Agile Manufacturing

EcoStruxure™ boosts manufacturing flexibility & efficiency in the Food & Beverage, Household and Personal Care industries.
Agile Manufacturing
Transforming operations to improve flexibility and profitability

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

Process Control System
Process control system including MES functions designed to serve F&B and CPG applications

Process Automation
Innovative Ethernet based control platform for more performance, transparency and flexibility

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

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

Smart Machines & Robotic
Packaging automation offer and know-how for outstanding line performance

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EcoStruxure™ Machine
For simple to performance packaging and F&B machines

The solution

Business value

Shorten Time to market
- 30% Engineering and commission reduction
- 50% Maintenance Time reduction

More flexible and better connected
- Quickly and easily adapt machines to changing production and operator needs
- Easily connect your machines to everyone, everything, everywhere in real time

More efficient
- Easily improve the efficiency of machines, resources and employees
- 5% Greater production efficiency
- 50% Less machine downtime
- 30% Energy consumption savings
- 55% workforce effectiveness and efficiency increase

Safer and more secure
- Easily offer your customers machines that protect people, assets and the environment

Automation solutions for F&B machinery
EcoStruxure™ Machine - Packaging application
Example of high-performance packaging application

The solution
• One Software integrating Machine & Robotic
• Modular hardware and software approach
• Up to 99 synchronized axes or 30 robots
• Real-time controller to controller communication
• Integrated Safety
• DC bus sharing for Energy Efficiency

Business value
• 80% of cabinet size reduction
• Easy commissioning and maintenance
• Fast changeover
• Increased performance and OEE
• Increase energy efficiency
EcoStruxure™ Machine Advisor
Digital Services for machines

Track
A repository service in EcoStruxure Machine Advisor enabling online access to the machine fleet, documentation, and the history of all machines.
• Localize your entire installed base worldwide
• Manage machine data (BOM, documentation) and software
• Manage and log service, as well as maintenance activities

Monitor
EcoStruxure Machine Advisor service for OEMs and end users enabling them to remotely monitor and analyze machine health and performance.
• Monitor your installed base/single machine status and KPIs
• Starting with descriptive analysis, moving towards predictive analysis
• Customizable and configurable analytics dashboard

Fix
A toolkit to facilitate machine maintenance operations.
• Use software as a service directly from the browser
• Manage preventive maintenance plans and execution
• Use EcoStruxure Augmented Operator Advisor at end user sites

Learn more
EcoStruxure™ Augmented Operator Advisor

Easy-To-Use For industrial augmented reality applications

The Solution

• Combines contextual and local dynamic information delivering one mobile experience for both the physical environment and virtual objects.

Business value

• Reduce downtime - Open electrical cabinet doors virtually
• Speed up operation and maintenance - Find information faster with immediate access in the field to real-time data, user manuals, instructions, diagrams, etc.
• Reduce human errors - Locate the right equipment and guide operators step-by-step to complete maintenance procedures
Leveraging the potential of digitization throughout the machine life cycle

- **Design and engineering**
  - Up to 30% reduction of time to market

- **Commissioning and operation**
  - Up to 40% faster machine integration

- **Maintenance and services**
  - Up to 50% time savings for corrective actions
Customer Challenge
• Ensure high yields at low cost
• Labor-intensive processes
• Difficulties of human-machine interaction

The Solution
• EcoStruxure Machine (MachineStruxure)
• Elau PacDrive technology
• iSH Servo modules & drives

Customer Benefits
• Higher utilization of raw materials
• Scalable, modular machines and software
• Ability to monitor efficiency of process steps

The Results: Life is On with...
Utilization rate of 25%

“The sardine packing process is traditionally labor intensive and involves a long series of individual steps where efficiency is lost with each added step.”
Cabinplant A/S

Link to Video
Customer Challenges
- Meet market requirements for innovative, high-performing, and reliable smart machines
- Compact solution
- Modular design, nearly cabinet-less
- Preventive maintenance using augmented reality

The Solution
- EcoStruxure Machine including:
  - Machine controller
  - Servo drives and motors
  - EcoStruxure Augmented Operator Advisor

Customer Benefits
- Highest machine output on minimal footprint
- Best-in-class maintenance using augmented reality allowing reduction of downtime & improved service
- Fast, immediate access in the field to real-time data, manuals & diagrams to speed up machine operation & maintenance
- Continuous optimization during operation
- Short time to market
- 40% energy management savings

The Results: Life Is On with... 200% output with just 50% of the standard footprint

“For more than 10 years, Schneider Electric’s integrated servo drives have been the foundation of our modular system and engineering concept.”

Manfred Bonetsmüller, CEO, SOMIC Verpackungsmaschinen, Amerang

Link to Video 1
Link to Video 2
**Customer Challenge**
- Embark on their first digital transformation journey
- Secure company’s long-term future and offer more attractive jobs
- Need for helpful and sensible technology

**The Solution**
EcoStruxure™ Augmented Operator Advisor

**Customer Benefits**
- Provide visualization of production data on mobile devices
- Each application is customized to the specific environment and machine to suit customer’s needs
- Ability to provide customized information to every user based on their needs

**Results**
- Speed of resulting information displayed is greater than that provided by earlier solutions such as routing strips or electronic records
- High interactivity allows users to access real-time system data as needed

Watch the [video](#)
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## EcoStruxure for Food & Beverage / CPG

### Agile manufacturing
- Boost manufacturing flexibility and efficiency
  - Manufacturing Operation Management
  - Industrial Information Management
  - Process Control System
  - HMI and data Integration
  - Process Automation
  - Packaging Automation

### Efficient facilities
- Safer, more available, and greener resources
  - Smart Building Management
  - Power Safety & Availability
  - Power Quality & efficiency
  - Renewable Energy & Microgrids
  - IT Infrastructure Management

### Resilient supply chain
- Manage complexity and reduce logistics costs
  - Agriculture Efficiency & Sustainability
  - Suppliers Management
  - Supply Chain Optimization
  - Cold Chain Monitoring
  - Product Information Management

### Food Safety & Traceability
- Ensure compliance and trust across the product life cycle
  - Food Defense
  - Cybersecurity Services
  - Digital Calibration
  - Raw material traceability
  - Production traceability
  - Product Identification & Tracking

### Energy & Sustainability
- Reduce footprint and meet sustainability goals
  - Sustainability Consulting
  - Energy Demand Services
  - Strategic Energy Sourcing
  - Enterprise data management
  - Energy as a Service

### Asset Performance
- Maximize return on capital expenditure
  - Assessment and Consulting
  - Enterprise Asset Management
  - Condition Monitoring
  - Predictive Analytics
  - Line & Process Optimization
  - Modernization services

### Workforce Empowerment
- Improve staff knowledge, productivity and collaboration
  - Operator Training Simulator
  - Augmented & Virtual Reality
  - Workflow Management
  - Staff Schedule Management
  - Operator Knowledge Sharing

### Digital Engineering
- Cut time, cost and risks of capital project engineering
  - Electrical CAD
  - Building Information Modelling
  - Integrated Engineering-Design
  - Digital Asset Visualization

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Let’s talk about EcoStruxure for Food & Beverage
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