



Industrial Services



Automation

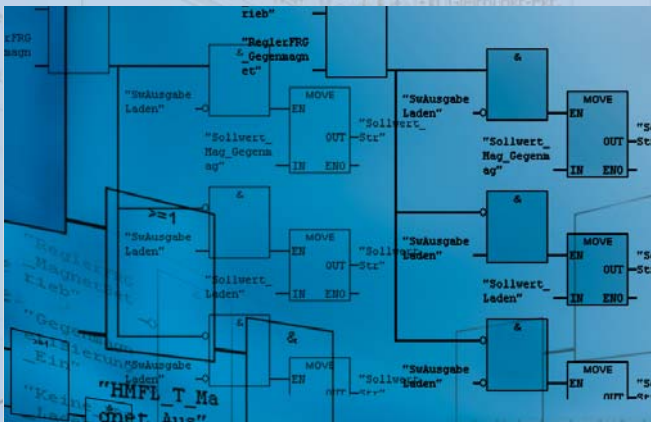
planning · projecting · engineering · documenting



The optimal application of automation technology, including effective design of the human-machine interface (HMI), can improve your business' profitability and provide your firm a distinct competitive advantage.

We automate machines, system components, and complete manufacturing and production facilities, supporting these projects from conception through start-up and commissioning.

We provide the services you need, meeting the quality, schedule, and location requirements you specify.



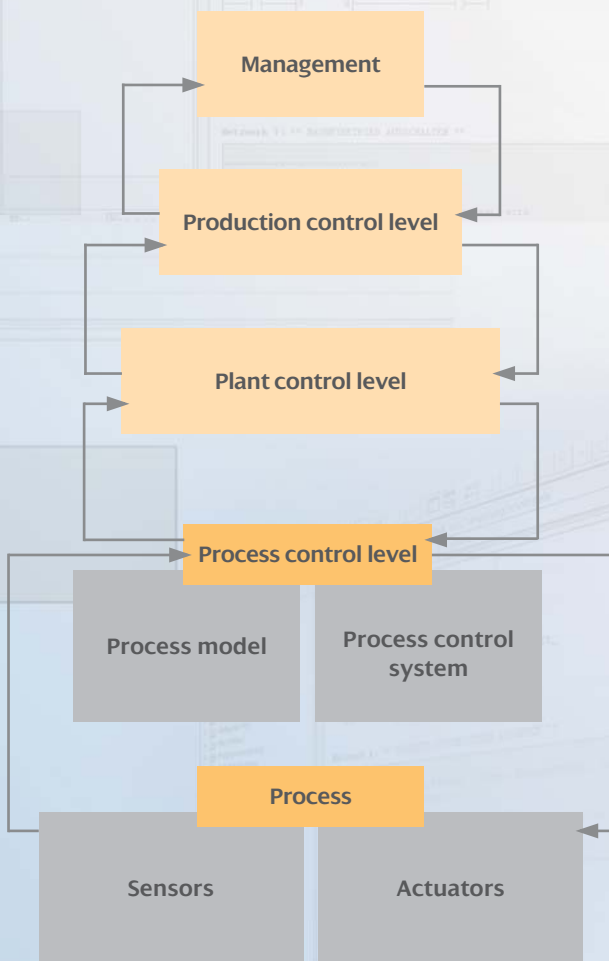
Production and operational data management

Real time access to accurate production information, presented in a format that can be easily interpreted, supports sound technical and economic decision making. We provide this access by creating automation solutions tailored specifically to your process and designed in a manner that improves accessibility, utility, and flow of information between the plant and your on- and off-site management. This includes:

- A tailored data structure
- Enhanced data retrieval
- Improved data integration
- Secure global access to your data
- Customized records and reports

Automation

Conceptual Model of Automation and Control



Experience

Our experience spans a wide range of applications and industrial processes, including:

Applications

- Individual machines, process subassemblies, complete production lines, process renovation and modernization, new process design, process troubleshooting, and commissioning

Industries

- Appliance, automotive, building technology, chemicals, commercial electric utility, food & beverage, hospitality, logistics, medical, mining, oil & gas, power transmission, pulp & paper, telecom, sports & entertainment, water treatment, and waste-to-energy

Conceptual planning and design

Technical and economic feasibility evaluations of alternatives, including

- automation systems
- bus and network structures

System configurations are individually tailored to provide a high level of production security within capital investment and O&M cost constraints.

Project management

Well defined project objectives, clear organizational lines of responsibility, authority, and communication, a schedule with definitive milestones, and a system of regular and frequent progress reviews with provisions for variance detection and prompt and effective corrective action provide a sound foundation for project success. In situations where you are coordinating the work of multiple consultants, we make our specialists available to you in a supporting role.

Programming

SPS/PLC, Soft SPS, Industrial PC, Management System/SCADA

HMI/Visualization

The technical and economic success of an automation project, including operating staff acceptance, depends largely on the consideration of human factors and logical design of the human-machine interface. We employ visualization techniques and utilize a variety of PC-based standard tools, custom PC applications, graphic panels, and text panels to enhance this interface.

Commissioning

We support and monitor the start-up phase for automating your plant. This includes training your operating and maintenance personnel and providing production support, hardware checks, software cold tests, communication tests, and software tests.

Documentation

We provide complete automation system documentation including functional descriptions, performance specifications, as-built (record) design drawings, operating manuals, and commissioning and test records.

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Technology Sectors:

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- Software Engineering
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