

Frost Automation

Industrial Automation & Robotics

In this article we'd like to talk about a brief history of Industrial Automation specifically as it pertains to robotic automation and the effects it has had on industry and society.

Industrialization has been one of the most powerful forces that has transformed our society in recent centuries. Since the Industrial Revolution in the 18th century, the mass production of goods has become a reality and has fueled the economic growth of many nations.

However, in recent decades, industrialization has taken a gigantic leap thanks to the introduction of robots and automation. The introduction of these technologies has allowed greater efficiency in production and has improved the quality of products, while reducing production costs and increasing the competitiveness of companies.

Automation and robots have allowed the elimination of repetitive and dangerous tasks, which has improved working conditions and reduced the risk of occupational accidents. In addition, automation has also allowed for product customization, as production changes can be made more quickly and efficiently.

The use of robots and automation has also had a huge impact on the logistics and transportation industry. The implementation of automated transport systems has allowed greater efficiency in the supply chain, which has reduced delivery times and associated costs. Although the latest supply chain problems as exacerbated by the Covid-19 crisis have sparked a renewed interest in 'nearshoring' again, or more specifically bringing production back closer to where the final goods are consumed.

Despite the benefits that automation and robots can bring, there are also some concerns. One of the biggest challenges is the possible elimination of jobs. Automation and robots can replace certain tasks performed by human workers, which can have a negative impact on the local economy. However, whenever these repetitive type jobs are replaced by robots, it creates higher skilled jobs in the maintenance and operation of these automated robot systems. A very specific case in point is in the Coatings industry. Traditionally automotive car parts were painted by hand. This is hazardous to humans to be in a spray booth painting parts all day long. Human painters are usually well adept to learn how to teach robots how to paint, as they are already experts at painting. In this type of automation we can remove the person from the dangerous task and retrain him/her for a better job.

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companies, especially for small and medium-sized companies. At **Frost Automation**, we carry out a process so that your investment has a very prompt and punctual return. Contact us and modernize your industry to the maximum

In conclusion, automation and robots have had a significant impact on industrialization and have improved the efficiency and quality of production. While there are some challenges, it is important for companies to explore the use of these technologies to remain competitive in an increasingly demanding marketplace.