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Robotics Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028FSegmented By Component (Hardware, Software), By Type (Articulated, Cartesian, SCARA, Cylindrical, Others), By Application (Disinfection, Shelf Scanning, RFID Scanning, Delivery, Security & Inspection), By Industry Vertical (Manufacturing, Automotive, Retail, Healthcare, Electronics, Others), By Region and Competition

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Abstracts

Global robotics market is expected to grow at a robust CAGR during the forecast period. It is due to increasing demand for automation and advances in robotics technology in the market. Robotics is the branch of engineering and science that focuses on the design, construction, and operation of robots. It is a rapidly growing field, encompassing a wide range of technologies from artificial intelligence to advanced robotics platforms. Robotics has the potential to revolutionize many industries, including manufacturing, healthcare, and transportation. In addition to its industrial applications, robotics is being used in research and education to further our understanding of how humans interact with machines.

Robots are being used in a wide range of applications, from manufacturing and healthcare to agriculture and the military. In manufacturing, robots are used to assemble products, perform quality control checks, and move materials from one location to another. In healthcare, robots are used to assist in surgeries, diagnose illnesses, and help care for patients. In agriculture, robots are used for harvesting and sorting crops, as well as for monitoring the environment. In the military, robots are used for

reconnaissance and surveillance, as well as for combat operations. The increasing demand for robots is driven by a number of factors, including cost savings, improved safety, and increased efficiency. As robots become more sophisticated and efficient, they are able to do more complex tasks and achieve higher levels of accuracy. This leads to cost savings, as robots can do jobs that would otherwise be done by humans. Additionally, robots can reduce the risk of injuries and mistakes, as they are able to perform tasks more quickly and accurately than humans. Finally, robots are able to reduce manual labor costs, as they are able to do jobs that would otherwise require a large number of people.

Increasing Adoption of Automation in Manufacturing

The global robotics market is expected to experience exponential growth over the forecast period as more and more manufacturing companies are embracing automation. Automation is a process in which machines or systems are operated or controlled by other machines or systems. The adoption of automation in manufacturing has resulted in increased efficiency, reduced labor costs, and improved product quality. Automation has enabled manufacturers to reduce labor costs by streamlining the production process and eliminating manual errors. By automating repetitive tasks, manufacturers have been able to reduce the number of workers and the amount of time it takes to complete a task. Furthermore, automation has enabled manufacturers to improve the quality of their products by reducing the need for manual inspection and allowing for more consistent production. In addition to the cost-saving benefits of automation, the increased adoption of robotics in manufacturing has allowed for greater flexibility and customization. Robots can be programmed to perform a variety of tasks in a variety of configurations, allowing for the production of customized products. It has enabled manufacturers to adapt quickly and easily to changing customer demands and stay ahead of their competition. The increased adoption of automation in manufacturing has led to the development of a wide variety of robotic solutions. It includes mobile robots, industrial robots, and robotic arms, all of which are being used in a variety of ways to increase productivity and reduce costs. With the ability to automate a variety of tasks, manufacturers are able to reduce the number of hours it takes to complete a task and increase the overall efficiency of the production process. Overall, the increasing adoption of automation in manufacturing is expected to drive the global robotics market over the forecast period. By automating repetitive tasks and allowing greater customization, manufacturers are able to reduce their labor costs and improve the quality of their products. Additionally, the development of a variety of robotic solutions is allowing manufacturers to stay ahead of their competition and quickly adapt to changing customer demands.

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Rising Demand for Automated Solutions in Logistics and Warehousing

The robotics industry has grown rapidly in recent years due to the increasing demand for automated solutions in logistics and warehousing. Automation has become a rapidly growing trend in the logistics and warehousing industry as it offers a number of advantages, such as improved accuracy, increased efficiency, and reduced costs. Moreover, there are several other factors driving the growth of the global robotics market, such as the increasing demand for enhanced productivity, improved quality, and cost reduction. Robotics has been widely adopted in logistics and warehousing due to its ability to automate mundane tasks, reduce operational costs, and improve accuracy. The use of robots in the industry can help optimize warehouse operations, reduce labor costs, and improve efficiency. Robotics can be used to track and monitor inventory levels, as well as to automate pick and place operations. Robots can be used for order fulfillment, as they can be programmed to pick and pack orders quickly and accurately. Moreover, robots can be used to automate the loading and unloading of materials, as well as for palletizing and de-palletizing operations. In addition, the use of robotics in logistics and warehousing can help reduce safety risks. Robots can be programmed to follow safety protocols and reduce the risk of accidents in the workplace. The increasing demand for automated solutions in logistics and warehousing is driving the growth of the global robotics market. The market is expected to continue to grow in the coming years due to the increasing adoption of robotics in the industry. Companies are investing heavily in robotics technology to improve efficiency, reduce costs, and enhance safety in the workplace. Robotic technology offers a wide range of advantages and is expected to be widely adopted in the near future. The increasing demand for automated solutions in logistics and warehousing will continue to drive the growth of the global robotics market.

Growing Demand for Service Robotics

The global robotics market is expected to register significant growth in the near future as demand for service robotics is increasing rapidly. In recent years, the development of service robotics has been accelerating, driven by advancements in artificial intelligence, machine learning, and other advanced technologies. Robots are being used to perform a wide variety of tasks, ranging from healthcare to education, retail, and hospitality. Service robots are autonomous machines designed to interact with humans and complete tasks that would normally require human labor. These robots are capable of performing a variety of tasks such as vacuuming, mowing lawns, delivering items, providing security, providing customer service, and more. In addition, service robots can

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be used to assist with medical procedures, providing companionship to elderly people, and monitor environmental conditions. The growing demand for service robotics can be attributed to the rising demand for automation and cost efficiency. As the cost of labor increases, businesses are increasingly turning to robots to reduce costs and improve productivity. Furthermore, the use of service robotics in healthcare, hospitality, and other industries is expected to increase as these industries seek to improve efficiency and reduce costs.

In addition, the increasing adoption of robots in the retail sector is expected to further drive the market. Retailers are increasingly turning to robots to reduce labor costs and improve customer service. For example, robots can be used to stock shelves, help customers find items, and even provide information about products. This is expected to significantly drive the growth of the service robotics market. Finally, the increasing use of robotics in the manufacturing sector is expected to drive the growth of the global robotics market. Manufacturers are increasingly relying on robots to automate production processes and reduce labor costs. Furthermore, robots are being used for quality control and inspection, packing and shipping, and other tasks. This increasing use of robots is expected to significantly drive the growth of the global robotics market. Overall, the growing demand for service robotics is expected to drive the global robotics market in the near future. As businesses continue to seek automation and cost efficiency, the use of service robots are expected to increase significantly. This is expected to open up new opportunities for the robotics market and provide immense growth potential.

Market Segmentation

The global robotics market is segmented based on component, type, application, industrial vertical, and region. Based on component, the market is segmented into hardware and software. Based on type, the market is segmented into articulated, cartesian, SCARA, cylindrical, and others. Based on application, the market is segmented into disinfection, shelf scanning, RFID scanning, delivery, security & inspection. Based on industry vertical, the market is segmented manufacturing, automotive, retail, healthcare, electronics, and others. The market analysis studies the regional segmentation divided among, North America, Europe, Asia-Pacific, South America, and Middle East & Africa.

Company Profiles

Some of the key players of the global robotics market include ABB Ltd, GMFanuc

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Robotics Corporation, Yaskawa Electric Corporation, KUKA AG, Seiko Epson Corporation, Comau S.p.A., Siemens AG, Rockwell Automation Inc, PrecisionHawk, and Sony Corporation

Report Scope:

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

Robotics Market, By Component:

Hardware

Software

Robotics Market, By Type:

Articulated

Cartesian

SCARA

Cylindrical

Others

Robotics Market, By Application:

Disinfection

Shelf Scanning

RFID Scanning

Delivery

Security & Inspection

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Robotics Market, By Industry Vertical:

Manufacturing

Automotive

Retail

Healthcare

Electronics

Others

Robotics Market, By Region:

Asia-Pacific

- China
- Japan
- India
- Australia
- South Korea

North America

- United States
- Canada
- Mexico

Europe

- United Kingdom

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- Germany
- France
- Spain
- Italy

Middle East & Africa

- Israel
- Turkey
- Saudi Arabia
- UAE

South America

- Brazil
- Argentina
- Colombia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the global Robotics market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

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Company Information

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

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Contents

1. Service 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. VOICE OF CUSTOMER

5. GLOBAL ROBOTICS MARKET OUTLOOK

5.1. Market Size & Forecast
  5.1.1. By Value
5.2. Market Share & Forecast
  5.2.1. By Component (Hardware, Software)
  5.2.2. By Type (Articulated, Cartesian, SCARA, Cylindrical and Others)
  5.2.3. By Application (Disinfection, Shelf Scanning, RFID Scanning, Delivery, Security & Inspection)
  5.2.4. By Industry Vertical (Manufacturing, Automotive, Retail, Healthcare, Electronics and Others)
  5.2.5. By Region
5.3. By Company (2022)
5.4. Market Map

+44 20 8123 2220
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5.4.1. By Component
5.4.2. By Type
5.4.3. By Application
5.4.4. By Industry Vertical
5.4.5. By Region

6. NORTH AMERICA ROBOTICS MARKET OUTLOOK

6.1. Market Size & Forecast
6.1.1. By Value
6.2. Market Share & Forecast
6.2.1. By Component
6.2.2. By Type
6.2.3. By Application
6.2.4. By Industry Vertical
6.2.5. By Country
6.3. North America: Country Analysis
6.3.1. United States Robotics Market Outlook
6.3.1.1. Market Size & Forecast
6.3.1.1.1. By Value
6.3.1.2. Market Share & Forecast
6.3.1.2.1. By Component
6.3.1.2.2. By Type
6.3.1.2.3. By Application
6.3.1.2.4. By Industry Vertical
6.3.2. Canada Robotics Market Outlook
6.3.2.1. Market Size & Forecast
6.3.2.1.1. By Value
6.3.2.2. Market Share & Forecast
6.3.2.2.1. By Component
6.3.2.2.2. By Type
6.3.2.2.3. By Application
6.3.2.2.4. By Industry Vertical
6.3.3. Mexico Robotics Market Outlook
6.3.3.1. Market Size & Forecast
6.3.3.1.1. By Value
6.3.3.2. Market Share & Forecast
6.3.3.2.1. By Component
6.3.3.2.2. By Type

+44 20 8123 2220
info@marketpublishers.com

6.3.3.2.3. By Application
6.3.3.2.4. By Industry Vertical

7. ASIA-PACIFIC ROBOTICS MARKET OUTLOOK

7.1. Market Size & Forecast
7.1.1. By Value
7.2. Market Share & Forecast
7.2.1. By Component
7.2.2. By Type
7.2.3. By Application
7.2.4. By Industry Vertical
7.2.5. By Country
7.3. Asia-Pacific: Country Analysis
7.3.1. China Robotics Market Outlook
7.3.1.1. Market Size & Forecast
7.3.1.1.1. By Value
7.3.1.2. Market Share & Forecast
7.3.1.2.1. By Component
7.3.1.2.2. By Type
7.3.1.2.3. By Application
7.3.1.2.4. By Industry Vertical
7.3.2. Japan Robotics Market Outlook
7.3.2.1. Market Size & Forecast
7.3.2.1.1. By Value
7.3.2.2. Market Share & Forecast
7.3.2.2.1. By Component
7.3.2.2.2. By Type
7.3.2.2.3. By Application
7.3.2.2.4. By Industry Vertical
7.3.3. South Korea Robotics Market Outlook
7.3.3.1. Market Size & Forecast
7.3.3.1.1. By Value
7.3.3.2. Market Share & Forecast
7.3.3.2.1. By Component
7.3.3.2.2. By Type
7.3.3.2.3. By Application
7.3.3.2.4. By Industry Vertical
7.3.4. India Robotics Market Outlook

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info@marketpublishers.com

7.3.4.1. Market Size & Forecast
7.3.4.1.1. By Value
7.3.4.2. Market Share & Forecast
7.3.4.2.1. By Component
7.3.4.2.2. By Type
7.3.4.2.3. By Application
7.3.4.2.4. By Industry Vertical
7.3.5. Australia Robotics Market Outlook
7.3.5.1. Market Size & Forecast
7.3.5.1.1. By Value
7.3.5.2. Market Share & Forecast
7.3.5.2.1. By Component
7.3.5.2.2. By Type
7.3.5.2.3. By Application
7.3.5.2.4. By Industry Vertical

8. EUROPE ROBOTICS MARKET OUTLOOK

8.1. Market Size & Forecast
8.1.1. By Value
8.2. Market Share & Forecast
8.2.1. By Component
8.2.2. By Type
8.2.3. By Application
8.2.4. By Industry Vertical
8.2.5. By Country
8.3. Europe: Country Analysis
8.3.1. Germany 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 Component
8.3.1.2.2. By Type
8.3.1.2.3. By Application
8.3.1.2.4. By Industry Vertical
8.3.2. United Kingdom Robotics Market Outlook
8.3.2.1. Market Size & Forecast
8.3.2.1.1. By Value
8.3.2.2. Market Share & Forecast

+44 20 8123 2220
info@marketpublishers.com

8.3.2.2.1. By Component
8.3.2.2.2. By Type
8.3.2.2.3. By Application
8.3.2.2.4. By Industry Vertical
8.3.3. France 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 Component
8.3.3.2.2. By Type
8.3.3.2.3. By Application
8.3.3.2.4. By Industry Vertical
8.3.4. Italy Robotics Market Outlook
8.3.4.1. Market Size & Forecast
8.3.4.1.1. By Value
8.3.4.2. Market Share & Forecast
8.3.4.2.1. By Component
8.3.4.2.2. By Type
8.3.4.2.3. By Application
8.3.4.2.4. By Industry Vertical
8.3.5. Spain Robotics Market Outlook
8.3.5.1. Market Size & Forecast
8.3.5.1.1. By Value
8.3.5.2. Market Share & Forecast
8.3.5.2.1. By Component
8.3.5.2.2. By Type
8.3.5.2.3. By Application
8.3.5.2.4. By Industry Vertical

9. SOUTH AMERICA ROBOTICS MARKET OUTLOOK

9.1. Market Size & Forecast
9.1.1. By Value
9.2. Market Share & Forecast
9.2.1. By Component
9.2.2. By Type
9.2.3. By Application
9.2.4. By Industry Vertical
9.2.5. By Country

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9.3. South America: Country Analysis
9.3.1. Brazil 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 Component
9.3.1.2.2. By Type
9.3.1.2.3. By Application
9.3.1.2.4. By Industry Vertical
9.3.2. Argentina 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 Component
9.3.2.2.2. By Type
9.3.2.2.3. By Application
9.3.2.2.4. By Industry Vertical
9.3.3. Colombia 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 Component
9.3.3.2.2. By Type
9.3.3.2.3. By Application
9.3.3.2.4. By Industry Vertical

10. MIDDLE EAST & AFRICA ROBOTICS MARKET OUTLOOK

10.1. Market Size & Forecast
10.1.1. By Value
10.2. Market Share & Forecast
10.2.1. By Component
10.2.2. By Type
10.2.3. By Application
10.2.4. By Industry Vertical
10.2.5. By Country
10.3. Middle East & Africa: Country Analysis
10.3.1. Israel Robotics Market Outlook
10.3.1.1. Market Size & Forecast

+44 20 8123 2220
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10.3.1.1.1. By Value
10.3.1.2. Market Share & Forecast
10.3.1.2.1. By Component
10.3.1.2.2. By Type
10.3.1.2.3. By Application
10.3.1.2.4. By Industry Vertical
10.3.2. Turkey 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 Component
10.3.2.2.2. By Type
10.3.2.2.3. By Application
10.3.2.2.4. By Industry Vertical
10.3.3. UAE 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 Component
10.3.3.2.2. By Type
10.3.3.2.3. By Application
10.3.3.2.4. By Industry Vertical
10.3.4. Saudi Arabia Robotics Market Outlook
10.3.4.1. Market Size & Forecast
10.3.4.1.1. By Value
10.3.4.2. Market Share & Forecast
10.3.4.2.1. By Component
10.3.4.2.2. By Type
10.3.4.2.3. By Application
10.3.4.2.4. By Industry Vertical

11. MARKET DYNAMICS

11.1. Drivers
11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

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13. COMPANY PROFILES

13.1. ABB Ltd
13.1.1. Business Overview
13.1.2. Key Revenue (If Available)
13.1.3. Recent Developments
13.1.4. Key Personnel
13.1.5. Key Service Offered
13.2. GMFanuc Robotics Corporation
13.2.1. Business Overview
13.2.2. Key Revenue (If Available)
13.2.3. Recent Developments
13.2.4. Key Personnel
13.2.5. Key Service Offered
13.3. KUKA AG
13.3.1. Business Overview
13.3.2. Key Revenue (If Available)
13.3.3. Recent Developments
13.3.4. Key Personnel
13.3.5. Key Service Offered
13.4. Yaskawa Electric Corporation
13.4.1. Business Overview
13.4.2. Key Revenue (If Available)
13.4.3. Recent Developments
13.4.4. Key Personnel
13.4.5. Key Service Offered
13.5. Seiko Epson Corporation
13.5.1. Business Overview
13.5.2. Key Revenue (If Available)
13.5.3. Recent Developments
13.5.4. Key Personnel
13.5.5. Key Service Offered
13.6. Comau S.p.A.
13.6.1. Business Overview
13.6.2. Key Revenue (If Available)
13.6.3. Recent Developments
13.6.4. Key Personnel
13.6.5. Key Service Offered
13.7. Siemens AG

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13.7.1. Business Overview
13.7.2. Key Revenue (If Available)
13.7.3. Recent Developments
13.7.4. Key Personnel
13.7.5. Key Service Offered
13.8. Rockwell Automation Inc
13.8.1. Business Overview
13.8.2. Key Revenue (If Available)
13.8.3. Recent Developments
13.8.4. Key Personnel
13.8.5. Key Service Offered
13.9. KION Group AG
13.9.1. Business Overview
13.9.2. Key Revenue (If Available)
13.9.3. Recent Developments
13.9.4. Key Personnel
13.9.5. Key Service Offered
13.10. Sony Corporation
13.10.1. Business Overview
13.10.2. Key Revenue (If Available)
13.10.3. Recent Developments
13.10.4. Key Personnel
13.10.5. Key Service Offered

14. STRATEGIC RECOMMENDATIONS

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