

Global Robot Automation Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Robot Automation market size was valued at US\$ 188504 million in 2025 and is forecast to a readjusted size of US\$ 323105 million by 2032 with a CAGR of 8.0% during review period.

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.

This report is a detailed and comprehensive analysis for global Robot Automation market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Robot Automation market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Robot Automation market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Robot Automation market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Robot Automation market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Robot Automation

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Robot Automation market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include FANUC, Yaskawa Electric, Kawasaki Robotics, DENSO Robotics, OMRON, Mitsubishi Electric, Epson Robots, Rockwell Automation, Teradyne, Boston Dynamics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Robot Automation market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Industrial Robots

Commercial Robots

Medical Robots

Specialty Robots

Others

Market segment by Automation Functions

Material Handling Automation

Welding Automation

Assembly Automation

Painting Automation

Inspection Automation

Packaging Automation

Warehousing Automation

Sorting Automation

Market segment by Application

Automotive Manufacturing

Electronics and Semiconductors

Batteries

Photovoltaics

Food and Beverage

Pharmaceuticals & Medical

Aerospace

Metal Processing

Warehousing & Logistics

Others

Market segment by players, this report covers

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

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Robot Automation product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Robot Automation, with revenue, gross margin, and global market share of Robot Automation from 2021 to 2026.

Chapter 3, the Robot Automation competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Robot Automation market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Robot Automation.

Chapter 13, to describe Robot Automation research findings and conclusion.

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