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Automation India

Magazine

India's Automation Magazine

Automation product spotlight

Anacon

Cybernetik.

Apacer[®]

rexroth
A Bosch Company

SYNCAxis
ENGINEERING & INTEGRATION

TOYO

Kaoca
Kaoca Skymech Pte. Ltd.

FIBOX
Enclosing innovations

HashStudioz
Technologies

Inven^{dis}
Invent, Discover.

BHOOMI[®]

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FT. Solutions Pvt. Ltd.
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AXIS

EATON
Powering Business Worldwide

VEGA HOME OF VALUES

KEBA

computar

TWARA
ROBOTICS

21 Reputable Solutions

Welcome To PARA Tech Expo 2026

Factory Automation and Robotics in manufacturing is translated with emphasis on Intelligent Manufacturing and Smart Production. The concept of Intelligent or Advanced Manufacturing, Smart Production or Industrial Automation is the key to establishing a strong and smart country. In the era of Artificial Intelligence 'efficiency' is the basic underline. India is on the precipice of creating the worlds best technologies. With one goal. Viksit Bharat - better than the best. PARA Tech Expo is on a mission.

- **Industrial Automation**
- **Factory Automation**
- **Intelligent Manufacturing**
- **Smart Manufacturing**
- **Smart Production**
- **Robotics**

Mantra 1: Industrial automation leads to excellence.

Mantra 2: March of automation in manufacturing.

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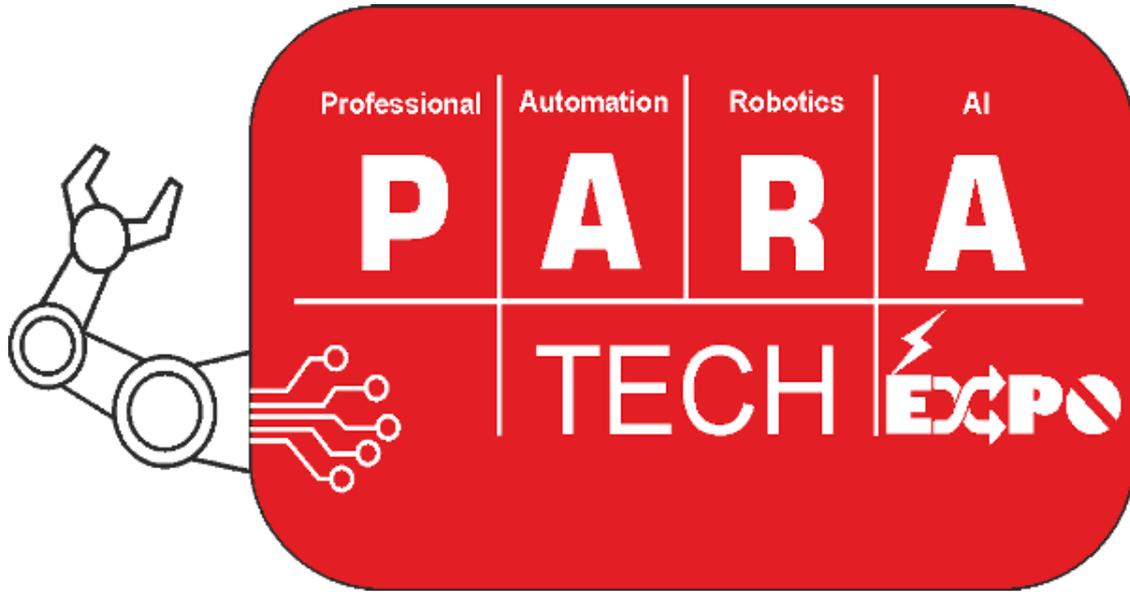
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This issue's Product Spotlight section showcases a diverse range of industrial automation solutions from leading technology providers including Anacon, Apacer, Cybernetik, Bosch Rexroth, Syncaxis, Toyo Robotics, Twaro Robotics, ReeR Safety, Fuji Electric, VEGA, Fibox, Computar, Bhoomi Technologies, MR Technology, Invendis, Eaton, KEBA, Axis Solutions, HashStudioz, and F.T. Solutions.

Spanning robotics, motion control, safety systems, machine vision, IIoT controllers, enclosures, process instrumentation, and specialized industrial applications, these products address real-world manufacturing and infrastructure challenges.

Each spotlight emphasizes engineering depth, reliability, and seamless integration within modern automation architectures.

The featured solutions demonstrate how individual components evolve into complete, synchronized systems that enhance productivity, safety, and operational efficiency.

Together, they present a practical view of automation technologies shaping smart manufacturing across factories, process industries, logistics, and critical environments.

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The ANACON SFTX 7500 is a UV/IR flame detector designed for reliable fire detection by combining ultraviolet (UV) and infrared (IR) sensors, using signal processing algorithms and flicker analysis to differentiate flames from false alarms (like sunlight or hot objects) for combustible hydrocarbon fires, offering features like relay outputs and Zone 1 area classification.



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In an age where automation is no longer optional but essential, not all robots need six or seven joints to be effective. Sometimes the most elegant solution for repetitive tasks lies in simplicity — straight linear motion delivered with high precision.



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In an era defined by environmental compliance, digital monitoring, and operational transparency, the importance of comprehensive water quality data cannot be overstated.



Eaton Ocean Technical Systems — Automation at Sea and Beyond 12

In industrial automation, the domain most people immediately think of is the factory floor. But automation has equally critical roles in harsh offshore environments, where machinery, platforms and vessels operate far from easy access and under relentless stress.



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Imprint Automation India Magazine brings you up to speed with the explosion of information in media on break through innovation, latest technology, and super progress in PARA Tech- Professional Automation Robotics and Artificial Intelligence you missed most of the blasts. We provide you the forgotten links again.

ANACON SFTX 7500 FLAME DETECTORS



The ANACON SFTX 7500 is a UV/IR flame detector designed for reliable fire detection by combining ultraviolet (UV) and infrared (IR) sensors, using signal processing algorithms and flicker analysis to differentiate flames from false alarms (like sunlight or hot objects) for combustible hydrocarbon fires, offering features like relay outputs and Zone 1 area classification. It's a robust device, often used with air purging for dusty environments, providing comprehensive safety for industrial applications by detecting fire quickly.

Key Features & Specifications:

- **Sensor Technology:** Dual UV and IR sensors with optical filters, focusing on the CO2 emission spectrum (4.4 μm) for high sensitivity to hydrocarbon fires.
 - **False Alarm Immunity:** Built-in logic and flicker frequency analysis to reject signals from sunlight, lamps, and hot surfaces.
 - **Performance:** High sensitivity, fast response time (under 5 seconds), and a 120-degree diagonal field of vision.
- **Outputs:** Typically includes relay outputs for fire and fault signals, with optional MODBUS communication.
 - **Applications:** Ideal for hazardous areas like turbine halls, aircraft hangars, engine test bays, and production lines.



www.anaconprocess.com

APACER AS725 MAGNETIC PORTABLE SSD



The AS725's magnetic attachment design allows it to sit securely against compatible smartphones, making it particularly suited for on-the-go content creation. For users recording high-resolution video, this translates to uninterrupted capture and immediate access to external storage—no dangling cables, no clutter.

Powered by USB 3.2 Gen 2, the drive delivers transfer speeds of up to 1,000 MB/s, ensuring smooth handling of large files and rapid backups across devices.

Small Form. Serious Performance.

At just 52 grams and barely over a centimeter thick, the AS725 slips easily into a pocket or bag. Its minimalist, circular matte-black design reflects Apacer's understated approach to

professional hardware—functional, refined, and built to last.

Inside, 3D NAND flash memory ensures consistent performance and reliability, while MIL-STD-810G drop-test certification provides reassurance for daily travel and field use.



www.apacer.com

CYBERNETIK'S ROBOTIC CASE ERECTOR

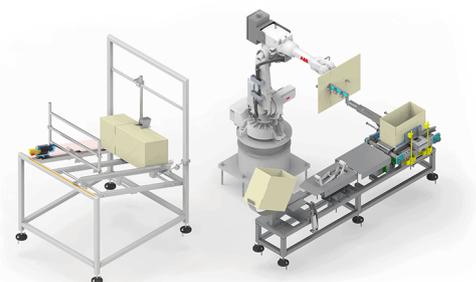
At its core, the Cybernetik Robotic Case Erector automates the transformation of flat carton blanks into precisely formed cases, ready for downstream packing. The robotic approach ensures uniformity in case geometry—an often-overlooked factor that directly impacts case packing accuracy, pallet stability, and overall line efficiency.

Designed for continuous industrial duty, the system delivers stable operation even in demanding production environments such as food & beverage, pharmaceuticals, FMCG, and consumer goods manufacturing.

Flexibility That Matches Modern Production

One of the system's defining strengths is its format flexibility. Unlike traditional mechanical erectors that require time-consuming changeovers, Cybernetik's robotic solution supports faster adjustments for different carton sizes and formats—an advantage for manufacturers handling multiple SKUs or frequent product changes.

The robotic architecture also allows easier integration with upstream and downstream equipment, including case packers, sealers, conveyors, and palletizers, making it suitable for both greenfield installations and line retrofits.



PARA Tech Product Spotlight

Key Highlights

- Robotic precision for consistent and accurate case erection
- Reduced manual handling, improving safety and labour efficiency
- High repeatability, supporting downstream automation reliability
- Adaptable design for multiple carton sizes and production speeds
- Engineered for integration within complete packaging lines.

Operational Impact

From an operational standpoint, the benefits are tangible. Reduced carton misfeeds and malformed cases translate into fewer stoppages and less product loss. Labour previously assigned to manual or semi-automatic erection can be redeployed to higher-value tasks. Over time, these gains contribute directly to improved OEE and lower total cost of ownership.

Cybernetik's strength lies not just in the machine itself, but in its understanding of full-line automation—ensuring that the case erector functions as a dependable component within a larger, synchronised system.



www.cybernetik.com

BOSCH REXROTH AND SYNCAXIS: CONVEYOR SYSTEMS THAT CARRY INDUSTRY FORWARD



In the evolving landscape of industrial automation, conveyors are no longer background players—they are the lifelines of modern manufacturing and logistics operations. Their role in streamlining workflow, ensuring product integrity, and reducing hands-on labour has never been more pronounced. Within this context, the collaboration between Bosch Rexroth and Syncaxis represents a compelling blend of global engineering excellence and local application expertise.

Bosch Rexroth, a global engineering powerhouse, has long been recognised for its modular and intelligent conveyor solutions that speak directly to the demands of contemporary factory floors. Its VarioFlow conveyor systems, including the latest belt and chain conveyor variants, demonstrate a meticulous approach to modularity, flexibility, and precision. Designed for smooth, adaptive transport of goods across production environments, these conveyors handle a broad spectrum of product types—from delicate sealed-edge bags to larger packages—without compromising throughput or reliability. The modular architecture supports quick reconfiguration and expansion, an asset in industries where product formats and production volumes evolve rapidly.

What distinguishes Rexroth's conveyor systems is not merely their robustness, but their

integration within a broader ecosystem of automation technologies. These systems work in concert with Rexroth's motion control platforms, linear-motion components, and software tools such as MTpro, enabling engineers to design, simulate, and implement solutions with remarkable accuracy and efficiency. This degree of integration reduces engineering time and enhances uptime—two outcomes highly prized in lean manufacturing environments.

Syncaxis, a Pune-based engineering and integration firm, plays a pivotal role in translating these global technologies into tailored solutions for the Indian industrial market. As an authorised partner and distributor of Bosch Rexroth products, Syncaxis supplies and supports Rexroth conveyors, assembly technology components, and conveyor parts, while also offering its own range of modular conveyors and handling equipment suited to local production lines. Where Syncaxis excels is in application-level engineering—adapting Rexroth's modular systems into practical installations that meet specific customer requirements. The company provides everything from belt and chain conveyor modules to custom handling stations,



www.syncaxis.in

rexroth
A Bosch Company

top-chain and roller conveyors, and lift units, supporting industries such as automotive, consumer electronics, FMCG, and beyond. Its services include layout and time studies, control architecture design, and end-to-end integration, reinforcing the view that conveyors are not just mechanical devices but integral elements of intelligent automated systems.

Today's industrial conveyors must be flexible, reliable, and interoperable across production stages.

The combination of Bosch Rexroth's engineering depth with Syncaxis's local insight and system integration capabilities offers manufacturers a compelling recipe for productivity gains. In an era where agility and uptime are decisive competitive advantages, these conveyor solutions are not just moving products—they are moving industry forward.

TOYO ROBOTICS CARTESIAN DESKTOP ROBOT

Precision Meets Flexibility on the Factory Floor

In an age where automation is no longer optional but essential, not all robots need six or seven joints to be effective. Sometimes the most elegant solution for repetitive tasks lies in simplicity — straight linear motion delivered with high precision. This is exactly where the Toyo Robotics Cartesian Desktop Robot (JTH Series) steps into the spotlight, offering a no-nonsense approach to three-axis motion for a broad range of industrial needs.



Engineering Built on Cartesian Logic

At its core, the Toyo Cartesian Desktop Robot adheres to a time-tested design philosophy: motion along the X, Y, and Z axes. Each axis is independently driven, with movements governed in straight lines rather than through complex rotary kinematics. This translates to predictable trajectories and repeatable accuracy — a critical advantage in tasks such as pick-and-place operations, PCB handling, automated soldering, precision cutting, and other linear motion duties that define modern manufacturing workflows.

The system's ball screw-driven mechanics elevate its positioning precision while minimising common pitfalls like motor step loss — a testament to engineering that does not compromise on performance even at smaller scales. A robust TSC400 controller manages motion and programming, offering both point-to-point and continuous path control with intuitive interfaces for recipe selection and manual override.

Modular Performance Across Industries

The JTH Series encompasses a range of models tailored to different workspaces and workloads: from compact work areas for light assembly or laboratory automation to larger footprints capable of handling higher payloads. Across the board, typical repeatability figures of ± 0.01 mm reflect a level of control expected in high-precision environments. A notable variant, the JTHS series, pushes these capabilities further with AC servo drive systems, yielding speeds up to 1000 mm/s and repeatability tightening to ± 0.005 mm — a performance bracket approaching industrial gantry systems.

Why This Matters

For manufacturers and system integrators, the Toyo Cartesian Desktop Robot represents the intersection of affordable precision and easy integration. Its straightforward mechanical design reduces the engineering overhead typically associated with more complex robotic arms, while the familiar Cartesian geometry simplifies programming and maintenance.

In short: this machine is not flashy, but it is functional, dependable, and exquisitely suited to repetitive tasks where consistency makes the difference between output and excellence.



www.toyorobotics.com

KOWA– COCA–COLA SINGAPORE & A*STAR: A BLUEPRINT FOR NEXT-GEN FACTORY AUTOMATION

When one of the world's most recognisable consumer brands turns to robotics to reinvent its production line, the message to industry is clear: advanced automation is no longer future talk—it's fundamental to competitiveness. The recent collaboration between Coca-Cola Singapore and the Agency for Science, Technology and Research (A*STAR) represents exactly this shift, marrying industrial scale with cutting-edge robotics to redefine precision, productivity, and workforce value in manufacturing.



At the heart of this initiative is a customised collaborative robotics (“cobot”) solution deployed in Coca-Cola's Singapore plant to automate the packing of powdered ingredient bags. Developed in partnership with the A*STAR Advanced Remanufacturing and Technology Centre (ARTC) and local systems integrator Kowa Skymech Pte Ltd, the solution exemplifies the benefits of public-private R&D partnerships in real industrial settings.

In an operation traditionally dependent on manual effort, the new cobot system now performs repetitive pick-and-place and packing tasks with consistent accuracy and significantly reduced labour effort. But its value goes beyond

throughput: by elevating routine work to automation, Coca-Cola is enabling its technicians to focus on higher value-added roles—from oversight and quality optimisation to system maintenance and process improvement. Two technological elements distinguish this deployment. First, an advanced smart vision detection system—crafted by A*STAR engineers—allows the robots to identify and handle transparent or feature-poor powder bags with precision, a capability most conventional vision units struggle to achieve.

PARA Tech Product Spotlight

Second, an expandable end-of-arm tool adjusts grip size dynamically, eliminating costly manual changeovers and enabling seamless handling of multiple bag formats without downtime. This strategic cobot integration also fits within Coca-Cola's broader digital transformation roadmap. The company continues to pursue AI-based robotics, data analytics, IoT-enabled process monitoring, and other digital technologies to enhance operational robustness and supply chain agility throughout its Singapore footprint.

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Kowa Skymech Pte. Ltd.

www.kowa-skymech.com

INVENDIS ISMART IOT CONTROLLER

Small, Smart & Purpose-Built Remote Automation

In the sprawling world of industrial IoT and remote asset management, not every device needs to be a supercomputer. Sometimes, what a site or system really needs is smart simplicity: low-cost, reliable, and tailored to do one job well. Enter Invendis iSmart — a compact IIoT controller engineered to deliver essential remote monitoring and communication with efficiency and economy.

Part of the broader suite of Invendis IoT devices, iSmart sits alongside its larger siblings such as iSense and iRoute, but carves its niche in deployments where space, cost and simplicity matter most.

What It Is

At its core, the iSmart unit is a compact remote monitoring controller based on the same foundational design principles as Invendis's more capable devices — but optimised for

minimal hardware footprint and essential connectivity. It's designed to acquire data from remote assets and transmit it to central systems for further analysis, reporting and decision-making.

Physically small and streamlined by design, the unit is often deployed where traditional gateways may be more than what's needed, such as basic M2M (machine-to-machine) rollouts, remote sensors, or smaller infrastructure sites.

Core Capabilities

Despite its compact stature, iSmart packs all the essentials for remote automation:

Integrated GSM/GPRS communication with a single SIM, enabling broad connectivity across telecom networks for data uplink.

Built-in microcontroller and real-time clock, allowing autonomous operation and reliable time-stamped data capture.

Standard ports such as USB for configuration and RS-485 for sensor/asset interfacing, making it suitable for simple machine connections.

These specifications underline its primary focus: remote data acquisition and transmission, the backbone of IIoT asset monitoring.

Positioning & Use Cases

iSmart is best understood not as a "lite" version of more powerful controllers, but as a strategic fit for targeted applications:

Remote infrastructure monitoring, where only essential telemetry needs to be gathered.

Distributed sensor networks feeding into larger IoT platforms.

Cost-constrained industrial sites prioritising simple automation over fully featured gateways.

Its value becomes especially clear in large-scale rollouts where per-unit cost, ease of deployment, and endurance in challenging environments are key considerations



Invendis

invendis.com

ARCA JIC ENCLOSURES — THE 21ST-CENTURY UPGRADE TO CLASSIC JUNCTION BOXES

In industrial automation, control panels, and field installations, the enclosure is more than just a container — it is the first line of defence for electronics, wiring and control systems. With its ARCA JIC series, Fibox has reinvented the classic junction box for modern industrial demands, offering rugged performance, weatherproof protection, and application flexibility that meets the needs of automation engineers, electrical contractors, and OEMs alike. The ARCA JIC line is engineered to provide an upgraded alternative to traditional metal or fiberglass junction boxes by leveraging precision-injection-moulded polycarbonate construction. The result is an electrical enclosure that is lightweight yet exceptionally strong, with superior resistance to chemical exposure, ultraviolet (UV) degradation and physical impact.



FIBOX

Enclosing innovations

www.fibox.com

Built for Tough Environments

One defining strength of the ARCA JIC series is its tough environmental protection. These enclosures carry IP66/IP67 ingress ratings, ensuring they keep out dust and powerful water jets — and even withstand brief immersion — critical for both indoor industrial settings and outdoor installations. They also achieve IK09 impact resistance, meaning they stand up to physical

knocks, drops or vibration that might compromise lesser boxes. In North American contexts they are certified for UL Type 4, 4X, 6, 6P, 12 and 13, reinforcing their suitability across a broad spectrum of industrial environments.

Environmental Protection

This rugged build makes ARCA JIC enclosures ideal for protecting terminal blocks, relays, controllers, field I/O and other sensitive electrical components in demanding applications — from automated production lines and factory floors to utilities, outdoor control cabinets, and remote monitoring stations.

Classic Sizes, Modern Features

The ARCA JIC family spans a wide range of industry-standard sizes — from compact junction boxes like an approximately 6" x 6" x 4" footprint to larger enclosures exceeding 24" x 24" x 10" — allowing specifiers to select the right volume and access for their specific installation needs. Available configurations range from simple screw-cover boxes to hinged and latched versions with stainless-steel latches and optional transparent covers. The transparent options are particularly useful for onsite visual inspection of internal indicators and components without opening the enclosure. Standard conveniences include pre-formed knock-outs for easy conduit entry on select models, industry-standard brass inserts for panel mounting, and accessories such as back panels and mounting plates to simplify installation and customization.

HASHSTUDIOZ HSZB001 ULTRA-LONG RANGE BLUETOOTH BEACON

In the world of proximity tech and location-based services, Bluetooth beacons have rapidly evolved from short-range transmitters to powerful tools for industrial, commercial, and smart-environment applications. The HSZB001 Ultra-Long Range Bluetooth Beacon from HashStudioz Technologies exemplifies this progression — pairing remarkable range, durability, and configuration flexibility in a compact, battery-powered device that's ready for deployment across large spaces.

Range Redefined

Where many traditional Bluetooth Low Energy (BLE) beacons operate within tens of metres, the HSZB001 broadcasts up to 600 m (approximately 1,968 ft) in open environments — a range typically seen only in specialized IoT or long-range wireless systems. This extended reach dramatically expands deployment scenarios, making it suitable not just for retail proximity marketing, but for warehouses, airports, outdoor venues, smart cities and large industrial complexes where wide coverage is essential.

HSZB001 Ultra-Long Range Beacon

-  1000 Ultra-Long-Range
-  Up to 10 slots Advertising Frames
-  Chipset Silicon Labs EFR32BG21
-  IP67 Waterproof
-  BLE 5.2 Low Power
-  Free SDK & APP



HashStudioz

Technologies

www.hashstudioz.com

The long-reach capability is driven by Bluetooth LE 5.1 technology — supported by Nordic's efficient nRF52833 or nRF52840 chipset — which ensures robust signal propagation while keeping power consumption extremely low. **Durability & Deployment Ease**

Designed for real-world environments, the HSZB001 carries an IP67 rating,

PARA Tech Product Spotlight

making it both waterproof and dustproof — a necessity for outdoor or industrial installations exposed to weather or particulate environments.

The device is engineered for flexibility in installation. It can be mounted via adhesive tape for quick setups or fixed with screws for permanent infrastructure integration, adapting easily to walls, columns, ceilings and outdoor signposts.

Long Battery Life & Easy Configuration

One of the beacon's standout practical advantages is its up to 10-year battery life, a figure that minimises maintenance and reduces total cost of ownership — ideal for large-scale or remote deployments where frequent servicing is impractical.

Configuration is handled through the BeaconSET+ app (available for iOS and Android), giving installers control over parameters such as UUID, Major/Minor values, transmit power and advertising intervals. An available SDK also allows developers to integrate and customise the beacon's behaviour for bespoke applications.

Compatibility & Use Cases

The HSZB001 supports both iBeacon and Eddystone protocols, ensuring broad compatibility with standard mobile platforms — including iOS (10.0+) and Android (4.3+) — and with third-party analytics, wayfinding, and engagement applications.

BHOOMI AGASTHYA 2021 SERIES MULTIPARAMETER CONTROLLER



Smarter, Real-Time Water Quality Intelligence for Modern Industrial Monitoring

In an era defined by environmental compliance, digital monitoring, and operational transparency, the importance of comprehensive water quality data cannot be overstated. For industries ranging from wastewater treatment to aquaculture, the ability to monitor multiple parameters simultaneously with precision and clarity is not a luxury — it's a necessity. The Bhoomi Agasthya 2021 Series Multiparameter Controller (Model BI 1000) answers that need with a blend of real-time analytics, data logging, and modular adaptability — all wrapped in a rugged, field-ready package.

Comprehensive Monitoring — Multiple Parameters, One Platform

At the heart of this controller is its ability to measure up to nine different water quality parameters, including key indicators such as pH, COD, BOD, TOC, TSS, NH₃, Chlorine, Total Nitrogen and Oil Content. This breadth of measurement makes it invaluable in effluent

treatment plants, river and groundwater monitoring, industrial discharge compliance, and aquaculture systems — settings where understanding the complete picture of water chemistry is critical.

The system uses digital intelligent sensors with RS485 Modbus interface, enabling plug-and-play flexibility. Controllers automatically recognise connected sensors — allowing custom combinations tailored to specific monitoring requirements without long configuration cycles.

Designed for Operators — Real Time, Real Simple

The BI 1000's 7-inch capacitive touch screen offers intuitive navigation and clear visibility of live data, alarms and trends. All collected data is stored internally and can be exported via USB in Excel format for reporting and historical analysis — a practical feature for compliance documentation and environmental audits.

Data-logging capability transforms the controller into more than a measurement tool — it becomes a decision support instrument, offering insights into temporal trends and helping operators detect anomalies before they become issues.



www.bhoomiltd.com

Durability Meets Flexibility

Built to endure industrial environments, the controller's electronics reside in an IP65-rated enclosure, while connected sensors boast IP68 protection for submersion-level resilience. This combination ensures reliable operation in both field and plant-floor conditions without performance degradation.

Power flexibility further enhances adaptability — with support for both 230 VAC and 24 VDC supplies, the unit fits easily into stationary installations, solar-backed remote stations, or hybrid power environments.

MR TECHNOLOGY— XG-1000 AXIAL SEQUENCER — STREAM-LINING THROUGH-HOLE ASSEMBLY

In the world of electronics manufacturing, throughput and reliability are the twin pillars of competitive production. While surface-mount technology (SMT) often dominates headlines, through-hole component assembly remains indispensable—especially for resistors, diodes, axial capacitors and jumpers in power, industrial and control boards. The XG-1000 Axial Sequencer from MR Technology plays a subtle yet pivotal role in this process: it doesn't insert components, but prepares them with precision and speed for the insertion stage that follows.

PARA Tech Product Spotlight

What It Does — The Unsung Hero of THT Lines

The XG-1000 is designed to sequence axial lead components—typically 52 mm taped parts—into a standardized 42 mm format before they are fed into an axial insertion machine such as the XG-2000. By converting a range of tape types into a unified feed, it eliminates a common bottleneck in through-hole processing, enabling downstream inserters to operate continuously and efficiently. This sequencing step may seem modest, but its impact is tangible: consistent feed quality, fewer interruptions and smoother machine uptime, all of which contribute directly to higher overall line productivity. The system's

modular architecture supports expansion up to 100 feeder stations, providing configurability for mixed-component production schedules and complex boards.

Performance & Practicality

At its headline level, the XG-1000 boasts an impressive sequencing throughput of 26,000 pieces per hour, ensuring that even high-mix lines rarely wait for part preparation. What's equally important in production contexts is its low non-performing rate of under 100 PPM, signalling both consistent mechanical reliability and the precision needed in automated lines where errors compound quickly.

Ease of use also matters on modern shop floors. The XG-1000 incorporates intuitive operating software and independent, stable sequencing modules, reducing setup time and minimising operator intervention compared with manual prep stations.

Why It Matters

For manufacturers committed to through-hole automation—and especially for electronics job shops or original equipment manufacturers

(OEMs) balancing fast changeovers with diverse part inventories—the XG-1000 is a workhorse enabler. By pre-aligning and standardising axial components before insertion, it smooths one of the traditional friction points in THT lines, allowing insertion machines to live up to their rated speeds and quality.

In an industry where every second counts and every defect costs, the XG-1000 stands out not by flashy automation theatrics, but by removing friction, increasing predictability and keeping throughput honest—the very characteristics that separate dependable factories from merely functional ones.

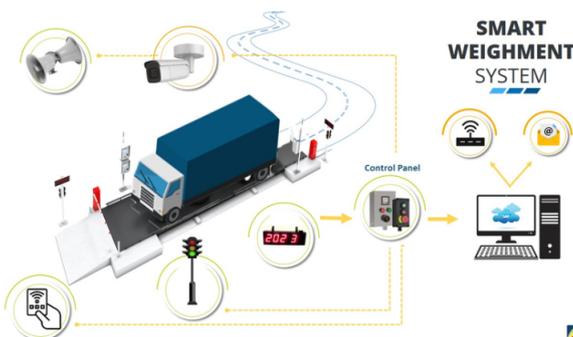


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F.T. SOLUTIONS WEIGHBRIDGE AUTOMATION



Get a higher ROI and better life with value-added services for unmanned weighbridge Solution. It allows 24 hours 7 days a week weighing operations without the need of an operator. Due to the system's user-friendly interface and ruggedness, it is totally operated by the truck driver. The System comes with an intelligent and integrated application that makes any digital weighbridge to a smart RFID unattended terminal. The system can be customized with many add-ons like RFID (HF and UHF) integration, vehicle position system, existing vehicle weighing software, camera plate recognition, surveillance cameras, PA system and with a loudspeaker, boom barriers, traffic lights, and integration with available SAP, Oracle, ERP.

SYSTEM SUPPORTS FOLLOWING KEY FEATURES

- 1.Improves productivity, supports transportation cost savings for getting the best return on Investment.
- 2.Reduction in Truck TAT and alongside facilitates improved visibility, safety, security for better asset tracking.
- 3.Eliminate the possibility of wrong/manual entries and provide reliable automation.
- 4.Enables to reduce manpower and improvement in the accuracy of data flow.
- 5.Real-time monitoring of vehicles achieved along with a preview on the Dashboard.
- 6.Highly integrable with SAP, ERP, Oracle and available software's to share real-time data.
- 7.System generated receipt confirmation of 'Dispatched Goods'.
- 8.Robust and weather-proof Cabinets and Kiosks.
- 9.Analytic dashboards to know the LIVE details and malpractices happening if any while weighing is done.
- 10.Periodic performance edge analysis.



F.T. Solutions Pvt. Ltd.

Connect Technology

www.fts-pl.com

FUJI ALPHA5 SMART SERVO AMPLIFIER

Precision, Flexibility, and Compact Power for Modern Motion Control

In high-performance automation, the amplifier is the silent workhorse that translates control commands into precise, responsive motion. Fuji's Alpha5 Smart Series Servo Amplifier (RYH ALPHA5) delivers this performance with compact design, advanced control features, and flexible motor compatibility—making it a practical choice for OEMs, machine builders, and automation integrators.



Engineering Highlights

The Alpha5 Smart Series supports motors in the 500–750 W range (models 751=75×101=750 W and 500 W), with 1500–3000 r/min series motors, allowing precise control in a variety of light to medi-

um-duty applications. Its smart development designation “5” ensures it supports advanced position, speed, and torque control, critical for tasks such as assembly robots, conveyor systems, pick-and-place operations, and precision CNC applications.

Its general-purpose upper interface (pulse, analog voltage) makes integration into existing control architectures straightforward, reducing engineering time and simplifying retrofits or machine upgrades. The 3-phase 200 V input provides reliable power for industrial settings, while the lightweight 1.2 kg form factor (3 kg shipping weight) minimizes footprint on the control panel without sacrificing performance.



Applications & Advantages

Position, speed, and torque control in a single amplifier

Compact design for constrained control panels

Flexible interface options compatible with standard industrial controllers

Reliable industrial voltage input (3-phase 200 V)

Ideal for pick-and-place machines, conveyors, packaging equipment, and compact CNC machines

The Alpha5 is designed for high responsiveness, smooth motion profiles, and energy efficiency, ensuring consistent performance across production cycles. Its intelligent servo logic reduces overshoot, minimizes vibration, and improves repeatability—essential for high-precision manufacturing environments.

REER MOSAIC SAFETY CONTROLLERS — SCALABLE SAFETY LOGIC FOR MODERN MACHINES

In today's automated factories, safety is no longer an afterthought — it's an architectural principle. As machines become faster, more capable, and more interconnected, protecting operators, equipment and processes requires logic that is configurable, certified and intelligently scalable. The Mosaic M1C programmable safety controller and its Mosaic family peers from Reer Safety deliver precisely that: modular safety logic that combines high performance with flexible configuration to meet the stringent demands of contemporary industrial systems.

At the heart of the Mosaic range are programmable safety controllers engineered to handle complex safety functions — including emergency stops, light curtain monitoring, two-hand controls and guarded area supervision — while adhering to internationally recognised safety standards such as SIL 3 and PL e. This level of performance is critical in sectors where human-machine interaction is constant, from automotive assembly and packaging lines to robotics cells and food processing lines.



The flagship Mosaic controllers, including variants like the M15 COM, M15C COM and ATEX-compliant models, feature 8 digital safety inputs, 4 OSSD safety outputs (configurable as singles or pairs) and multiple status and test outputs, all designed to harmonise with machine safety devices such as guarded doors, light curtains and e-stops. Their modular architecture not only simplifies system design but also supports expansion — allowing safety I/O to grow with production needs without major rewiring headaches.

One of the standout advantages of the Mosaic platform is its fieldbus-ready capability, enabling seamless integration with networked machine controllers and industrial communications protocols. This lets system integrators centralise safety logic and diagnostics, reducing panel complexity and improving maintenance visibility.

PARA Tech Product Spotlight

Moreover, Mosaic's compact footprint and modular components — including screws or clamp terminal options — make it practical for installation in space-constrained control panels. The ability to configure logic, monitor status and back up settings via software and memory card further streamlines commissioning and field servicing — a real plus for busy engineering teams.

In essence, the Reer Mosaic safety controller series transforms safety from a set of fixed relays into a configurable logic system that's intelligent, expandable, and fit for modern production demands. For manufacturers pursuing both performance and compliance, Mosaic controllers offer a compelling balance of flexibility, safety integrity and operational clarity.

Featured Products from the Mosaic Ecosystem

Mosaic M1C programmable safety controller – Programmable SIL 3 safety controller with clamp terminals, ideal as a flexible safety logic core.

Safety Relay Mosaic M1 – Entry-level safety controller unit.

REER Safety Control Unit Mosaic M1 – Compact safety logic module with SIL 3 performance.

REER Safety Controller 24VDC 8xDI 2xOSSD – DIN-rail-mount safety controller for medium I/O needs.

MOS16 Mosaic Status Outputs Expansion – Expansion module for additional status outputs.

COMPUTAR RF LENS SERIES — PRECISION OPTICS FOR HIGH-PERFORMANCE IMAGING



In vision-centric applications ranging from high-speed machine inspection to advanced surveillance and intelligent automation, optics are more than a component — they are the foundation of accuracy, clarity and actionable insight. At the heart of this ecosystem, Computar has spent over four decades refining optical design and manufacturing, earning a reputation for lenses that deliver performance across demanding industrial and security environments.

The Computar RF lens lineup — part of the company's broad global product range — exemplifies this heritage. These lenses are engineered to meet the stringent requirements of industrial machine vision, robotics, 4K-capable imaging and automated inspection systems where resolution, consistency and reliability are non-negotiable.

Why Lens Selection Matters in Industrial Imaging

A camera is only as effective as the optics that guide light to its sensor. In machine vision or security systems, the lens determines not just focus and field of view, but also contrast, distortion control, resolution coverage and performance under varied lighting conditions. Computar lenses are crafted with this engineering ethos, combining precision optical elements with global manufacturing expertise rooted in Japanese design tradition and refined over decades.

computar[®]

www.computar-global.com

The RF series — and broader Computar optical portfolio — supports a wide range of imaging formats and functions:

High-resolution fixed and varifocal lenses tailored for sensors ranging from 2 MP up to 20 MP and beyond, ideal for current AI-enabled vision systems.

Zoom and motorized lenses that enable flexible scene coverage without sacrificing image fidelity, critical in dynamic inspection or perimeter surveillance setups.

Ruggedized optics engineered to withstand industrial vibration and shock — an important consideration where vision systems operate close to heavy machines or in mobile applications like robotics.

Advanced i-CS and remote-controlled lenses that simplify setup and optimise image parameters through intelligent communication with compatible cameras.

Where Computar Optics Shine

The utility of RF and related lens series spans applications that prioritize both clarity and contextual detail:

Machine Vision & Automation: Accurate defect detection, measurement and alignment in plastics, semiconductor and electronics manufacturing.

Security & Surveillance: Long-range, high-resolution monitoring for critical infrastructure, border control and smart city projects where scene dynamics change rapidly.

Robotics & Logistics: Visual guidance systems for autonomous platforms, where precise optics enable robust navigation and object recognition.

Transportation & ITS: Intelligent Traffic Systems that demand consistent image quality across speed, light and weather conditions.

EATON OCEAN TECHNICAL SYSTEMS — AUTOMATION AT SEA AND BEYOND

In industrial automation, the domain most people immediately think of is the factory floor. But automation has equally critical roles in harsh offshore environments, where machinery, platforms and vessels operate far from easy access and under relentless stress. Eaton's Ocean Technical Systems (OTS) portfolio brings precision automation, remote monitoring and functional safety to these extreme settings — from oil tankers and floating production units to unmanned offshore platforms and subsea pipelines.



Ocean Technical Systems, part of Eaton's broader process safety, automation, measurement and instrumentation offering, specialises in rugged solutions that stand up to wind, waves, salt and operational risk. Its products combine high-reliability hardware, functional safety ratings and integration with control systems to ensure both personnel safety and process integrity at sea.

Automation Where It Matters Most

One of the standout capabilities in the OTS portfolio is the DGPS-based OSPREY tanker berthing system — a navigation aid that provides accurate speed, bearing and distance information to pilots during tanker approach operations. This kind of precision is essential in environments where positioning errors can have catastrophic consequences.

Complementing this is the OMEGA mooring integrity system, which continuously monitors mooring line tension and angle to detect potential failures or structural changes in real time. Such insights are critical for platforms and floating production storage and off-load (FPSO) units that must maintain secure station keeping in variable sea states.



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Functional Safety and Remote Telemetry

Safety and resilience are at the core of OTS solutions. Eaton's OTS systems include SIL-rated telemetry units and remote control systems built for reliability. These units — designed to interface with customer-preferred HMI platforms or integrate with third-party SCADA and DCS systems — support SIL2/SIL3 functional safety levels for critical measurements like pressure surge detection and emergency shutdown logic.

The portfolio also extends to hermetically sealed shear-pin load cells and custom chafe chain links for direct load monitoring, enabling operators to quantify forces on mooring hawser lines and assess wear or fatigue over operational cycles.

A Bridge Between Offshore Risk and Control Room Confidence

What sets Eaton's Ocean Technical Systems apart is the way it brings industrial-grade automation practices into environments where downtime is costly and risk is ever present. By combining rugged hardware with precise positioning systems, reliable telemetry and functional safety, OTS fills a niche that blends marine technology, process control and safety-critical automation — serving industries where failure isn't an option.

KEBA SAFETY TECHNOLOGY — INTELLIGENT PROTECTION FOR THE NEXT GENERATION OF MACHINES



In modern automation, safety is no longer an optional accessory — it is an engineering requirement embedded into every motion, every control loop and every interaction between humans and machines. KEBA's Safety Technology portfolio exemplifies this shift, offering a suite of scalable, programmable and standards-certified safety solutions that help manufacturers achieve advanced machine safety while retaining flexibility and simplicity.

Safety That Scales with Complexity

At the core of KEBA's offering is the KeSafe family — a modular safety technology platform that spans applications from basic logical safety functions to multi-axis motion and robotics safety. Whether a machine needs simple emergency-stop logic

or complex human-robot collaboration monitoring, KeSafe's certified safety modules can be combined and programmed like a functional PLC, making them both versatile and robust.



www.keba.com

PARA Tech Product Spotlight

The portfolio includes:

KeSafe D3 – A programmable safety system for machines and industrial robots that supports safe logic, motion and robot monitoring with scalable configuration levels.

Safe single-axis and multi-axis solutions – Integrated safety functions such as Safe Torque Off (STO), safe speed, position and motion-based limits, designed in accordance with EN 61800-5-2, EN 61508/SIL3 and ISO 13849-1/PL e.

KeSafe FSM & KeSafe C5 – Flexible safety controller platforms that allow automatable parameterisation and integration into a wide range of machine types, simplifying deployment of safety logic.

Safe communication and certified function modules – Safety-certified building blocks for functional logic, sensor inputs and motion supervision that reduce engineering effort and speed up validation.

Safety Over EtherCAT — Modern Networked Safety

KEBA embraces Fail-Safe over EtherCAT (FSoE) as a modern approach to safety communication. FSoE enables safety data — such as safe I/O state, safe speed and safe motion conditions — to be transmitted across a standard industrial EtherCAT network with SIL3/PL e certification, replacing extensive discrete safety wiring with a lean, scalable safety network architecture.

This approach extends to Safety PLCs and Safety I/O Modules that are TÜV-certified for SIL3/PL e safety levels, managed within a unified engineering environment (COMBIVIS Studio 6 with integrated safety editor). By programming both functional and safety logic in one IDE, engineers minimise duplication of effort and streamline validation — an increasingly important advantage as machinery grows in capability and complexity.

Practical Safety for Today and Tomorrow

KEBA's safety ecosystem reflects a broader industry trend: safety must be intelligent, integrated and extensible. Traditional hard-wired safety relays and fixed logic systems are giving way to programmable, networked safety architectures that support high-performance motion, multi-axis coordination and collaborative robotics — all while meeting rigorous global standards.

This evolution is not just about compliance. It is about enabling innovation — allowing systems designers to build machines that are both highly capable and safe, rather than forcing trade-offs. With platforms like KeSafe and FSoE-based safety control, KEBA helps industries transition towards smarter, safer automation that protects both operators and uptime.

AXIS SOLUTIONS— SAFE AREA / EXPLOSION-PROOF AIR CONDITIONING

In industrial environments where heat, humidity and harsh ambient conditions can jeopardise both equipment performance and safety, traditional air conditioning systems often fall short. This gap becomes even more critical in hazardous or classified areas— zones where flammable gases, vapours or dusts create a risk of ignition. For such challenges, Axis Solutions Limited's Safe Area / Explosion-Proof Air Conditioning units represent a purpose-engineered answer that goes beyond comfort cooling to deliver reliable, certified environmental control in demanding industrial settings.

Engineered for Safety and Reliability

Axis's explosion-proof AC units are designed for 24x7 operation in Oil & Gas, Refinery, Petrochemical and Heavy Industry environments, where maintaining controlled temperatures inside control panels, shelters, analyzers and instrument rooms is essential for both precision measurement and machine longevity. Each unit is built to operate trouble-free under extreme conditions, including remote locations and high ambient temperatures.

What sets these systems apart is their explosion-proof and safe area certification. Engineered to meet Zone 1 & 2 classifications (including IIC and IIB+H2 scenarios), the AC modules include flameproof electrical components, hermetically sealed compressors and rugged enclosures — all tested to IEC and international safety standards to ensure they will not act as an ignition source in classified atmospheres.

The units also feature:

Low noise and vibration design for operation around sensitive instruments
Efficient dust filters and excellent thermal insulation for sustained performance
High-quality materials like CRCA steel or optional SS 304 / SS 316 stainless steel for corrosion resistance

Stainless steel drain pans for durability in moist environments

These design choices extend service life and minimise maintenance in tough industrial conditions.

Practical Performance in Harsh Conditions

Axis explosion-proof AC units are engineered with CFC-free refrigerants compliant with the Montreal Protocol, and are tested for performance under real-world load conditions. Their flameproof compressors carry individual compliance certifications, and components like motors and electrical housings are rated for safe operation in potentially combustible atmospheres.

This makes them ideal for:

Control room cooling

Analyzer shelters and instrument panels



PARA Tech Product Spotlight

Electrical and communication equipment enclosures

Remote field installations

Safe area HVAC support in refineries and chemical plants

The robust design ensures minimal downtime and predictable climate control, even in Zone-rated environments where safety and reliability are paramount.



www.axisindia.in

VEGA VEGAMET 141 — COMPACT INTELLIGENCE FOR ANALOG LEVEL MEASUREMENT

In process automation and fluid handling systems, raw sensor signals are only useful when they are translated into actionable measurements and control actions. This is where signal conditioning and controller units play a vital role — sitting between field transmitters and the control system to condition, display, and act upon measured values. The VEGA VEGAMET 141 exemplifies this class of instruments with a practical balance of compact design, functional capability and easy integration.

Purpose-Built for Analog Sensor Signals

The VEGAMET 141 is a compact controller and display instrument designed primarily for 4–20 mA analog level sensors. It feeds and powers a connected loop, processes the received signal, and displays the measured value on a local graphic display integrated into the unit — a useful feature when operators need at-a-glance status on site without relying solely on supervisory systems.

Mounted conveniently on standard DIN carrier rails inside control cabinets, the controller's compact form factor makes it an unobtrusive part of the panel while providing real-time measurement interpretation. It also includes a turn/push button interface for quick local configuration and diagnostics — even in low-light conditions, thanks to the backlit display.

Control, Output and Safety

Beyond measurement and display, the VEGAMET 141 delivers flexible output and control options. It features:

1 × 4–20 mA current output for interfacing with higher-level systems or actuators,

3 operating relays for threshold or control actions, and

1 configurable fail-safe relay that can be assigned for safety functions or alarm conditions.

This blend of analog and discrete outputs enables the VEGAMET 141 to serve a variety of simple control tasks such as pump switching, open-channel flow measurement, limit monitoring or overflow protection in tanks and vessels — all without the need for complex programmable logic.

Modern Convenience With Bluetooth Setup

VEGAMET 141 embraces modern commissioning practices by supporting Bluetooth configuration via smartphone, tablet or PC. This means setup and diagnostics can be performed wirelessly — reducing commissioning time and the need for physical access in crowded control cabinets. The same app-based methods also allow safe and rapid diagnostics during maintenance cycles.

Built to withstand typical industrial environments, the controller carries global safety approvals (e.g., ATEX, IEC, c-UL-us, UKEX) and has an IP20 protection rating suitable for protected control cabinets. Its operating range covers typical ambient conditions (–20 to +60 °C), ensuring reliability across varied installations.

Where It Fits

The VEGAMET 141 occupies the niche between simple transmitters and fully programmable logic controllers, delivering conditioned measurement data plus discrete control capability in one compact package. It is particularly well suited for applications such as:

Level monitoring and control in tanks and sump systems

Pump logic and protective switching

Open-channel flow or weir measurement

Basic overflow or dry run protection schemes

In systems where simplicity, clarity and reliable control matter, the VEGAMET 141 serves as both interpreter and action enabler — making analog sensor data not just measurable, but genuinely functional in the control landscape.



VEGA HOME OF VALUES

www.vega.com

TR12- TWARA ROBOTIC ARM



Compact, capable, and built for real factory conditions, the TR12 6-axis articulated robot from Twara Robotics addresses the growing need for cost-effective, mid-payload automation in Indian manufacturing.

With a 12 kg payload and 1000 mm reach, the TR12 is well suited for material handling, arc welding, assembly and dispensing applications. Its rugged mechanical design and wide joint movement allow flexible operation even in space-constrained workcells. The robot's low power consumption (1000 W at 24 V DC) and compact controller make it easy to integrate into existing production lines.

Programming is kept practical through a combination of off-line and online teaching, supported by a user-friendly HMI and jog controls. Safety features such as emergency stop and automatic braking during power loss ensure dependable shop-floor operation.

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1. AI Is Quietly Rewriting Factory Control Rooms

Industry insiders whisper that Siemens and Rockwell Automation are racing to embed generative AI directly into PLC programming tools. The gossip? Future control engineers may spend more time prompting than coding. <https://news.siemens.com/en-us/siemens-unveils-technologies-to-accelerate-the-industrial-ai-revolution-at-ces-2026>

2. Japanese Automation Giants Are Watching India Closely

Sources suggest Mitsubishi Electric and Omron are planning aggressive India-focused automation strategies. Rumour has it that local manufacturing and faster customization will be key weapons. <https://www.oemupdate.com/automation/mitsubishi-electric-inaugurates-manufacturing-plant-for-factory-automation-systems-in-maharashtra>



3. Digital Twins Are Becoming Boardroom Buzzwords

What started as an engineering tool is now a management obsession. Executives are reportedly demanding digital twin demos even before approving new plants—thanks largely to success stories floating around from ABB projects. <https://electronics360.globalspec.com/article/21642/25-trends-in-robotics-for-2025>



4. Brownfield Automation Is the New Gold Mine

Automation vendors are quietly shifting focus from greenfield plants to retrofitting old factories. The gossip? Upgrading legacy systems is proving far more profitable than building from scratch—especially in Asia and Eastern Europe. <https://www.rockwellautomation.com/en-ca/company/news/press-releases/state-of-smart-manufacturing-cybersecurity-2025.html>

5. Robots Are Learning to Work Without Cages

Collaborative robots are no longer the “cute side project.” Industry chatter suggests Universal Robots-style cobots are being tested for heavier, riskier tasks—blurring the line between cobots and traditional industrial robots. <https://www.iiot-world.com/artificial-intelligence-ml/artificial-intelligence/industrial-ai-trends-2025>

6. Cybersecurity Is the Silent Deal-Breaker

A little-known rumour in automation circles: several large automation deals have reportedly collapsed due to OT cybersecurity concerns. Vendors with weak security credentials are quietly being filtered out during negotiations. <https://www.iiot-world.com/artificial-intelligence-ml/artificial-intelligence/industrial-ai-trends-2025>

7. Edge Computing Is Eating the Cloud's Lunch

While cloud automation still dominates marketing brochures, insiders say real-time control is moving fast toward edge computing. Factory managers prefer millisecond decisions over cloud dashboards—no matter how flashy they look. <https://thetechpanda.com/ai-powered-digital-twins-cobots-agentic-ai-physical-ai-edge-computing-are-enabling-an-anticipatory-ai-first-manufacturing-ecosystem/41763>

8. Open Automation Is Making Vendors Nervous

The rise of open, vendor-neutral automation platforms is creating anxiety among traditional OEMs. Some engineers claim that closed proprietary systems may soon feel as outdated as floppy disks. <https://www.iiot-world.com/artificial-intelligence-ml/artificial-intelligence/industrial-ai-trends-2025>

9. Energy Monitoring Is Becoming Mandatory, Not Optional

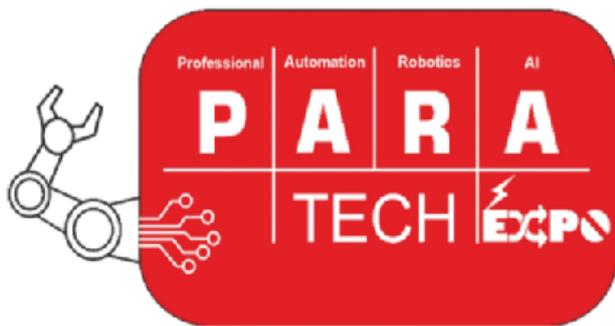
With ESG pressure rising, gossip suggests energy analytics will soon be built into automation systems by default. Vendors who can't show carbon and power savings may lose deals—even if their control tech is excellent. <https://www.theguardian.com/technology/2026/jan/16/ai-will-transform-the-human-job-and-enhance-skills-says-science-minister>

To feature your exciting news on this column send me a
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