

# **Automation In Textile Industry Market Outlook 2026-2034: Market Share, and Growth Analysis By Component (Field devices, Control devices, Communication), By Solution (Hardware and software, Services)**

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## **Abstracts**

The Automation In Textile Industry Market is valued at USD 3.59 billion in 2025 and is projected to grow at a CAGR of 3.3% to reach USD 4.81 billion by 2034.

### Automation In Textile Industry Market

The automation in textile industry market spans fiber preparation, spinning, weaving/knitting, dyeing & finishing, cutting & sewing, inspection, packaging, and intralogistics - supported by MES/MOM, PLM-ERP integration, industrial IoT, machine vision, and AI. Producers pursue automation to stabilize quality, lift overall equipment effectiveness, and mitigate labor scarcity while meeting rising expectations for speed, customization, and sustainability. Core adoption themes include automated doffing and beam handling, warp preparation and loom monitoring, digital dyehouse controls with lab-to-bulk color consistency, recipe and chemical dosing systems, closed-loop tension and humidity control, automated fabric inspection, and smart cutting rooms linked to nesting software and CAD. AMRs/AGVs, cobots, and palletizing cells streamline material flow from bale to box, while predictive maintenance and energy management reduce unplanned downtime and utilities intensity. In apparel, flexible sewing cells, assisted operator guidance, and modular lines address short runs and frequent style changes; in home/tech textiles, continuous lines emphasize reproducibility and throughput. Compliance with chemical management frameworks and traceability requirements is pushing RFID/QR identity, digital batch records, and emissions and water reporting baked into production workflows. Competitive dynamics feature

integrated line OEMs, vision/AI specialists, robotics providers, and software platforms that orchestrate scheduling, quality, and maintenance. Buyers favor vendors able to retrofit legacy assets, offer guaranteed performance, and provide lifecycle services - from process tuning to operator training. As brands re-balance sourcing and explore nearshoring, factories invest in digitally connected, modular automation that can pivot between SKUs quickly, deliver first-pass yield, and make sustainability measurable.

## Automation In Textile Industry Market Key Insights

From islands of automation to connected value streams. Manufacturers are moving beyond single-machine upgrades toward end-to-end orchestration where planning, execution, quality, and maintenance data flow seamlessly. This reduces changeover friction and shortens design-to-delivery cycles.

Machine vision becomes the quality backbone. High-speed cameras and AI detect defects, shade variance, and pattern misalignment earlier, enabling automatic classing and targeted rework. Inline vision is increasingly paired with closed-loop controls to correct issues in real time.

Digital dyehouses close the color gap. Recipe management, automated dosing, and model-based temperature and liquor control improve reproducibility across fibers and blends. Tight lab-to-bulk correlation cuts re-dyeing, chemical use, and lead time.

Intralogistics is a hidden lever. AMRs/AGVs, overhead conveyors, and dynamic buffering balance upstream spinning/knitting with downstream finishing and packing. Material flow automation often unlocks more capacity than adding machines.

Sewing automation stays hybrid but advances. Soft-material handling remains challenging; however, guided operator stations, stitch analytics, template fixtures, and selective robotics lift throughput and consistency without losing flexibility.

Predictive maintenance earns rapid payback. Sensorized bearings, vacuum and air monitoring, and vibration analytics prevent loom and stenter failures. Libraries of failure signatures accelerate root-cause analysis and spare parts planning.

Data standardization decides scalability. Common data models across OEMs, OPC UA/MQTT connectivity, and API-ready MES enable plug-and-play of new cells and faster line reconfiguration, reducing vendor lock-in.

Sustainability is operationalized. Energy dashboards, heat recovery, water recirculation, and chemical accountability shift ESG from reporting to daily control. Procurement now scores bidders on verifiable reductions, not promises.

Workforce upskilling is integral. Digital work instructions, AR-assisted changeovers, and role-based dashboards raise first-time-right for new operators and reduce training time, stabilizing output quality in high-turnover environments.

Mass customization meets cost discipline. CAD-to-cut integration, nesting optimization, and dynamic scheduling enable small lots at near mass-production cost. Flexible automation is prioritized over hard tooling to protect future options.

## Automation In Textile Industry Market Regional Analysis

### North America

Nearshoring, demand for faster replenishment, and compliance pressure are catalyzing investments in connected cutting rooms, automated inspection, and dyehouse modernization. Brownfield facilities focus on retrofits that stabilize quality and reduce utilities rather than fully greenfield lines. Technical textiles and nonwovens lead adoption with high-reliability and traceability needs, while apparel pilots emphasize flexible cells and digital planning. Vendor selection favors service depth, cybersecurity for OT networks, and integration with existing enterprise systems.

### Europe

Producers navigate stringent environmental standards and high energy costs, prioritizing heat recovery, water recirculation, and recipe precision to limit rework. Automation projects concentrate on premium apparel, home, and technical textiles where reproducibility and documentation are non-negotiable. Brownfield modernization dominates, with digital twins and advanced controls unlocking capacity without expanding footprints. Interoperability and data sovereignty shape platform choices, and

workforce strategies emphasize human-machine collaboration and safety.

### Asia-Pacific

As the global production hub, the region blends high-volume lines with rapid style turnover. Investments target automated doffing, loom monitoring, dyeing controls, and smart cutting to manage labor constraints and quality variability. Large groups pursue standardized, multi-plant architectures with shared analytics and maintenance practices. Domestic brands and exporters alike adopt traceability and compliance reporting to meet buyer requirements, while local OEMs expand modular and cost-effective automation packages.

### Middle East & Africa

Integrated parks and new capacity in fibers, yarns, and finished goods emphasize continuous processes with robust utilities control and quality assurance. Automation helps counter climate and water constraints through precise dyeing and finishing. Governments and developers promote vertically integrated value chains, making intralogistics, packaging, and inspection core to startup reliability. Skill development and vendor after-sales support are decisive for sustained uptime.

### South & Central America

Regionalization and proximity to North American and European markets support selective nearshoring and modernization. Plants invest in smart cutting, fabric inspection, and dyehouse efficiency to improve speed-to-market and reduce rework. Economic cyclicalities favors modular upgrades and retrofits that deliver quick operational benefits. Partnerships with OEMs and integrators focus on operator training, spare parts availability, and phased digital roadmaps aligned to export opportunities.

## Automation In Textile Industry Market Segmentation

### By Component

Field devices

Control devices

Communication

## By Solution

Hardware and software

Services

## Key Market players

Siemens, ABB, Rockwell Automation, Schneider Electric, Mitsubishi Electric, Yaskawa Electric, FANUC, KUKA, Beckhoff Automation, Delta Electronics, Danfoss, PTC, Lectra, Saurer, Murata Machinery

## Automation In Textile Industry Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modelling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends. Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behaviour are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

## Automation In Textile Industry Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption. Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

## Countries Covered

## North America — Automation In Textile Industry market data and outlook to 2034

United States

Canada

Mexico

## Europe — Automation In Textile Industry market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

## Asia-Pacific — Automation In Textile Industry market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Automation In Textile Industry market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Automation In Textile Industry market data and outlook to 2034

Brazil

Argentina

Chile

Peru

\* We can include data and analysis of additional countries on demand.

### Research Methodology

This study combines primary inputs from industry experts across the Automation In Textile Industry value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

## Key Questions Addressed

What is the current and forecast market size of the Automation In Textile Industry industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

## Your Key Takeaways from the Automation In Textile Industry Market Report

Global Automation In Textile Industry market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Automation In Textile Industry trade, costs, and supply chains

Automation In Textile Industry market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Automation In Textile Industry market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Automation In Textile Industry market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Automation In Textile Industry supply chain analysis

Automation In Textile Industry trade analysis, Automation In Textile Industry market price analysis, and Automation In Textile Industry supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Automation In Textile Industry market news and developments

#### Additional Support

With the purchase of this report, you will receive

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Complimentary report update to incorporate the latest available data and the impact of recent market developments.

\* The updated report will be delivered within 3 working days

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