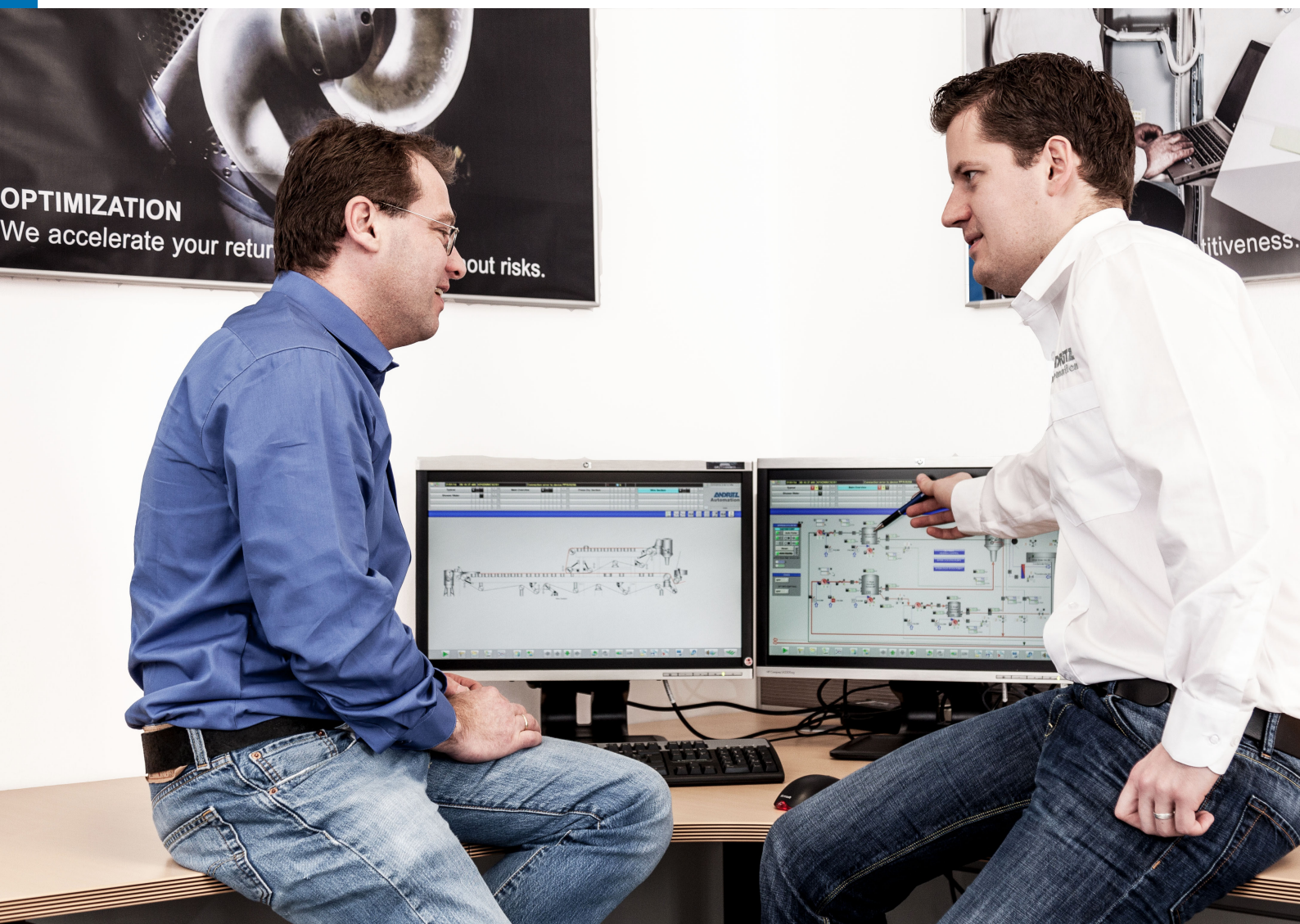


ANDRITZ AUTOMATION

Process Control Systems

DCS / MCS / MMD / A-SCADA



ANDRITZ Process Control Systems

Convenience in Automation

ANDRITZ AUTOMATION increases key performance indicators by implementing tailored process control systems and proven expertise in application engineering.

ANDRITZ AUTOMATION provides tailored process control systems as an in-house speciality, bringing optimized solutions and exceptional performance to customers around the globe.



The engineering experts at ANDRITZ AUTOMATION constantly analyze the latest soft- and hardware components in order to offer each and every customer the best solution for their needs. Different components can be integrated individually on a modular basis to serve specific machines, providing optimized results. The most ergonomic solutions for operation are implemented. Any extent of control can be acquired and is adjusted precisely according to customer needs. In existing plant control systems, ANDRITZ AUTOMATION also ensures operational improvements via custom components and system updates. All ANDRITZ AUTOMATION products have been frequently tested and approved, guaranteeing quick, flawless project realization.



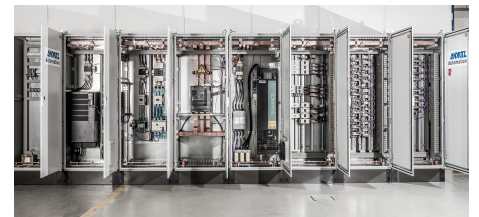
Performance

Every year, more than 100 plants are fitted with tailored ANDRITZ AUTOMATION systems, bringing improved efficiency and optimized products. Examples range from

smaller areas (1000 IOs) to the biggest DCS (>10000 IOs). Fast hydraulic applications are being replaced by servo-electrical applications, such as MCS.

Benefits

- Key account manager for easy project handling
- Experienced and certified engineers
- Meticulously screened and assessed state-of-the-art hardware
- In-depth knowledge of ANDRITZ machines
- Product optimization via improved efficiency and individually tailored solutions
- Flexible build-up of control system components
- Proficiency in system integration and implementation



▲ Motor control center (MCC) as one component of a complete ANDRITZ AUTOMATION control system.



Process Control Modules

Distributed Control System (DCS)

- Overall control system. References available from minimum ranges beginning at 1,000 IOs up to larger control systems (>10.000 IOs)
- Applicable for any facility as well as for existing ANDRITZ plants
- Available as flexible update version for random needs

Machine Control System (MCS)

- Fast and individually tailored control system for ANDRITZ processes
- Contiguous control system, especially for fast processes with high complexity
- Performance upgrade by substituting hydraulic components with servo-electrical applications

Multi Motor Drive (MMD)

- Specific control system for drive engineering with contiguous control elements
- DCS technology including high-end drive engineering
- Individually selected hardware

A-Scada

- Comprehensive ANDRITZ AUTOMATION solution for MCS and average DCS plants
- Cost-efficient control system including individually selected hardware components and operation panels

Implementation

With ANDRITZ AUTOMATION services, project cycles are managed by one point of contact, which facilitates communication throughout the development and implementation process.

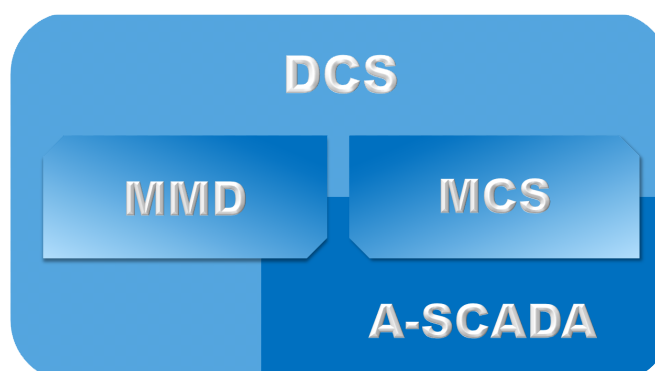
A selected team of trusted engineers develops individual solutions based on customer requirements and process needs. Continuous benchmarking and hardware selection form the basis for the state-of-the-art hardware used, while recurring application design reviews mean rapid implementation.

During the process simulation phase, operators are individually trained on the tailored technology.

Process Control Systems

DCS and A-SCADA serve customers requiring an overall control system. DCS is the most flexible solution, allowing any module to be integrated, while the in-house development A-SCADA is highly ergonom-

ic and specifically optimized for ANDRITZ machines. MMD is the best option wherever drive engineering is needed and MCS satisfies customers with fast processes and machine-oriented control systems.



ANDRITZ AUTOMATION

The right click for your plant



Your reliable partner!

With 110 sites worldwide ANDRITZ AUTOMATION has developed to be a competence center for plant design and plant control systems.

ANDRITZ AUTOMATION supports interaction between process, mechanical design, and automation. Therefore, customers obtain an overall package of competence and experience with

the automation system. Our products and services have helped operations achieve record start-ups, increase capacity, improve efficiency, and save money.

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