

Automation TODAY

Issue 72

ASIA PACIFIC

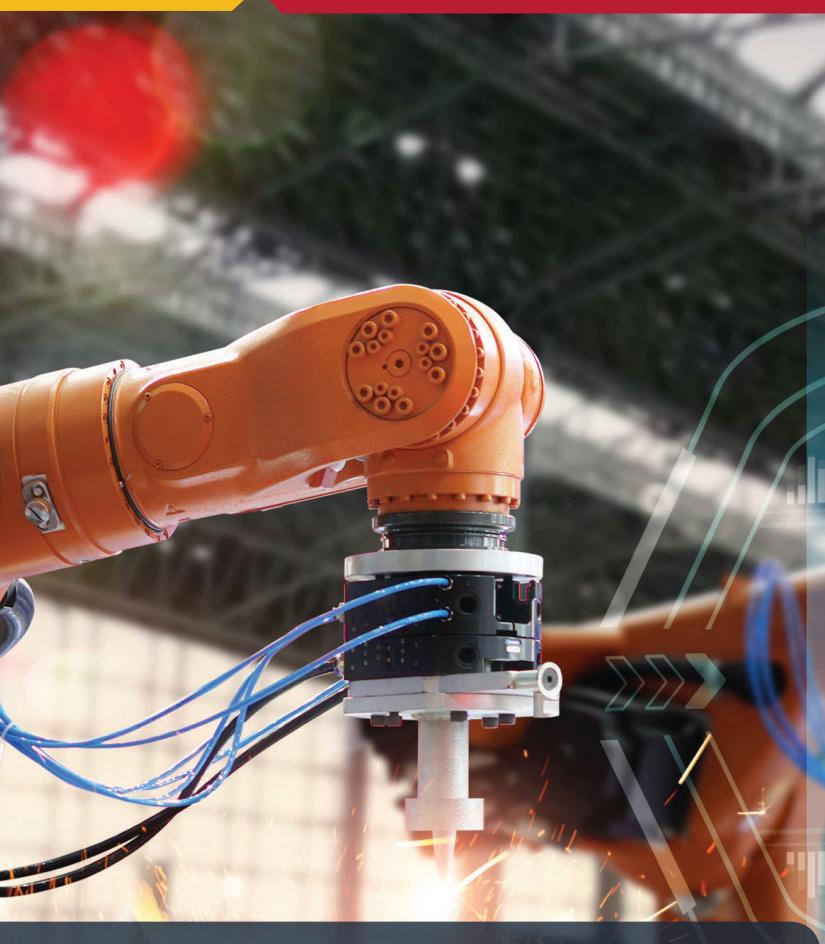
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Ready to
GET SMART?



**Rockwell
Automation**

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Introducing the latest and updated technologies and solutions for smarter operations

Automation Today Asia Pacific

Issue 72



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Start your Smart Manufacturing Journey



● ● ● Smart devices are the foundation for smart systems and smarter machines. They are the gateway to the information you need to take immediate action, improve productivity, and kick off your digital transformation journey. Alongside this are smart safety and security solutions that are critical components of any manufacturer's operational plan.

In this issue of Automation Today, discover the elements needed to create a structured and robust Information Technology (IT) and Operational Technology (OT) infrastructure and build a security plan that best suits your smart strategy.

Additionally, learn about the benefits of independent cart technology as the next generation in smarter motion control, and how you can boost productivity with smart safety. Included are customer case studies as well that showcase how we have supported a steelworks facility and original equipment manufacturer deliver smarter machines and solutions to their customers.

I hope this edition of Automation Today helps you in getting started or moving forward in your smart manufacturing journey.

Keep safe and stay connected.

Scott Wooldridge

President, Asia Pacific
Rockwell Automation

Rockwell Automation Honors Innovation and Transformational Solutions at Asia-Pacific PartnerNetwork™ Conference

●●● Inaugural award show presented to distributors and partners in Asia-Pacific during in-person conference, gathers ecosystem partners to drive innovation, better serve customers



Rockwell Automation announced the winning partner companies coming out of the inaugural PartnerNetwork Awards at the [Asia-Pacific PartnerNetwork Conference](#) 2022 held on May 18 and 19 in Singapore.

The conference was an exclusive, invite-only event which saw the participation of close to 500 partners. It also included a virtual experience where attendees had access to live streams of keynote presentations and on-demand content post-event.

Following the theme “Better Together,” the conference focused on redefining possibilities together with its partners, through collaboration, while reinforcing the value of the global community, to advance customer successes. From discussion sessions to engaging industry networking events, partners were on full display throughout the event, but especially during the first edition of the PartnerNetwork Awards.

The awards showcase honors the achievements of organizations that have successfully planned and executed innovative and transformational solutions. These organizations have found ways to impact one or more areas of their business through the application of Rockwell Automation and other partners’ digital and disruptive technologies.

“The quality of award submissions we received was truly impressive,” said Don Shoemaker, regional vice president of global market access, Asia Pacific, Rockwell Automation. “Our partners in the region, across many industries, have worked together to not only help their customers transform digitally but also improve their manufacturing and supply chain processes, and build resilience to withstand unexpected disruptions.”

Rockwell Automation would like to congratulate the winners, as well as all who entered:

Distributor Partner of the Award Winner	System Integrator Partner of the Year Award Winner
Winners Automation (Korea)	Greenwave Solutions (India)
Distributor OT Innovation Award Winner	Automation System Integrator Innovation Award Winner
NHP Electrical Engineering Products (Australia)	ATSYS (Australia)
Distributor IoT Innovation Award Winner	Information Software System Integrator Innovation Award Winner
Ningbo Jetron Technology (China)	Birlasoft (India)
Distributor Customer Experience Award Winner	System Integrator Innovation Award Winner
Anshan Huashi (China)	Airetec (Singapore)
Partner Ecosystem Innovation Award Winner	
Kevin Technologies (India)	

Additionally, during the conference, SAGE Automation, Australia’s leading independent industrial automation and control provider, was recognized as the first company globally to be designated as a Platinum System Integrator Partner under the PartnerNetwork Program. MESNAC, an international high-tech enterprise group from China, was also announced as the first Platinum OEM Partner from the region.

Rockwell Automation has been operating in AsiaPacific for over 40 years and continues to invest in its vision of expanding human possibility and digital transformation for its customers across the region. With over 5,800 dedicated employees in the region and a robust ecosystem of close to 900 partners collaborating towards delivering value for our customers, Rockwell Automation continues to transform the industry, unlocking potential and productivity through automated and connected innovation.

For more information on Rockwell Automation’s PartnerNetwork Program or to request more information from your local sales office, please see [here](#).

Rockwell Automation Announces MESNAC Co., Ltd. as its First Asia-Pacific Platinum OEM Partner

●●● A joint collaboration in promoting smart manufacturing of rubber machinery industry

Rockwell Automation announced MESNAC Co., Ltd. as the first Platinum Partner to its Original Equipment Manufacturer (OEM) Partner Program, in Asia-Pacific. MESNAC is one of the world’s top three high-tech enterprise groups concentrated in the field of rubber machinery.

Rockwell Automation works with OEMs across the globe to design, develop, and deliver innovative equipment with Rockwell Automation solutions. In late 2020, Rockwell Automation evolved its OEM Partner Program globally, establishing levels of participation based on need and output. First established in 2010 as the [Machine and Equipment Builders](#) Program, the OEM Partner Program now includes almost 3,300 manufacturers worldwide.

"We are excited to welcome MESNAC as our OEM Partner within Rockwell Automation's OEM Partner Program," said Scott Wooldridge, president, Asia-Pacific, Rockwell Automation. "Participation in Rockwell Automation's partner ecosystem enables MESNAC and Rockwell Automation to deliver integrated solutions based on our advanced technologies, IT/OT convergence, and advantages in smart management and control for the rubber machinery industry."

As the enhanced offering now provides increased market access opportunities, simplification, and standardized product alignment for manufacturers, enabling participants to fully leverage Rockwell Automation technologies, the company expects more platinum level partners, as well as a number of gold, silver, and bronze, to join the program, making it a world-class opportunity for original equipment manufacturers.

"MESNAC is pleased to join Rockwell Automation's OEM Partner Program," said MESNAC senior vice president, Xiang Kunhong. "This designation level is especially important to us because it is the first Asia-Pacific designation within the OEM program, which further supports our equipment and technology solutions that are primarily built around Rockwell Automation controls and automation technology."

For more information on Rockwell Automation's OEM Partner Program or to request more information from your local sales office, please click [here](#).

Rockwell Automation Announces the First Platinum System Integrator Partner, SAGE Automation, to its PartnerNetwork™

●●● Top-level Rockwell Automation Platinum Partnership helps industry address current issues and prevents future ones

Rockwell Automation announced SAGE Automation as the first organization globally to be designated as a Platinum System Integrator Partner as part of the PartnerNetwork program. Based in Australia and India, SAGE Automation is an independent industrial automation and control systems integrator, delivering industrial automation design, delivery, and support globally.

The program brings robust commercial and technical enablement to maximize system integrators' skills, recognize and reward performances, and provide the ability to find the right system integrator for a project to meet our customers' needs and achieve mutual success. As a Platinum System Integrator Partner, SAGE Automation will receive benefits including gaining enhanced recognition with customers and in the industry, as well as receiving incentives and product and technical support.



"The partnership between Rockwell Automation and SAGE Automation aims to deliver the full benefits of world-class automation to Australia, helping local industries obtain the widest possible breadth of expertise to make the most productive automation choices and avoid the high costs of uninformed decisions," said Anthony Wong, managing director, South Pacific, Rockwell Automation.

"Automation is no longer an option for many companies who wish to remain competitive – it is an imperative – and Rockwell Automation's collaboration with SAGE will simplify programming and lifecycle management, accelerating time to value for our customers," he added.

Machine builders, system integrators, and others will gain development and deployment efficiencies through the use of digital engineering tools. The combined Rockwell and SAGE Automation solutions will also offer benefits beyond enhanced integration. For example, end users can use analytics and digital twin tools to gain deeper insights into machine performance and potential production optimization. They can also use safety and security solutions to reduce business risks.

"SAGE Automation is proud to be the first recognized Platinum Partner globally in Rockwell's System Integrator Partner Program. SAGE's industrial digitalization services – through a data-driven approach combined with automation, scalable support and enabling internal capability – have accelerated thousands of client journeys around the world," said Adrian Fahey, group managing director, SAGE Group of companies.

"Our partnership with Rockwell brings the technical experience and best thinking to these critical industries and projects, from supporting Australia's most iconic manufacturers, to the energy systems that power our homes, the safety solutions that protect workers in high-risk environments, and the systems that provide Australians with clean drinking water."

Rockwell Automation Australia's key focus industries in Australia and New Zealand include manufacturing, particularly food and beverage, resources, including mining, oil and gas, energy, transport, including automotive and metal working, water and smart wastewater and sustainability solutions.

"Achieving this level of partnership with Rockwell cements our position as a world leader, supporting our clients through times of change, and always delivering the certainty they rely on," concluded Fahey.

For more information on Rockwell Automation's System Integrator Program, or to request more information from your local sales office, please click [here](#).

Rockwell Automation Named a Visionary; Plex Systems Named a Leader in 2022 Gartner® Magic Quadrant™ for Manufacturing Execution Systems

Rockwell's comprehensive portfolio accelerates Manufacturing Execution Systems transformation for more clients globally

[Rockwell Automation](#) has been named as a Visionary for its FactoryTalk® ProductionCentre and [Plex Systems](#) named as a Leader for its Smart Manufacturing Platform in the Gartner Magic Quadrant evaluation of Manufacturing Execution Systems (MES).

Rockwell believes the positioning in the 2022 Gartner Magic Quadrant demonstrates fast-growing market reach and industry recognition for its overall MES portfolio. Rockwell customers can now benefit from an evolving "greater than the sum of its parts" perspective reaching a wide range of industries.

"We welcome the recognition of Rockwell's MES portfolio in the 2022 Gartner Magic Quadrant report," said Brian Shepherd, Rockwell Automation senior vice president, Software & Control, who noted the interpretation of MES functionality by Gartner now expands beyond the traditional definition to include all plant-level functionality between enterprise-level business operations, engineering systems, and plant automation.

"We're proud to see the Rockwell FactoryTalk solution recognized as a Visionary for its game-changing orchestration of MES functions," Shepherd continued. "We believe the positioning of Plex as a Leader also showcases the impact and value the Smart Manufacturing Platform delivers to customers. We feel this recognition of Rockwell's comprehensive portfolio by Gartner further demonstrates the synergy between these offerings."

Rockwell's complete operations management portfolio includes Plex Systems and FactoryTalk ProductionCentre solutions with capabilities including MES, QMS, Supply Chain Planning, Production Monitoring, and Asset Performance Management. FactoryTalk ProductionCentre offers the deep feature and functionality required by highly regulated industries. Plex offers the only single-instance, multi-tenant software as a service (SaaS) manufacturing platform operating at scale, serving over 700 customers and managing more than eight billion transactions per day. Together, the Rockwell operations management portfolio provides the best solutions for the widest array of customers to achieve their operational digital transformation journey.

Learn more about Rockwell's position as a Visionary [here](#) and Plex's position as a Leader [here](#), in the 2022 Magic Quadrant for Manufacturing Execution Systems.

Rockwell Automation Names Tessa Myers Senior Vice President, Intelligent Devices



Tessa Myers has been named senior vice president, Intelligent Devices, effective June 6. She reports to Rockwell Automation Chairman and Chief Executive Officer Blake Moret.

In this role, Myers is responsible for leading strategy, product and talent development for the Intelligent Devices business segment. Myers succeeds Fran Wlodarczyk, who is retiring in early 2023 after more than 35 years with Rockwell.

"Tessa's deep industrial automation background, business leadership experience, and understanding of global customers are extremely valuable as we look toward the future," said Moret. "Throughout her Rockwell career, Tessa has transformed go-to market strategies and delivered product innovation. She will work with the other members of a talented executive team to accelerate our profitable growth."

Most recently, Myers was vice president and general manager for the Production Operations Management Software business unit within the company's Software & Control operating segment, overseeing product strategy, product management, and business operations. Since joining Rockwell in 1999, she has built broad global industry expertise with leadership roles in sales, channel and partner management, business unit leadership, and product development across hardware and software, working in the United States, Canada, and Singapore. Myers holds a Bachelor of Science degree in Industrial Engineering from Purdue University and an MBA from the University of Michigan.

Rockwell's Intelligent Devices segment includes drives, motion, safety, sensing, industrial components, and configured-to-order products that are the foundation of smart production systems providing automation, control, and information to power operational excellence.

Rockwell Automation Announces Strategic Agreement with Start-Up ZEVx to Accelerate the Adoption of Commercial Electric Vehicles

Rockwell Automation and [ZEVx, Inc.](#) (formerly Zero Electric Vehicles) announced a three-year strategic agreement to work together to use advanced technology to accelerate the adoption of Electric Vehicles (EVs). ZEVx, specializes in the electrification of small and

medium duty fleet vehicles, converting its customers' customized Internal Combustion Engines (ICE) to EVs in one day.

By leveraging Rockwell Automation's solutions, and a network of legacy automotive service partners, ZEVx will be able to assemble specialized kits for their customers' fleets to accelerate the pace of conversions.

To best capture the in-house expertise needed for its legacy automotive service partners to utilize the company's ICE to EV conversion kits in the most efficient manner, ZEVx has made the strategic decision to leverage [Vuforia Expert Capture](#), a FactoryTalk Innovation Suite solution powered by PTC. This technology will allow for the imperative distribution of knowledge to ZEVx's partners, ultimately increasing the overall rate of conversion from ICE to EV and accelerating the time to market. Additionally, utilizing Vuforia Expert Capture will help ZEVx to ensure consistency among its partners as they perform conversions for customers.

In addition, [Vuforia Chalk](#), an Augmented Reality (AR) remote assistance application, will help ZEVx collaborate in the ever-evolving EV environment. This innovative solution is a powerful collaboration and communication tool that provides real-time assistance to technicians facing complex or unfamiliar challenges. Vuforia Chalk delivers faster resolution without the time and expense of expert travel or repeat technician visits.

"The Electric Vehicle revolution is here, and Rockwell Automation is proud to offer innovative start-up companies like ZEVx the advanced technology needed to accelerate the manufacturing and distribution of their EV powertrain kits while maximizing safety and production efficiency," said John Kacsur, vice president, enterprise accounts, auto & tire, Rockwell Automation. "The Vuforia solutions provide companies, from start-ups to established automakers, the tools and technology needed to enhance information-driven operations, thereby ensuring faster production, decreasing downtime, and saving valuable resources."

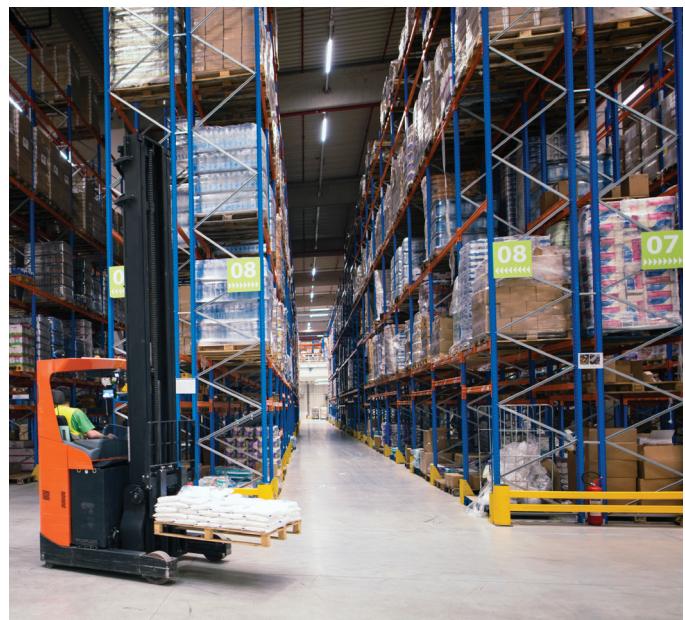
Charles Maury, founder and chief data officer, ZEVx, stated, "Working with the Rockwell Automation team has been incredibly beneficial to the ZEVx production team. Rockwell Automation understands ZEVx's vision to adopt advanced manufacturing techniques that will further optimize powertrain kit production and configurability. We look forward to our continued collaboration and learning from Rockwell while we rapidly expand global powertrain kit deliveries."

To learn more about Rockwell Automation's electric vehicle production solutions, click [here](#).

Rockwell Automation Announced as 2022 CIO 100 Awards Winner

●●● Foundry's CIO 100 award recognizes enterprise excellence and innovation in IT

Foundry's CIO has named Rockwell Automation as a 2022 CIO 100 award winner. For more than 30 years, the CIO 100 Awards have recognized innovative organizations around the world that exemplify the highest level of strategic and operational excellence in IT.



"This year's CIO 100 class demonstrates grit, innovation and deep teamwork. Many projects are related to streamlining data flows and insights to drive the business, bringing innovations like the metaverse to life, and driving value during the pandemic in myriad ways," said Anne McCrory, Group VP, Customer Experience & Operations, Foundry, formerly IDG Communications, Inc. "We are honored to showcase these achievements and the people behind them as we gather in person once again for a team-based experience at the CIO 100 Symposium & Awards in California in August."

"The CIO 100 Awards is a widely respected program, and for Rockwell Automation to be recognized for our enterprise-wide transformation efforts that: 1) delivers outcomes based on intelligent and connected products/services; 2) redefines the employee and customer experience; and 3) realigns our business operating model (processes and technologies) to support subscription-based offerings, is truly an honor," said Chris Nardecchia, senior vice president and Chief Digital & Information Officer.

"Transformation is never easy and requires engagement and change leadership from all functions in the organization. No one group, or individual, can deliver on a transformation agenda – it requires the entire executive leadership team and their organizations. Knowing how disruptive transformation can be, on top of the necessity of performing daily operations, it is one that we knew was necessary to excel as an enterprise. This award underscores how impactful our cross-functional approach and alignment to the company strategy is in advancing Rockwell Automation on behalf of our customers on their transformation journeys."

Rockwell Automation is the largest company in the world that is dedicated to industrial automation and information. Across the globe, the flagship Allen-Bradley® and FactoryTalk® product brands continue to receive recognition for excellence. Rockwell Automation works with organizations to optimize plant or operation performance with flexible service options or application-specific configurations of industrial automation technology. Executives from the winning companies will be recognized at the CIO 100 Symposium & Awards.

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A Rockwell Automation Event



Increase Productivity and Operational Resilience with Smart Safety

● ● ● In this “new normal” spurred by the pandemic, manufacturers and processors are easing into a new reality by running their operations remotely with employees working from home.

Digital transformation accelerated the ability for physical and organizational boundaries to be broken to engage a real-time workforce, connect teams, and drive collaboration. Companies are also under pressure to manage their supply chains to maintain their integrity and flexibility to respond to market demand shifts, also doing this from remote locations with the tools to monitor production with real-time visibility and control.

There are new methodologies and technologies required for this new normal, driven by the need to monitor and help protect against failures, deliver product fulfillment and high productivity, protect personnel, and do all this while leveraging enhanced safety and security architectures.

The digital transformation acceleration is driving the demand for smart safety solutions, which are now an essential component of a manufacturer’s and processor’s operational resilience strategy, and a key enabler of achieving the productivity required to thrive today.

The Convergence of Smart and Safety Increases Productivity

There is no question that the digital transformation journey requires end users and original equipment manufacturers (OEMs) to obtain much more production and machine information, which means that more industrial components need to have the ability to collect production operations or machine data, process that data into



meaningful information, and send that information to the edge, to a control system, to a cloud, or some combination of those options.

This has led to the development of smart solutions that have these built-in capabilities to help production lines and machines to be more productive and information-enabled to increase production efficiencies and decrease unscheduled downtime.

SAFETY CONTINUES TO INCREASE ITS IMPORTANCE FOR MANUFACTURERS AND PROCESSORS, ESPECIALLY WHEN THESE COMPANIES DISCOVER HOW SAFETY HELPS TO PROVIDE A COMPETITIVE ADVANTAGE RATHER THAN SOLELY AN INCREASE IN COSTS. BESIDE MINIMIZING RISKS, INCREASED SAFETY HELPS THESE COMPANIES TO IMPROVE PRODUCTIVITY AND PROFITABILITY BY REDUCING UNSCHEDULED DOWNTIME AND INCREASING OVERALL EQUIPMENT EFFICIENCY (OEE) AND RETURN ON ASSETS (ROA).

In addition to helping to protect workers from injuries or potential life-threatening situations, such as cutting power while clearing a jammed machine or entering a work cell, the time saved by not having to, for example, continuously use the E-stop buttons to resolve machine jamming situations greatly minimizes the frequency and duration of unscheduled downtimes, significantly increasing productivity, and providing a quick return on investment.

Integrating safety to leverage the full capabilities and benefits of smart devices, such as gathering and processing data in real time at or close to the point that the data is gathered, but still able to leverage all safety functionality, represents a convergence of the two technologies.

Just as many companies are seeing their operational technology (OT) and information technology (IT) functionalities converge, these devices used in processing and manufacturing applications are seeing their safety and smart devices converging for the benefit of persons who install, program, operate, and service the automation equipment as well as the manufacturing assets. So, this not only makes these assets safer to operate, but also provides valuable insight as to what is occurring, since the smart devices are designed to gather key data that can be analyzed and leveraged to make the overall production process safer, more efficient, productive, and profitable.

Operational Resilience Requires Smart Safety Solutions

One of the objectives of a company's digital transformation journey driven by the new normal is to ensure resilient operations to improve its capabilities to overcome business risks, such as increasing cybersecurity threats, new regulatory compliance mandates, and more strenuous plant and personnel safety requirements, all of which drives demand for smart safety solutions.



Even before the pandemic, manufacturers and processors faced numerous challenges, such as market and commodity uncertainty, rapid fluctuations in demand; and the need to become more agile, efficient, and sustainable, all while maintaining a safe and productive working environment. However, the pandemic magnified those challenges, leading manufacturers and processors to strongly focus on operational resilience as a key corporate objective during the digital transformation process.

To achieve operational resilience, companies must often break down physical and organizational boundaries to fully engage its workforce, connect teams, and enhance real-time collaboration in an environment where safety is designed into the process.

Operational resilience also requires supply chains to be managed in real time to maintain their integrity, agility, and flexibility, enabling the supply chains to respond to market demand and shifts in material availability.

Companies are deploying new methodologies to protect against unscheduled downtime and asset failures, ensure product fulfillment, protect personnel, and enhance security architectures, all of which require a broad portfolio of smart safety solutions.

Smart Safety Solutions Help to Overcome Operational Challenges

Smart safety solutions are also critical to help companies solve a variety of operational challenges. For example, smart safety solutions are designed to require employees to follow standard operating procedures, account for any procedural anomalies, and prevent anyone from bypassing these systems and putting themselves and others in possible danger. This is especially critical with a workforce that is both evolving and becoming more remote, with older workers leaving or nearing retirement, and younger workers more susceptible to injury due to inexperience. Worker injury is often caused by trying to repair machinery or process downtimes caused by, for example, jams, misfeeds, and product changeovers.

SMART SAFETY SOLUTIONS INCREASE THE VISIBILITY OF DOWNTIME INFORMATION, PROVIDING CONTEXT OF THE CAUSE OF DOWNTIME TO THE WORKERS, SUCH AS A MACHINERY FAULT, AND THEN OFFERING REMEDIES TO RESOLVE THESE ISSUES. ANOTHER AREA WHERE SMART SAFETY SOLUTIONS CAN PROVIDE HELP WITH OPERATIONAL CHALLENGES IS WITH DATA MANAGEMENT, ENSURING THAT DATA COLLECTION AND REPORTS ARE BASED ON THE LATEST DATA AND INFORMATION.

to obtain additional diagnostic data. However, an integrated smart safety solution can access critical diagnostic data with traditional wiring, thus saving time and costs, and helping to create a complete picture of the health and status of a machine or production line.

To address the market demand for smart safety solutions that increase both productivity and operational resilience in this new normal market that was driven by the pandemic, Rockwell Automation has been adding smart capabilities to its broad portfolio of safety solutions.

A selection of Rockwell Automation's smart safety solutions



These solutions are designed to simultaneously improve safety compliance and production performance by analyzing and diagnosing data, and then converting it into meaningful information that can be used to increase productivity and decrease unscheduled downtime while maintaining safety integrity and compliance, all as part of our Connected Enterprise strategy.

Smart Safety Designed for Both Onsite and Remote Workforces

The traditional value of safety solutions was to protect onsite workforces and increase productivity. But the workforce of tomorrow will be a combination of onsite and remote, and will

seek smart safety solutions that leverage the technology required for digital transformation.

This has led Rockwell Automation to design a number of remote monitoring and control capabilities into its smart safety solution portfolio. For example, to perform remote troubleshooting, smart safety device performance can be communicated over its EtherNet/IP network, which allows both standard and safety data to be captured on individual device operation and then visualized by workers from any location. Setup and monitoring of smart safety devices and access to device profiles can be performed from any location utilizing the Studio 5000®.

The EtherNet/IP network also enables predictive maintenance routines established from historical data to be sent from the historian to the smart safety devices, with the data collected from device operation, then being time stamped and sent back to the historian. It is also possible for remote workers to request safe access to smart safety devices over an EtherNet/IP network, such as indication of guard door position and guard lock status. Historical data access request can also be used for application adjustments. This is possible because of the safety over EtherNet/IP simplified network architecture, designed for standard and safety control managed over standard unmodified Ethernet.

Our smart safety devices provide data access into a specific asset or machine through individually identified access points, which allows data to be captured on individual device operations. Having smart and safety on one device helps to simplify wiring and system complexity. In addition, smart safety devices can also be used with existing safety devices on assets and machines to leverage the existing installed base and help prevent the need for rip-and-replace. Smart safety devices also allow predictive maintenance procedures to be adopted based on device usage or age.

CIP Safety Enhances Operational Resilience and Productivity

One of Rockwell Automation's smart safety device differentiators is the use of CIP Safety over its EtherNet/IP network. CIP Safety is an extension to the Common Industrial Protocol (CIP), the application-layer protocol for EtherNet/IP. This capability also provides workers, regardless of their onsite or remote location, with greater access to the critical data needed to create a more comprehensive picture of machine or production line status.

The combination of smart safety devices connected to a CIP Safety over EtherNet/IP network helps to create machines or production assets that can provide meaningful information, so workers from any location can better monitor machine health, decrease unscheduled downtime, improve flexibility, and enhance safety, while helping to lower total cost of ownership and increasing the company's operational resilience.

These devices connected to CIP Safety over EtherNet/IP network provide diagnostic information that can deliver more valuable insights, such as where safety-related failures are occurring or if workers are following standard operating procedures.

Processors and manufacturers can put these insights to work to help improve the productivity and sustainability of their production equipment. These capabilities can help to improve productivity, such as by notifying workers with an alarm if they are nearing a hazard to help prevent a machine from slowing down or stopping. In addition, the CIP Safety capability expands available diagnostic data to alert workers of common failures, such as the presence of dust on the scanner's lens.

Smart Safety Fully Integrated into The New Normal

Adding smart capabilities to safety enables manufacturers and processors to gain new efficiencies, improve product quality and make operations more responsive and safer for what is often a smaller number of onsite workers.

Smart safety solutions help to standardize process, machinery, and safety control, making systems less susceptible to unscheduled downtime and helping to improve productivity and profitability. **At**

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Liberty Primary Steel Secures the Reliability of Structural Steel Production



Control- and drive-system upgrades mitigate the risks of extended production outages, future-proofing structural steel production for construction projects

Challenge

- To mitigate the risk of extended production outages by upgrading the control and drive system of the straightener machine at Liberty Primary Steel Whyalla

Solutions

Control and Drive System

- Allen-Bradley® PowerFlex® 755 drives with Safe Torque Off delivered high performance and enhanced safety options
- Allen-Bradley GuardLogix® PAC provided control and safety over an Ethernet network

Global Solutions

- The Rockwell Automation Global Solutions team provided engineering design, equipment supply and commissioning services

Information Solutions

- FactoryTalk® View Machine Edition provided the operator interface, delivering ease of integration and improved diagnostics

Results

Improved Production Capacity

- Production capacity increased by 40%

Reduced Downtime

- Improved fault-finding on the straightener machine offers reduced operational risk and downtime

● ● ● Australia has one of the most dynamic steel industries in the world, producing approximately 5.3 million tons of steel annually of which about 1.6 million tons is structural steel.

Structural steel is one of the most commonly used materials in commercial and industrial construction due to its strength and sustainability.

The Liberty Primary Steel Whyalla Steelworks is located at Whyalla, South Australia, approximately 400 kilometers north-west of Adelaide. It is an integrated steelworks facility with a production capacity of approximately 1.2Mtpa of steel using a Blast Furnace Steelmaking process.

Approximately 65% of the steel produced is transferred by rail in billet form to domestic and international markets, and the remaining steel is converted into finished products in the form of structural steel and rails through the Whyalla Structural Mill.

With a strong commitment to securing steel supplies for the construction industry, Liberty Primary Steel Whyalla engaged Alliance Automation, a Rockwell Automation Recognized System Integrator, to upgrade a main section of plant machinery – the E&S Straightener.

No time for downtime

Commonly used in construction, straight steel beams form the foundation for commercial, industrial, and residential buildings. Therefore, supplying straight steel beams of varying sizes is a key priority for Liberty Primary Steel Whyalla.

At the heart of the steel straightening process is the E&S Straightener machine that was first installed in 1988 with the primary function of straightening steel beams. More recently, the straightening machine was experiencing reliability issues resulting in downtime and loss of productivity at the plant.

Alliance Automation designed a control- and drive-system upgrade to mitigate the risk of extended production outages at the Liberty Primary Steel Whyalla Steelworks due to issues with the obsolete automation system of the straightener machine. Rockwell Automation was also engaged to help with product selection and drive system engineering.

"The straightener is a critical piece of equipment at the Whyalla plant, with approximately 70% of products going through the machine for straightening," explained Barry Gardner, senior engineering project manager, Alliance Automation.

"The obsolete DC motors on the straightener machine were requiring significant maintenance every week to remove dust and scale resulting in production downtime. Given the significant costs involved in purchasing a new DC motor, a decision was made to move to an AC drive system, which offers improved reliability and reduced maintenance costs," he said.

New control and drive system

Motor and drive technology has advanced significantly over time, now offering more flexibility and higher performance than ever before. Rockwell Automation and Alliance Automation worked closely with Liberty Primary Steel to gain a detailed understanding of the straightener machine to identify the most appropriate solution for the upgrade.

The straightener machine contains four individually driven rolls and as the steel bar enters the machine it moves through the first roller and then moves through the remaining three rollers sequentially. Given the load sharing and safety requirements of the machine, the Allen-Bradley PowerFlex 755 drives with Safe Torque Off over Ethernet were selected as the most appropriate choice for this application.



"Drive control was critical to the success of the project so a significant amount of research was undertaken to select the most appropriate motor and drive sizes," explained Peter Tomazic, business development manager, Rockwell Automation.

Allen-Bradley GuardLogix programmable automation controller provided high level control for the straightener machine with POINT Guard I/O™ module used in combination with the PowerFlex 755 Integrated-Safety Safe Torque-Off card suitable for achieving safety integrity levels up to SIL3 (AS 62061) and an emergency-controlled stop (as per AS 60204) to allow a fast and safe stop of all moving equipment. A PanelView™ Plus 7 Graphic Terminal and FactoryTalk View Machine Edition provided the operator interface, delivering ease of integration and improved diagnostics.

**THE DRIVE SYSTEM
APPLICATION KNOWLEDGE,
TOGETHER WITH THE
SERVICE AND SUPPORT
PROVIDED BY THE GLOBAL
SOLUTIONS TEAM AT
ROCKWELL AUTOMATION
WAS A KEY CONTRIBUTOR
TO THE SUCCESS OF
THE PROJECT. IT WAS A
TRULY COLLABORATIVE
WORKING RELATIONSHIP
WITH SKILL SET SHARING
BETWEEN BOTH ALLIANCE
AUTOMATION AND
ROCKWELL AUTOMATION,"
SAID GARDNER.**

The new system was tested offsite to help ease the commissioning process. Pre-testing and careful planning helped to ensure the system was up and running ahead of schedule. The first beam went through the E&S machine very smoothly, thanks to the robustness and well-proven Rockwell Automation Drive Systems code for load sharing applications. Commissioning was a very quick process and involved one day for unloaded motor tests and one day with products. Production resumed on the third day under-monitoring by a Rockwell Automation engineer.

Securing structural steel supply

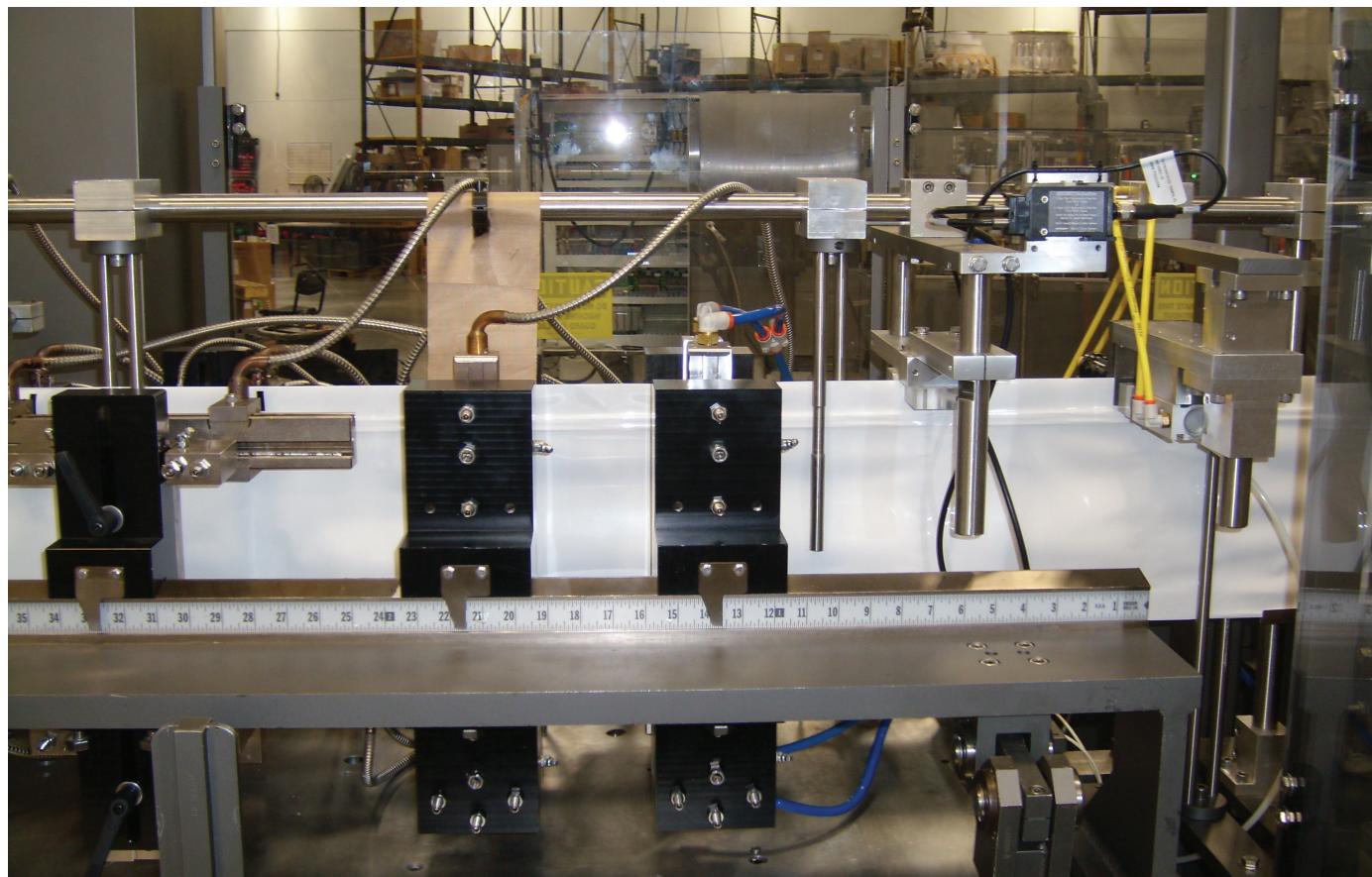
The collaboration between Liberty Primary Steel, Alliance Automation and Rockwell Automation has helped to significantly improve both the reliability and productivity of the straightener machine at the Whyalla plant.

"The collaboration with Rockwell Automation gave Liberty a lot of confidence that we had a workable solution right out of the box. This confidence was realized with the project progressing through integration and commissioning with minimal issues and a smooth transition to operation," said Andrew Harding, project manager, Liberty Primary Steel.

"Similarly, Alliance brought a significant level of expertise and plant knowledge to the table, by providing strong oversight during the installation and integration activities. The combination of the two entities working with the Liberty team delivered a successful project within an aggressive 'shutdown' schedule where the end date could not be exceeded," he said.

The new system has the ability to increase production capacity by 40% based on reliable higher speeds. In addition, the straightener machine's lifecycle has been optimized to offer greater machine performance and reduced operational risk, while improved fault finding has helped reduce downtime at the plant. **AK**

Smarter, More Efficient Flexible Pouch Packaging



The Pouchmaster from HMC Products features a simpler servo-driven seal driver to decrease maintenance and optimize uptime

Challenge

- Design a flexible pouch horizontal form-fill-seal machine that optimizes fills, decreases maintenance and speeds changeover

Solutions

- Allen-Bradley CompactLogix™ Programmable Automation Controller
- Allen-Bradley Kinetix® 5500 EtherNet/IP™ Servo Drive
- Allen-Bradley PowerFlex® 525 AC Drive

Results

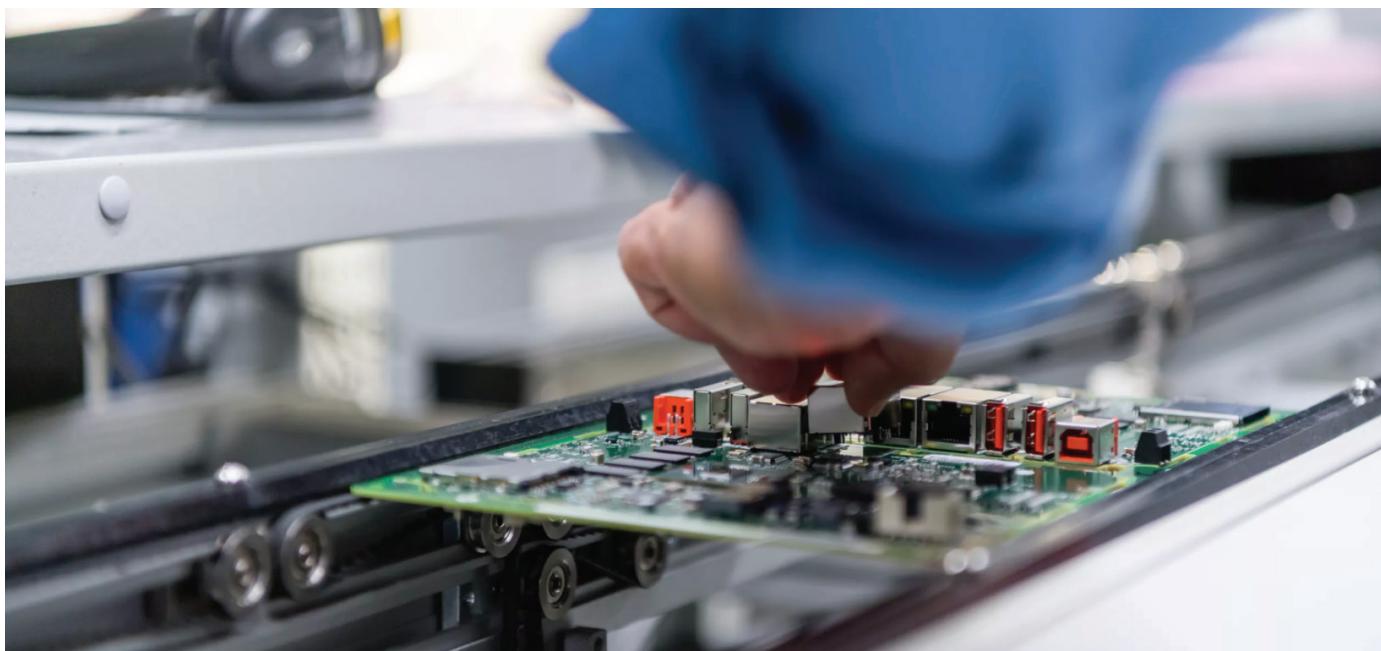
- Quick change servo seal driver simplifies maintenance, eases adjustments and enables better seals
- Smart control platform integrates a variety of sensors to quickly detect abnormalities and speed resolution
- EtherNet/IP connectivity enables remote service and support

● ● ● In the Consumer Packaged Goods industry, the battle for shelf space is costly and fierce. Supermarkets and other retailers demand multiple payments for product placement including slotting fees for new offerings and hefty outlays for premium space sold by the inch.

Once shelf space is secured, manufacturers are motivated to get the most from their investment. And that means selecting cost-effective packaging methods that preserve the product, attract interest and conserve space.

A Better Choice

"Flexible pouch packaging is preferred for a wide range of products," said Jeff Berg, product development manager, HMC Products. "The foil film laminates used for perishable items extend shelf life, and options like stand-up pouches display well and save space. Plus, pouch packaging is a lightweight and more economical option overall."



[HMC Products](#) has been meeting the needs of the market for over 40 years with its Pouchmaster line of horizontal form-fill-seal machines. Located in Machesney Park, Illinois, the United States, HMC serves a global customer base including Fortune 500 companies, co-packers and startups.

The IM 7-14 Pouchmaster is a highly efficient, intermittent motion machine featuring a quick change servo seal driver.

At the front end of the machine, film laminate is fed through a dancer bar, which controls film tension. Next, the film enters the forming plow and then proceeds through bottom and side seal bars located on top of the seal driver.

The film passes a registration photo eye that regulates the amount of film fed to a cutoff knife. The pouches are inserted in clips attached to a chain, and indexed through the filling stations. Finally, the pouches are sealed and offloaded via conveyor.

Optimize Pouch Fills

To achieve consistent seals, manufacturers must select pouch sizes that are large enough to accommodate quantities – and maintain sufficient headspace. The result is a pouch that is often underfilled.

Instead of heat, occasionally ultrasonic welding is used, which applies high-frequency acoustic vibrations and pressure to seal the top of the pouch. Stray product is fused as part of the seal – and does not affect seal quality. Therefore, pouches can be filled more fully.

Versatility in a Simpler Design

The flexible Pouchmaster can accommodate a full range of product feeders for solids, powders, and liquids.

"This machine is not dedicated to one pouch size or product," said Berg. "One customer runs seven pouch sizes on this machine – and another uses four different feeders."

The HMC Pouchmaster is built on a Rockwell Automation platform featuring an Allen-Bradley CompactLogix [controller](#). Allen-Bradley Kinetix 5500 [servo drives](#) run the main machine shaft and the pouch transfer chain. Allen-Bradley PowerFlex 525 [AC drives](#) control the conveyors. The machine is integrated on an EtherNet/IP network and monitored on Allen-Bradley PanelView Plus 7 [graphic terminals](#).

"In addition, we recently simplified the design of the machine's seal drivers by replacing cams and air cylinders with Kinetix servo control," Berg explained. "As a result, the system requires less maintenance."

Servo control also enables easy adjustment of the dwell time and opening and closing of the seal bars. The result is a better seal overall.

Smart Machine Performance

"THE ROCKWELL AUTOMATION SYSTEM MAKES THE MACHINE MUCH SMARTER – AND MUCH EASIER TO CHANGE OVER," SAID BERG. "TO CHANGE A POUCH SIZE, THE OPERATOR MOVES A FEW SEALER BARS AND SIMPLY MAKES THE APPROPRIATE SELECTION ON THE RECIPE-DRIVEN HMI."

Quick-change tooling expedites changeover for more significant product modifications.

"A smart machine can also tell you what's wrong, with advanced diagnostics displayed on the interface," Berg added.

To maximize uptime, HMC integrated a wide range of sensors into the control platform to quickly detect abnormalities – and incorporated visually intensive instructions in the HMI to guide maintenance. HMC also takes advantage of EtherNet/IP connectivity to service their customers' equipment remotely.

"Downtime is money," Berg said. "And all this technology is helping everyone – from plant managers to machine operators and maintenance personnel – keep equipment running optimally." 

Independent Cart Technology: The next generation of motion control

● ● ● **Independent cart technology solutions are the next step in motion control, eliminating the rotary driven chains, belts, and gears of the past**

Industrial robots are ubiquitous in automotive body shops and have enabled significant productivity gains over the past five decades.

But the truth is, robotic technology is only as efficient as the conveyance systems transferring the car chassis. And in many automotive plants today, inefficient transfer systems are the major obstacle to improving performance.

The Problem with Conventional Conveyance Technology

In fact, both throughput and flexibility are limited by conveyance technology common in automotive manufacturing.

First, existing chain conveyors, roller-beds – and even skillet conveyors – typically run at fixed speeds and often at fixed pitch.

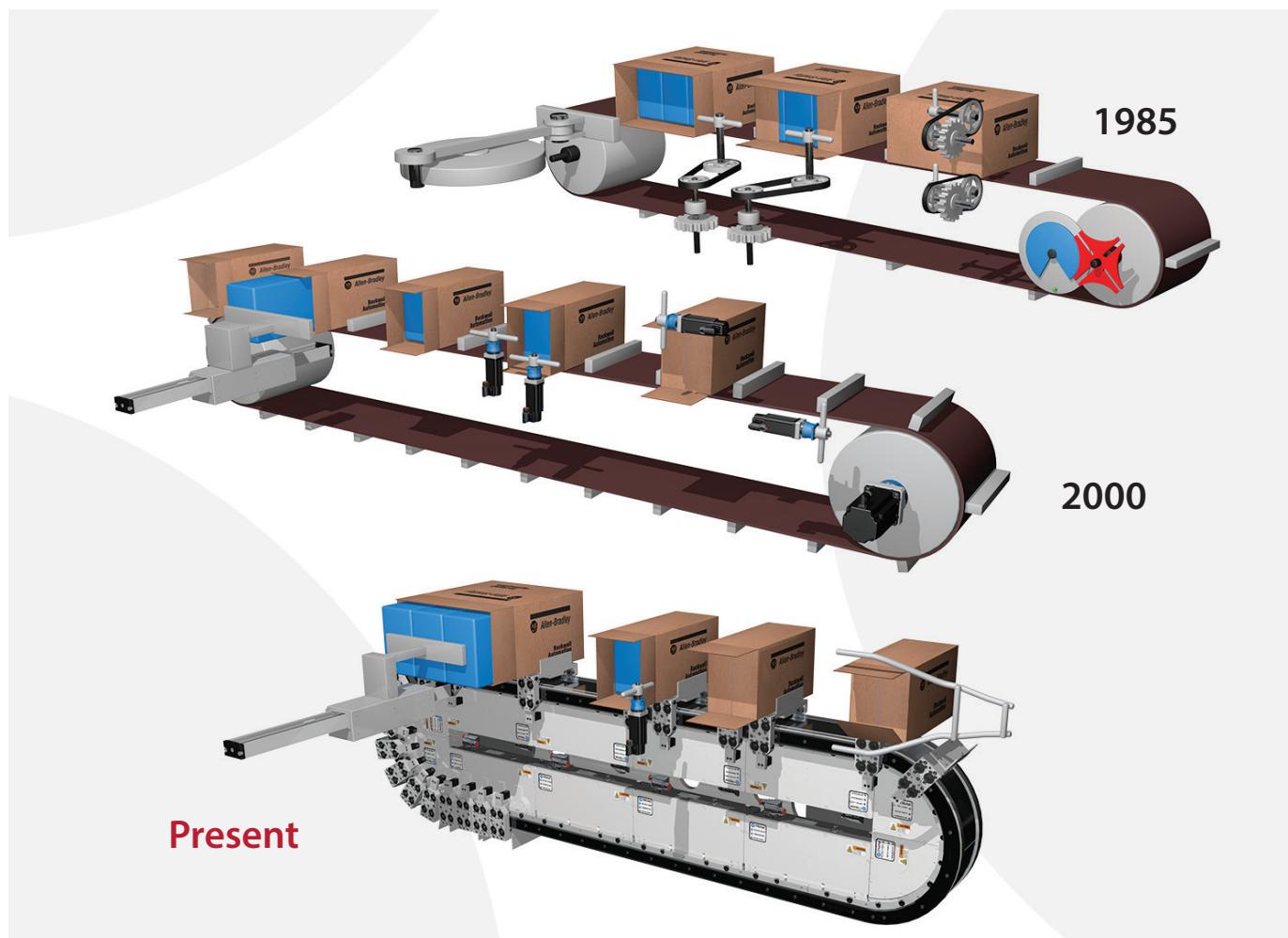
In an automotive assembly plant, this means the entire transfer system is continuously energized and running at the same speed.

The carriers cannot accelerate, decelerate, and precisely position a specific chassis based on the completion of a process step.

While some conventional systems allow for variation in "pitch" or distance between the movers, in many situations, that distance cannot be easily modified to accommodate multiple model types.

In addition, traditional conveyors are based on complex, mechanical designs comprised of chains, belts, rollers, and gears – and sometimes hundreds of wear components.

These large, complicated solutions are not only difficult to modify – but are also prone to maintenance and unscheduled downtime.



Perhaps most significantly, conventional friction-based transfer systems rely on rotary motor technology.

Rotary motors intrinsically add inertia in linear applications, introduce multiple mechanical components – and limit improvements in speed and acceleration.

How Can Automakers Improve the Performance of Assembly Conveyance Systems?

New advances in independent cart conveyance – based on linear motor technology – are enabling impressive performance gains.

How? Linear motor technology allows conveyor modules to be configured end-to-end, creating an electro-magnetic force to propel carriers much faster than traditional systems.

And because linear motors have no contacting or wear components, maintenance is minimal.

But linear motors are just part of the story. Intelligent motion control is critical to improved productivity, flexibility, and sustainability.

Take a look at the [PULSE carrier conveyance](#) system, introduced by Kuka Systems, an international supplier of automation systems for the automotive industry. Designed for automotive car body assembly lines, the conveyor utilizes linear synchronous motor technology from [MagneMotion®](#).

Using embedded position sensors and control software enables independent control over each carrier on the track. Accelerations, decelerations, velocities, and positions are programmable. Instead of moving at a fixed speed, vehicle body sections can quickly advance through robotic workstations as process steps are completed.



The result? A “pitchless” system that is more energy-efficient and 30% faster than conventional friction-based transfer systems. And since the speed boost allows for greater use of industrial robots and other process equipment, the overall system footprint is much smaller than traditional systems.

Also, the highly configurable system can be adapted to handle multiple model types – and can be expanded cost effectively, thanks to modularity.

Independent Cart System Benefits	
Higher Throughput	Fewer mechanical components and linkages. Higher accelerations (>10g) and speeds (>5m/s) combined with fully controlled motion profiles for higher throughput
Unlimited Flexibility	Each moving cart is controlled independently allowing for flexible mechanical pitch enabling the same machine to handle multiple package/format sizes at once and fully controlling product motion
Constant Package Tracking	Integral track and trace. Software controlled carts with precise knowledge of cart position eliminates need for external sensing and complex tracking solutions
Increased Uptime	Elimination of mechanical linkages and components allow minimal number of moving parts reducing overall downtime, maintenance and energy consumption
Smaller Footprint	Technology allows to combine all product formats in one machine type within a much smaller footprint

Discover how [independent cart technology](#) is transforming body shops and other automotive applications.



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Security as an Enabler

●●● The value of smart manufacturing begins with a secure and reliable infrastructure

To be competitive, you must be connected. That is why industrial companies around the world are undergoing a digital transformation and moving toward smart manufacturing. By creating a unified network architecture – one based on the use of standard Ethernet and Internet Protocol (IP) technology – that leverages both the information technology (IT) and operational technology (OT) that make up the Industrial Internet of Things (IIoT), companies can:

- Gain real-time visibility into operations
- Optimize production assets
- Predict downtime issues
- Improve collaboration and innovation

Building the Infrastructure

THE TRUE VALUE OF A SMART MANUFACTURING CAN ONLY BE REALIZED IF A SECURE AND RELIABLE INFORMATION INFRASTRUCTURE IS IN PLACE. HOWEVER, WITH GREATER CONNECTIVITY COMES GREATER EXPOSURE TO CYBER RISKS. WITH THE RIGHT FOCUS AND SUPPORT, ORGANIZATIONS CAN SIMULTANEOUSLY MANAGE RISKS, AND ADDRESS PERFORMANCE AND SECURITY NEEDS AS THEY BUILD AND MANAGE THEIR INFORMATION INFRASTRUCTURE.

A modern, secure, and reliable information infrastructure connects assets, people, and information. It is central to everything and is the source of endless opportunities for improving your operational performance.

A Journey Toward Connection

There are four stages to deploying this level of connection:

1. Assess and Plan:

A comprehensive assessment will establish to what extent your infrastructure can be upgraded, or if it needs replacing.

2. Secure and Upgrade:

Securely upgrade your network and controls to facilitate communications between plant floor and enterprise systems in line with your company's business drivers and risk tolerance.

3. Manage and Analyze:

Define and organize data, and turn it into actionable information that can be more easily viewed and securely shared for continuous operational improvements.

4. Optimize and Collaborate:

Optimize your operations and drive collaboration across your teams, suppliers, and customers.

The process of creating a secure information infrastructure that can deliver on your needs is woven into these four stages. Each company's transformation will have its own unique considerations.

Mapping Your Journey

Every path to smart manufacturing will be unique, based on production goals, connectivity and security needs, and the production infrastructure currently in place. But there are four key questions to ask as part of any plan:

1. What performance goals do I need to achieve?
2. How do I assess, design, and implement the secure infrastructure that I need to achieve my goals?
3. How will I protect and maintain my infrastructure?
4. How can my infrastructure help improve the performance of my devices and system in a way that will continue to deliver on my performance goals?

1. What Are My Performance Goals?

Your production goals will drive your information infrastructure strategy. These goals may require specific operational improvements, such as:

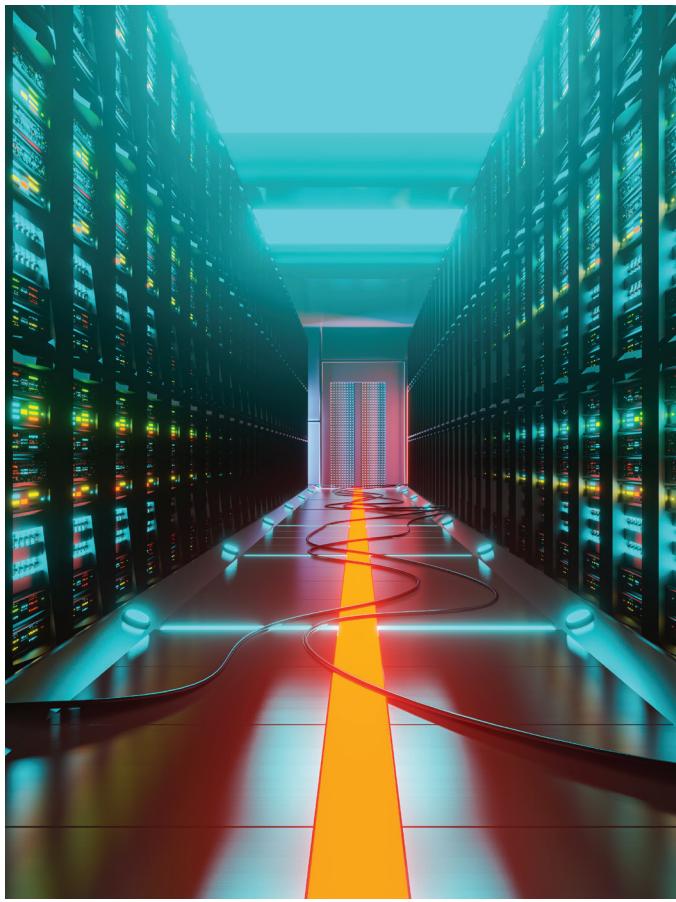
- Gaining real-time visibility into operations, including KPIs and asset performance
- Optimizing asset utilization and worker productivity
- Improving collaboration, whether it is between plants or with outside partners
- Reducing risks that are related to safety or the industrial skills gap

Your goals will drive your requirements. Some performance benefits producers can expect from an improved information infrastructure include multi-discipline application convergence and improved asset utilization

Whatever your goals are, they will rely on a robust and secure Converged Plantwide Ethernet (CPwE) network architecture and should be formalized into a plan with a defined scope, timeline, budget, and related security considerations.

2. How Do I Assess, Design and Implement the Right Infrastructure?

Once you have defined your goals, you must next determine your infrastructure needs in order to reach those goals and maximize ROI. This process has three key phases:



1. Assess

Infrastructure assessments help determine if your networks meet your needs and align with industry best practices. Risk and vulnerability assessments also help uncover security gaps and prioritize necessary updates so you can improve your security posture and reduce risk.

2. Design

Your information infrastructure should be designed to drive optimal network performance, mitigate security risks, increase data availability and use, and provide a foundation for future technologies.

Pre-engineered solutions can help drastically reduce design time and risk for some aspects of your infrastructure. Infrastructure-as-a-Service (IaaS) can be supplied as a complete and installed system, reducing your capital expenditures.

3. Implement

Your implementation must meet the needs of both your IT technologies and OT environment. It should also aim to simplify and accelerate your infrastructure's deployment.

- Training and certification can help make sure workers have the right expertise for implementing networked industrial control systems
- Vendors can provide documented processes and on-site guidance, or even a turnkey rollout of the updated system

3. How Will I Protect and Maintain My Infrastructure?

Enlisting a traditional IT company to support your information infrastructure can be risky, as IT vendors may not have enough expertise in industrial environments or plant-floor priorities to meet requirements for the quick response times that minimize downtime.

But enlisting the support and counsel of industrial vendors who understand the needs and demands of OT environments is a valuable means of supporting blended IT/OT applications.

Protection That's Right for You

Support is available based on your specific needs.

- **Cybersecurity Services:** As the number of industrial security threats continues to rise, you need to take a closer look at risks to your environments. A proactive approach to industrial cybersecurity spans the entire attack continuum: from identifying critical assets and protecting against potential threats before they happen, to detecting them if and when they occur, and to ultimately having a plan for response and recovery should a threat be realized.
- **Threat Detection and Response:** Beyond monitoring, additional security services can detect and alert operators of irregularities and potential threats in real time. Depending on the criticality, the team can react to the threat based on a response plan to help mitigate the risk that is associated with the anomaly.
- **Remote Support and Monitoring:** A vendor can monitor your infrastructure 24/7. If they detect an issue, they can either notify you and suggest a response, or remotely act to remedy the problem directly. Guaranteed response times can be built into the service to ensure actions are taken within a predefined time frame.

4. How Can My Infrastructure Help Improve Asset and System Performance?

Your goals may also require the implementation of new capabilities that are related to system or asset-performance management.

With a secure and robust information infrastructure, you now have the connectivity that is required to tap into strategies that can boost your bottom line. Large amounts of data lives within your production assets, but it needs to be transformed into useful information to drive performance improvements. Evolving services can help you do just this:

- **Asset reliability:** Services exist today that combine a mix of industry expertise and electrical automation controls knowledge with continuous improvement processes, reliability techniques, and asset intelligence systems to help drive plant productivity, improve asset reliability over your equipment lifecycle, and streamline maintenance activities.
- **Preventive Maintenance:** Service agreements can keep your critical assets running at peak efficiency. From identifying pending system failures to recommending which components should be repaired or replaced, these services can help mitigate the unnecessary repairs and associated costs that occur with most time-based preventive maintenance programs.
- **Remote Monitoring and Analytics:** Monitoring services can reduce Mean Time To Repair (MTTR) by 76% and reduce the cost of managing your infrastructure. Analytics services can help you predict machine failures, reduce Mean Time Between Failure (MTBF), and automate maintenance activities to reduce downtime by up to 30%.

Such services also have value beyond day-to-day process improvements and issue resolutions. You can use access to insights to optimize your larger operations and transform how you do business, reduce downtime recovery, or help integrate your supply chain. **At**

Rockwell Automation Offers New Online Capabilities, Improved Download Experience with Industrial Automation Software

- • • Studio 5000 Logix Designer® delivers feature additions, hardware support and productivity enhancements



The new **Studio 5000 Logix Designer version 34** release allows support for the latest hardware, while giving customers an improved download and online experience that enhances the export of project-simultaneous activity. Key enhancements include:

- **Portfolio alignment** with FactoryTalk Linx and CIP Security showcases the combined developments and applications in the latest version. Developments in the FactoryTalk Linx platform provide an opportunity to reduce unproductive time and improve system efficiency. CIP Security is now supported in standard and safety platforms, including ControlLogix® 5580 controllers, GuardLogix® 5580 controllers, CompactLogix™ 5380 controllers and Compact GuardLogix® 5380 controllers.
- **Productivity enhancements** like improved download performance are the biggest value to the Studio 5000 Logix Designer V34 experience. In coordination between Logix Designer application development and FactoryTalk Linx, users will notice that the reduction of download times is significant. These online enhancements are delivered by combined advances in Studio 5000 Logix Designer V34 and FactoryTalk Linx 6.30. Additionally, online import and export of project activity, including comments and documentation made by others without first going offline with the controller are now available.

V34 also adds **new data types configured as Time types**. Created Time data types reduce the manual formatting of integers or Add-On Instructions to represent time and allow rapid and repeatable formats for time in projects.

Rockwell Automation Nearly Doubles Input Voltage Capacity for Compact PowerFlex Drive

The newest medium voltage variable drive frequency from Rockwell Automation delivers industry-leading performance in about half the space

The latest enhancement to the **PowerFlex 6000T drive** now accepts up to 13.8 kV primary voltage, nearly twice the input voltage, in a footprint that is only 2310...3010 mm (7.58...9.87 feet) wide. The drive can be applied to 3...4.16 kV applications with high voltage input built in. Plus, high-voltage feeds can be directly connected to the drive from the main distribution line without additional step-down transformer or substation equipment, reducing costs.



The compact A-Frame design is ideal for new and retrofit industrial applications in IEC markets where industrial space is a premium – specifically for high-voltage primary installations.

The PowerFlex 6000T drive features **TotalFORCE® technology**. With real-time operational intelligence, this smart industrial control system:

- Monitors system performance
- Delivers faster commissioning with adaptive control
- Saves energy with economizer mode
- Reduces downtime and repair costs with predictive maintenance alerts
- Makes it easy to start up and troubleshoot all drives on the common control platform

PowerFlex 6000T drives are engineered for managing motor control for demanding applications in heavy industries – oil and gas refining; mining, mineral and metal processing; power generation plants; and water and wastewater treatment facilities.

For more information, visit your local Rockwell Automation sales representative or [download procurement specifications](#).

Rockwell Automation Releases New, Highly Customizable Industrial Monitors

- Extensive design options allow machine builders to tailor the ASEM™ 6300 monitors to meet diverse application needs

Rockwell Automation announced the release of a new line of industrial monitors that can help machine builders differentiate their machines and meet a wide range of application needs.

The new [Allen-Bradley ASEM 6300M industrial monitors](#), part of the product family formerly known as VersaView® 6300, offer several design options. These options give machine builders significant freedom to customize the monitors based on factors like cost, performance, and look and feel. Key design options include:

- Stainless-steel models**, including IP66K-rated and IP69K-rated options, can meet the needs of users that have washdown requirements.
- Other models** are also available to meet different needs, from economical aluminum options to edge-to-edge glass options for sleek, high-end displays.
- Single- and multi-touch displays** allow machine builders to match the monitors with their preferred software or to a user's operating requirements.
- Monitor sizes** range from 8.4 to 24 inches and are available in both standard and widescreen formats.
- A long-distance option** that will soon be available allows a monitor to be placed up to 100 meters from a PC for applications like extended production lines.

"The ASEM 6300 monitors can be customized for a wide range of applications, helping machine builders set their offerings apart from the competition in both performance and appearance," said Paramananda Choudhury, business manager of ControlLogix/interface panel business at Rockwell Automation, Asia Pacific.



"By combining high-resolution displays with an ultra-modern appearance, you create monitors that boost the performance of even the most high-performing smart machines."

All ASEM 6300M monitors have high-resolution displays to deliver critical production information in clear detail. The monitors can display up to four tiles of information on a single screen, giving operators not only insights like performance data and work instructions but also high-resolution videos and real-time camera feeds.

When paired with the Allen-Bradley ASEM 6300B industrial box PCs, the ASEM 6300M industrial monitors can help machine builders realize valuable time savings. The two products connect and integrate seamlessly, reducing the time that engineers need to spend configuring monitors to work with PCs.

The monitors also provide a standardized cutout for easier replacement. Whether a machine builder chooses a standard or widescreen monitor, they will be able to upgrade to future versions of that monitor without having to alter their machine design.

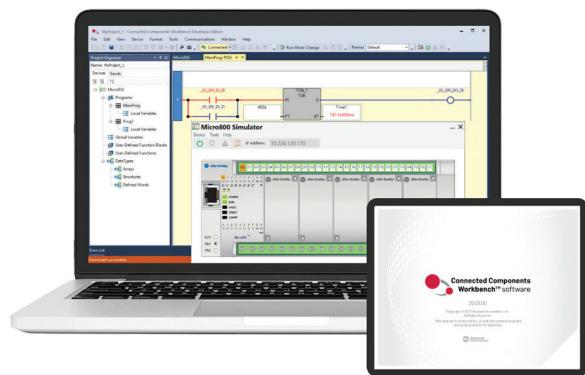
The ASEM 6300M industrial monitors leverage the expertise and technology of ASEM, a leading provider of digital automation technologies acquired by Rockwell Automation in 2020.

New Micro Controllers and Design Software from Rockwell Automation Optimize Smart Machine Design

Machine builders can design and program standalone machines more efficiently with the new **Allen-Bradley Micro850** and **Micro870** 2080-LxOE controllers using the [latest Connected Components Workbench software](#) release from Rockwell Automation.

These new controllers ease project implementation with the new DNP3 protocol, a set of open standard communication protocols used in SCADA and remote monitoring systems for precise data reporting. The controllers also have expanded DF1 support, two-way simultaneous and two-way alternate communications, to help improve CIP Serial communications through full- and half-duplex and radio modem modes.

These connectivity capabilities address more application requirements, specifically in the water/wastewater industry. In addition, the extended protocol support minimizes conversion risk for MicroLogix to Micro800 control system modernization. Users can boost productivity with the improved controller execution and

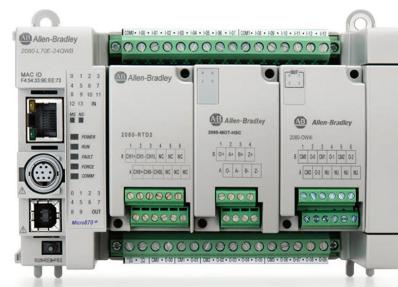


I/O response performance, which speed up the design process for faster project development.

The new and improved capabilities in Connected Components Workbench software version 20.01 help advance design efficiency. The software simplifies the development of standalone machines that are built with the Rockwell Automation [Micro Control System](#). Users can save development time through faster data transfer rates with upload and download performance improvement by 23% and 40% respectively.

The latest software release helps to ease configuration and address more water/wastewater application requirements with the expanded DNP3 and DF1 support, including half-duplex and radio modem modes. It can also improve system security through a new password set/verify and user project encryption/decryption in the plug-in memory module.

Connected Components Workbench software version 20.01 is the required minimum for Micro850 and Micro870 2080-Lx0E controllers. Users can benefit from a more secure programming environment with enhanced encryption between the software and the new controllers, and increased protocol authentication with Secure Authentication version 5 (Sav5) in DNP3 communication.



Rockwell Automation Enhances Performance and Application Flexibility with Series Change to its 855H Industrial Electronic Horns and Combination Units

Rockwell Automation has initiated a series change for selected frame sizes of **Allen-Bradley 855H industrial electronic horns and combination units** (horns with attached beacon) to offer a higher degree of performance and to address a broader range of audible and visual applications on your plant floor.

This series change also will affect the 855H recordable horn combination units as well as our metal horn combination units. Shipping of the new product series started in April 2022 for the recordable and metal horn combination units, with updated high-performance horns anticipated to ship in June 2022.

In most cases, the new Frame B, C and E 855H industrial electronic horns are drop-in replacements for the previous products, however, the new series offers several advantages over the current series:

- 64 Tone table with 4 stages selectable via external wiring to annunciate a greater number of machine- or equipment-critical conditions.
- Extended operating voltage range: 10-60V DC units and 24-260V or 100-240V AC versions
- Negative and positive switching for horn stage control
- DIP-switch selectable pre-determined tones for stages 1, 2 and 3 as well as independent selection of stage 2 tone

- Multiple lens options for quick and easy change of beacon color in the field
- Vertically-mounted Xenon strobe beacons (Frame C and E combination units) for increased visibility

The new 855H recordable horn and metal horn combination units will also be offered with a multifunction LED beacon capable of operating in eight different modes (steady, blinking, and six different flashing patterns) easily selected by the user via DIP switch.

It's important to note that this series change only impacts combination units; the standalone recordable and the metal horns will maintain their current series number and performance specifications.

Like their counterparts in current series, the new series of 855H horns and combination units employ reliable solid-state technology rated for continuous use, offer volume adjustment, feature multi-tone and multistage capabilities and are available in 24V, 120 or 230V AC, making them ideal for use in a broad range of signaling applications. Plus, the updated products maintain the same dimensions and ingress protection ratings, making them a drop-in replacement suitable for indoor or outdoor use.

Below is a summary of the applicable series change per each product family:

- 855H Horns Frame B, C, E will transition from series A to series B
- 855H Combination units (Horn with attached beacon) Frames B, C, E will transition from series C to series D
- 855H-RC Recordable Combination units (Horn with attached beacon) Frames C and E will transition from series A to series B
- 855HM Metal Combination units (Horn with attached beacon) will transition from Series A to Series B

Rockwell Automation Medium Voltage Drive Enclosures Now Available for Rugged and Remote Outdoor Installations

PowerFlex 6000 medium voltage variable frequency drives (VFDs) packaged in Type 3R or IP54 enclosures are specifically designed and built for outdoor or remote installations to eliminate the need for a control room.

The [PowerFlex 6000 drive technology](#) is suited for all-purpose, non-regenerative applications such as fans, pumps, compressors, mills and flat-land conveyors. They manage motor control applications from 150...11,000 kW (200...14,600 Hp), voltage rated 2.3...11 kV. The custom enclosures are ideal for remote oil, gas, mining or mineral processing operations, and where facility space is a premium.

New Mounting System from Rockwell Automation Reduces Wiring, Saves Costs

Keep your panels clean, organized, and compact with the **CrossBoard System**. The CrossBoard platform provides flexibility in motor control and protection devices. The out-of-the-box system is provided as one complete base unit, a bus structure with IP20 touch-safe plastic housing, which can be directly assembled and fitted with components after unpacking. Components simply snap onto the CrossBoard without tools, meaning the connection is automatic.

Components can be easily removed and snapped back on to another section of the CrossBoard. For safety reasons, the lock mechanism must be released with a screwdriver. This prevents

accidental removal of any components. The fast, easy and safe exchange of modules allows the timesaving and economical adaptation of the system to extensions and updates.

Available in two widths of 225 mm and 405 mm, the base units can be combined by adding a supply module to bridge the base units. Components can be fitted to the CrossBoard, and to conventional busbar systems using adapters. As a universal system, CrossBoard can be used with components from other manufacturers.

The CrossBoard with its all-around finger-safe protection offers a high degree of safety. Completely covered and protected against contact at all times, the busbars are never exposed during the removal of a unit, ensuring full operator safety. Empty space on the busbar is already covered and protected, so no extra precautions are needed when spacing components or not filling the entire rack with products.

Rockwell Automation Provides Lowered-Cost HMI Software with New Features

● ● ● *FactoryTalk View Site Edition (SE) HMI V13 software delivers new features along with simplified licensing and a lower-cost pricing model*

V13 introduces more options for what data is displayed and how it is presented to operators. Collected data can now be displayed in a tabular format with Data Grid object, and two sets of production data against one another with a new XY plot.

This release also improves system extensibility through .NET object support, server-side scripting, and client-specific tags that allow functionality specific to each client/user session in a distributed system.

Special features:

- Type 3R or IP54-rated enclosures protect against rain, sleet, snow, ice and dirt
- Enclosure supports a range of ambient temperature ratings: -40...50°C (-40...122°F)
- Choice of open loop, forced-air cooling or closed loop air-to-air heat exchanger solutions to suit the application
- A PLC-controlled automatic enclosure ventilation system optimizes the cooling system operation to help reduce operating costs
- The easy-to-install package does not require special foundations, roofing or shielding
- Simple to commission. Three cables in, three cables out

For more information, visit your local Rockwell Automation sales representative or [download product details](#).

New tools for application maintenance add value by providing better interaction with devices and servers in a system. The new System Status Portal provides a web-based overview of all FactoryTalk application servers and their status. This release provides deeper interaction with Logix controllers with a new capability to drive HMI animation for Automatic Diagnostics, and new mobile access to Automatic Diagnostics messages through FactoryTalk® ViewPoint web clients.

The latest version also makes it easier to select and purchase a [FactoryTalk View SE](#) system. All servers now include an unlimited display count, a choice of 5, 10, or 25 clients, and an integrated HMI web solution with unlimited FactoryTalk ViewPoint web clients. Station licenses also include an unlimited display count and unlimited FactoryTalk ViewPoint web clients, with a Station Lite option available for applications with a smaller display count requirement.

New PanelView Plus 7 Performance Series B Protects Customer Investments



The PanelView Plus 7 Performance graphic terminal has been significantly improved with the launch of Series B. The preceding Series A graphic terminal ran on Windows® CE 6.0 operating system, which is no longer fully supported by Microsoft. Also, the components used in the Series A product are aging and have a shrinking supply chain. The [PanelView Plus 7 Performance Series B](#) was developed to help protect our customers who have invested in PanelView Plus hardware and FactoryTalk View Machine Edition software by extending the life of our offering.

The Series B has been updated to run on a modern operating system and has updated hardware with improved long-term supply chain support. It has enhanced product security and support for modern peripherals, such as printers. With significantly increased user storage, the Series B can better support today's needs. The Series B product uses ControlFLASH™ software for firmware updates, which align with other Allen-Bradley products. We have also improved our customers' ability to resolve any potential corruption issues with the addition of a hardware maintenance menu button.

The PanelView Plus 7 Performance Series B is the latest update to the PanelView Plus 7 Performance product line. Rockwell Automation strives to help support our customers' investments by continuing to improve the PanelView Plus 7 product family.

Rockwell Automation Provides Cost and Space Savings with New Bus Supply Solution

Industrial companies can now benefit from increased space savings and lower costs with a new non-regenerative bus supply. The bus supply is part of the [Allen-Bradley PowerFlex 755TM portfolio](#). It is a cost-effective solution for a common bus, when regenerative and low harmonics are not required.

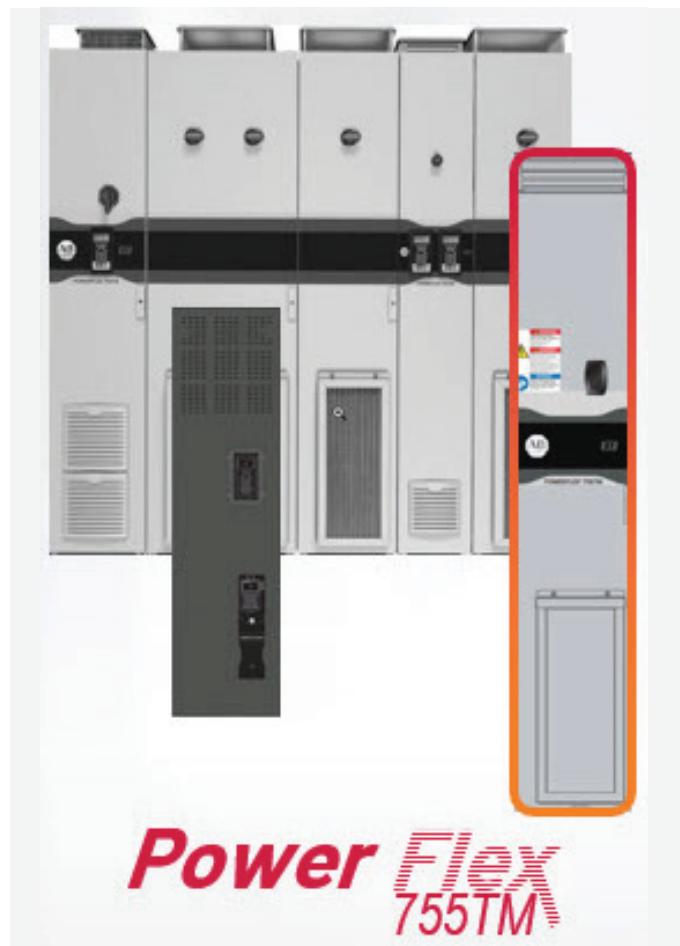
If users have multiple motors, a common bus solution can reduce the size and cost. And customers can save additional cost by using a non-regenerative supply.

The non-regenerative bus supply converts three-phase AC line voltage to DC. It is compatible with PowerFlex 755TM bus supplies and common bus Inverters.

Part of the 755T drives portfolio, the non-regenerative supply solutions must be paired with a drive with TotalFORCE technology to be considered TotalFORCE. But it can also serve as a non-regenerative DC power supply for common bus applications, which is not TotalFORCE.

The non-regenerative supply is available in 6-Pulse and 12-pulse configurations with XT corrosive gas protection. The distributed DC Bus is located in space saving, modular Rittal cabinets.

This solution works best in industries such as oil and gas, tire & rubber, mining, food and beverage and metals.





Rockwell Automation



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