

# Textile Machinery Market Assessment, By Type [Spinning Machines, Knitting Machines, Finishing Machines, Ginning Machines, Dyeing Machines, Printing Machines, Others], By Application [Garments and Apparel, Household and Home Textiles, Technical Textiles, Others], By Distribution Channel [Direct, Indirect], Opportunities and Forecast, 2018-2032F

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### **Report description:**

Global textile machinery market is projected to witness a CAGR of 5.39% during the forecast period 2025-2032, growing from USD 35.21 billion in 2024 to USD 53.59 billion in 2032.

The textile machinery market is undergoing significant transformations driven by technological advancements and evolving market dynamics. One of the most important trends is the increasing integration of automation and robotics in textile manufacturing. This enhances precision and dramatically increases the rates of production. Robotic systems are now increasingly used in different stages, starting from spinning to weaving, then dyeing and finishing, to eliminate human error and optimize efficiency. Another crucial development is predictive maintenance technologies. Manufacturers can predict equipment breakdowns through data analytics and machine learning, allowing them to minimize downtime and allow operations to flow. This will increase the equipment's lifespan and ensure continuity in supply chains by adhering to predetermined production. Matters of sustainability are also changing the industry's approach. Already, some techniques, such as waterless dyeing, involve using supercritical carbon dioxide instead of water. Other examples of development toward a circular economy include the autonomous Al-enabled sorting systems for textile recycling, addressing the rising volumes of textile waste globally. There is a shift toward reshoring manufacturing operations. For example, U.S.-based companies are increasing domestic production to stabilize supply chains, a move influenced by recent geopolitical events and supply-chain disruptions.

This rising acceptance of locally fabricated textiles, fair production, and the integration of advanced machinery in local production units are also fueling market growth. The acceptance of markets embracing automation with predictive maintenance on the one

hand and sustainable methods on the other has led toward a shift by market dynamics themselves to localized supply chain production; hence, the idea is to meet evolving consumer trends.

For instance, in October 2024, Lectra SA (Lectra Group) launched Valia Fashion, an Al-powered digital platform that streamlines apparel production, from order processing to fabric cutting. Developed for Industry 4.0, it streamlines material utilization, automates processes, and fosters better teamwork. Valia Fashion assists manufacturers, subcontractors, and brands in increasing their agility, reducing expenses, and achieving sustainability objectives.

Higher Focus on Automation and Sustainability to Fuel Market Growth

Integrating advanced technologies such as automation, robotics, and AI has significantly improved the efficiency of textile machinery. Automated systems improve the production rate, reduce human errors, and provide real-time operations monitoring, increasing the demand for modern textile equipment. Integration of IoT (Internet of Things) further provides predictive maintenance with minimal downtime and productivity improvement.

Increased consumer awareness and regulatory demands for environmentally friendly products are driving the demand for sustainable textile machinery. Waterless dyeing techniques and energy-efficient systems have emerged as the latest innovation in this sector to address the industry's environmental footprint. The result has been a rising market for green technologies in the textile production industry.

For instance, in March 2024, Kyocera Corporation launched the 'TRUE BLUE TEXTILE' project based on a 'Wear to Save Water' fashion concept. To address environmental problems, including water pollution in the textile and clothing industries, Kyocera Corporation uses a new sustainable inkjet textile printer, "FOREARTH" which uses almost no water for textile printing. Growing Demand for Unique Textiles, Including Technical Textiles to Fuel Market Growth

The expanding application of technical textiles in healthcare, automotive, and construction sectors has fueled the demand for specialized machinery. These textiles demand sophisticated manufacturing processes, which has led to investments in innovative machinery to meet industry-specific requirements, thus driving market growth. The increasing global demand for fashion, home textiles, and industrial fabrics has increased the textile machinery market. Emerging markets in Asia-Pacific and increased urbanization worldwide are spurring the need for efficient and high-capacity machinery to cater to growing consumer demands. Governments across the globe understand the growing demand for technical textiles and printing. The system allows them to cater to various industries with the right equipment and supplies. Hence, government institutions are funding companies that work in a similar direction.

For instance, in December 2024, India's National Technical Textiles Mission's Empowered Programme Committee approved 2 Start-Ups under the Grant for Research & Entrepreneurship across Aspiring Innovators in Technical Textiles (GREAT) scheme. It has also approved a grant to 6 education institutes to introduce courses in Technical Textiles under 'General Guidelines for Enabling of Academic Institutes in Technical Textiles'. The authorized start-up projects concentrate on two important areas: medical textiles and sustainable textiles.

Higher Demand from E-Commerce to Make Garments and Apparel Segment Lead

Based on application, the garments and apparel segment leads the textile machinery market due to their rising global demand for fashion, home textiles, and industrial fabrics. The demand for efficient and high-capacity machinery in the Asia-Pacific emerging markets and increasing urbanization across the globe are driving the growth of textile machinery. The garment and apparel segment is the leading segment in the textile machinery market, significantly contributing to the global demand for textile products. This segment caters to various industries, such as fashion, sportswear, casual wear, and luxury clothing, and is, therefore, the largest consumer of textile machinery.

The primary driving forces behind this leadership are the fashion industry growth, an expanding world population, and increased disposable income, especially in developing economies. This segment also gains significance as it integrates advanced technologies such as CAD and 3D printing to create prototypes in less time and to make the production process more efficient. Further, the demand for customized garments has increased due to changing consumer tastes toward individualized and customized clothing, thereby bolstering the demand for modern textile machinery. Fast fashion trends and e-commerce growth have further fueled this segment by forcing manufacturers to speed up production and meet tight deadlines. The emerging economies in Asia-Pacific, including China, India, and Vietnam, are also important contributors, as they both produce and consume.

#### Asia-Pacific Leads in the Textile Machinery Market

Given its dominant position in textile production, Asia-Pacific spearheads the global textile machinery market. Several factors are driving this dominance. The region is home to the world's largest textile-manufacturing countries, which include China, India, Bangladesh, and Vietnam. These have emerged as global hubs for apparel, home textiles, and industrial fabrics, countries rich in raw materials with lower labor costs and government policies to promote industries and exports. Rapid urbanization, population growth, and increased consumer expenditure in the Asia-Pacific have substantially boosted demand for textiles. There is thus an immense demand for sophisticated textile machinery.

The adoption of modern technologies such as air jets and rapier textile machinery has enabled manufacturers to produce goods at higher efficiency and to international quality standards in the region. Investments in infrastructure and developing textile parks also play a crucial role, as the former provides integrated support facilities for textile manufacturing. While innovation, cost advantages, and high production capacities drive this market, Asia-Pacific will continue to dominate it with exports, supplemented by increasing domestic consumption.

For instance, in October 2024, Picanol N.V. exhibited a new rapier weaving machine at ITMA Asia + CITME, launching for the first time. The four Picanol weaving machines on display were Supermax and Ultimax rapier weaving machines and an OmniPlus-i Connect air-jet weaving machine.

#### Future Market Scenario (2025 [] 2032F)

Al and Machine Learning are likely to drive predictive analytics and enhance quality control in textile manufacturing.
 Automation and robotics are anticipated to revolutionize production efficiency by minimizing human intervention in repetitive tasks.

Digitalization, including 3D printing and CAD, will streamline design processes and improve supply chain management.
 Smart Textiles equipped with sensors and microchips will enable innovative applications in wearable technology and healthcare.
 Key Players Landscape and Outlook

The competitive strategy within the textile machinery market is increasingly focused on innovation, sustainability, and automation. Manufacturers invest heavily in research and development to create advanced machinery that enhances productivity and efficiency while minimizing environmental impact. This includes integrating smart technologies and automation into production processes, which not only streamline operations but also reduce reliance on manual labor, thereby addressing labor shortages and rising costs. Additionally, there is a growing emphasis on developing eco-friendly machinery that aligns with global sustainability trends, allowing companies to meet regulatory requirements and consumer demand for greener products. To maintain competitiveness, businesses are also expanding their product portfolios and enhancing customer service, ensuring they can offer tailored solutions that meet the diverse needs of textile manufacturers.

For instance, in October 2024, Saurer Intelligent Technology AG announced and showcased the next generation of Autoairo air spinning and Autocoro 11 rotor spinning technology at ITMA Asia 2024. The brand new Autocard SC 8 was shown to the public for the very first time. The latest Zinser 51 ring spinning machine and the PrimeTwister, a two-for-one twister, were demonstrated live on the booth.

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20.3.10. A.T.E. Private Limited

\*Companies mentioned above DO NOT hold any order as per market share and can be changed as per information available during research work.

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