



## PROSPECTS OF TEXTILES AUTOMATION

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**Abstract:** *The article explains the importance of the textile industry's transition to automation processes that these changes have brought to the industry. The article states that automated processes and new technologies play a major role in increasing the efficiency of the textile industry. This article highlights the efficiency, cost reduction, and quality improvement of automated processes. The article begins by tracing how the industry is changing through technological developments and robotics, and ends with a meeting on future technological prospects and innovations.*

**Keywords:** *Automation, technology, robotics, efficiency, effectiveness, innovation, potential,*

The textile industry is one of the industries with the most extensive experience of automation. In recent years, automated technologies and robotics have brought profound changes with their impact on this industry. This article analyzes the transition to automation of the textile industry, its prospects and future.

The textile industry plays an important role in our daily life. Clothes, textile products, handbags and many other products are basic necessities for people. Typically, this industry produces products on a larger scale in a shorter period of time using additional labor. However, automated technologies and robotics have played an important role in changing this industry in recent decades.

Automated technologies such as 3D printers, robots, and the Internet of Things (IoT) allow the automation of many processes in the textile industry. Robotics makes it possible to do more work than people in the production processes of products. And 3D printers perform their task in the production of light parts. IoT, on the other hand, enhances the exchange between products and equipment and helps to monitor processes.

Automation has opened new opportunities to this industry and there is a great need for it. The use of automation gives a confident face to innovations in an industry with extensive experience. These innovations help to increase the quality and development in the textile industry.

Automation of the textile industry opens wide opportunities for its prospects and future. Automated processes make industries efficient and effective. This reduces labor costs, increases quality and speeds up production processes. In the future, it is expected that new automated equipment and techniques will be produced, which will include further development and innovation of the textile industry.

The prospect of automation opens up opportunities to become more cost-effective or efficient. This will lead to the development of electronic technologies with high prospects. Automation helps distribute the position of companies in an independent environment, and this is associated with the need for quality time and effort.



The prospects of textile automation are making a big contribution to the textile industry today as a tool that a large enterprise has. This modern technology takes over electronic devices. Automation-specific programming tools allow for responsible work practices. For the textile industry, these techniques provide an innovative solution to the needs and new designs that work in perfect harmony with external materials. Such automated technology creates new jobs and increases the demand for workers. The first perspective of textile automation is to establish a unit of work in the production process. This is very important in ensuring maximum efficient and productive product preparation. Automated machines and technology will outsource work and help improve product quality. The second perspective is to study and provide automation technology. This is to ensure automatic workflow management and its better quality. This gives a good guarantee to purchase the constant quality of the product. The next perspective is to teach the politics of textile automation with innovative modern technology. It will further strengthen communication between industries and develop innovations. For the manufacturing industry, automation allows for less waste and higher quality products. From a closer look, the prospects of textile automation are very broad and have great potential for the development of the industry. This will greatly help the industry and open new development. It is necessary to pay a lot of attention to innovative solutions in helping the production of textile automation and waste production.

In conclusion, this article shows the impact of automation on the textile industry and its future prospects. Automated technologies and robotics are making the industry more efficient and innovative, allowing the industry to grow and expand. The transition of the textile industry to automation processes opens up great potential for the industry's transition to a new stage and future. Automated technologies and robotics play a major role in increasing the efficiency of the textile industry, reducing labor costs and ensuring high quality. Automated processes increase the efficiency and effectiveness of production, and this leads to further industrial development and innovation. In the future, the production of automated equipment and techniques is expected, which will create great opportunities for the transition to a new stage and further development of the textile industry. In general, automation processes in the textile industry make the industry more efficient and competitive, as well as increase its innovation potential and fill the innovation gap.

#### REFERENCES:

1. “Axborot Texnologiyalarining asosiy yo‘nalishlari” maqolasi Texnoman.uz saytida e‘lon qilingan.
2. “Sun‘iy intellekt – texnologik rivojlanish asosi” maqolasining nashr yili 2021 yil bo‘lib, yuz.uz saytida chop etilgan.
3. “Sanoat sensorli mashinaning dasturiy ta‘minot tizimini joriy etish va ...” maqolasi Newayt.com saytida joylashgan.



4. “RAQAMLI IQTISODIYOTDA SUN’IY INTELLEKT  
TEKNOLOGIYALARINING SAMARALI ...” maqolasi 2024-yil 3-martda Zenodo.org  
saytida nashr etilgan.
5. “Ishlab chiqarishni avtomatlashtirish” mavzusida Vikipediya sahifasi mavjud.
6. “Sanoat korxonalari ishlab chiqarish harajatlarini kamaytirishda ...” maqolasi  
2019-yil 24-oktabrda ejournal.tsue.uz saytida e’lon qilingan.
7. “QURILISHDA ISHCHI XODIMLARNING XAVFSIZLIGINI TA’MINLASH”  
maqolasi 2022 yilda European journal of life safety and stability (EJLSS) jurnalida chop  
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