SPECIALTY CHEMICALS SOLUTIONS
Make Honeywell Your Competitive Advantage

- Drive down production costs
- Maximize unit production
- Increase flexibility and reduce changeover times
- Achieve quality targets
- Improve efficiency
- Reduce waste
Specialty Chemicals Solutions That Work for Your Business

Honeywell’s solutions and services are the power behind the world’s best specialty chemical businesses. Enhancing operations, adapting to requirements and ensuring safety, they can be your key to a more competitive business.

Our technology has been controlling the world’s largest and leading chemical plants for over 40 years. Sensors, devices, controls, automation and expertise help manufacturers address varied challenges in a fast-moving market.

Whether it’s maximizing throughput, controlling quality, increasing flexibility or reducing costs, Honeywell has the answer. Across agrichemicals, construction chemicals, industrial gases, polymers and everything in-between, we offer industry-leading technology, in-depth expertise and a global presence to help you become more sustainable, efficient and profitable.

A Global Leader

In a competitive market, specialty chemicals manufacturers need to deliver the right product, on schedule, at the right cost. They also need flexibility to respond to market opportunities and quickly manufacture new products.

The right automation solution is essential to achieve the reliability, quality, agility and efficiency you need.

Honeywell has the answer.

We’re a leader in automation for the chemicals market. From small single product sites to the world’s biggest plants, our scalable solutions deliver the results businesses need.

We’re present in every region of the world and in every relevant sector, bringing experience and expertise in continuous and batch automation to applications across agriculture, chemicals, paints and pigments, synthetic fibers, polymers and resins, polysilicon and pharmaceutical ingredients.

The Secret of Our Success

Discover the reasons why eight out of the top ten specialty chemical companies worldwide use Honeywell solutions:

• The industry’s most advanced automation and process control for consistency and oversight across every batch
• Scalability and flexibility to address and adapt to wide ranging and changing process requirements
• Optimized production cycle times and improved reliability with smart features such as controller-based batch recipe execution and alarm management
• A unique lean execution LEAP™ service to reduce risks and accelerate project schedules, getting you to production faster
• Market leading, global services and support to keep plants and businesses running efficiently, reliably and safely.

We help specialty chemical sites maintain product quality, increase efficiency, and bring products to market faster.
Achieve Competitiveness

Honeywell combines field-proven technology with expertise in industrial Internet of things (IIoT) and cloud technologies for effective solutions. Our control solutions and connected field instrumentation help specialty chemicals manufacturers boost process efficiency, increase plant availability and throughput, and reduce maintenance costs and downtime.

We’re the one-stop shop for comprehensive solutions across automation, control, field devices and building systems. And it’s all backed by the highest levels of service and expert support.

Our technology is designed to achieve chemical companies’ key goals—helping processes run smoothly, optimizing operations, empowering collaboration and improving insights from analysis to deliver more profitable outcomes:

- Greater efficiency, improving the use of assets, labor, materials and energy; reducing raw material losses and inventories; and improving product quality
- Improved agility, helping businesses deploy faster; get to production quicker; and changeover more quickly and reliably
- Higher reliability, improving process availability; increasing on-spec product; reducing batch cycle times; and hitting shipments on time.

From First to Last: Excellence Across the Lifecycle

The largest project service organization in process control, Honeywell brings unparalleled scale and a unique approach to execution. With solutions for optimization, monitoring and analysis, and a long-term commitment to our installed base, we’ll also ensure you maximize and sustain production and profits.

Our solutions span manufacturing automation, building controls and fire and safety. Comprehensive support and services can also be deployed remotely or through our global network of expert engineers. Choose from a wide-ranging portfolio and benefit from the most advanced technologies and the lowest lifecycle costs available.
We connect people, process and assets to continually redefine optimal performance.

People, Processes and the Plant: The Connected Plant

Honeywell Connected Plant (HCP) brings together our industrial expertise, powerful software and digital technologies such as the Cloud and big data to connect processes, people and assets.

- **Process**: Safer and optimized processes through multivariable control with Profit® Controller software.

- **People**: Mobile devices, intuitive software, collaborative tools and human-factors focused design to empower a workforce to work smarter, faster and safer.

- **Assets**: Asset and process data combine with OEM analytics, expert guidance and remote monitoring to boost reliability. With Control Performance Monitor condition-based monitoring users can identify, diagnose and remedy control asset issues across all plant layers.
Experion® Batch combines distributed control, batch automation and patent pending visualization to enable users to optimize availability, productivity and reliability. Cut the costs of a Windows-based batch server with a single robust controller for creating and executing all levels of the ISA S88 procedural model.

Unrivalled power combines with ultimate flexibility. Intuitive control allows users to rapidly develop, add and modify recipes, equipment or even hardware without shutting down.

ControlEdge™ Unit Operations Controller (UOC): Part of Experion Batch, ControlEdge is the next generation family of controllers, delivering powerful distributed control in a compact form. With Virtual UOC, ControlEdge can extend the Experion control environment to the smallest applications. Users have the flexibility to develop recipes, test, and even execute in a virtual environment—all without Windows.

Control Room of the Future: In industrial control rooms around the world, operators are being asked to make faster and better decisions based on ever-increasing process data. In addition, teams are expected to bring their knowledge and expertise together to improve operational effectiveness and achieve business goals. Seamless visibility across an entire enterprise can improve efficiency, reduce downtime, and help your team maintain profitability. Honeywell offers solutions to leverage more meaningful data from across your operations.

Universal Process I/O helps you get things done faster and reduce your footprint. Eliminating marshaling, our universal I/O can be configured without additional hardware and lets you connect any field signal to any I/O channel in standard cabinets. The most flexible controller available, it makes validation easier, eliminates delays from late changes during the design phase, and reduces requirements for inventory and spares.

Distributed System Architecture is the best solution for integrating multiple units, control rooms or geographically distributed locations. With unrivalled scalability, it seamlessly collates operational data from multiple Experion systems into a single, integrated system, without the need for additional engineering or configuration.

Immersive Competency, Intelligent Wearables and Mobile Operations: a one-stop shop for end-to-end management of worker safety, competency and productivity, delivering an ecosystem of information, insight and collaboration, in the moment, for the field worker. Making any knowledge and competency accessible in any shape or form to the operator in real-time for better decision making and higher execution capability while increasing field worker safety.
Demand More from Your Data

Capture, record and analyze with Honeywell solutions that give at-a-glance visibility and deep insights into your process. Honeywell solutions turn your data into actionable intelligence for better decisions, and eliminate errors and effort when producing reports for regulators, customers and businesses users.

Procedure Analyst: Confident quality control with comprehensive procedure execution reporting and tracking. Drawing on historian and Experion data, Procedure Analyst helps users quickly spot quality problems and identify deviations from golden procedures. It gives the insights they need to drive greater consistency, improve safety, lower material and energy costs, and cut cycle times.

DynAMo® Alarm & Operations Management turns noise to knowledge with powerful alarm management tools. Award-winning software keeps the process safe and profitable by increasing situational awareness and promoting better operator responses. DynAMo solutions put you on the forefront to develop proactive alarm and operations management.

Smart Instrumentation: Honeywell has a comprehensive range of IIoT-ready and wireless measurement and control products. Standalone instruments, smart sensors and integrated systems combine with industry-leading software solutions and use of open standards to enhance asset utilization and optimize production.

Solutions for Safety & Security

Experts in fire and gas detection and suppression, access control and cyber security, we can help keep your plant, people and environment protected.

Industrial Cyber Security Solutions are based on a commitment to rigorous segmentation of security zones to protect your industrial control systems. We offer a full range of software and services:

- Architecture and design
- Assessments and audits
- Application whitelisting and endpoint protection
- Managed industrial cyber security services
- Risk Manager software, the first solution to monitor, measure and manage cyber security risks for industrial environments.

Honeywell Building Solutions has been keeping sites safe and secure for over a century. We bring extensive experience of all chemical operations, including HVAC and quality critical environments. You can count on a global leader for building automation, security, energy management, and fire and life safety solutions.

Why Honeywell?

Experienced: Over three decades working with the world’s leading chemical companies.

Scalable: Flexible solutions for every operation, from the smallest to the largest.

Secure: Industry leading cyber and physical security, access control and protection.

Fast: Quicker, lower risk project execution with LEAP, virtualization, the Cloud and Universal IO.
Project Execution and Services
Honeywell’s unique project execution and ongoing support reduces your risks, accelerates schedules and adapts to your needs to get you to production faster and keep you running smoothly.

Lean Execution of Automation Projects: Using Virtualization, Universal Channel Technology and Cloud Engineering we keep automation systems off the critical path. LEAP drastically improves the schedule and drives down costs and risks—particularly in late stages. We make sure you get to production on time and, once there, LEAP principles keep the plant running efficiently, helping you improve asset utilization and avoid major capital expansions.

Assurance 360 outcomes-based services give you certainty and cost control, guaranteeing agreed service levels. Pay for results, not materials and labor, and gain strategic control of your servicing and maintenance. Helping minimize the total cost of ownership, Assurance 360 lets you guarantee performance levels and enhance business performance.

Consulting and Engineering Services use Six Sigma methodologies and best-in-class tools for superior results. We draw on a global presence and deep expertise, so, wherever you are, whatever your process, we’ll work with you to define requirements and deliver on time and on budget.