Increasing of productivity at old production and process plants?

The problem

Process and production plants are often operated using partly outdated and non-homogeneous automation solutions. The plants have been built, modified and optimised over a period of years, and often plant modules from other areas or by other companies have been adopted and integrated.

Plant operation and servicing are becoming more costly, spare parts are often no longer available, proprietary software platforms no longer supported.

In this scenario, processes and progressions can only be insufficiently optimised, and productivity remains beneath the potential of the process and production plant.

The process and production plants are scarcely capable of further expansion.

The solution: Retrofit the control system

A retrofit of the control system provides the opportunity to consolidate. This may involve modernising parts of the automation solution, implementing changes to the process, consolidating functions or implementing a control system spanning multiple plants.

Added value

- A retrofit of the control system allows major value-adding.
- Process improvements are possible without much additional cost.
- Future expansion and modification of the control system become possible again
- Use of touchscreen operator stations and tablets with a graphic interface allow plant operation to be simplified.
- Integration into existing overall control system, data exchange with external control systems: Increased degree of automation and improved plant efficiency
- Lower servicing expenses and an optimised operating concept increase productivity
- Guaranteed availability of spare parts
- Compatibility with third-party software
- Network connection and interfaces for data exchange with external systems (e.g. ERP)
- Linkage to future IT developments
**Turnkey solution**

A turnkey solution guarantees the highest added value and the lowest project risks:

- Process analysis, analysis of workflows
- Analysis of the existing control system
- Proposals for improvements
- Planning of modification, standardised and step-by-step method to avoid production downtime
- Updating of diagrams and documentation
- Development and implementation of specific interfaces (hardware and software)
- Development of interfaces and drivers for integration of third-party products and existing control systems
- Modernisation of EICA technology and cabling
- On-site simulation options and tests
- Assembly, integration on site
- System tests and acceptances
- Support and 24/7 customer service

**Competencies**

JAG handles the implementation of retrofit projects while the existing plant remains in operation, also dealing with the narrowest of time windows and constritive building structures:

- In doing so, JAG draws on its know-how and experience from various areas of process engineering:
  - Development of control software
  - Development and construction of automation components
  - Development of automation concepts for complex manufacturing processes
  - Implementation of automation solutions for complex manufacturing processes
  - Planning and construction of switchgear cabinets
  - Planning and assembly of the electrical equipment of process and production plants
  - Planning and implementation of modification projects under the severest time constraints

**About JAG**

JAG is a process engineering leader planning and implementing the most challenging of process plants and automation solutions for the pharmaceutical and biotech industries as well as for the food industry. With our own JAG PdiCS automation and system solution, we are able to achieve total automation even of extremely complex and large-scale production processes.