
YOUR SINGLE SOURCE SUPPLIER

PROCESS PLANTS




AUTOMATION



ROBOTICS

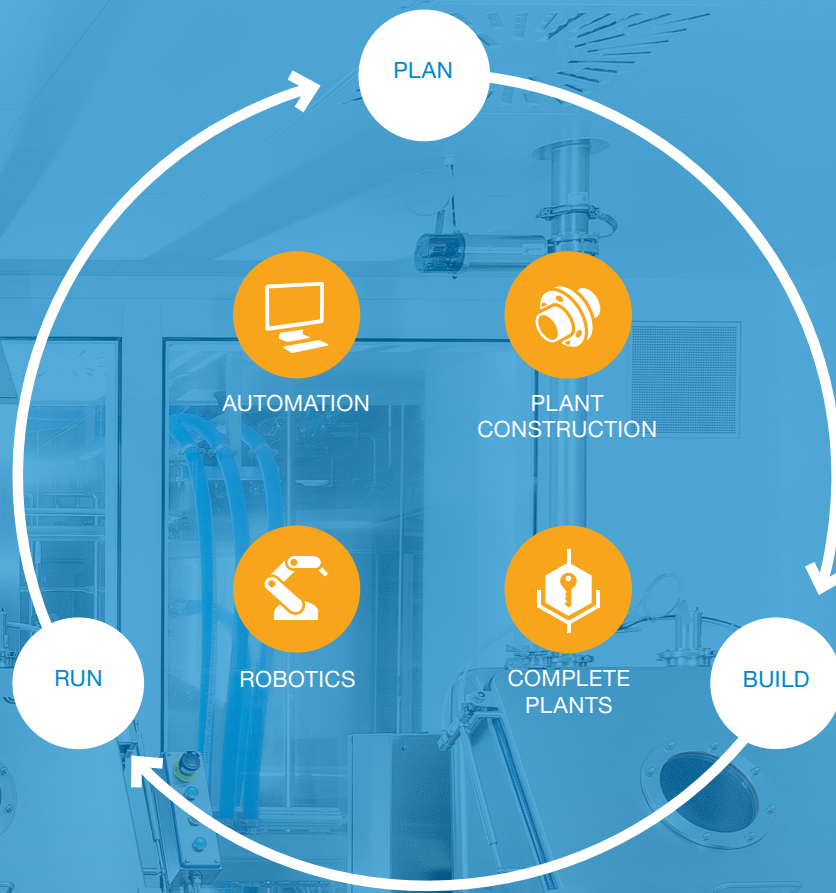




PLANT CONSTRUCTION AND PROCESS AUTOMATION

JAG PLANS AND BUILDS THE MOST CHALLENGING
AND HIGHLY AUTOMATED PROCESS PLANTS
AND ROBOTICS SYSTEMS.

LEADER IN PROCESS TECHNOLOGY



We integrate process engineering solutions, system components and process control into turnkey highly automated production plants.

With innovative system concepts and new process engineering solutions, we meet the highest demands and create real added value.

TAILOR-MADE SOLUTIONS FOR



**PHARMACEUTICAL
AND BIOTECH
INDUSTRIES**



**FOOD AND BEVERAGE
INDUSTRIES**



**MANUFACTURING
INDUSTRY**



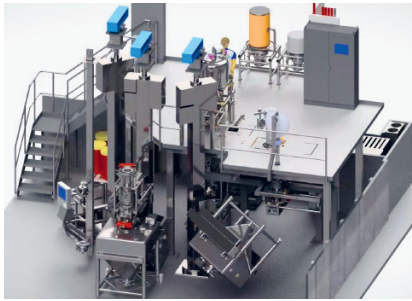
**OTHER PROCESSING
INDUSTRY SECTORS**



COMPLETE PLANTS

— TURNKEY PROCESS PLANTS

WE PLAN AND BUILD PROCESS PLANTS FOR HIGHLY
AUTOMATED OPERATION. OUR PLANTS ARE AMONG
THE WORLD'S MOST EFFICIENT.



PLAN

- Process optimization
- Conceptual design
- Basic engineering
- Detail engineering
- Software engineering
- Electrical engineering



BUILD

- Pre-assembly and installation of process plants
- Switchboard construction
- Automation software programming
- System integration
- Simulation, on-site testing
- Commissioning
- Qualification

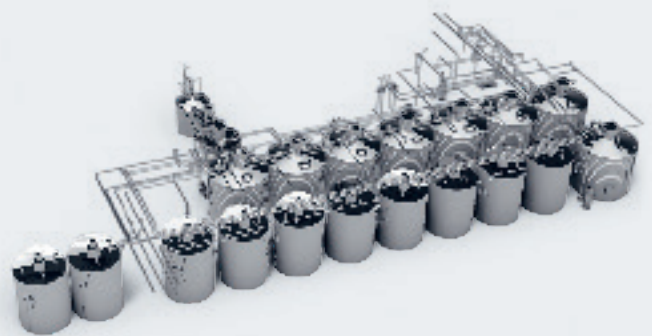


RUN

- Customer training
- Maintenance
- 24/7 emergency service
- Operational support, consulting
- Process and plant optimization
- Extension and modification of production plants

ADVANTAGES

- » Highly automated operation
- » Maximum overall equipment efficiency
- » Short implementation periods



INNOVATION LEADER

- Specialized proprietary automation solution
- Innovative conceptual design
- Comprehensive project management process from planning right through to acceptance and qualification
- Process plant and automation solution are optimally matched



PLANT CONSTRUCTION

PRODUCTS AND SYSTEM SOLUTIONS

FOR PLANTS WITH A HIGH DEGREE OF AUTOMATION
AND HIGH-LEVEL PROCESS SAFETY.

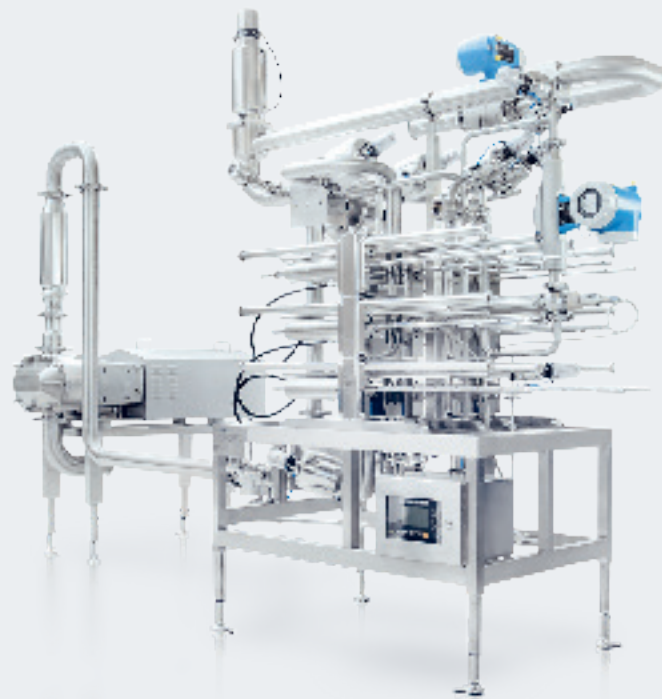




We are passionate about solving process technology problems. And we go the extra mile. That is how we have built up a fine range of standardized products and systems to optimize and automate individual process steps such as conveying, dosing, mixing, separating and cleaning.

ADVANTAGES

- » Highly automated plants
- » Easy integration into overall plants
- » Top process quality
- » Scalability



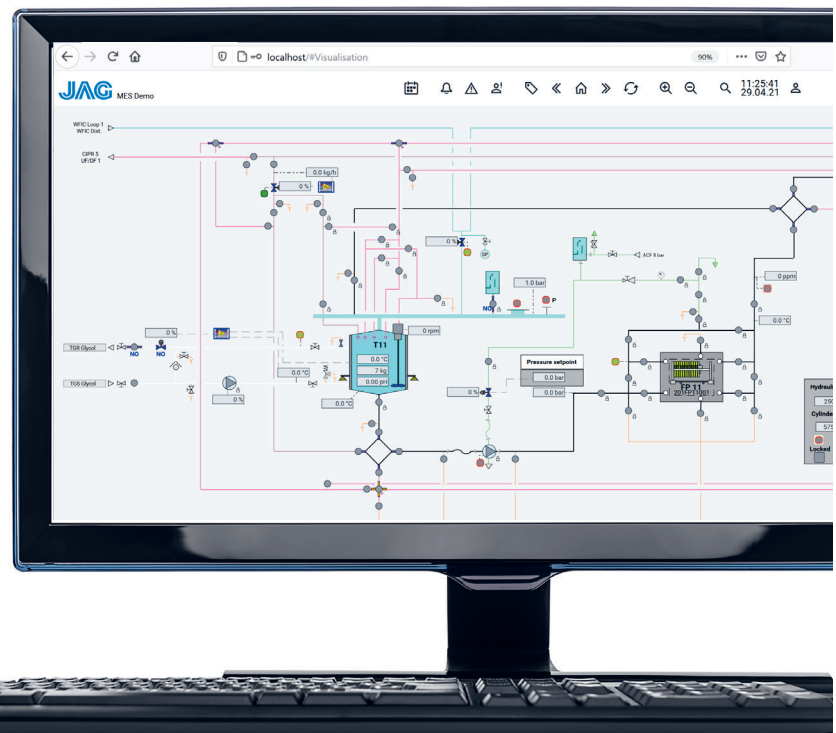
SKIDS AND PACKAGE UNITS

- Design and construction of skids
- Control system implementation
- Integration into an overall plant
- Compact and flexible design
- CIP/SIP capable



PROCESS AUTOMATION AND PROCESS CONTROL

THE JAG PdICS AUTOMATION SOLUTION – A COMPLETE SOLUTION FOR THE PROCESSING INDUSTRY.



BOILING IT DOWN TO THE ESSENTIALS

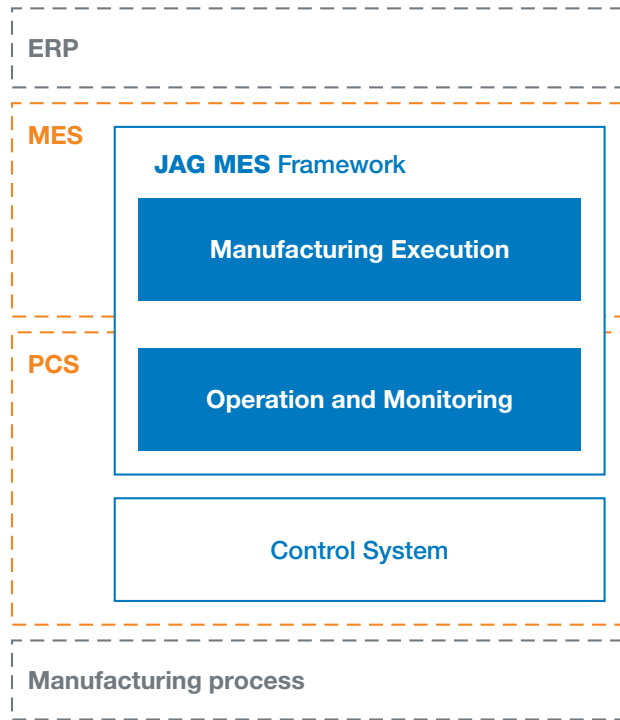
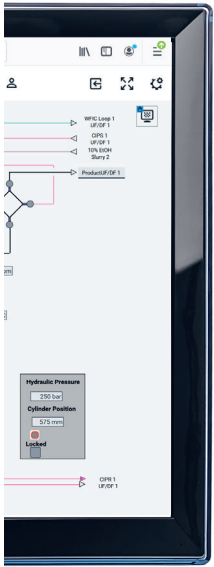
- Just 5 versatile and powerful control modules for unlimited scalability of systems
- Simple, process-oriented programming language
- Decentralized functions, high functionality at the PLC level
- Recipe-based approach (according to ANSI/ISA-88)

GUARANTEED COMPATIBILITY

- System support throughout the entire service life
- New system generations are backwards-compatible
- Extension of existing control system possible anytime
- Allows stage-by-stage extension of process plants

We develop and build a proprietary automation and control system for full automation of manufacturing processes.

Using the JAG PdiCS automation and system solution, we can fully automate even the largest and most challenging production processes in the pharmaceutical and biotech industry in compliance with 21 CFR Part 11.



ELECTRICAL INFRASTRUCTURE

- Electrical engineering
- Engineering and construction of switchgear cabinets
- Electrical installation

SENSIBLE APPROACH TO PROCESS AUTOMATION

- Program changes with no production downtime
- Minimal commissioning time
- System-based operator guidance and operational support

ROBOTICS AND INDUSTRIAL AUTOMATION

JAG ROBOTICS SOLUTIONS



Robotic cells

MINIMAL AMORTIZATION TIME

Manual jobs can be automated in stages. Additional robots can be integrated subsequently to work alongside existing robots. This is how small investments bring swift productivity gains.



Collaborative robotics

SIMPLE AND INTUITIVE OPERATION

The control system uses the JAG PdiCS automation solution. The WebFPS production control system supports operation and monitoring and manages the articles and parameters for robot control. Program selection and download for robot control take place automatically upon product change.



Autonomous mobile robots

SWIFT PRODUCTIVITY GAINS WITH LOW INVESTMENT

JAG plans, builds and tests robot cells and robots including peripheral systems and integrates these into existing production lines.

Robots perform versatile handling, assembly and fitting jobs.



MAN-MACHINE COLLABORATION

We deploy robots for simple and repetitive jobs. In this process, they work shoulder to shoulder with employees.

PROJECT AND INTEGRATION SERVICES

- Process analysis, identification of potential for automation
- Design study
- Feasibility study
- 3D visualization
- Risk analysis
- Design and construction
- Evaluation of subsystems, e.g. vision system
- Automation solution implementation
- Electrical engineering and installation
- System integration
- Lab tests: test set-up and tests at JAG's in-house workshop
- Commissioning

JAG Robotic Automation Solutions

AMR 1.1

ANT driven
by BLUEBOTICS

Verso Q-S

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