Smart Manufacturing solutions
We help our customers create future-ready pharmaceutical manufacturing and biotech facilities.

CONTINUOUS PROCESS AUTOMATION
Smart Manufacturing
Boost Manufacturing Efficiency

Digital Process engineering
- Start you digital asset life-cycle
- Reduce time to market and improve operation and maintenance consistency.

HMI and Data Integration
- IoT ready system platform for better collaboration and reduced TCO

Industrial Information Management
- Transformation of your data into actionable knowledge and wisdom

Recipe and Batch Management
- Best in class solutions for management of flexible production process in regulated environment

Manufacturing Operation Management
- Multi-site IT platform for best in class operation, performance and quality

Simulation & Augmented Reality
- Helping you to better understand your complex process and take efficiency to the next level

Process Analytical Technology
- A range of process analyzers and tools to support PAT initiative and improve product quality

Smart Machines & Robotic
- High speed motion automation offer and know-how for outstanding performance

Process Automation
- Innovative control solutions for single use, batch and continuous pharmaceutical production process
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Process Automation

Innovative control solutions for single use, batch and continuous pharmaceutical production process

- Manufacturing facilities rely upon automated and integrated computer-controlled manufacturing systems to consistently deliver complex manufactured goods, within acceptable levels of product quality and operator safety — in a cost-effective manner.
- In a pharmaceutical and biotech manufacturing facility, there is even more at risk, with the health and lives of patients at stake.
- Inevitably, even the most advanced systems age and become potential liabilities.
- Proactively monitoring your systems and preparing for their eventual retrofit will help to protect both your facility and your patients from serious harm.

Learn more
Customer Challenge
• New production line to accommodate the high volume of anticipated demand
• Continuously gather information & monitor the manufacturing processes
• Avoid false alarms that causes production line to halt, resulting in downtime and lost revenues
• Move to electronic data reporting for audit trails to meet regulatory requirements

The Solution
• Ecostruxure Foxboro DCS

Customer Benefits
• 15% reduction in time & engineering costs
• High availability architecture at all operations levels – less downtime and increased reliability
• Vital solution for data record integrity
• Improvement of the maintenance operations

The Results: Life is On with... 30% increase in Overall Equipment Effectiveness (OEE)

“The Schneider Electric solution has met all Sanofi Pasteur’s expectations by providing easy migration with the existing system, high availability and a secure architecture to store and manage all the facility’s technical data.”

World’s leading producer of vaccines, producing 1.6 Billion doses of vaccines per year.
Global Biotechnology Company, US
Retrofit Pharmaceutical Manufacturing Automation System

Customer Challenge
Unpredictable downtime risk and low performance with aging hardware and high maintenance cost
• DCS system with end-of-life in Oct 2020
• HW, SW and Networks have limited capacity
• Spare parts scarcity and exponential price rise
• Certain third-party components no longer available
• Difficult to find skilled technical support and services

Solutions
Migration tool to Modicon M580 with very limited re-engineering; access risk and implement strategies for fast roll-out and lower downtime cost
• 100% like-for-like plug-in solution of current validated control logic software with same code structure and runtime behavior
  • Limited validation costs
  • Zero re-training of personals
  • Minimum impact on verticals such as HMI, Batch Manager, Historian and MES
• Limited downtime and zero cabling errors with reuse of existing I/O terminals Automated I/O Mapping
  • Reuse of terminal assemblies to avoid re-cabling on site
  • Automatic generation of cable instructions

Customer Benefits
• $20M savings in Validation expected
• Keep unaltered all SOPs, Trainings and all personnel knowledge on the process, debugging and coding
• Typical replacement of an individual controller in 20 minutes and full facility operation was restored in 2 hours

The Results:
Life Is On with... Groundbreaking advancement in automation software engineering reduced retrofit risks and costs, and decreased unplanned downtime by 95%

Biotechnology facility, FDA licensed for production of seven vital life-extending drug products

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**Customer Challenge**
- Improve process efficiency & batch yields
- Reduce equipment and maintenance costs
- Improve efficiency of the manufacturing process, specifically pH measurement within caustic solution without impacting company bottom line

**The Solution**
- Foxboro Measurement & Instruments

**Customer Benefits**
- Accurate pH measurement in demanding application, accurate to ±0.03 pH units
- Time saving - 3 hours time for pH adjustment versus 18 to 24 hours previously
- Quality assurance with Less sampling: only one sample needed versus 40 samples previously

**The Results: Life is On with... CGMP & FDA regulatory standards compliance & certification**

"We found many vendors that offered quality sensors, but Foxboro was the only one that could provide a robust design that could stand up to all the reagents and solvents in our solutions."

- Rob Pastushak
  Senior Technical Supervisor of Pharmaceutical Manufacturing