Quality Control Systems for
Plastics, Nonwovens, Rubber and
Aluminum Sheet Processes
An industry leader in more ways than one.

Honeywell’s Continuous Web Solutions (CWS) is the global leader in advanced solutions for quality control systems. With 33 years of experience in extrusion, oriented films, coating and converting, nonwovens, rubber calendering, and aluminum rolling and 4,000 installed systems, CWS has advanced measurement and automation solutions flexible enough to be tailored to your process needs.

Honeywell has the technology and domain expertise to deliver unparalleled solutions to meet your needs. Our diversity and global reach help to make us a reliable, well-balanced and financially strong partner.
Measurement excellence.

Accuracy and speed of online measurements are the foundation for results. Honeywell’s Precision measurement technology offers new benchmarks for speed, precision and reliability. The MXProLine™ platform offers a broad range of online scanners and sensors so you can select the measurement system best suited for your application. Features include:

- Low noise and fast measurement response for faster startups and improved streak resolution
- Advanced optics and sensor geometry concentrate measurements over a smaller area, for fast, precise measurement with less noise
- Patented UniCal calibration for accuracy and repeatability, insensitive to composition and formation
- Patented three-point standardization and two internal standardization flags ensure long-term measurement repeatability
An approach that yields results.

The Right Knowledge at the Right Time is Key to Making the Right Decisions.

Experion® Process Knowledge System (PKS) is a secure, scalable platform unifying business and manufacturing intelligence designed to improve your business performance and peace of mind.

The Experion PKS architecture offers a choice of a fully integrated system with the MXProLine Quality Control application or an independent, standalone system to meet the needs of plant-wide operations.

Process Performance: Experion addresses your entire manufacturing process to find ways to safely achieve peak performance. Honeywell can help take advantage of hidden opportunities in your system, optimizing quality, productivity and profitability.

By actively managing and raising process performance through Experion, you’ll maximize the return on your investment.

Asset Effectiveness: Manage your assets in real time. Experion’s process-centric approach helps discover assets most critical to performance; from a control loop to an entire process unit, helping to avoid downtime and costs of unscheduled replacement.

Business Agility: Experion helps your facility prepare for changing conditions. With our business agility applications, interfaced with business software, you have access to real-time performance data to capitalize on opportunities faster and more intelligently.

People Effectiveness: Your people are the best source of knowledge for improving business performance. Experion gives your people access to the data they need to succeed.

Better Technology Turns Resources into Results.

Quality Control: Integrated with Experion PKS, MXProLine is the industry's leading Quality Control System with fast scan speeds, high accuracy, low noise and fine resolution. MXProLine delivers the product to specification and optimizes quality in the shortest possible time. MXProLine supports online quality measurements including weight, coat weight, moisture, thickness, density, color and opacity.

Distributed Control: Experion provides unprecedented connectivity through all levels of process and business operations, including process control, machine control, drive control, extruder temperature control, oven temperature control, winder control, gravimetric blending and batch processing.

Business Solutions: OptiVision® business execution applications provide planning and scheduling, quality historian and trim optimization solutions, all efficiently integrated with your business management systems. Honeywell has solutions to meet your needs and help improve business performance through process visibility, manufacturing optimization and improved asset utilization. Integration with your ERP system provides enterprise-wide visibility, getting knowledge to people who need it, in real time.

Wireless Solutions: Honeywell’s proven wireless solutions give you access to your process data from remote locations. This assures you can always access your plant process information to improve product quality, maximize uptime and reduce costs.
Plastic Sheet, Film and Converting
MXProLine solutions are available for a variety of plastics processes:
- Calendered sheet and film
- Cast and oriented films
- Extruded coatings, foam and sheet
- Downstream coating and converting
- Numerous specialized applications, including lithium electrode coaters and battery separators

Nonwovens
MXProLine provides solutions to roll-goods manufacturers worldwide, including the prevalent forming and bonding processes such as spunbond, airlaid, meltblown, SMS composite, hydroentangled (or spunlaced), wetlaid, carded, needlepunched, calendered and high loft. CWS systems are also used on numerous downstream converting processes including coating/laminating, composite extrusion and off-machine calendering.

MXProLine sensors provide a variety of online quality measurements, including weight, thickness, moisture, coat weight, composition (such as bicomponent fiber, latex, LOI, synthetic fiber differentiation), ash, color, formation and temperature.

Rubber
MXProLine means improving quality and saving raw materials for tire components through total quality control solutions for all types of rubber calendering and extrusion processes, including tread extrusion, innerliner, gum, textile and steel cord calenders, whether Z-, Inverted L- or tandem 3-roll. MXProLine measurements are fast and precise for consistent roll-to-roll quality. MXProLine’s wire calender measurement uses a narrow-aperture sensor, high-speed data acquisition and advanced spatial detection algorithms to give you visibility into the sheet of the precise position and spacing of every wire.

Defect tracking provides intuitive and precise analysis of any defective material in the wound rolls, allowing efficient removal of off-spec material from downstream tire production.

Aluminum
MXProLine serves aluminum sheet and foil processes worldwide, including aluminum cold rolling, foil rolling and continuous casting processes. Benefits include:
- Accurate non-contacting, real-time measurements
- Dynamic models of process behavior to correct for environmental factors such as air gap temperature
- Low noise electronics for a stable and repeatable measurement
- Fast sensor response for precise high-speed feedback, feed-forward and mass flow control
- Calcoil induction heating actuators for precise control of cold rolling edge flatness and continuous cast sheet profiles

For your business.
Our difference is your advantage.

A Global Leader in Technology, Quality and Domain Expertise

Honeywell created the first digital measurement and control systems for flat sheet products in 1968, deployed the first hybrid control system (PlantScape) and rolled out the world’s first Process Knowledge System (Experion PKS).

Everything we invent, across the entire spectrum of Continuous Web Solutions lifecycle, is geared toward creating tangible customer results.

From the sensors, to the control room, to the board room, only Honeywell brings all the intelligence you need together into a real-time system that helps you manage your whole business, not just components and parts.

Service and Support

Better lifecycle support aligns you with continuous evolution.

Honeywell’s comprehensive support services are a valuable asset to your operation. With Honeywell, the information or support you need is as close as a web browser or a telephone call. And with industry-specific offices in dozens of countries, we’re always within reach.

With Honeywell, you can upgrade to newer technologies when it makes sense for you. Comprehensive support is available for system migration options and parts.

Honeywell’s Solution Enhancement Support Program (SESP) offers many benefits:

• Increase automation ROI
• Maximize control system performance
• Optimize production processes
• Improve product quality
• Enable preventive and corrective maintenance
• Keep systems current
• Protect your investment in capital assets and intellectual property

Better Delivery Means Quicker Startup and Immediate Benefits

When it comes to rapid, safe, and successful deployment of integrated control solutions, Honeywell is unsurpassed. Our more than 3,000 worldwide services professionals in over 90 countries ensure that you get expert, experienced people who are focused on delivering results with an impressive 98 percent on-time, on-budget record.

Experion and OptiVision are registered trademarks of Honeywell International Inc. MXProLine is a trademark of Honeywell International Inc.

For More Information

To learn more about Honeywell’s solutions for the continuous web process industries, visit www.honeywell.com/ps or contact your Honeywell account manager.

Automation & Control Solutions

Process Solutions
Honeywell
2500 West Union Hills Dr.
Phoenix, AZ 85027
Tel: 877.466.3993 or 602.313.6665
www.honeywell.com/ps

© 2006 Honeywell International Inc.