

Global Robot Automation Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Robot Automation market size is predicted to grow from US\$ 179215 million in 2025 to US\$ 315798 million in 2032; it is expected to grow at a CAGR of 8.5% from 2026 to 2032.

Robotic automation refers to a comprehensive intelligent manufacturing technology system that utilizes industrial robots, collaborative robots, mobile robots, machine vision, artificial intelligence (AI), motion control systems, sensors, PLCs, industrial software, and digital control platforms to automate production, logistics, inspection, assembly, handling, welding, packaging, warehousing, and service processes. Robotic automation encompasses not only the robot itself but also complete solutions including robot workstations, automated production lines, end effectors, visual recognition, intelligent scheduling systems, digital twins, and industrial internet platforms. Its core objectives are to improve production efficiency, reduce labor costs, enhance product consistency, improve safety, and achieve flexible manufacturing. Robotic automation is widely used in industries such as automotive manufacturing, 3C electronics, semiconductors, lithium batteries, photovoltaics, food and beverage, pharmaceuticals, warehousing and logistics, aerospace, metal processing, medical, commercial services, and smart retail, serving as a crucial infrastructure for intelligent manufacturing and Industry 4.0.

The robotic automation industry is currently experiencing rapid development driven by global manufacturing upgrades and the AI-driven intelligent wave, and is poised to become one of the core industries of advanced manufacturing and the intelligent economy over the next decade. On the one hand, rising global labor costs, an aging population, and a shortage of skilled workers are driving manufacturing companies to continuously increase their automation penetration rates. On the other hand, the

development of artificial intelligence, large-scale models, machine vision, digital twins, edge computing, and 5G communication is enabling robots to evolve from traditional 'fixed program execution' to 'autonomous perception, autonomous decision-making, and autonomous collaboration.' The explosive growth of emerging industries such as new energy vehicles, power batteries, semiconductors, AI servers, and photovoltaic energy storage has also significantly boosted the demand for robot automation. Meanwhile, collaborative robots, humanoid robots, warehousing robots, medical robots, and service robots are opening up new market opportunities. In the future, robot automation will gradually expand from traditional industrial scenarios to logistics, commerce, healthcare, and home and urban infrastructure, indicating very strong long-term growth certainty for the industry.

United States market for Robot Automation is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Robot Automation is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Robot Automation is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Robot Automation players cover FANUC, Yaskawa Electric, Kawasaki Robotics, DENSO Robotics, OMRON, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the 'Robot Automation Industry Forecast' looks at past sales and reviews total world Robot Automation sales in 2025, providing a comprehensive analysis by region and market sector of projected Robot Automation sales for 2026 through 2032. With Robot Automation sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Robot Automation industry.

This Insight Report provides a comprehensive analysis of the global Robot Automation landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Robot Automation portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Robot Automation market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Robot Automation and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Robot Automation.

This report presents a comprehensive overview, market shares, and growth opportunities of Robot Automation market by product type, application, key players and key regions and countries.

Segmentation by Type:

Industrial Robots

Commercial Robots

Medical Robots

Specialty Robots

Others

Segmentation by Automation Functions:

Material Handling Automation

Welding Automation

Assembly Automation

Painting Automation

Inspection Automation

Packaging Automation

Warehousing Automation

Sorting Automation

Segmentation by Application:

Automotive Manufacturing

Electronics and Semiconductors

Batteries

Photovoltaics

Food and Beverage

Pharmaceuticals & Medical

Aerospace

Metal Processing

Warehousing & Logistics

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

FANUC

Yaskawa Electric

Kawasaki Robotics

DENSO Robotics

OMRON

Mitsubishi Electric

Epson Robots

Rockwell Automation

Teradyne

Boston Dynamics

Tesla

Symbotic

Agility Robotics

ABB Robotics

KUKA

Comau

Stäubli Robotics

Universal Robots

Mobile Industrial Robots?MiR?

Siemens

Hyundai Robotics

Rainbow Robotics

Doosan Robotics

Hanwha Robotics

LG Electronics

SIASUN

Estun Automation

EFFORT

JAKA Robotics

AUBO Robotics

Dobot

Mech-Mind Robotics

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