

India Industrial Automation - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029

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Report description:

The India Industrial Automation Market size is estimated at USD 15.12 billion in 2024, and is expected to reach USD 29.43 billion by 2029, growing at a CAGR of 14.26% during the forecast period (2024-2029).

Industrial automation refers to using control systems, like robots, computers, and information technologies, to handle several processes and machinery in an industry to replace human beings. It is the second step past mechanization in the scope of industrialization.

Key Highlights

- The Industrial Internet of Things and Industry 4.0 is at the center of the latest technological approaches for the evolution, production, and management of the complete logistics chain, also known as smart factory automation, and are dominating the trends in the industrial sector with machinery and devices being connected via the internet.
- Labeling equipment is a crucial component for production lines in several industries. In addition to the basic structure, the machines also feature an automatic label feeder to keep track of label length and retrieve it as the product changes size. These features are beneficial in reducing downtime, increasing productivity, and reducing costs.
- Moreover, The adoption of automated equipment in the healthcare industry is expected to grow, owing to the growing manufacturing sectors in India. Major trends, such as the growth of private healthcare providers, the expansion of drug manufacturing companies, and the rollout of universal healthcare, are expected to shape the pharmaceutical industry in the future.
- The installation and acquisition cost of an automation system for an intelligent factory represents approximately half of the total cost during its lifetime. Further, the frequent changes in networking and technology result in substantial cost increases, which is more than the initial investment, further restraining the adoption of industrial automation in India

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-The COVID-19 outbreak and lockdown restrictions worldwide severely affected industrial activities. The effects of the lockdown include labor shortages, disruptions in the supply chain, lack of availability of raw materials utilized in the manufacturing process, fluctuating prices that could force the production of the final product to increase and go beyond budget, shipping problems, etc.

India Industrial Automation Market Trends

HMI to Witness the Growth

- A Human-Machine Interface (HMI) is a user interface or dashboard whose primary function includes connecting a person to a machine, system, or device. HMI functions by communicating with Programmable Logic Controllers (PLCs) and input/output sensors to fetch and display important information in the form of graphs, charts, or digital dashboards, along with other functions such as viewing and managing alarms, and connecting with SCADA, ERP, and MES systems, all through one console. In the factory automation scope, major components that facilitate interaction with that machine include industrial control panels, industrial PC and display, machinery controls, touchscreens, keypads, switches, and software for controlling equipment.
- In industrial settings, HMIs are primarily utilized for Visually displaying data, tracking production time, trends, and tags, overseeing key performance indicators (KPIs), and monitoring machine inputs and outputs. These applications boost production rates, minimize hardware costs, ease managerial tasks, and reduce work-related accidents.
- HMI is extremely useful for industries related to manufacturing as it primarily needs customized programming according to the plant's specific requirements, and it is ready to monitor, control, and safeguard machines and operations without the need for human intervention in either simple or complex jobs.
- The growing use of HMI technology in all industrial organizations, such as energy, oil and gas, transportation, food and beverage, power, water and wastewater, manufacturing, recycling, and many more, as well as a wide range of the application of other companies to interact with their devices and optimize their industrial processes.

Factory Automation Market - Automotive Sector to Witness the Growth

- The automotive industry is one of the prominent sectors that hold a significant in the worldwide automated manufacturing facilities. It is observed that the production facilities of various automakers are automated to maintain accuracy and efficiency. Moreover, the growing trend of replacing conventional vehicles with EVs is expected to augment the automotive industry's demand further.
- According to the IBEF automobile industry report, the two-wheelers segment dominates the market in terms of volume due to a growing middle-class population, and a considerable percentage of India's population is young. Moreover, the rising interest of companies in examining the rural markets is further aiding the sector's growth. The growing logistics and passenger transportation industries are driving the demand for commercial vehicles. Future market growth is expected to be fueled by new trends, including the electrification of vehicles, particularly small passenger automobiles and three-wheelers.
- Furthermore, companies are using automated automotive assembly lines for manufacturing components such as motors, gearboxes, fuel systems, and pumps. Robotics and vision are best suited for creating ergonomic and efficient product lines that protect the human workforce from hazardous conditions while completing assembly quickly. Hence, the safety factor is also driving automation in the automotive industry of India.
- India is also a major auto exporter and has substantial export growth expectations for forecast period. Additionally, several initiatives by the Government of India, like the scrappage policy, Automotive Mission Plan 2026, and production-linked incentive schemes in the Indian market, are likely to make India a prominent player in the two-wheeler and four-wheeler markets.

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India Industrial Automation Industry Overview

India's industrial automation market is competitive due to multiple players, such as BHEL, ABB Limited, Grey Orange Pte Ltd, and Kardex India Storage Solutions Pvt. Ltd, Mitsubishi Electric, and more. Players adopt product innovations, partnerships, mergers, and acquisitions to increase their market shares and recyclability, further driving the market.

- June 2023 - The Schaefer Systems International Pvt. Ltd launched a fully automated piece-picking system with numerous innovative features the SSI Piece Picking application. This versatile solution includes dedicated smart software and boasts advanced functions such as object recognition using artificial intelligence (AI), pick-and-place, patented gripping point determination, and extremely gentle product handling.

- June 2023 -Mitsubishi Electric announced that its wholly owned subsidiary ICONICS, Inc., has formally agreed to completely acquire ICONICS UK, Ltd., which sells supervisory control and data acquisition (SCADA)1 software and develops related cloud applications. Mitsubishi Electric and ICONICS plan to leverage ICONICS UK's technology and to establish a Circular Digital-Engineering business model for factory-automation solutions that optimize factory equipment and systems

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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