Redefining Production Standards

QUAT²RO Unveils AI Breakthroughs at ACHEMA 2024

At ACHEMA 2024, QUAT²RO showcases its latest software developments in the digitization and automation of industrial packaging and filling processes. With a focus on artificial intelligence (AI), QUAT²RO introduces groundbreaking products that revolutionize efficiency and productivity in industrial packaging processes.

The latest AI-based product innovation, QUAT²RO® Valve Check, ensures that every valve bag is perfectly attached to the filling spout, enabling a significant increase in efficiency in the filling process. By combining advanced algorithms and sophisticated image processing technologies, the artificial intelligence of the digital product QUAT²RO® Valve Check can precisely detect and classify bag valves. With the highest detection reliability of open and inadequately open valves, the system identifies and removes improperly opened bags directly from the filling process.
At ACHEMA 2024, QUAT²RO invites interested customers to test the functionality of QUAT²RO® Valve Check with an AI camera on their own.

Furthermore, QUAT²RO presents another AI-based product, QUAT²RO® MatEx Check. The product combines expertise in valve bag filling with state-of-the-art AI camera technology to identify abnormal material discharge during the filling process in real-time. In the event of material discharge, the system reacts immediately and stops the filling process to prevent further product loss. This intelligent intervention not only minimizes product loss but also significantly reduces cleaning time. This ensures a more efficient, safer, and cost-effective production.

Additionally, QUAT²RO® Connect is introduced, an intelligent system that revolutionizes data analysis across the entire production. It centralizes machine data from all production facilities for easy access, laying the foundation for further customizable applications such as "Insights" and "Dashboards." The platform provides cross-manufacturer insights into manufacturing status

and is designed for future adjustments and compatibility with web-based devices. QUAT²RO® Connect combines efficiency, security, and scalability, ensuring robust, secure, and local performance with cloud-based management.

In the field of mixing process control and automation, QUAT²RO introduces the new software version of QUAT²RO® Batch, which offers an improved user interface and new functionalities such as flexible batch management for any number of mixing containers. Moreover, the software is based on the latest .Net 6 architecture and is now accessible on various end devices through the new web interface.

QUAT²RO unveils the digital production management system QUAT²RO® Production, the digital system for controlling and optimizing filling, loading, and mixing processes. The software module digitally connects the entire production process, enabling efficient planning and control from filling and weighing to logistics. By seamlessly integrating ERP-level and production, QUAT²RO® Production overcomes barriers in production processes.
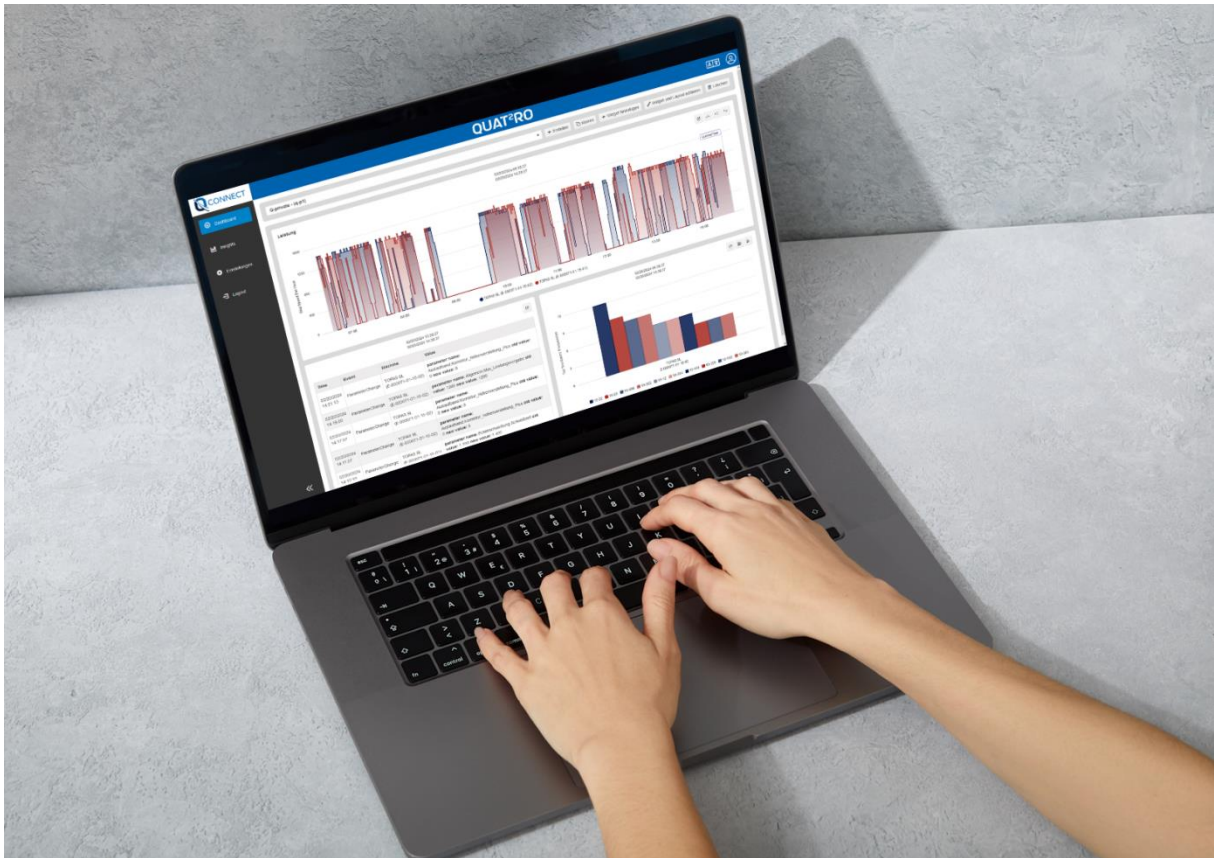
Image: QUAT²RO® Connect

QUAT²RO has expertise in the following areas:

- Software engineering, project management, commissioning, service
- Process control technology, production and dispatch automation, batch management, OEE and WEB solutions, preventive maintenance, condition monitoring, remote service, analytics
- PLC programming, switch and control cabinets, MCC (motor control center), power distribution, electrical engineering

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About QUAT²RO

QUAT²RO was founded in 2016 as an independent subsidiary of the HAVER & BOECKER group of companies, is based in Münster, Westphalia-Germany and stands for customized digitization and automation solutions. It specializes in software modules and management systems for the chemical, food, building materials, cement and mining industries and operates internationally.

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