

AI In Industrial Automation Market Size, Share & Trends Analysis Report By Type, By Application, By End-use, By Region, And Segment Forecasts, 2025 - 2033

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Abstracts

The global AI in industrial automation market size was estimated at USD 20.02 billion in 2024 and is projected to reach USD 90.28 billion by 2033, growing at a CAGR of 18.6% from 2025 to 2033. The market growth is primarily driven by the increasing adoption of predictive maintenance to enhance operational efficiency and reduce downtime, the integration of AI-enabled robotics to streamline production workflows, the deployment of machine vision systems for precise quality control, and the growing utilization of digital twin technology to optimize manufacturing processes and resource management.

The growing demand for AI-driven automation solutions is emerging as a key driver of industrial transformation worldwide. Organizations are increasingly adopting predictive maintenance technologies to enhance asset reliability and minimize unplanned downtime. The integration of AI-powered robotics is driving significant improvements in production efficiency, precision, and scalability. Furthermore, the deployment of advanced machine vision systems is enabling real-time quality control and reducing human error in manufacturing processes. Additionally, the rising adoption of digital twin technology is fostering data-driven operations, optimizing resource utilization, and strengthening overall operational agility.

The growing demand for predictive maintenance is transforming the industrial automation landscape by enabling companies to anticipate equipment failures before they occur. AI-driven analytics are helping organizations monitor real-time machine data and optimize maintenance schedules, significantly reducing operational downtime. This proactive approach enhances equipment lifespan while improving resource allocation

and cost efficiency. Manufacturers are increasingly integrating AI algorithms into their maintenance systems to achieve greater operational reliability. As a result, predictive maintenance is becoming a critical driver of competitiveness and sustainability in modern industrial operations.

AI in industrial automation industry is experiencing rapid growth due to the growing demand for machine vision systems in quality inspection processes. AI-based vision technologies enable real-time detection of defects, deviations, and irregularities with high precision and speed. These systems improve production quality while reducing dependency on manual inspection and minimizing human error. Manufacturers are leveraging deep learning-based vision solutions to comply with stringent quality and safety standards. As industries prioritize consistency and accuracy, machine vision is becoming a key enabler of smarter, data-driven manufacturing.

Global AI In Industrial Automation Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends and opportunities in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global AI in industrial automation market report based on type, application, end use, and region:

Type Outlook (Revenue, USD Million, 2021 - 2033)

Deep Learning

Machine Learning

Natural Language Processing (NLP)

Machine Vision

Others

Application Outlook (Revenue, USD Million, 2021 - 2033)

Material Movement

Predictive Maintenance & Machinery Inspection

Production Planning

Field Services

Quality Control & Reclamation

Others

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Manufacturing

Automotive

Energy & Utilities

Healthcare

Retail

Aerospace & Defense

Other

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

Japan

India

Australia

South Korea

Latin America

Brazil

Middle East & Africa (MEA)

KSA

UAE

South Africa

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