AIS AUTOMATION
SOFTWARE SYSTEMS

BUSINESS UNITS
AIS AUTOMATION DRESDEN

SMART SOFTWARE
FOR SMART MANUFACTURING

Building automation
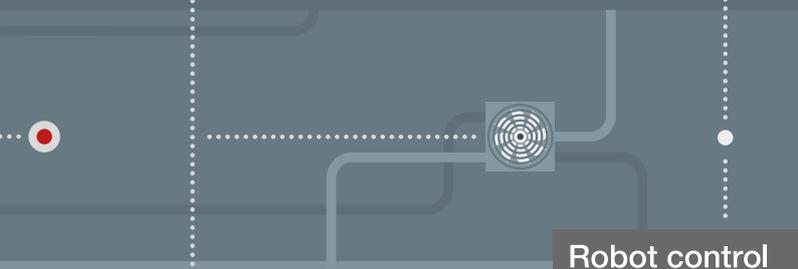
Robot control

Process control systems &
Controls for supply systems
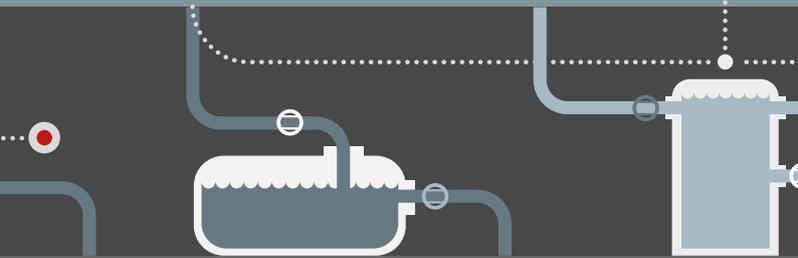
Cloud solution for Equipment
Lifecycle Management
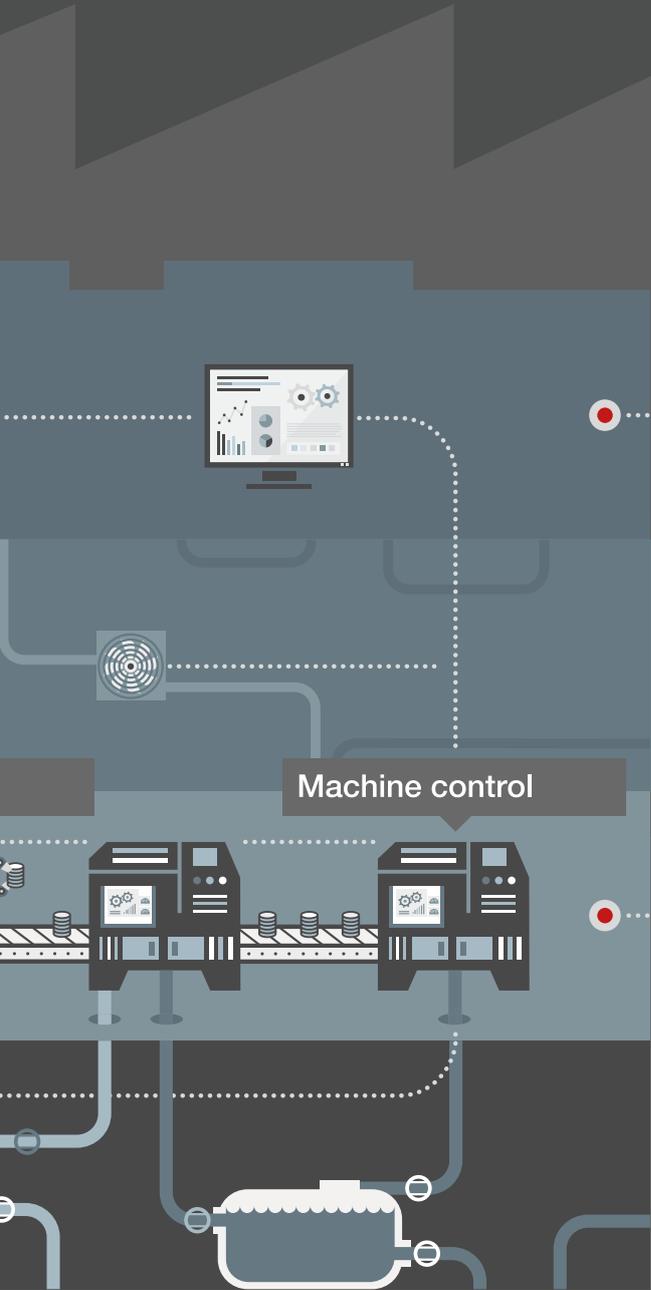
Factory monitoring, line
controller & production control

Integration solutions

Machine control

Production automation

EQUIPMENT CONTROL & INTEGRATION

EQUIPMENT CONTROL

We provide you with PC or PLC-based control solutions to suit your requirements. With the **ToolCommander®**, we can offer you an open software framework for the implementation of control and visualization for cluster, in-line and batch systems.

Here, it is up to you to decide whether we are to be your product supplier, solution partner or full-service provider.

SEMICONDUCTOR & PV INDUSTRY
- Control systems for cluster, in-line and batch systems
- System & control retrofit of existing installations
- Optional system interfaces: SECS/GEM (full GEM compliance), 300mm services (GEM300), InterfaceA (EDA), PV02

SPECIAL SYSTEMS
- Control systems for metallization and sputter systems, as well as for plasma, ion beam and electron beam technologies
- System & control retrofit of existing installations

EQUIPMENT INTEGRATION

For equipment integration in the semiconductor, PV, OLED, LED and PCB industry, we offer our connectivity package FabLink. In addition we realize various integration solutions.

STANDARDIZED INTERFACES
- SECS/GEM
- GEM300 (300mm services)
- InterfaceA (EDA)
- PV02

INTERFACES PORTFOLIO
- **PLC:** Siemens, B&R, Beckhoff, Mitsubishi, OMRON
- **Protocols:** OPC/UA / OPC/DA, MQTT, REST, ActiveMQ / MSMQ, Modbus, Profinet, Profibus, CANBus, LON, Euromap, TCP/IP etc.

MANUFACTURING AUTOMATION

OUR FABEAGLE® PRODUCT SERIES

In factory and production automation, we offer you scalable software products based on your requirements. Control your production with line controller, MES and mobile applications and increase your productivity by means of smart visualization and analysis options.

TFM · **LC** · **MES** · **MDE/BDE**

We support you with our know-how, e.g. from the automotive, semiconductor and photovoltaic industries, as well as from the food and pharmaceutical industries.

LINE CONTROLLER & PRODUCTION CONTROL (MES)

- Order and parts management for »lot size 1«
- Production control
- Acquisition of machine, process and production data
- Material tracking and traceability, e.g. for quality management
- Acquisition and analysis of performance indicators such as operating time, yield, throughput and OEE

INTEGRATION SOLUTIONS

Equipments, control systems, sensors, applications and message systems provide data in various formats and via various interfaces. Our Integration Framework provides the option of processing data from any source and in any format in a performant, reliable and secure manner, providing it to connected systems via standardized interfaces.

- Integrate your existing installations into the world of I4.0 and IOT
- Connect your systems with established Big Data solutions
- Create a modular and flexible integration layer

PROCESS- & SYSTEM AUTOMATION

SUPPLY & DISPOSAL SYSTEMS

GAS & CHEMICAL SYSTEMS
- Automation of refuelling & unloading stations for tank trucks & containers, mixing & dilution systems as well as supply & distribution systems for solvents, chemicals & polishing agents.
- Technical solutions for the disposal & reprocessing of chemicals

WATER & WASTE SYSTEMS
- Planning & implementation of complete electrical systems, MSR systems, control & management systems
- Control of individual units & process systems up to complex process control systems with integrated remote control components

INDUSTRIAL VENTILATION & AIR CONDITIONING SYSTEMS
- Scalable software solutions for control and monitoring
- Configuration & programming of the entire automation technology, from the sensor to the facility control system

PROCESS & SYSTEM CONTROLS

TRANSPORT SYSTEMS
- Planning & implementation of semi & fully automated transfer systems for production & assembly lines
- Commissioning of loading & unloading systems for machines, e.g. chain conveyors, roller conveyors, vertical conveyors

PROCESS CONTROL SYSTEMS
- Automation of process engineering systems with state-of-the-art process control systems or SCADA solutions
- Solutions available for continuous process systems or complex batch processes
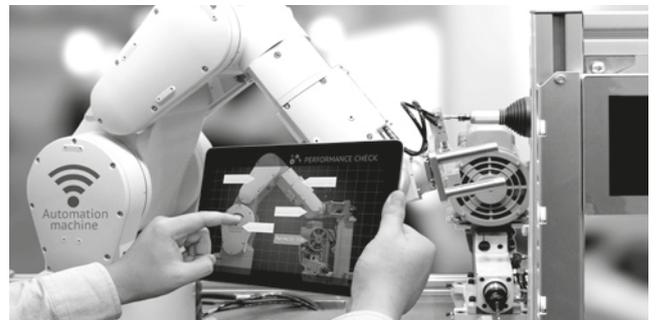
ROBOT CONTROL
- A reliable partner through the entire development process from consultancy, through planning and simulation, right up to programming and optimization of robot-supported systems

EQUIPMENTCLOUD®

EQUIPMENT LIFECYCLE MANAGEMENT

The **EquipmentCloud®** is our cloud-based application for managing and monitoring your systems throughout the entire equipment lifecycle. With the centralization of the information in the form of scalable apps and various analysis options, you save on costs and time, optimize processes, and ensure the highest level of system support. At the same time, this is the solution for modern digital services for the expansion of your after sales portfolio for your end customers.

BENEFITS:

- Savings on costs and time
- Enhancement of machine performance
- Prepare Predictive Maintenance
- Single Point of Truth for all equipment-related information

RAILWAY TECHNOLOGY

SHUNTING TECHNOLOGY & RETROFIT

In the context of the modernization of existing or newly built shunting yards, we have been providing our customers with system solutions for the automatic control of shunting technology equipment for more than 20 years.

- Software and hardware for brake control systems in hump shunting yards
- Control systems for conveying systems
- Interface of speed control with route control via control interface compliant to DIN EN 50159
- Interface to logistic systems

CONSULTING FOR

- Functional and requirement specification
- Approval, e.g. in the context of the CENELEC process
- Short-term support for software projects

ABOUT AIS

AIS Automation Dresden is a leading solution provider for industrial software in the field of factory automation. For more than 25 years, we have been providing products and solutions, thereby transforming the concepts of Industry 4.0 and Smart Manufacturing into reality. In this, we are your reliable and competent partner for machine control, interface solutions, factory and production automation, process and system automation, as well as for railway and traffic engineering. As a part of the Meyer Burger Group, we provide you with extensive service and support options for worldwide project work and consulting.

Consulting & requirement analysis	Project management & training
Software development	Fexible worldwide Service & Support
Delivery of hardware for control & IT systems	Installation & commissioning on site