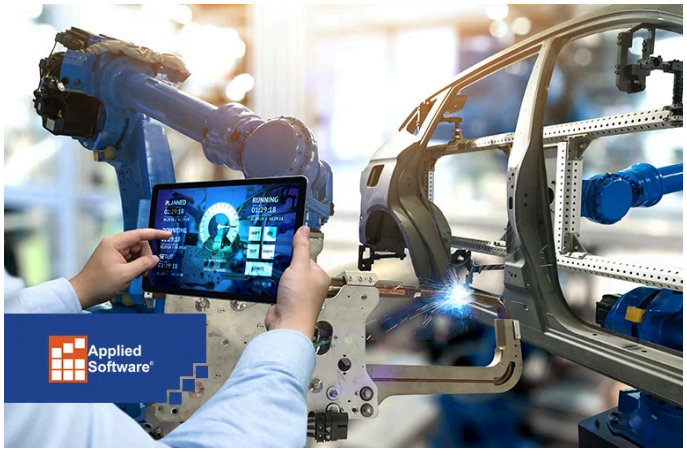
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Cover Story

Motion Control: The Competitive Edge

Why Motion Control is Becoming Non-Negotiable in 2025



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SCHURTER PCAP Touchscreens
Panasonic HG-F1 Laser Distance Sensor
Technic Air Leak Test System
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Smisen Control Transformer
Hallmark Motion Controllers
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11 Reputable Solutions

Industrial Automation is rapidly shifting from scale to smart, integrated performance. The latest innovations from **Nippon instruments, Schurter, Panasonic, Technic Automation, Smisen Controls, RTA, Hallmark, Griffyn Robotech, Unison Controls, Rose and UL** highlight a clear trend: automation is becoming more precise, connected and adaptable across every layer of the factory floor.

A key theme is convergence. Technologies are no longer standlone - systems now combine multiple functions into unified platforms, while AI-driven inspection, real- time monitoring and intelligent control are pushing industries toward predictive, data-driven operations.

Equally important is accessibility. With compact designs and easy integration, automation is now within reach for businesses of all sizes. The result is a new era where efficiency, reliability and intelligence are built into every process.

NIPPON Multi Set Point Indicator Controller 6



In industrial environments where process consistency and precise monitoring are essential, the NIPPON Multi Set Point Indicator Controller offers a practical solution for managing multiple operational thresholds with greater control and visibility.

Panasonic HG-F1 Laser Distance Sensor 7



In automation systems where accurate positioning and dependable object detection are essential, the Panasonic HG-F1 Laser Distance Sensor offers a compact yet high-performance sensing solution.

Smisen Control Transformer 8

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Hallmark Motion Controllers 9

Hallmark Advanced Technology's motion controllers are designed to support synchronized, multi-axis motion applications across CNC systems, robotics, inspection equipment, pick-and-place systems, laser processing, and specialised automation machinery.



Unison Zero Cross Solid State Relay 10

in industrial automation systems where dependable switching performance is essential, Unison Controls' Model 901 Zero Cross DC to AC Solid State Relay is designed to support stable and maintenance-friendly power control.



UL Electrodevices I/O Systems 11

In increasingly connected manufacturing environments, dependable data exchange between sensors, actuators, and control systems is essential for efficient operations. UL Electrodevices' I/O Systems are designed to support intelligent and flexible industrial connectivity, enabling reliable signal transmission across automation networks.



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Why Motion Control is Becoming Non-Negotiable

Industrial automation is no longer optional. It's a business necessity. By 2025, the global industrial robotics market is expected to exceed $80 billion. Out of this, motion control systems alone will account for over 30% of automation-related spending.

These systems are the backbone of precision in modern manufacturing. They help control the speed, position, and force of machines with high accuracy. Industries like automotive, electronics, and pharmaceuticals are leading the adoption.

Companies using advanced robotics and motion technologies are seeing measurable benefits. According to McKinsey and Deloitte, operational efficiency has improved by up to 40%. Unplanned downtime has reduced by as much as 60%. Production cycles have become 25% faster, boosting output and revenue.

In today's competitive environment, automation is not just about staying ahead. It's about staying in the game.

Still, many automation companies haven't caught up with the change. They continue using outdated machines, mismatched systems, and poorly optimized setups. The outcome? Missed growth opportunities. Frequent production delays. Rising maintenance costs. And limited room to scale.

If you're in procurement, operations, or engineering leadership, it's time to pause and rethink your automation strategy.

This guide will walk you through how key components — like servo drives, stepper motors, PACs/PLCs, and motion controllers — can transform your shop floor. We highlight products from trusted brands like Schneider Electric, Fuji, and Nidec. You'll also find practical tips, detailed product insights.

What is Motion Control & Robotics in Industrial Automation?

Motion control is the technology that manages how machines move. It ensures precise, consistent movement in speed, direction, and position. This accuracy is critical in industries like packaging, electronics, and automotive manufacturing.

Robotics builds on motion control. It adds sensors, software, and automation logic to enable machines to make decisions and perform tasks with minimal human input. Together, they form the backbone of modern industrial automation — combining precision with intelligence.

Together, they empower industries to:

Execute complex tasks faster and with greater precision

Minimize human error and operational downtime

Improve throughput, quality, and process stability.

MOTION CONTROL IN 2025

📈 Global Industrial Robotics Market: $80+ Billion
⚙️ Motion Control Share of Automation Spend: 30%+
🚀 Production Cycles Faster by: 25%
📉 Unplanned Downtime Reduction: Up to 60%
🏭 Operational Efficiency Improvement: Up to 40%

In essence, motion control is the muscle, and robotics is the brain behind smart manufacturing.

The Core Components Powering Motion Control

1. Servo Drives & Servo Motors

What They Do: Provide precise control of angular or linear position, velocity, and acceleration.

Use Cases: Pick-and-place robotics, conveyor systems, CNC machining, textile automation.

Why It Matters in 2025: Servo systems allow near-instantaneous response to control signals, leading to smoother operations and reduced energy consumption.

2. Stepper Motors

What They Do: Rotate in fixed steps for applications requiring position control without feedback loops.

Use Cases: 3D printers, packaging machines, small-scale positioning.

Why It Matters in 2025: While not as sophisticated as servos, they offer cost-effective accuracy in simple use cases.

3. Motion Controllers (PACs, PLCs)

What They Do: Act as the brain of your automation setup, dictating motion logic and execution.

Use Cases: Assembly lines, robotic arms, process automation.

Why It Matters in 2025: PLCs (Programmable Logic Controllers) and PACs (Programmable Automation Controllers) have evolved to integrate seamlessly with cloud-based systems, IoT sensors, and HMI displays.

Industries Already Reaping the Benefits

Across India and globally, automation is no longer the future — it's the present. Here are sectors actively upgrading to motion control-based systems:

Automotive: For welding, painting, assembly, and inspection MCG: For bottling, packaging, and labelling automation Textiles: For automated spinning, weaving, and dyeing

Electronics: For PCB assembly and testing

Pharma: For lab automation, filling, capping, and inspection

RECKERS AUTOMATION

Summary: The Takeaway

By 2025, motion control and robotics won't be optional. They'll be essential for staying competitive in any industrial space.

Technologies like servo drives, motion controllers, and smart PLCs aren't just upgrades — they're enablers of excellence. They help you run faster, smarter, and with fewer errors. You cut waste. You boost uptime. And you build a factory that's ready for the future.

Embracing these tools today means stronger performance tomorrow — and a clear edge over those who don't adapt.

Reckers Automation is here to walk the path with you, not just as a distributor, but as a partner in growth.

PARA Tech Product Spotlight

NIPPON Multi Set Point Indicator Controller: Precision Monitoring for Demanding Industrial Processes

nippon instruments (india) pvt. ltd.
http://nipponinstruments.com

In industrial environments where process consistency and precise monitoring are essential, the **NIPPON Multi Set Point Indicator Controller** offers a practical solution for managing multiple operational thresholds with greater control and visibility. Designed for process monitoring applications, the controller supports accurate indication and response to varying set points, making it useful across manufacturing, utilities, and process-driven environments where stable operating conditions are critical.



A process monitoring controller designed to manage multiple set points with improved operational accuracy, indication, and control in industrial environments.

Its relevance lies in helping operators maintain tighter process discipline while reducing operational fluctuations that can affect productivity or equipment performance. By combining indication and control capabilities within a compact industrial instrument, the NIPON Multi Set Point Indicator Controller reflects the growing emphasis on dependable, easy-to-integrate process control technologies that support efficient plant operations.

SCHURTER PCAP Touchscreens: Engineered for Demanding Human-Machine Interfaces

As industrial systems become increasingly interactive, the demand for robust and intuitive human-machine interfaces continues to grow. **SCHURTER's PCAP (Projected Capacitive) Touchscreens** are developed to meet these expectations through customised touchscreen solutions designed for demanding industrial, medical, test and measurement, and outdoor environments. Supporting features such as glove operation, water resistance, multi-touch functionality, and EMC compliance, the touchscreens are engineered to perform reliably where standard consumer-grade interfaces often fall short.

What distinguishes SCHURTER's PCAP solutions is their focus on application-specific customisation—from sensor design and controller tuning to display and housing integration. Available across multiple sizes and adaptable to varied environmental requirements, the touchscreens support next-generation HMI development where usability, durability, and precision interaction are equally important for operational efficiency.



SCHURTER
ELECTRONIC COMPONENTS
www.schurter.com



Customised PCAP touchscreen solution for reliable, glove-friendly, and high-performance HMI operation in industrial applications.

Panasonic HG-F1 Laser Distance Sensor: Precision Sensing for Dynamic Industrial Environments

In automation systems where accurate positioning and dependable object detection are essential, the **Panasonic HG-F1 Laser Distance Sensor** offers a compact yet high-performance sensing solution. Built with Time-of-Flight (TOF) measurement technology, the sensor enables stable long-range detection while remaining less affected by object colour or material variations—making it suitable for positioning, presence detection, stacked object confirmation, and robotic handling environments. Its digital display and analogue output capability further support improved process visibility and system integration.



Compact laser distance sensor for precise long-range detection and positioning in industrial automation systems.

Designed with a lightweight aluminium die-cast body and industrial-grade durability, the HG-F1 reflects the increasing need for compact, precise, and reliable sensing technologies in modern manufacturing. Whether used for machine positioning, transfer systems, or automated inspection processes, the sensor contributes to improved repeatability and process consistency in demanding production settings.

Panasonic
INDUSTRY
www.industry.panasonic.com

Technic Air Leak Test System: Strengthening Pneumatic Actuator Reliability

In pneumatic systems, performance is only as dependable as the integrity of their sealing and movement mechanisms. **Technic Automation's Air Leak Test System for Pneumatic Actuators** is designed to verify actuator performance through automated leak testing, helping manufacturers detect sealing inconsistencies before deployment. Built around PLC and HMI-based functionality, the system supports testing of piston seals, barrel seals, rod seals, cushions, and reciprocating movement—making it a valuable tool in quality assurance and manufacturing environments.

As industries place increasing emphasis on reliability and quality validation, automated leak testing systems are becoming essential to maintaining consistent product performance. With structured testing cycles and process monitoring capabilities, Technic's solution supports improved inspection accuracy while helping manufacturers ensure dependable pneumatic actuator operation across industrial automation applications.

TECMAR® AUTOMATION
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An ISO 9001-2015 Registered Organisation
www.technicautomation.in



Automated air leak test system for accurate pneumatic actuator performance and sealing validation.

PARA Tech Product Spotlight

Smisen Control Transformer: Reliable Power Support for Industrial Control Circuits

In industrial automation environments, stable and regulated power is essential for ensuring dependable control system performance. **Smisen Controls' Control Transformer** is designed to provide controlled voltage supply to sensitive control circuits, relays, contactors, timers, PLC interfaces, and auxiliary equipment operating within industrial panels. Engineered for industrial-duty applications, the transformer supports consistent performance where electrical fluctuations can affect machine reliability and process continuity.

As manufacturing systems become increasingly automation-driven, dependable control power infrastructure plays a vital role in reducing downtime and supporting equipment longevity. Built for integration across machine tools, motor starter circuits, and industrial control panels, Smisen's control transformer reflects the continued importance of reliable electrical conditioning in modern industrial environments.

SMISEN CONTROLS PVT. LTD.

http://smisencontrols.com



Industrial control transformer for stable voltage supply in control panels and automation systems.

RTA MiniMax EtherCAT PLC: Compact Motion Intelligence for Modern Automation

As industrial automation systems become increasingly sophisticated, compact yet scalable motion controllers are gaining importance in machine design. **RTA's MiniMax EtherCAT PLC** is developed to support automation applications ranging from simple control requirements to moderately complex multi-axis systems, enabling the management of stepper and servo axes within a compact architecture. Built for EtherCAT-based environments, the controller supports structured text programming, real-time process execution, and integration with industrial communication protocols such as Modbus TCP/IP and Modbus RTU, making it suitable for precision-driven manufacturing applications.



Compact EtherCAT PLC for precise multi-axis motion control and industrial automation.

What positions MiniMax as a practical motion solution is its emphasis on simplified programming and system flexibility. Supported by RTA Studio software for configuration and debugging, the controller is designed to help machine builders and automation engineers streamline motion programming while maintaining operational precision. From packaging systems and CNC applications to automated production equipment, the MiniMax reflects the growing need for intelligent, compact motion control platforms capable of supporting evolving industrial requirements.

RTA Look Ahead!

www.rta.it

Hallmark Motion Controllers: Enabling Precision Across Advanced Automation Systems

As industrial automation evolves toward greater precision and flexibility, motion control technologies are playing a central role in machine performance and process accuracy. **Hallmark Advanced Technology's motion controllers** are designed to support synchronized, multi-axis motion applications across CNC systems, robotics, inspection equipment, pick-and-place systems, laser processing, and specialised automation machinery. Built around advanced control architecture with real-time processing capabilities, the controllers are developed to support smooth motion execution, graphic visualisation, and seamless handling of complex machine operations.

What distinguishes Hallmark's motion control offering is its emphasis on application adaptability and industrial usability. With capabilities that support customised GUI integration, servo compatibility, remote monitoring, and large-scale G-code processing, the solution reflects growing demand for intelligent machine control systems capable of improving operational precision while simplifying machine interaction for operators and system integrators.

HALLMARK
ADVANCED TECHNOLOGY PVT. LTD.

https://hallmark-pinbars.com



Advanced motion controller for precise multi-axis machine automation and industrial motion control.

Griffyn DEEPCATCH: Advancing Industrial Intelligence Through Edge-Enabled IIoT Connectivity

As manufacturing moves toward smarter, connected operations, the ability to capture and process machine data in real time has become increasingly important. **Griffyn Robotech's DEEPCATCH**, an Edge Intelligence-Based IIoT Gateway, is developed to help industries bridge operational technology with cloud-enabled intelligence by enabling machine-to-machine connectivity, remote asset tracking, and intelligent data processing. Supporting MQTT broker/client functionality, cloud integration, predictive monitoring, and AI-assisted analytics, the platform is designed to improve visibility across industrial operations while reducing manual intervention.

What distinguishes DEEPCATCH is its focus on edge intelligence and operational efficiency. By enabling real-time monitoring, remote diagnostics, preventive analytics, alerts, and machine data management through a unified system, the solution supports manufacturers seeking improved process transparency and faster operational decision-making. In increasingly data-driven production environments, such technologies are becoming essential to enabling scalable and connected industrial ecosystems.

GRIFFYN
ROBOTECH

https://griffyn.io



AI-powered IIoT gateway for machine connectivity, remote monitoring, and industrial data intelligence.

PARA Tech Product Spotlight

Unison Zero Cross Solid State Relay: Reliable Switching for Precision Industrial Control

In industrial automation systems where dependable switching performance is essential, **Unison Controls' Model 901 Zero Cross DC to AC Solid State Relay** is designed to support stable and maintenance-friendly power control. Engineered for applications requiring controlled AC switching, the relay uses zero cross technology to minimise electrical noise and switching stress by activating at the AC waveform's zero-voltage point. This makes it particularly suitable for heaters, temperature control systems, packaging equipment, and automation panels where operational consistency matters.

As industries increasingly move toward maintenance-efficient and long-life switching technologies, solid state relays are becoming preferred alternatives to mechanical relays in demanding environments. With opto-isolation, compact panel-mount design, surge protection, and extended switching life, Unison's Model 901 reflects the growing emphasis on reliability, process continuity, and safer switching in modern industrial control systems.

UNISON CONTROLS PVT. LTD.

www.unisoncontrols.com



Zero cross solid state relay for reliable, low-noise AC switching in industrial control systems.

ROSE SL 5000: Flexible HMI Enclosure for Industrial Applications

As industrial systems become increasingly interface-driven, reliable and adaptable control enclosures are essential for efficient machine operation. **ROSE Systemtechnik's SL 5000** is a modular aluminium enclosure designed for HMI and control applications, supporting flexible configurations for displays, operator panels, and industrial control systems.

Built for integration flexibility and industrial durability, the SL 5000 enables manufacturers and system integrators to create customised control stations suited to varied operational environments. Its modular approach reflects the growing need for practical, scalable HMI infrastructure in modern automation systems.

ROSE

A Phoenix Mecano Company

https://www.rose-systemtechnik.com



Modular aluminium enclosure for HMI and industrial control applications.

UL Electrodevices I/O Systems: Enabling Reliable Industrial Connectivity

In increasingly connected manufacturing environments, dependable data exchange between sensors, actuators, and control systems is essential for efficient operations. **UL Electrodevices' I/O Systems** are designed to support intelligent and flexible industrial connectivity, enabling reliable signal transmission across automation networks. As part of the company's industrial connectivity portfolio, the systems are suited for machine communication, distributed control, and field-level integration where operational accuracy and stable performance are critical.

https://ulepl.com



Industrial I/O system for reliable machine connectivity and data communication.

Built to support evolving industrial networking requirements, UL Electrodevices' I/O solutions reflect the growing need for scalable and cost-effective communication infrastructure in Industry 4.0 environments. Whether deployed in manufacturing, material handling, utilities, or process industries, such systems help streamline machine communication while improving responsiveness and system integration efficiency.

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1. Humanoid Robots Enter Real Manufacturing at Scale
British robotics firm Humanoid plans to deploy 1,000–2,000 humanoid robots at German manufacturer Schaeffler's factories — one of the biggest announced industrial humanoid rollouts so far. This moved humanoids from "trade-show curiosity" to actual manufacturing deployment.
https://www.reuters.com/business/humanoid-deploy-up-2000-robots-schaeffler-plants-2026-05-13

2. Japan Quietly Starts an AI Robot Adoption Wave
A Reuters/Nikkei survey found one in three Japanese companies are already using or considering AI-powered robots, especially for manufacturing and hazardous work. Labor shortages are accelerating adoption.
https://www.reuters.com/business/autos-transportation/one-three-japan-firms-using-or-considering-ai-robots-2026-05-20



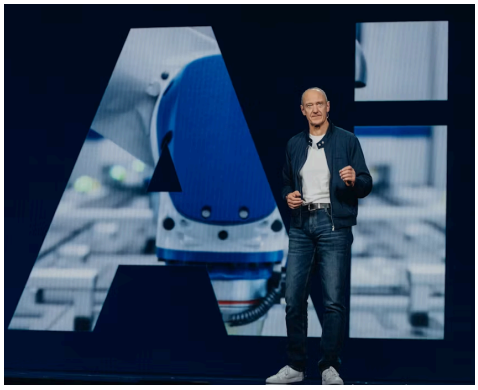
3. Industrial AI Replaces "Industry 4.0" as the Dominant Narrative
The industry conversation is shifting from digitization to Industrial AI, autonomous engineering, AI copilots, and self-optimizing factories. Vendors are no longer selling only automation — they're selling intelligence.
https://www.hannovermesse.de/en/news/news-articles/japan-is-testing-ai-robots-not-out-of-curiosity-but-out-of-necessity

4. Siemens Pushes Engineering AI Agents
Engineering AI systems are beginning to automate industrial engineering workflows instead of merely assisting engineers — from engineering logic generation to system configuration. This is one of the most debated developments among automation professionals.
https://press.siemens.com/global/en/pressrelease/siemens-launches-eigen-engineering-agent-bringing-purpose-built-ai-industrial

5. China's Humanoid Robot Manufacturing Race Intensifies
China is aggressively scaling low-cost humanoid robotics for factories and logistics, backed by industrial policy and cost advantages. The discussion is increasingly about economics, not science fiction.
https://www.marketwatch.com/story/chinas-next-export-shock-walks-on-two-legs-and-costs-less-than-a-used-car-f0becf3f

6. The "Dark Factory" Conversation Returns
Factories capable of operating with minimal human presence — powered by robotics, AI, IIoT, and self-monitoring systems — are moving back into mainstream discussion. Interest in highly autonomous production environments is growing again.
https://www.coherentmarketinsights.com/industry-reports/dark-factories-market

7. AI + digital twins move from concept to implementation
Digital twin adoption accelerated beyond pilots, with manufacturers increasingly using simulation for engineering, production optimization, predictive maintenance, and energy management
https://www.reuters.com/business/autos-transportation/one-three-japan-firms-using-or-considering-ai-robots-2026-05-20



To feature your exciting news on this column send me a

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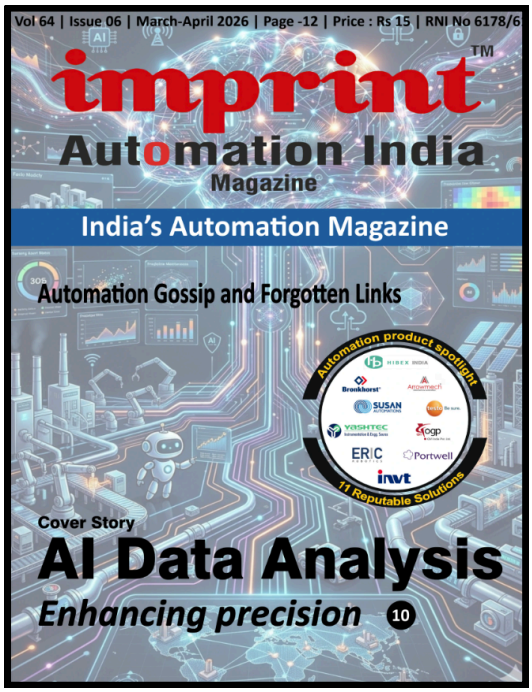
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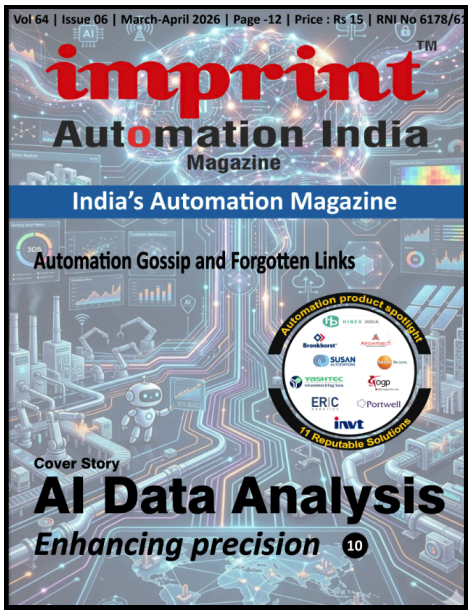
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