
Production

ai6 combines extensive manufacturing experience with in-depth expertise in medical technology, electronics, and complex electromechanical systems. We provide manufacturing, assembly, and testing in accordance with ISO 13485 requirements – from sophisticated individual products and prototypes to small- and medium-volume series production.

Our capabilities cover the entire manufacturing process – from detailed design and industrialization to procurement, supplier management, assembly, programming, testing, quality assurance, traceability, and logistics. Flexible production structures enable us to efficiently adapt our manufacturing processes to different products, technologies, and batch sizes.

Through the close integration of engineering, industrialization, and manufacturing, we offer much more than traditional contract manufacturing. We ensure a seamless transition from product development to series production and support our clients in maintaining high standards of quality, reliability, cost efficiency, and on-time delivery throughout the entire product lifecycle.

Project Examples



Digital Gas Mixer



Negative Pressure Wound Therapy

Assembly and Testing of Mechanical and Electromechanical Systems

5,500 m² of Production Space – From Small Batches (3–100 Units) to Series Production (Approximately 10,000 Units)

Our Services Include:

- Design transfer and industrialization in close collaboration with engineering Creation and maintenance of ERP master data, including bills of materials (BOMs), work plans, manufacturing instructions, and test procedures
- Supplier management and material procurement
- Warehousing and inventory management
- Assembly and servicing of components, subassemblies, and finished devices
- Organizational separation of service operations and series production
- In-process and final testing, including electrical safety testing
- Quality assurance and documented testing procedures
- Centralized logistics and decentralized logistics upon request
- Flexible production capacity through two-shift operations and Saturday shifts, with short response times of approximately 14 days
- Lean manufacturing and continuous process improvement

Equipment and Technical Infrastructure

- Design and manufacturing of customized production fixtures and test equipment in our in-house workshop
- ESD-compliant production and service areas
- Database-supported measuring and test equipment management
- Electrical safety testing in accordance with VDE 0701-0702 and IEC 60601-1, as well as high-voltage testing up to 5 kV
- Pest control in accordance with FDA 21 CFR Part 820
- Physically separated and climate-controlled storage, production, and service areas
- Hazardous material storage cabinets
- Medical compressed air supply (10.0 bar) in accordance with ISO 8573-1:2010 and DIN EN 12021:2014
- Dynamic inventory management based on FEFO (First Expired, First Out) and FIFO (First In, First Out) principles
- ERP-based master data management, serial number tracking, order management, and procurement Full product traceability
- Established Corrective and Preventive Action (CAPA) process with direct feedback to engineering teams and customers

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Contact

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Engineering
Consulting
Production

Also ask about our services engineering and consulting. We show you, how high quality products from your ideas arise.

WE UNCOMPLICATE MEDTECH FOR OUR CUSTOMERS