

Full-service provider

Full-service provider for Industrial Automation and Digitalization

The Eckelmann Group presents itself as a full-service provider for Industrial Automation and Digitalization. As specialists for requirements in the pharmaceutical industry, biotechnology and medical technology, Eckelmann engineers offer industry-specific solutions from a single source:

- › Consulting
- › Customized hardware and software solutions
- › Turnkey automation systems
- › Lifecycle management
- › Smart Service
- › Vertical and horizontal system integration
- › Data analysis and Digital Twin: FactoryWare®
- › Optimizing productivity throughout the lifecycle

We meet high regulatory requirements

It goes without saying that we are **ISO 9001** certified. We also demonstrate quality management and certifications in the regulated environment, for example with **ISO 13485** as a supplier of medical technology, **ISO 62304** (medical device software), processes for **GMP/GAMP 5** and the manufacture of electrical equipment in accordance with **CE**, **UL** and **UKCA**. In lifecycle management, we tailor organizational and technical service packages – and write the success story over the entire service life of machines and systems.

Eckelmann – Partner for Industrial Automation and Digitalization

National

→ **Eckelmann AG**
Wiesbaden | Germany | Headquarters
Engineering | Software | Production | Lifecycle Service

→ **Eckelmann FCS GmbH**
Herford | Germany | Subsidiary
Engineering | Software | Production | Lifecycle Service

→ **Eckelmann IBE Software GmbH**
Wilhelmshaven | Germany | Subsidiary
CAD/CAM Solutions

→ **REX Automatisierungstechnik GmbH**
Erfurt | Germany | Subsidiary
Engineering | Software | Production | Lifecycle Service

International

→ **Eckelmann s.r.o.**
Tvrdonice | Czech Republic | Subsidiary
Engineering | Production | Order Processing

→ **Eckelmann SAS**
Lyon | France | Subsidiary
Sales | Service

→ **Eckelmann Industrial Automation Technologies Shanghai Co., Ltd.**
Shanghai | China | Subsidiary
Engineering | Order Processing | Lifecycle Service

→ **Eckelmann Automation Technology Shanghai Co., Ltd.**
Shanghai | China | Subsidiary
Engineering | Order Processing | Lifecycle Service

Your direct contact

Talk to us!



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Control system for bioreactors: manufactured, parameterized, tested and commissioned

Creating process reliability – increasing traceability



Case Study
Biotechnology

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Reliable control in the bioreactor environment
Solution for optimal scaling

Bioreactors receive from our engineering teams the complete hardware and software development from a single source including manufacturing and the installation of the electronic and pneumatic hardware as well as the system tests. Our solutions optimally support scaling and flexibilization of production capacities.

We use Eckelmann solutions to control the bioreactor functions, regulating and controlling pH value, gas flows, speeds and temperatures, for example.

Cutting-edge technology enables custom-fit automation solutions

Eckelmann supplies the entire control solution with a user-friendly operating unit (HMI)

Bioreactors get complete hardware and software development from our engineering teams. We do not consider ourselves a supplier, but a partner and advisor with industry experience.

Typical applications for bioreactors are suspension cell cultures for the production of viral vectors for gene therapy, for vaccines or for the production of meat substitutes.

Eckelmann supplies the entire control system plus the operator interface (HMI): Expertise from the user experience flows into the user-friendly design of the operator interface. This ensures maximum process reliability and enables high performance.

The controls are developed and manufactured according to customer requirements for bioreactors with a wide range of capacities.

Hardware and software: developed in partnership and tailor-made

Expert teams are involved from the planning stage, advising and supporting development and manufacturing processes with specialist knowledge and process know-how to increase quality, safety and efficiency.

