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Smart Factory Market Size, Share & Trends Analysis Report By Field Devices (Sensors, Industrial Robots, Machine Vision Systems), By Technology (Distributed Control Systems, ERP, Human Machine Interface), By Application, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Smart Factory Market Growth & Trends

The global smart factory market size is anticipated treach USD 272.64 billion by 2030, according ta new report by Grand View Research, Inc. The market is projected tgrow at a CAGR of 10.0% from 2025 t2030. The market for smart factory has experienced remarkable growth in recent years, primarily attributed tseveral factors. These include the increasing adoption of Industry 4.0 concepts characterized by integrating digital technologies such as the Internet of Things (IoT), AI, Machine Learning (ML), and industrial automation. These technologies enhance operational efficiency and enable real-time data analysis, fostering agile and responsive manufacturing processes.

Moreover, the need for cost optimization and resource efficiency has prompted businesses tinvest in smart factory solutions, as they promise reduced downtime, minimized wastage, and improved resource allocation. Besides, the growing emphasis on sustainability and environmental concerns has led manufacturers tgravitate towards the adoption of smart factories tmonitor and optimize energy consumption and reduce their carbon footprint.

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Additionally, technological advancements such as integrating connected devices with IoT and cloud computing act as development factors. Automated material handling, electronic and mechanical assembly, and product testing are all made easier with these cutting-edge technologies. Force sensors are alsused in smart factories tmaintain constant force during polishing, buffing, and deburring, collect data for statistical process control (SPC) systems, and ensure proper component insertion. Additional aspects, including the inclusion of the Industrial Internet of Things (IIoT) and the growing usage of smart factory solutions for the production of complex automotive and medical components, are expected tpropel the smart factory sector during the forecast period.

Several companies operating in the market for smart factory adopt strategies such as mergers, acquisitions, partnerships, and innovations tenhance their product offerings tcater tthe larger customer base and strengthen their foothold in the industry. For instance, in October 2022, ABB Robotics launched the IRB 1010, the smallest-ever industrial robot. The compact system is developed thelp electronics manufacturers improve the production of devices such as smart watches, sensors, earphones, and health trackers.

This industrial robot by ABB Robotics alscomes with a high payload capacity and accuracy. The compact system is created tassist electronics manufacturers in enhancing their production of devices such as earphones, health trackers, smartwatches, and sensors through automation. Such advancements are poised tfuel the growth of the smart factory industry in the coming years.

Smart Factory Market Report Highlights

Based on technology, the Distributed Control Systems (DCS) segment accounted for the largest market share in 2024. This is attributed tthe growing investments from the industrial sector, such as food & beverage, mining & metal, metallurgy, and electronics, in developing economies

Based on field devices, the sensors segment is expected texpand at the highest CAGR by 2030, owing ttheir increasing self-sufficiency with low power consumption and integrated computing abilities

Based on application, the automotive segment accounted for the largest revenue share in 2024 and is expected tcontinue the

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same trend over the forecast period. Automotive manufacturers are investing heavily in the development of smart manufacturing and automation toptimize production and reduce operating costs

The Asia Pacific regional market accounted for the largest revenue share in 2024. This is attributed tthe heavy investments of developing countries in smart technologies tkeep abreast of international manufacturing standards and trends

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