

# **Global Automotive Robotics Market by Product Type (Articulated Robots, Cylindrical Robots, Cartesian Robots, Scara Robots, Others), By Component (Controllers, Robotic Arm, End Effector, Automotive Robotic Sensor, Automotive Robotics Drive), By Application (Welding, Painting, Cutting, Material Handling, Others), By Region, Competition, 2018-2028**

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## **Abstracts**

The projected market size for the global automotive robotics market is expected to reach USD 9.71 billion by the end of 2022, with a compound annual growth rate (CAGR) of 10.82% during the forecast period. The global automotive robotics market has revolutionized the automotive manufacturing landscape by introducing advanced robotic technology to streamline production processes. These robots, ranging from traditional articulated arms to collaborative robots (cobots), are pivotal in automating tasks such as welding, painting, assembly, and quality inspection. This market has witnessed substantial growth, driven by the automotive industry's pursuit of enhanced efficiency, precision, and adaptability. Factors such as the rise of electric vehicles, the need for operational excellence, safety improvements, and the integration of data-driven manufacturing have contributed to the market's expansion. Key players in the industry, including ABB, KUKA, FANUC, and Yaskawa Electric, continue to innovate and provide solutions tailored to the evolving demands of modern vehicle production.

### **Key Market Drivers**

#### **Operational Efficiency and Precision Enhancement**

One of the primary drivers propelling the global automotive robotics market is the

pressing need for operational efficiency and precision enhancement within the automotive manufacturing sector. As automakers strive to meet increasing consumer demands while maintaining competitive production timelines, the integration of robotics has become indispensable. Robots are adept at performing repetitive, complex, and intricate tasks with unparalleled accuracy, resulting in higher levels of quality assurance and a reduction in human errors. Whether it's welding, painting, or assembly, these machines consistently deliver precision, resulting in improved overall manufacturing efficiency. Moreover, robots excel in maintaining uniformity across production lines, ensuring that every vehicle produced adheres to the same high standards, a crucial factor in the era of mass customization.

### Shift Towards Electric Vehicles (EVs) and Customization

The global automotive industry is undergoing a paradigm shift with the increasing emphasis on electric vehicles (EVs) and the trend towards vehicle customization. As automakers transition from internal combustion engines to electric powertrains, manufacturing processes are evolving to accommodate new components and assemblies. Robots play a pivotal role in adapting production lines to these changes efficiently. Additionally, consumer demand for customized vehicles has led to the production of a diverse range of models on a single assembly line. Automotive robots' adaptability enables seamless transitions between different models, facilitating a cost-effective approach to customization while maintaining production efficiency.

### Safety Enhancement and Worker Well-being

Robots are not only augmenting automotive manufacturing processes but also enhancing worker safety and well-being. Historically, automotive manufacturing has involved tasks that pose risks to human workers, such as welding in hazardous environments or repetitive assembly line work. The implementation of robots in such tasks reduces the risk of occupational hazards, minimizes exposure to harmful fumes, and prevents ergonomic strain on workers. Moreover, collaborative robots (cobots) are designed to work alongside humans, enhancing the collaborative and cooperative nature of modern manufacturing floors. This driver aligns with the industry's commitment to creating safer and more conducive work environments, attracting a skilled workforce to the manufacturing sector.

### Integration of Industry 4.0 and Data-Driven Manufacturing

The industry 4.0 revolution is profoundly impacting the automotive sector, and robotics

play a pivotal role in its realization. The integration of Internet of Things (IoT) technologies and data-driven manufacturing processes is reshaping how vehicles are produced. Robots equipped with sensors and connectivity capabilities provide real-time data that enables predictive maintenance, reducing downtime and optimizing production efficiency. Manufacturers can monitor robotic performance, diagnose issues remotely, and even adapt production schedules based on real-time insights. This level of connectivity enhances agility, allowing manufacturers to respond swiftly to changes in demand, optimize resource allocation, and achieve unprecedented levels of production efficiency.

## Key Market Challenges

### Technical High Initial Investment Costs and ROI Uncertainty

One of the primary challenges facing the global automotive robotics market is the substantial initial investment required for the implementation of robotic automation systems. The integration of robotics technology involves costs associated with purchasing the robots themselves, as well as additional expenses for programming, training, maintenance, and infrastructure adjustments. For many manufacturers, particularly small and medium-sized enterprises (SMEs), these upfront costs can pose a significant financial barrier.

Furthermore, while the long-term benefits of automotive robotics are well-documented – including improved efficiency, quality, and reduced labor costs – the return on investment (ROI) timeline can be uncertain and varies based on factors such as the scale of automation, production volume, and market demand. This uncertainty can make decision-making challenging for manufacturers, especially when trying to justify the immediate expenditure against potential future gains. Addressing this challenge requires a careful assessment of the specific manufacturing processes, production volumes, and operational needs. Manufacturers must also consider factors such as the potential for process improvements, increased production capacity, and the competitive advantages that robotic automation can bring. Collaborative efforts between robotics providers, financial institutions, and industry associations can help create financing models that facilitate adoption, offering manufacturers flexible payment options and shorter ROI timelines.

### Complex Integration and Skilled Workforce Shortages

While the integration of robotics technology offers immense benefits, it also poses

challenges related to complexity and the availability of a skilled workforce. Integrating robots into existing production lines requires careful planning, programming, and coordination to ensure seamless interaction with other equipment and processes. This integration process can be intricate and time-consuming, potentially leading to production downtime during implementation. Moreover, finding and retaining a skilled workforce capable of operating, programming, and maintaining advanced robotic systems is a challenge for the automotive industry. As the complexity of robotic technology increases, there is a growing demand for engineers, technicians, and operators with specialized skills in robotics, automation, and programming. The shortage of such skilled professionals poses a hurdle to the effective deployment and utilization of robotic automation.

Manufacturers must invest in training programs to upskill their existing workforce and attract new talent. Collaborations between educational institutions and industry stakeholders can help bridge the skills gap by developing training programs tailored to the needs of the automotive robotics sector. Furthermore, robotics manufacturers can play a role by simplifying programming interfaces and providing comprehensive training resources to empower operators and technicians. Incorporating digital twin technologies – virtual replicas of robotic systems – can aid in testing and optimizing robotic configurations before physical implementation, reducing integration complexities and potential downtime. This approach allows manufacturers to identify and rectify any issues before they affect production.

## Key Market Trends

### Collaborative Robots (Cobots) Redefining Automotive Manufacturing

The emergence of collaborative robots, commonly known as cobots, is a transformative trend reshaping the global automotive robotics market. Cobots are designed to work alongside human operators, enabling a new era of human-robot collaboration on the factory floor. In the automotive sector, this trend has profound implications for tasks that require intricate human dexterity and decision-making. Cobots are integrated into assembly lines for tasks like final assembly, quality inspection, and handling delicate components. The integration of cobots addresses the challenge of repetitive and ergonomic-intensive tasks, enhancing worker well-being by reducing physical strain and minimizing the risk of workplace injuries. Moreover, cobots contribute to enhanced production flexibility. Unlike traditional robots that require dedicated safety barriers, cobots have built-in safety features that allow them to operate safely near humans. This feature is crucial in settings where production lines need to be adaptable and quickly

reconfigured to meet changing market demands.

This trend aligns with the broader industry movement toward creating a safer, more collaborative, and productive manufacturing environment. As cobot technology continues to advance, the automotive robotics market is witnessing the development of cobots with improved sensor capabilities, better AI-powered decision-making, and enhanced programming interfaces that make their integration seamless for manufacturers. The increasing deployment of cobots underscores a new era of harmonious coexistence between human operators and robotic counterparts, revolutionizing the traditional automotive production landscape.

### Artificial Intelligence (AI) and Machine Learning Integration

The integration of Artificial Intelligence (AI) and machine learning in the automotive robotics market is a trend that is rapidly gaining momentum. Automakers are leveraging AI-powered solutions to enhance the capabilities of robotic systems, making them more adaptable, autonomous, and capable of handling complex tasks. AI-driven vision systems are enabling robots to recognize and differentiate between objects, enhancing their ability to perform tasks like picking and placing components accurately. Machine learning algorithms are also playing a significant role in predictive maintenance. Robots equipped with sensors generate vast amounts of data, which, when analyzed using machine learning techniques, can identify patterns that indicate potential mechanical issues. This predictive approach to maintenance minimizes downtime by allowing manufacturers to address problems before they lead to production halts.

Another application of AI in the automotive robotics market is in improving production efficiency. Algorithms can optimize production schedules, material usage, and resource allocation, leading to more streamlined operations and cost savings. Additionally, AI-driven simulations aid in optimizing robotic programming, enabling faster commissioning of new robot installations and reducing time-to-market for new vehicle models. As AI and machine learning continue to evolve, the capabilities of automotive robots will expand. This trend is reshaping traditional notions of robotic automation, enabling robots to become more intelligent, adaptable, and responsive to the dynamic demands of modern automotive manufacturing.

### Flexibility and Scalability in Production

The automotive industry is witnessing a trend towards flexibility and scalability in production, and robotics is playing a crucial role in enabling manufacturers to meet

these demands. Traditional mass production is being complemented by the production of diverse vehicle models on the same assembly line. This approach demands flexible automation solutions that can quickly adapt to changing configurations. Robots equipped with advanced programming interfaces and software are enabling manufacturers to reprogram and reconfigure them for different tasks with minimal downtime. This flexibility is essential for producing various vehicle models with different components and options on the same production line.

Moreover, the scalability of robotic solutions allows manufacturers to easily adjust production capacities based on market demand. As the industry navigates through uncertain market conditions, the ability to scale production up or down efficiently is crucial for maintaining profitability. Robotic systems that can accommodate tasks like welding, painting, and assembly on a single platform contribute to a seamless production process. The trend towards flexibility and scalability is not only changing how vehicles are manufactured but also how production facilities are designed. Manufacturers are moving towards modular and reconfigurable production lines, where robotic cells can be rearranged to suit changing production needs.

## Segmental Insights

### Component Insights

Based on component, the robotic arm segment emerges as the predominant segment, exhibiting unwavering dominance projected throughout the forecast period. This segment asserts its dominance with unwavering authority, showcasing a remarkable influence that is anticipated to persist consistently over the projected forecast period. The robotic arm, often considered the heart of any robotic system, is pivotal in executing a myriad of tasks within automotive manufacturing, from intricate assembly processes to precision welding and handling. Its versatility and adaptability to various applications position the robotic arm as a crucial driver of efficiency and automation in the industry. With its proven track record and capacity to meet evolving manufacturing needs, the robotic arm segment is poised to continue its ascendancy, shaping the course of the global automotive robotics market, and driving innovation in the years to come.

### Application Insights

Based on application, the material handling segment emerges as a formidable frontrunner, exerting its dominance and shaping the market's trajectory throughout the forecast period. This segment exerts its influence with a resolute authority that is



projected to consistently shape the market's trajectory over the forecast period. Material handling, a critical aspect of automotive manufacturing, involves the seamless movement and manipulation of components throughout production processes. With the integration of robotic systems, manufacturers can optimize efficiency and precision in tasks such as loading and unloading, palletizing, and transporting materials within the production line. Given its foundational role in enhancing overall manufacturing efficiency, the material handling segment's unwavering dominance highlights its significance as a driving force in the evolution of the global automotive robotics market, contributing to streamlining processes and elevating productivity within the industry.

### Regional Insights

Asia Pacific stands resolutely as a dominant force within the global automotive robotics market, solidifying its preeminent position and underscoring its pivotal role in steering the industry's trajectory. The region's dominance is a result of its dynamic automotive manufacturing landscape, characterized by rapid technological advancements and a strong focus on production efficiency. With countries like Japan, China, and South Korea at its forefront, Asia Pacific has become a hub for innovation and automation, where automotive manufacturers deploy cutting-edge robotic solutions to enhance productivity, quality, and competitiveness. As the region continues to lead in automotive production and embraces Industry 4.0 principles, its resolute influence resonates throughout the global automotive robotics market, driving progress and setting new benchmarks for the industry worldwide.

### Key Market Players

ABB Ltd.

KUKA Robotics Corporation

FANUC Corporation

Honda Motor Co. Ltd

RobCo S.W.A.T Ltd.

Omron Adept Technologies, Inc

Kawasaki Robotics, Inc.

Nachi-Fujikoshi Corporation

Yaskawa Electric Corporation

Harmonic Drive System Inc.

### Report Scope:

In this report, the global automotive robotics market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### Global Automotive Robotics Market, By Product Type:

Articulated Robots

Cylindrical Robots

Cartesian Robots

Scara Robots

Others

#### Global Automotive Robotics Market, By Component:

Controllers

Robotic Arm

End Effector

Automotive Robotic Sensor

Automotive Robotics Drive

#### Global Automotive Robotics Market, By Application:



Welding

Painting

Cutting

Material Handling

Others

Global Automotive Robotics Market, By Region:

North America

Europe

South America

Middle East & Africa

Asia Pacific

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Automotive Robotics Market.

Available Customizations:

Global Automotive Robotics market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### **1. PRODUCT OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### **3. EXECUTIVE SUMMARY**

### **4. IMPACT OF COVID-19 ON GLOBAL AUTOMOTIVE ROBOTICS MARKET**

### **5. VOICE OF CUSTOMER**

### **6. GLOBAL AUTOMOTIVE ROBOTICS MARKET OVERVIEW**

### **7. GLOBAL AUTOMOTIVE ROBOTICS MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Product Type (Articulated Robots, Cylindrical Robots, Cartesian Robots, Scara Robots, Others)
  - 7.2.2. By Component (Controllers, Robotic Arm, End Effector, Automotive Robotic Sensor, Automotive Robotics Drive)
  - 7.2.3. By Application (Welding, Painting, Cutting, Material Handling, Others)
  - 7.2.4. By Region

7.3. By Company (2022)

7.4. Market Map

## **8. NORTH AMERICA AUTOMOTIVE ROBOTICS MARKET OUTLOOK**

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Product Type

8.2.2. By Component

8.2.3. By Application

8.3. North America: Country Analysis

8.3.1. United States Automotive Robotics Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Product Type

8.3.1.2.2. By Component

8.3.1.2.3. By Application

8.3.2. Canada Automotive Robotics Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Product Type

8.3.2.2.2. By Component

8.3.2.2.3. By Application

8.3.3. Mexico Automotive Robotics Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Product Type

8.3.3.2.2. By Component

8.3.3.2.3. By Application

## **9. EUROPE AUTOMOTIVE ROBOTICS MARKET OUTLOOK**

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

- 9.2.1. By Product Type
- 9.2.2. By Component
- 9.2.3. By Application
- 9.3. Europe: Country Analysis
  - 9.3.1. Germany Automotive Robotics Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Product Type
      - 9.3.1.2.2. By Component
      - 9.3.1.2.3. By Application
  - 9.3.2. United Kingdom Automotive Robotics Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Product Type
      - 9.3.2.2.2. By Component
      - 9.3.2.2.3. By Application
  - 9.3.3. France Automotive Robotics Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value
    - 9.3.3.2. Market Share & Forecast
      - 9.3.3.2.1. By Product Type
      - 9.3.3.2.2. By Component
      - 9.3.3.2.3. By Application
  - 9.3.4. Spain Automotive Robotics Market Outlook
    - 9.3.4.1. Market Size & Forecast
      - 9.3.4.1.1. By Value
    - 9.3.4.2. Market Share & Forecast
      - 9.3.4.2.1. By Product Type
      - 9.3.4.2.2. By Component
      - 9.3.4.2.3. By Application
  - 9.3.5. Italy Automotive Robotics Market Outlook
    - 9.3.5.1. Market Size & Forecast
      - 9.3.5.1.1. By Value
    - 9.3.5.2. Market Share & Forecast
      - 9.3.5.2.1. By Product Type
      - 9.3.5.2.2. By Component
      - 9.3.5.2.3. By Application

## **10. SOUTH AMERICA AUTOMOTIVE ROBOTICS MARKET OUTLOOK**

### 10.1. Market Size & Forecast

#### 10.1.1. By Value

### 10.2. Market Share & Forecast

#### 10.2.1. By Product Type

#### 10.2.2. By Component

#### 10.2.3. By Application

### 10.3. South America: Country Analysis

#### 10.3.1. Brazil Automotive Robotics Market Outlook

##### 10.3.1.1. Market Size & Forecast

###### 10.3.1.1.1. By Value

##### 10.3.1.2. Market Share & Forecast

###### 10.3.1.2.1. By Product Type

###### 10.3.1.2.2. By Component

###### 10.3.1.2.3. By Application

#### 10.3.2. Argentina Automotive Robotics Market Outlook

##### 10.3.2.1. Market Size & Forecast

###### 10.3.2.1.1. By Value

##### 10.3.2.2. Market Share & Forecast

###### 10.3.2.2.1. By Product Type

###### 10.3.2.2.2. By Component

###### 10.3.2.2.3. By Application

#### 10.3.3. Colombia Automotive Robotics Market Outlook

##### 10.3.3.1. Market Size & Forecast

###### 10.3.3.1.1. By Value

##### 10.3.3.2. Market Share & Forecast

###### 10.3.3.2.1. By Product Type

###### 10.3.3.2.2. By Component

###### 10.3.3.2.3. By Application

## **11. MIDDLE EAST & AFRICA AUTOMOTIVE ROBOTICS MARKET OUTLOOK**

### 11.1. Market Size & Forecast

#### 11.1.1. By Value

### 11.2. Market Share & Forecast

#### 11.2.1. By Product Type

#### 11.2.2. By Component

- 11.2.3. By Application
- 11.3. Middle East & America: Country Analysis
  - 11.3.1. Israel Automotive Robotics Market Outlook
    - 11.3.1.1. Market Size & Forecast
      - 11.3.1.1.1. By Value
    - 11.3.1.2. Market Share & Forecast
      - 11.3.1.2.1. By Product Type
      - 11.3.1.2.2. By Component
      - 11.3.1.2.3. By Application
  - 11.3.2. Qatar Automotive Robotics Market Outlook
    - 11.3.2.1. Market Size & Forecast
      - 11.3.2.1.1. By Value
    - 11.3.2.2. Market Share & Forecast
      - 11.3.2.2.1. By Product Type
      - 11.3.2.2.2. By Component
      - 11.3.2.2.3. By Application
  - 11.3.3. UAE Automotive Robotics Market Outlook
    - 11.3.3.1. Market Size & Forecast
      - 11.3.3.1.1. By Value
    - 11.3.3.2. Market Share & Forecast
      - 11.3.3.2.1. By Product Type
      - 11.3.3.2.2. By Component
      - 11.3.3.2.3. By Application
  - 11.3.4. Saudi Arabia Automotive Robotics Market Outlook
    - 11.3.4.1. Market Size & Forecast
      - 11.3.4.1.1. By Value
    - 11.3.4.2. Market Share & Forecast
      - 11.3.4.2.1. By Product Type
      - 11.3.4.2.2. By Component
      - 11.3.4.2.3. By Application

## **12. ASIA PACIFIC AUTOMOTIVE ROBOTICS MARKET OUTLOOK**

- 12.1. Market Size & Forecast
  - 12.1.1. By Value
- 12.2. Market Share & Forecast
  - 12.2.1. By Product Type
  - 12.2.2. By Component
  - 12.2.3. By Application



- 12.3. Asia Pacific: Country Analysis
  - 12.3.1. China Automotive Robotics Market Outlook
    - 12.3.1.1. Market Size & Forecast
      - 12.3.1.1.1. By Value
    - 12.3.1.2. Market Share & Forecast
      - 12.3.1.2.1. By Product Type
      - 12.3.1.2.2. By Component
      - 12.3.1.2.3. By Application
  - 12.3.2. Japan Automotive Robotics Market Outlook
    - 12.3.2.1. Market Size & Forecast
      - 12.3.2.1.1. By Value
    - 12.3.2.2. Market Share & Forecast
      - 12.3.2.2.1. By Product Type
      - 12.3.2.2.2. By Component
      - 12.3.2.2.3. By Application
  - 12.3.3. South Korea Automotive Robotics Market Outlook
    - 12.3.3.1. Market Size & Forecast
      - 12.3.3.1.1. By Value
    - 12.3.3.2. Market Share & Forecast
      - 12.3.3.2.1. By Product Type
      - 12.3.3.2.2. By Component
      - 12.3.3.2.3. By Application
  - 12.3.4. India Automotive Robotics Market Outlook
    - 12.3.4.1. Market Size & Forecast
      - 12.3.4.1.1. By Value
    - 12.3.4.2. Market Share & Forecast
      - 12.3.4.2.1. By Product Type
      - 12.3.4.2.2. By Component
      - 12.3.4.2.3. By Application
  - 12.3.5. Australia Automotive Robotics Market Outlook
    - 12.3.5.1. Market Size & Forecast
      - 12.3.5.1.1. By Value
    - 12.3.5.2. Market Share & Forecast
      - 12.3.5.2.1. By Product Type
      - 12.3.5.2.2. By Component
      - 12.3.5.2.3. By Application

## **13. MARKET DYNAMICS**

- 13.1. Drivers
- 13.2. Challenges

## **14. MARKET TRENDS AND DEVELOPMENTS**

## **15. COMPANY PROFILES**

- 15.1. ABB Ltd.
  - 15.1.1. Business Overview
  - 15.1.2. Key Financials & Revenue
  - 15.1.3. Key Contact Person
  - 15.1.4. Headquarters Address
  - 15.1.5. Key Product/Service Offered
- 15.2. KUKA Robotics Corporation
  - 15.2.1. Business Overview
  - 15.2.2. Key Financials & Revenue
  - 15.2.3. Key Contact Person
  - 15.2.4. Headquarters Address
  - 15.2.5. Key Product/Service Offered
- 15.3. FANUC Corporation
  - 15.3.1. Business Overview
  - 15.3.2. Key Financials & Revenue
  - 15.3.3. Key Contact Person
  - 15.3.4. Headquarters Address
  - 15.3.5. Key Product/Service Offered
- 15.4. Honda Motor Co. Ltd
  - 15.4.1. Business Overview
  - 15.4.2. Key Financials & Revenue
  - 15.4.3. Key Contact Person
  - 15.4.4. Headquarters Address
  - 15.4.5. Key Product/Service Offered
- 15.5. RobCo S.W.A.T Ltd.
  - 15.5.1. Business Overview
  - 15.5.2. Key Financials & Revenue
  - 15.5.3. Key Contact Person
  - 15.5.4. Headquarters Address
  - 15.5.5. Key Product/Service Offered
- 15.6. Omron Adept Technologies, Inc.
  - 15.6.1. Business Overview

- 15.6.2. Key Financials & Revenue
- 15.6.3. Key Contact Person
- 15.6.4. Headquarters Address
- 15.6.5. Key Product/Service Offered
- 15.7. Kawasaki Robotics, Inc.
  - 15.7.1. Business Overview
  - 15.7.2. Key Financials & Revenue
  - 15.7.3. Key Contact Person
  - 15.7.4. Headquarters Address
  - 15.7.5. Key Product/Service Offered
- 15.8. Nachi-Fujikoshi Corporation
  - 15.8.1. Business Overview
  - 15.8.2. Key Financials & Revenue
  - 15.8.3. Key Contact Person
  - 15.8.4. Headquarters Address
  - 15.8.5. Key Product/Service Offered
- 15.9. Yaskawa Electric Corporation
  - 15.9.1. Business Overview
  - 15.9.2. Key Financials & Revenue
  - 15.9.3. Key Contact Person
  - 15.9.4. Headquarters Address
  - 15.9.5. Key Product/Service Offered
- 15.10. Harmonic Drive System Inc.
  - 15.10.1. Business Overview
  - 15.10.2. Key Financials & Revenue
  - 15.10.3. Key Contact Person
  - 15.10.4. Headquarters Address
  - 15.10.5. Key Product/Service Offered

## **16. STRATEGIC RECOMMENDATIONS**

## **17. ABOUT US & DISCLAIMER**

## I would like to order

Product name: Global Automotive Robotics Market by Product Type (Articulated Robots, Cylindrical Robots, Cartesian Robots, Scara Robots, Others), By Component (Controllers, Robotic Arm, End Effector, Automotive Robotic Sensor, Automotive Robotics Drive), By Application (Welding, Painting, Cutting, Material Handling, Others), By Region, Competition, 2018-2028

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