

Line card

Food & Beverage Portfolio

Products for the Primary Processes

Process Automation – DCS

A flexible, scalable and innovative control system that ensures the productivity, availability and safety of your plant process areas.

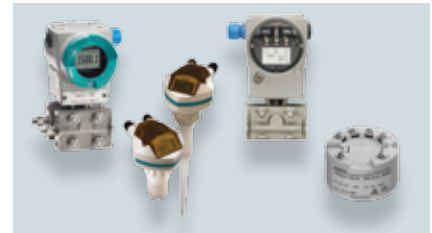
- Efficient Engineering platform
- User Friendly Operator System
- Complete Batch system and Route Control, Conforms to ISA88
- Process Data archiving and Reporting
- Integrated to Automation and Power Systems
- Fault tolerant and Failsafe applications
- Integrated Asset and Energy Management
- Process Safety & Industrial Security
- Standard Migration Products



Products for the Primary Processes (continued)

Process Instruments

- Pressure
- Temperature
- Level
- Flow
- Process Analytics
- Weighing Technology
- Multiple Standard Communication Interfaces



Actuators

- Valve Positioner
- Electro-pneumatic
- Linear or Rotary Applications
- Minimal air consumption



Products for Packaging Machines

We provide an extensive range of controller solutions to cover any user requirements.

Machine Control – PLC

- Modular expandability and scalability
- Wide range of communication options
- Integrated safety, security and diagnostics
- Can be used in harsh environments
- Long-term compatibility and availability



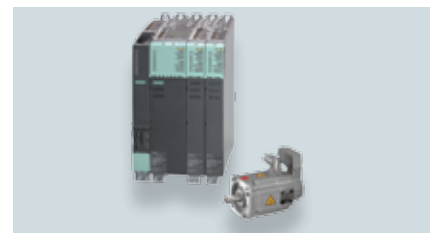
Machine Control – PC

- Open hardware and software configuration
- Interface to non-automation software (databases, business SW)
- Wide range of functionality, combining PC application, HMI tasks, control tasks and technology functions



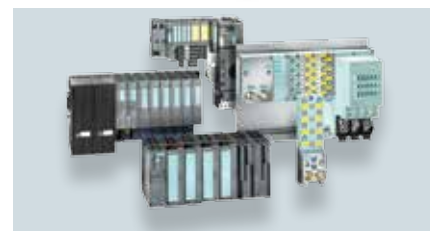
Machine Control – Motion

- Synchronous or Asynchronous applications
- Integrated, easy to use engineering system
- Scalable on multiple hardware platforms
- Improves machine flexibility
- Performance improvements through mechatronics or energy recovery



Distributed I/O

- Communicate with multiple fieldbuses (PROFIBUS, PROFINET, AS-i, others)
- High and low density IO
- Integrated diagnostics
- Integrated motor starters and VFDs
- In panel and washdown solutions



Drives

- Low or Medium Voltage
- Multiple platforms to fit any application
- Single unit or modular
- In panel or distributed
- Integrated Safety
- General Purpose, Motion, DC
- Multiple bus communication options
- Full Regeneration Vector Control
- Active harmonics filtration



Operator Interface

- Versatility – Keypad, Touchscreen, External Keyboard and Mouse
- Flexibility – Stationary or Mobile, Wired or Wireless
- Connectivity – Ethernet and serial communication to multiple busses, Web Server, Email
- SD Card Slots – Automatic and manual backup
- Rugged – IP65/NEMA 4x, High EMC compatibility, Vibration-resistant
- Advanced capabilities – Recipes, Data Logging, Remote Access, Asset Management



Device Level Networks

- PROFIBUS
- PROFINET
- AS-i
- Modbus
- Ethernet/IP
- HART



Safety

Integrated safety will reduce design and wiring requirements while improving system productivity. Solutions for machinery as well as process automation.

- Hardwired and Programmable Safety Relays
- Separated and Integrated Safety Controllers
- In panel and field-mounted Distributed I/O
- Motor starters, VFDs and Servo Drives
- Networks (AS-i Safe, ProfiSafe)
- Sensors, Switches and Buttons



Control Products

Modular design offers quick assembly, reduced wiring, and space-saving panel designs. Communication provides detailed diagnostics and process information.

- Motor Starters and Protection
- Soft Starters
- Pushbuttons, Switches, Pilot Lights
- Relays and contactors
- Terminal Blocks
- Circuit Breakers



Motors and Geared Motors

Innovative large motor solutions for demanding industry applications

- 1 - 18,000 HP NEMA and ANEMA
- IEC 0.06 - 100,000 KW
- Synchronous and Slip Ring Motors 350 - 136,000 HP
- Synchronous Motors IEC 200 -1,000,000

Wide range of gear units and couplings

- Helical, parallel shaft, bevel helical, helical worm, worm gearboxes
- High Energy Efficiency
- Shaft systems for brake, backstop, speed encoder, forced ventilation, protective canopy
- High-availability, short delivery times
- Very Compact and low weight



Power Supplies

- V5A to 40A Stabilized DC Power
- Compact design
- Redundancy
- Diagnostics
- Available in 5V, 12V, 15V and 24V DC Output
- Wide Input Range: 85-264V AC and 110-300V DC
- Signaling
- DC UPS Modules
- Temperature range from -20 °C to +70 °C
- High efficiency



Products for the Plant Infrastructure

Power Distribution

Whether in industrial plants or in buildings, every technical system depends on a reliable supply with electrical energy. We provide the best solutions for the responsible use of electrical energy.

- Cost savings through communication-capable products for energy management
- Safety through resistance to arcing faults
- Comprehensive support
- Global use with IEC/EN & UL standards
- Top quality standards with certified designs world-wide
- From the MV supply to the socket outlet – all from one source
 - Medium-voltage switchgear
 - Transformer
 - Busbar trunking systems
 - Low-voltage switchboards and MCCs
 - Distribution boards
 - Protection devices
 - Switching devices
 - Measuring and Monitoring devices



Building Automation

Standalone and integrated solutions that optimize building performance:

- Building Automation
- HVAC
- Lighting Control
- Energy Management
- Building Performance Optimization



Security

Siemens is able to conceive, design, build, maintain, monitor, finance, and even operate an integrated security solution and services for you.

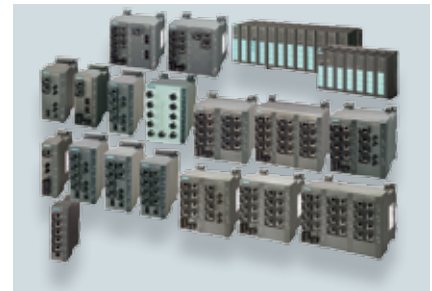
- Command and control solutions
- Security management solutions
- Intelligent video analysis
- Access Control
- Intrusion Detection



Networks

Industrial Ethernet with support for advanced features including:

- Safety
- Wireless
- Redundancy
- Security
- Diagnostics



Fire Systems

Everything you need for comprehensive fire safety.

- Fire Safety Systems
- Danger Management Systems
- Fire Safety Services



Industry Services

Minimum downtime and the optimum use of staff and resources are key to sustainable success in industry. Siemens provides the basis for greater productivity, flexibility, and efficiency with technology-based services throughout the lifecycle of an industrial plant – reliably, globally, and around the clock. Our in-depth technology and product knowledge as well as broad industry expertise ensures our customers a considerable competitive edge. We keep your operations up and running with world-class services, products, and support.

- Increase productivity and maximize uptime
- Reduce total cost of ownership
- Improve safety and regulatory compliance
- Maximize manpower availability
- Improve flexibility (to adapt to market demand and economic conditions)
- Enhance competitiveness and profitability
- Improve reliability and sustainability
- Reduce resource consumption (water, energy)
- Remote condition monitoring
- Industrial security
- Integral plant maintenance/asset performance
- Energy and environmental services

Energy Management

- Energy usage analysis
- Web accessible
- Cost allocation and sub-billing
- Equipment monitoring and control
- Load studies and asset management



Manufacturing Execution Systems (MES)

Siemens offers the perfect, tailor-made system to access all of your real-time process information companywide.

Production Suite – Production management and execution Scheduling

- Material management
- Recipe management
- Genealogy and Track and Trace

R&D Suite – Integrating R&D and manufacturing processes, workflows and data

- Laboratory Information Management (LIMS)
- Product specification management
- Quality assurance

Intelligence Suite – Real-time data monitoring and historical data collection in a unified environment

- Data aggregation and reporting
- Plant performance analysis
- Key Performance Indicators (KPI) calculation
- Overall Equipment Effectiveness (OEE)

Industry Libraries

- Discrete Manufacturing
- Process Industry
- Life Sciences Industry

Value Added Services

- Broad concept of Customer Care

Product Lifecycle Management (PLM)

Our PLM solutions can help you make smarter decisions that lead to better products.

- Brand/Business Portfolio Management
- Program/Project/Resource Management
- Encompasses Product, Package, Process, Plant and Production
- Teamcenter Platform coordinates knowledge, reporting, workflow, compliance



For more information, please call 1-800-333-7421.

Siemens Industry, Inc.
3333 Old Milton Parkway
Alpharetta, GA 30005
1-800-241-4453

info.us@siemens.com

usa.siemens.com/foodbev

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