

Global Automatic Avoidance Robot Market Research Report 2026(Status and Outlook)

<https://marketpublishers.com/r/G01B67C19EFCEN.html>

Date: May 2026

Pages: 158

Price: US\$ 3,200.00 (Single User License)

ID: G01B67C19EFCEN

Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Automatic Avoidance Robot competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. By 2024, global production of automatic avoidance robots is approximately 1 million units, with an average selling price of \$25,900 per unit. Automatic avoidance robots are a type of intelligent mobile device with autonomous navigation and obstacle avoidance capabilities. They typically integrate multiple sensors (such as LiDAR, ultrasonic, infrared, and cameras) and algorithms (such as SLAM, path planning, and dynamic obstacle avoidance) to achieve safe and efficient movement in complex environments. Their core function is to perceive their surroundings in real time, identify obstacles and people, and adjust their paths based on pre-set logic or AI models to avoid collisions. These robots are widely used in industrial, logistics, security, and healthcare scenarios, and are particularly well-suited for tasks requiring frequent interaction in dynamic environments. Automatic avoidance robots rely on multiple key technologies to build their "perception-decision-execution" capabilities. The upstream supply chain includes Velodyne's LiDAR sensors, NVIDIA's control chips, Maxon's motor drives, dual-loop transmission reducers, the ROS software platform, Quectel's communication modules, CATL's battery systems, and SABIC's polymer structural materials. These core components collectively support the robot's autonomous obstacle avoidance and navigation capabilities in complex environments. With the maturity of AI and SLAM technologies, automatic obstacle avoidance has become a fundamental requirement for robotic systems, driving their large-scale application in dynamic scenarios.

The global Automatic Avoidance Robot market size was estimated at USD 25978.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of

11.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Automatic Avoidance Robot market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Automatic Avoidance Robot market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Automatic Avoidance Robot market.

Global Automatic Avoidance Robot Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Boston Dynamics

ABB

KUKA

FANUC

Yaskawa

Omron

Geek+

Hikvision Robotics

DJI

Siasun

MiR

Reeman

Xiaomi

Unitree

Lanxin Robotics

YOUIINS

Market Segmentation (by Type)

Wheeled Robots

Tracked Robots

Legged Robots

Market Segmentation (by Application)

Industrial Manufacturing

Warehousing & Logistics

Medical Institutions

Others

Geographic Segmentation

North America (USA, Canada, Mexico)

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

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

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Automatic Avoidance Robot Market

Overview of the regional outlook of the Automatic Avoidance Robot Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Automatic Avoidance Robot Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Automatic Avoidance Robot, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Automatic Avoidance Robot

1.2 Key Market Segments

1.2.1 Automatic Avoidance Robot Segment by Type

1.2.2 Automatic Avoidance Robot Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 AUTOMATIC AVOIDANCE ROBOT MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Automatic Avoidance Robot Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Automatic Avoidance Robot Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 AUTOMATIC AVOIDANCE ROBOT MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Automatic Avoidance Robot Product Life Cycle

3.3 Global Automatic Avoidance Robot Sales by Manufacturers (2020-2025)

3.4 Global Automatic Avoidance Robot Revenue Market Share by Manufacturers (2020-2025)

3.5 Automatic Avoidance Robot Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Automatic Avoidance Robot Average Price by Manufacturers (2020-2025)

3.7 Manufacturers' Manufacturing Sites, Areas Served, and Product Types

3.8 Automatic Avoidance Robot Market Competitive Situation and Trends

3.8.1 Automatic Avoidance Robot Market Concentration Rate

3.8.2 Global 5 and 10 Largest Automatic Avoidance Robot Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 AUTOMATIC AVOIDANCE ROBOT INDUSTRY CHAIN ANALYSIS

4.1 Automatic Avoidance Robot Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF AUTOMATIC AVOIDANCE ROBOT MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Automatic Avoidance Robot Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy – April 2025

5.6.3 Global Trade Frictions and Their Impacts to Automatic Avoidance Robot Market

5.7 ESG Ratings of Leading Companies

6 AUTOMATIC AVOIDANCE ROBOT MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Automatic Avoidance Robot Sales Market Share by Type (2020-2025)

6.3 Global Automatic Avoidance Robot Market Size by Type (2020-2025)

6.4 Global Automatic Avoidance Robot Price by Type (2020-2025)

7 AUTOMATIC AVOIDANCE ROBOT MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Automatic Avoidance Robot Market Sales by Application (2020-2025)
- 7.3 Global Automatic Avoidance Robot Market Size (M USD) by Application (2020-2025)
- 7.4 Global Automatic Avoidance Robot Sales Growth Rate by Application (2020-2025)

8 AUTOMATIC AVOIDANCE ROBOT MARKET SALES BY REGION

- 8.1 Global Automatic Avoidance Robot Sales by Region
 - 8.1.1 Global Automatic Avoidance Robot Sales by Region
 - 8.1.2 Global Automatic Avoidance Robot Sales Market Share by Region
- 8.2 Global Automatic Avoidance Robot Market Size by Region
 - 8.2.1 Global Automatic Avoidance Robot Market Size by Region
 - 8.2.2 Global Automatic Avoidance Robot Market Size by Region
- 8.3 North America
 - 8.3.1 North America Automatic Avoidance Robot Sales by Country
 - 8.3.2 North America Automatic Avoidance Robot Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Automatic Avoidance Robot Sales by Country
 - 8.4.2 Europe Automatic Avoidance Robot Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Automatic Avoidance Robot Sales by Region
 - 8.5.2 Asia Pacific Automatic Avoidance Robot Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Automatic Avoidance Robot Sales by Country

8.6.2 South America Automatic Avoidance Robot Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Automatic Avoidance Robot Sales by Region

8.7.2 Middle East and Africa Automatic Avoidance Robot Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 AUTOMATIC AVOIDANCE ROBOT MARKET PRODUCTION BY REGION

9.1 Global Production of Automatic Avoidance Robot by Region(2020-2025)

9.2 Global Automatic Avoidance Robot Revenue Market Share by Region (2020-2025)

9.3 Global Automatic Avoidance Robot Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Automatic Avoidance Robot Production

9.4.1 North America Automatic Avoidance Robot Production Growth Rate (2020-2025)

9.4.2 North America Automatic Avoidance Robot Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Automatic Avoidance Robot Production

9.5.1 Europe Automatic Avoidance Robot Production Growth Rate (2020-2025)

9.5.2 Europe Automatic Avoidance Robot Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Automatic Avoidance Robot Production (2020-2025)

9.6.1 Japan Automatic Avoidance Robot Production Growth Rate (2020-2025)

9.6.2 Japan Automatic Avoidance Robot Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Automatic Avoidance Robot Production (2020-2025)

9.7.1 China Automatic Avoidance Robot Production Growth Rate (2020-2025)

9.7.2 China Automatic Avoidance Robot Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Boston Dynamics

- 10.1.1 Boston Dynamics Basic Information
- 10.1.2 Boston Dynamics Automatic Avoidance Robot Product Overview
- 10.1.3 Boston Dynamics Automatic Avoidance Robot Product Market Performance
- 10.1.4 Boston Dynamics Business Overview
- 10.1.5 Boston Dynamics SWOT Analysis
- 10.1.6 Boston Dynamics Recent Developments
- 10.2 ABB
 - 10.2.1 ABB Basic Information
 - 10.2.2 ABB Automatic Avoidance Robot Product Overview
 - 10.2.3 ABB Automatic Avoidance Robot Product Market Performance
 - 10.2.4 ABB Business Overview
 - 10.2.5 ABB SWOT Analysis
 - 10.2.6 ABB Recent Developments
- 10.3 KUKA
 - 10.3.1 KUKA Basic Information
 - 10.3.2 KUKA Automatic Avoidance Robot Product Overview
 - 10.3.3 KUKA Automatic Avoidance Robot Product Market Performance
 - 10.3.4 KUKA Business Overview
 - 10.3.5 KUKA SWOT Analysis
 - 10.3.6 KUKA Recent Developments
- 10.4 FANUC
 - 10.4.1 FANUC Basic Information
 - 10.4.2 FANUC Automatic Avoidance Robot Product Overview
 - 10.4.3 FANUC Automatic Avoidance Robot Product Market Performance
 - 10.4.4 FANUC Business Overview
 - 10.4.5 FANUC Recent Developments
- 10.5 Yaskawa
 - 10.5.1 Yaskawa Basic Information
 - 10.5.2 Yaskawa Automatic Avoidance Robot Product Overview
 - 10.5.3 Yaskawa Automatic Avoidance Robot Product Market Performance
 - 10.5.4 Yaskawa Business Overview
 - 10.5.5 Yaskawa Recent Developments
- 10.6 Omron
 - 10.6.1 Omron Basic Information
 - 10.6.2 Omron Automatic Avoidance Robot Product Overview
 - 10.6.3 Omron Automatic Avoidance Robot Product Market Performance
 - 10.6.4 Omron Business Overview
 - 10.6.5 Omron Recent Developments
- 10.7 Geek+

- 10.7.1 Geek+ Basic Information
- 10.7.2 Geek+ Automatic Avoidance Robot Product Overview
- 10.7.3 Geek+ Automatic Avoidance Robot Product Market Performance
- 10.7.4 Geek+ Business Overview
- 10.7.5 Geek+ Recent Developments
- 10.8 Hikvision Robotics
 - 10.8.1 Hikvision Robotics Basic Information
 - 10.8.2 Hikvision Robotics Automatic Avoidance Robot Product Overview
 - 10.8.3 Hikvision Robotics Automatic Avoidance Robot Product Market Performance
 - 10.8.4 Hikvision Robotics Business Overview
 - 10.8.5 Hikvision Robotics Recent Developments
- 10.9 DJI
 - 10.9.1 DJI Basic Information
 - 10.9.2 DJI Automatic Avoidance Robot Product Overview
 - 10.9.3 DJI Automatic Avoidance Robot Product Market Performance
 - 10.9.4 DJI Business Overview
 - 10.9.5 DJI Recent Developments
- 10.10 Siasun
 - 10.10.1 Siasun Basic Information
 - 10.10.2 Siasun Automatic Avoidance Robot Product Overview
 - 10.10.3 Siasun Automatic Avoidance Robot Product Market Performance
 - 10.10.4 Siasun Business Overview
 - 10.10.5 Siasun Recent Developments
- 10.11 MiR
 - 10.11.1 MiR Basic Information
 - 10.11.2 MiR Automatic Avoidance Robot Product Overview
 - 10.11.3 MiR Automatic Avoidance Robot Product Market Performance
 - 10.11.4 MiR Business Overview
 - 10.11.5 MiR Recent Developments
- 10.12 Reeman
 - 10.12.1 Reeman Basic Information
 - 10.12.2 Reeman Automatic Avoidance Robot Product Overview
 - 10.12.3 Reeman Automatic Avoidance Robot Product Market Performance
 - 10.12.4 Reeman Business Overview
 - 10.12.5 Reeman Recent Developments
- 10.13 Xiaomi
 - 10.13.1 Xiaomi Basic Information
 - 10.13.2 Xiaomi Automatic Avoidance Robot Product Overview
 - 10.13.3 Xiaomi Automatic Avoidance Robot Product Market Performance

10.13.4 Xiaomi Business Overview

10.13.5 Xiaomi Recent Developments

10.14 Unitree

10.14.1 Unitree Basic Information

10.14.2 Unitree Automatic Avoidance Robot Product Overview

10.14.3 Unitree Automatic Avoidance Robot Product Market Performance

10.14.4 Unitree Business Overview

10.14.5 Unitree Recent Developments

10.15 Lanxin Robotics

10.15.1 Lanxin Robotics Basic Information

10.15.2 Lanxin Robotics Automatic Avoidance Robot Product Overview

10.15.3 Lanxin Robotics Automatic Avoidance Robot Product Market Performance

10.15.4 Lanxin Robotics Business Overview

10.15.5 Lanxin Robotics Recent Developments

10.16 YOUIINS

10.16.1 YOUIINS Basic Information

10.16.2 YOUIINS Automatic Avoidance Robot Product Overview

10.16.3 YOUIINS Automatic Avoidance Robot Product Market Performance

10.16.4 YOUIINS Business Overview

10.16.5 YOUIINS Recent Developments

11 AUTOMATIC AVOIDANCE ROBOT MARKET FORECAST BY REGION

11.1 Global Automatic Avoidance Robot Market Size Forecast

11.2 Global Automatic Avoidance Robot Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Automatic Avoidance Robot Market Size Forecast by Country

11.2.3 Asia Pacific Automatic Avoidance Robot Market Size Forecast by Region

11.2.4 South America Automatic Avoidance Robot Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Automatic Avoidance Robot by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Automatic Avoidance Robot Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Automatic Avoidance Robot by Type (2026-2035)

12.1.2 Global Automatic Avoidance Robot Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Automatic Avoidance Robot by Type (2026-2035)

12.2 Global Automatic Avoidance Robot Market Forecast by Application (2026-2035)

12.2.1 Global Automatic Avoidance Robot Sales (K Units) Forecast by Application

12.2.2 Global Automatic Avoidance Robot Market Size (M USD) Forecast by
Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Automatic Avoidance Robot Market Size by Type (M USD)

Table 4. Global Automatic Avoidance Robot Market Size by Application

Table 5. Automatic Avoidance Robot Market Size Comparison by Region (M USD)

Table 6. Global Automatic Avoidance Robot Sales (K Units) by Manufacturers
(2020-2025)

Table 7. Global Automatic Avoidance Robot Sales Market Share by Manufacturers
(2020-2025)

Table 8. Global Automatic Avoidance Robot Revenue (M USD) by Manufacturers
(2020-2025)

Table 9. Global Automatic Avoidance Robot Revenue Share by Manufacturers
(2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in
Automatic Avoidance Robot as of 2025)

Table 11. Global Market Automatic Avoidance Robot Average Price (USD/Unit) of Key
Manufacturers (2020-2025)

Table 12. Manufacturers' Manufacturing Sites, Areas Served

Table 13. Manufacturers' Product Type

Table 14. Global Automatic Avoidance Robot Manufacturers Market Concentration
Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Automatic Avoidance Robot Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading
Countries

Table 26. Global Automatic Avoidance Robot Sales by Type (K Units)

Table 27. Global Automatic Avoidance Robot Market Size by Type (M USD)

Table 28. Global Automatic Avoidance Robot Sales (K Units) by Type (2020-2025)

Table 29. Global Automatic Avoidance Robot Sales Market Share by Type (2020-2025)

Table 30. Global Automatic Avoidance Robot Market Size (M USD) by Type
(2020-2025)

Table 31. Global Automatic Avoidance Robot Market Share by Type (2020-2025)

Table 32. Global Automatic Avoidance Robot Price (USD/Unit) by Type (2020-2025)

Table 33. Global Automatic Avoidance Robot Sales (K Units) by Application

Table 34. Global Automatic Avoidance Robot Market Size by Application

Table 35. Global Automatic Avoidance Robot Sales by Application (2020-2025) & (K
Units)

Table 36. Global Automatic Avoidance Robot Sales Market Share by Application
(2020-2025)

Table 37. Global Automatic Avoidance Robot Market Size by Application (2020-2025) &
(M USD)

Table 38. Global Automatic Avoidance Robot Market Share by Application (2020-2025)

Table 39. Global Automatic Avoidance Robot Sales Growth Rate by Application
(2020-2025)

Table 40. Global Automatic Avoidance Robot Sales by Region (2020-2025) & (K Units)

Table 41. Global Automatic Avoidance Robot Sales Market Share by Region
(2020-2025)

Table 42. Global Automatic Avoidance Robot Market Size by Region (2020-2025) & (M
USD)

Table 43. Global Automatic Avoidance Robot Market Size by Region (2020-2025)

Table 44. North America Automatic Avoidance Robot Sales by Country (2020-2025) &
(K Units)

Table 45. North America Automatic Avoidance Robot Market Size by Country
(2020-2025) & (M USD)

Table 46. Europe Automatic Avoidance Robot Sales by Country (2020-2025) & (K
Units)

Table 47. Europe Automatic Avoidance Robot Market Size by Country (2020-2025) &
(M USD)

Table 48. Asia Pacific Automatic Avoidance Robot Sales by Region (2020-2025) & (K
Units)

Table 49. Asia Pacific Automatic Avoidance Robot Market Size by Region (2020-2025)
& (M USD)

Table 50. South America Automatic Avoidance Robot Sales by Country (2020-2025) &
(K Units)

Table 51. South America Automatic Avoidance Robot Market Size by Country
(2020-2025) & (M USD)

Table 52. Middle East and Africa Automatic Avoidance Robot Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Automatic Avoidance Robot Market Size by Region (2020-2025) & (M USD)

Table 54. Global Automatic Avoidance Robot Production (K Units) by Region(2020-2025)

Table 55. Global Automatic Avoidance Robot Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Automatic Avoidance Robot Revenue Market Share by Region (2020-2025)

Table 57. Global Automatic Avoidance Robot Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Automatic Avoidance Robot Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Automatic Avoidance Robot Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Automatic Avoidance Robot Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Automatic Avoidance Robot Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Boston Dynamics Basic Information

Table 63. Boston Dynamics Automatic Avoidance Robot Product Overview

Table 64. Boston Dynamics Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Boston Dynamics Business Overview

Table 66. Boston Dynamics SWOT Analysis

Table 67. Boston Dynamics Recent Developments

Table 68. ABB Basic Information

Table 69. ABB Automatic Avoidance Robot Product Overview

Table 70. ABB Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. ABB Business Overview

Table 72. ABB SWOT Analysis

Table 73. ABB Recent Developments

Table 74. KUKA Basic Information

Table 75. KUKA Automatic Avoidance Robot Product Overview

Table 76. KUKA Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. KUKA Business Overview

Table 78. KUKA SWOT Analysis
Table 79. KUKA Recent Developments
Table 80. FANUC Basic Information
Table 81. FANUC Automatic Avoidance Robot Product Overview
Table 82. FANUC Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 83. FANUC Business Overview
Table 84. FANUC Recent Developments
Table 85. Yaskawa Basic Information
Table 86. Yaskawa Automatic Avoidance Robot Product Overview
Table 87. Yaskawa Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 88. Yaskawa Business Overview
Table 89. Yaskawa Recent Developments
Table 90. Omron Basic Information
Table 91. Omron Automatic Avoidance Robot Product Overview
Table 92. Omron Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 93. Omron Business Overview
Table 94. Omron Recent Developments
Table 95. Geek+ Basic Information
Table 96. Geek+ Automatic Avoidance Robot Product Overview
Table 97. Geek+ Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 98. Geek+ Business Overview
Table 99. Geek+ Recent Developments
Table 100. Hikvision Robotics Basic Information
Table 101. Hikvision Robotics Automatic Avoidance Robot Product Overview
Table 102. Hikvision Robotics Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 103. Hikvision Robotics Business Overview
Table 104. Hikvision Robotics Recent Developments
Table 105. DJI Basic Information
Table 106. DJI Automatic Avoidance Robot Product Overview
Table 107. DJI Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 108. DJI Business Overview
Table 109. DJI Recent Developments
Table 110. Siasun Basic Information

Table 111.	Siasun Automatic Avoidance Robot Product Overview
Table 112.	Siasun Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 113.	Siasun Business Overview
Table 114.	Siasun Recent Developments
Table 115.	MiR Basic Information
Table 116.	MiR Automatic Avoidance Robot Product Overview
Table 117.	MiR Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 118.	MiR Business Overview
Table 119.	MiR Recent Developments
Table 120.	Reeman Basic Information
Table 121.	Reeman Automatic Avoidance Robot Product Overview
Table 122.	Reeman Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 123.	Reeman Business Overview
Table 124.	Reeman Recent Developments
Table 125.	Xiaomi Basic Information
Table 126.	Xiaomi Automatic Avoidance Robot Product Overview
Table 127.	Xiaomi Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 128.	Xiaomi Business Overview
Table 129.	Xiaomi Recent Developments
Table 130.	Unitree Basic Information
Table 131.	Unitree Automatic Avoidance Robot Product Overview
Table 132.	Unitree Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 133.	Unitree Business Overview
Table 134.	Unitree Recent Developments
Table 135.	Lanxin Robotics Basic Information
Table 136.	Lanxin Robotics Automatic Avoidance Robot Product Overview
Table 137.	Lanxin Robotics Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 138.	Lanxin Robotics Business Overview
Table 139.	Lanxin Robotics Recent Developments
Table 140.	YOUIINS Basic Information
Table 141.	YOUIINS Automatic Avoidance Robot Product Overview
Table 142.	YOUIINS Automatic Avoidance Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 143. YUIINS Business Overview

Table 144. YUIINS Recent Developments

Table 145. Global Automatic Avoidance Robot Sales Forecast by Region (2026-2035) & (K Units)

Table 146. Global Automatic Avoidance Robot Market Size Forecast by Region (2026-2035) & (M USD)

Table 147. North America Automatic Avoidance Robot Sales Forecast by Country (2026-2035) & (K Units)

Table 148. North America Automatic Avoidance Robot Market Size Forecast by Country (2026-2035) & (M USD)

Table 149. Europe Automatic Avoidance Robot Sales Forecast by Country (2026-2035) & (K Units)

Table 150. Europe Automatic Avoidance Robot Market Size Forecast by Country (2026-2035) & (M USD)

Table 151. Asia Pacific Automatic Avoidance Robot Sales Forecast by Region (2026-2035) & (K Units)

Table 152. Asia Pacific Automatic Avoidance Robot Market Size Forecast by Region (2026-2035) & (M USD)

Table 153. South America Automatic Avoidance Robot Sales Forecast by Country (2026-2035) & (K Units)

Table 154. South America Automatic Avoidance Robot Market Size Forecast by Country (2026-2035) & (M USD)

Table 155. Middle East and Africa Automatic Avoidance Robot Sales Forecast by Country (2026-2035) & (Units)

Table 156. Middle East and Africa Automatic Avoidance Robot Market Size Forecast by Country (2026-2035) & (M USD)

Table 157. Global Automatic Avoidance Robot Sales Forecast by Type (2026-2035) & (K Units)

Table 158. Global Automatic Avoidance Robot Market Size Forecast by Type (2026-2035) & (M USD)

Table 159. Global Automatic Avoidance Robot Price Forecast by Type (2026-2035) & (USD/Unit)

Table 160. Global Automatic Avoidance Robot Sales (K Units) Forecast by Application (2026-2035)

Table 161. Global Automatic Avoidance Robot Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Automatic Avoidance Robot
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Automatic Avoidance Robot Market Size (M USD), 2025-2035
- Figure 5. Global Automatic Avoidance Robot Market Size (M USD) (2020-2035)
- Figure 6. Global Automatic Avoidance Robot Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Automatic Avoidance Robot Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Automatic Avoidance Robot Product Life Cycle
- Figure 13. Automatic Avoidance Robot Sales Share by Manufacturers in 2025
- Figure 14. Global Automatic Avoidance Robot Revenue Share by Manufacturers in 2025
- Figure 15. Automatic Avoidance Robot Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Automatic Avoidance Robot Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Automatic Avoidance Robot Revenue in 2025
- Figure 18. Industry Chain Map of Automatic Avoidance Robot
- Figure 19. Global Automatic Avoidance Robot Market PEST Analysis
- Figure 20. Global Automatic Avoidance Robot Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Automatic Avoidance Robot Market Share by Type
- Figure 27. Sales Market Share of Automatic Avoidance Robot by Type (2020-2025)
- Figure 28. Sales Market Share of Automatic Avoidance Robot by Type in 2025
- Figure 29. Market Share of Automatic Avoidance Robot by Type (2020-2025)
- Figure 30. Market Share of Automatic Avoidance Robot by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Automatic Avoidance Robot Market Share by Application

Figure 33. Global Automatic Avoidance Robot Sales Market Share by Application (2020-2025)

Figure 34. Global Automatic Avoidance Robot Sales Market Share by Application in 2025

Figure 35. Global Automatic Avoidance Robot Market Share by Application (2020-2025)

Figure 36. Global Automatic Avoidance Robot Market Share by Application in 2025

Figure 37. Global Automatic Avoidance Robot Sales Growth Rate by Application (2020-2025)

Figure 38. Global Automatic Avoidance Robot Sales Market Share by Region (2020-2025)

Figure 39. Global Automatic Avoidance Robot Market Size by Region (2020-2025)

Figure 40. North America Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Automatic Avoidance Robot Sales Market Share by Country in 2024

Figure 43. North America Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Automatic Avoidance Robot Market Size by Country in 2024

Figure 45. U.S. Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Automatic Avoidance Robot Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Automatic Avoidance Robot Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Automatic Avoidance Robot Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Automatic Avoidance Robot Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Automatic Avoidance Robot Sales Market Share by Country in 2024

Figure 53. Europe Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Automatic Avoidance Robot Market Size by Country in 2024

Figure 55. Germany Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Automatic Avoidance Robot Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Automatic Avoidance Robot Sales Market Share by Region in 2024

Figure 67. Asia Pacific Automatic Avoidance Robot Market Size by Region in 2024

Figure 68. China Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Automatic Avoidance Robot Market Size and Growth Rate (2020-2025)

& (M USD)

Figure 76. Southeast Asia Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Automatic Avoidance Robot Sales and Growth Rate (K Units)

Figure 79. South America Automatic Avoidance Robot Sales Market Share by Country in 2024

Figure 80. South America Automatic Avoidance Robot Market Size and Growth Rate (M USD)

Figure 81. South America Automatic Avoidance Robot Market Size by Country in 2024

Figure 82. Brazil Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Automatic Avoidance Robot Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Automatic Avoidance Robot Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Automatic Avoidance Robot Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Automatic Avoidance Robot Market Size by Region in 2024

Figure 92. Saudi Arabia Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Automatic Avoidance Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Automatic Avoidance Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Automatic Avoidance Robot Production Market Share by Region (2020-2025)

Figure 103. North America Automatic Avoidance Robot Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Automatic Avoidance Robot Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Automatic Avoidance Robot Production (K Units) Growth Rate (2020-2025)

Figure 106. China Automatic Avoidance Robot Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Automatic Avoidance Robot Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Automatic Avoidance Robot Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Automatic Avoidance Robot Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Automatic Avoidance Robot Market Share Forecast by Type (2026-2035)

Figure 111. Global Automatic Avoidance Robot Sales Forecast by Application (2026-2035)

Figure 112. Global Automatic Avoidance Robot Market Share Forecast by Application (2026-2035)

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