

Global Smart Robots Market Size study & Forecast, by Components and Vertical, and Regional Forecasts 2025-2035

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Abstracts

Global Smart Robots Market is valued approximately at USD 4.42 billion in 2024 and is anticipated to grow with an impressive CAGR of 19.86% over the forecast period 2025–2035. Smart robots—self-operating systems embedded with machine learning, cognitive computing, and real-time sensors—are transforming the industrial landscape through their ability to autonomously adapt, learn, and collaborate. These intelligent machines are not only streamlining workflows and reducing human intervention in hazardous tasks but also significantly enhancing operational agility across sectors such as automotive manufacturing, electronics, and even residential environments. The growing emphasis on automation to minimize downtime, optimize efficiency, and achieve precision is bolstering the uptake of smart robots.

With the proliferation of IoT and AI-integrated robotic frameworks, demand is rising steeply for robots that can perform predictive maintenance, interact with dynamic environments, and make autonomous decisions. The market is witnessing strong traction from advanced robotics applications—especially in high-speed assembly lines, automated logistics, and collaborative human-machine workspaces. In addition, increasing labor shortages in developed countries, along with the soaring need for hygienic automation in post-pandemic economies, are compelling enterprises to scale smart robot deployment across the value chain. However, high initial investments and interoperability complexities between legacy systems and new AI-enabled robotics can pose challenges in seamless adoption.

Geographically, North America currently commands a significant market share, driven by a highly digitized industrial base and extensive R&D in AI robotics across the United States and Canada. Government-led initiatives to revive domestic manufacturing and

the fast penetration of smart homes are also contributing to the region's dominance. Meanwhile, Asia Pacific is forecasted to witness the fastest growth, powered by rapid industrialization, aggressive factory automation programs in countries like China, Japan, and South Korea, and robust electronics manufacturing ecosystems. Europe remains a key contributor as well, owing to its strong emphasis on smart factories, stringent labor safety regulations, and adoption of Industry 5.0 principles in automotive and electronics verticals.

Major market player included in this report are:

ABB Ltd.

Fanuc Corporation

Yaskawa Electric Corporation

KUKA AG

iRobot Corporation

Amazon Robotics

Honda Motor Co., Ltd.

Samsung Electronics Co., Ltd.

SoftBank Robotics

Hanson Robotics

Omron Corporation

LG Electronics Inc.

Intuitive Surgical, Inc.

Teradyne Inc.

Seiko Epson Corporation

Global Smart Robots Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players.

The detailed segments and sub-segments of the market are explained below:

By Components:

Actuators

Sensors

Power Source

Control Systems

By Vertical:

Automotive

Manufacturing

Electrical and Electronics

Food and Beverages

Chemical

Residential

Entertainment

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL SMART ROBOTS MARKET REPORT SCOPE & METHODOLOGY

- 1.1. Research Objective
- 1.2. Research Methodology
 - 1.2.1. Forecast Model
 - 1.2.2. Desk Research
 - 1.2.3. Top-Down and Bottom-Up Approach
- 1.3. Research Attributes
- 1.4. Scope of the Study
 - 1.4.1. Market Definition
 - 1.4.2. Market Segmentation
- 1.5. Research Assumption
 - 1.5.1. Inclusion & Exclusion
 - 1.5.2. Limitations
 - 1.5.3. Years Considered for the Study

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. CEO/CXO Standpoint
- 2.2. Strategic Insights
- 2.3. ESG Analysis
- 2.4. Key Findings

CHAPTER 3. GLOBAL SMART ROBOTS MARKET FORCES ANALYSIS

- 3.1. Market Forces Shaping the Global Smart Robots Market (2024–2035)
- 3.2. Drivers
 - 3.2.1. Proliferation of IoT- and AI-Integrated Robotic Frameworks (Key Driver)
 - 3.2.2. Rising Labor Shortages and Need for Automation (Key Driver)
 - 3.2.3. Demand for Predictive Maintenance and Real-Time Adaptation (Key Driver)
- 3.3. Restraints
 - 3.3.1. High Initial Capital Expenditure (Key Restraint)
 - 3.3.2. Interoperability Complexities with Legacy Systems (Key Restraint)
- 3.4. Opportunities
 - 3.4.1. Expansion of Collaborative Robotics and Industry 5.0 Initiatives (Key Opportunity)

3.4.2. Surge in Hygienic Automation Post-Pandemic (Key Opportunity)

CHAPTER 4. GLOBAL SMART ROBOTS INDUSTRY ANALYSIS

4.1. Porter's Five Forces Model

- 4.1.1. Bargaining Power of Buyers
- 4.1.2. Bargaining Power of Suppliers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry

4.2. Porter's Five Forces Forecast Model (2024–2035)

4.3. PESTEL Analysis

- 4.3.1. Political
- 4.3.2. Economic
- 4.3.3. Social
- 4.3.4. Technological
- 4.3.5. Environmental
- 4.3.6. Legal

4.4. Top Investment Opportunities

4.5. Top Winning Strategies (2025)

4.6. Market Share Analysis (2024–2025)

4.7. Global Pricing Analysis and Trends 2025

4.8. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL SMART ROBOTS MARKET SIZE & FORECASTS BY COMPONENTS 2025–2035

5.1. Market Overview

5.2. Actuators

5.3. Sensors

5.4. Power Source

5.5. Control Systems

CHAPTER 6. GLOBAL SMART ROBOTS MARKET SIZE & FORECASTS BY VERTICAL 2025–2035

6.1. Market Overview

6.2. Automotive

6.3. Manufacturing

- 6.4. Electrical and Electronics
- 6.5. Food and Beverages
- 6.6. Chemical
- 6.7. Residential
- 6.8. Entertainment

CHAPTER 7. GLOBAL SMART ROBOTS MARKET SIZE & FORECASTS BY REGION 2025–2035

- 7.1. Regional Market Snapshot
- 7.2. Top Leading & Emerging Countries
- 7.3. North America
 - 7.3.1. U.S. Smart Robots Market
 - 7.3.1.1. Components breakdown size & forecasts, 2025–2035
 - 7.3.1.2. Vertical breakdown size & forecasts, 2025–2035
 - 7.3.2. Canada Smart Robots Market
 - 7.3.2.1. Components breakdown size & forecasts, 2025–2035
 - 7.3.2.2. Vertical breakdown size & forecasts, 2025–2035
- 7.4. Europe
 - 7.4.1. UK Smart Robots Market
 - 7.4.1.1. Components breakdown size & forecasts, 2025–2035
 - 7.4.1.2. Vertical breakdown size & forecasts, 2025–2035
 - 7.4.2. Germany Smart Robots Market
 - 7.4.2.1. Components breakdown size & forecasts, 2025–2035
 - 7.4.2.2. Vertical breakdown size & forecasts, 2025–2035
 - 7.4.3. France Smart Robots Market
 - 7.4.3.1. Components breakdown size & forecasts, 2025–2035
 - 7.4.3.2. Vertical breakdown size & forecasts, 2025–2035
 - 7.4.4. Spain Smart Robots Market
 - 7.4.4.1. Components breakdown size & forecasts, 2025–2035
 - 7.4.4.2. Vertical breakdown size & forecasts, 2025–2035
 - 7.4.5. Italy Smart Robots Market
 - 7.4.5.1. Components breakdown size & forecasts, 2025–2035
 - 7.4.5.2. Vertical breakdown size & forecasts, 2025–2035
 - 7.4.6. Rest of Europe Smart Robots Market
 - 7.4.6.1. Components breakdown size & forecasts, 2025–2035
 - 7.4.6.2. Vertical breakdown size & forecasts, 2025–2035
- 7.5. Asia Pacific
 - 7.5.1. China Smart Robots Market

- 7.5.1.1. Components breakdown size & forecasts, 2025–2035
- 7.5.1.2. Vertical breakdown size & forecasts, 2025–2035
- 7.5.2. India Smart Robots Market
 - 7.5.2.1. Components breakdown size & forecasts, 2025–2035
 - 7.5.2.2. Vertical breakdown size & forecasts, 2025–2035
- 7.5.3. Japan Smart Robots Market
 - 7.5.3.1. Components breakdown size & forecasts, 2025–2035
 - 7.5.3.2. Vertical breakdown size & forecasts, 2025–2035
- 7.5.4. Australia Smart Robots Market
 - 7.5.4.1. Components breakdown size & forecasts, 2025–2035
 - 7.5.4.2. Vertical breakdown size & forecasts, 2025–2035
- 7.5.5. South Korea Smart Robots Market
 - 7.5.5.1. Components breakdown size & forecasts, 2025–2035
 - 7.5.5.2. Vertical breakdown size & forecasts, 2025–2035
- 7.5.6. Rest of Asia Pacific Smart Robots Market
 - 7.5.6.1. Components breakdown size & forecasts, 2025–2035
 - 7.5.6.2. Vertical breakdown size & forecasts, 2025–2035
- 7.6. Latin America
 - 7.6.1. Brazil Smart Robots Market
 - 7.6.1.1. Components breakdown size & forecasts, 2025–2035
 - 7.6.1.2. Vertical breakdown size & forecasts, 2025–2035
 - 7.6.2. Mexico Smart Robots Market
 - 7.6.2.1. Components breakdown size & forecasts, 2025–2035
 - 7.6.2.2. Vertical breakdown size & forecasts, 2025–2035
- 7.7. Middle East & Africa
 - 7.7.1. UAE Smart Robots Market
 - 7.7.1.1. Components breakdown size & forecasts, 2025–2035
 - 7.7.1.2. Vertical breakdown size & forecasts, 2025–2035
 - 7.7.2. Saudi Arabia Smart Robots Market
 - 7.7.2.1. Components breakdown size & forecasts, 2025–2035
 - 7.7.2.2. Vertical breakdown size & forecasts, 2025–2035
 - 7.7.3. South Africa Smart Robots Market
 - 7.7.3.1. Components breakdown size & forecasts, 2025–2035
 - 7.7.3.2. Vertical breakdown size & forecasts, 2025–2035
 - 7.7.4. Rest of Middle East & Africa Smart Robots Market
 - 7.7.4.1. Components breakdown size & forecasts, 2025–2035
 - 7.7.4.2. Vertical breakdown size & forecasts, 2025–2035

CHAPTER 8. COMPETITIVE INTELLIGENCE

- 8.1. Top Market Strategies
- 8.2. ABB Ltd.
 - 8.2.1. Company Overview
 - 8.2.2. Key Executives
 - 8.2.3. Company Snapshot
 - 8.2.4. Financial Performance (Subject to Data Availability)
 - 8.2.5. Product/Services Portfolio
 - 8.2.6. Recent Development
 - 8.2.7. Market Strategies
 - 8.2.8. SWOT Analysis
- 8.3. Fanuc Corporation
- 8.4. Yaskawa Electric Corporation
- 8.5. KUKA AG
- 8.6. iRobot Corporation
- 8.7. Amazon Robotics
- 8.8. Honda Motor Co., Ltd.
- 8.9. Samsung Electronics Co., Ltd.
- 8.10. SoftBank Robotics
- 8.11. Hanson Robotics
- 8.12. Omron Corporation
- 8.13. LG Electronics Inc.
- 8.14. Intuitive Surgical, Inc.
- 8.15. Teradyne Inc.
- 8.16. Seiko Epson Corporation

List Of Tables

LIST OF TABLES

Table 1. Global Smart Robots Market, Report Scope

Table 2. Global Smart Robots Market Estimates & Forecasts By Components
2024–2035

Table 3. Global Smart Robots Market Estimates & Forecasts By Vertical 2024–2035

Table 4. Global Smart Robots Market Estimates & Forecasts By Region 2024–2035

Table 5. U.S. Smart Robots Market Estimates & Forecasts, 2024–2035

Table 6. Canada Smart Robots Market Estimates & Forecasts, 2024–2035

Table 7. UK Smart Robots Market Estimates & Forecasts, 2024–2035

Table 8. Germany Smart Robots Market Estimates & Forecasts, 2024–2035

Table 9. France Smart Robots Market Estimates & Forecasts, 2024–2035

Table 10. Spain Smart Robots Market Estimates & Forecasts, 2024–2035

Table 11. Italy Smart Robots Market Estimates & Forecasts, 2024–2035

Table 12. Rest of Europe Smart Robots Market Estimates & Forecasts, 2024–2035

Table 13. China Smart Robots Market Estimates & Forecasts, 2024–2035

Table 14. India Smart Robots Market Estimates & Forecasts, 2024–2035

Table 15. Japan Smart Robots Market Estimates & Forecasts, 2024–2035

Table 16. Australia Smart Robots Market Estimates & Forecasts, 2024–2035

Table 17. South Korea Smart Robots Market Estimates & Forecasts, 2024–2035

Table 18. Rest of Asia Pacific Smart Robots Market Estimates & Forecasts, 2024–2035

Table 19. Brazil Smart Robots Market Estimates & Forecasts, 2024–2035

Table 20. Mexico Smart Robots Market Estimates & Forecasts, 2024–2035

Table 21. UAE Smart Robots Market Estimates & Forecasts, 2024–2035

Table 22. Saudi Arabia Smart Robots Market Estimates & Forecasts, 2024–2035

Table 23. South Africa Smart Robots Market Estimates & Forecasts, 2024–2035

Table 24. Rest of Middle East & Africa Smart Robots Market Estimates & Forecasts,
2024–2035

List Of Figures

LIST OF FIGURES

- Fig 1. Global Smart Robots Market, Research Methodology
- Fig 2. Global Smart Robots Market, Market Estimation Techniques
- Fig 3. Global Market Size Estimates & Forecast Methods
- Fig 4. Global Smart Robots Market, Key Trends 2025
- Fig 5. Global Smart Robots Market, Growth Prospects 2024–2035
- Fig 6. Global Smart Robots Market, Porter's Five Forces Model
- Fig 7. Global Smart Robots Market, PESTEL Analysis
- Fig 8. Global Smart Robots Market, Value Chain Analysis
- Fig 9. Smart Robots Market By Components, 2025 & 2035
- Fig 10. Smart Robots Market By Vertical, 2025 & 2035
- Fig 11. Smart Robots Market By Region, 2025 & 2035
- Fig 12. North America Smart Robots Market, 2025 & 2035
- Fig 13. Europe Smart Robots Market, 2025 & 2035
- Fig 14. Asia Pacific Smart Robots Market, 2025 & 2035
- Fig 15. Latin America Smart Robots Market, 2025 & 2035
- Fig 16. Middle East & Africa Smart Robots Market, 2025 & 2035
- Fig 17. Global Smart Robots Market, Company Market Share Analysis (2025)

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