

Saudi Arabia Warehouse Robotics Market By Software (Warehouse Management System, Warehouse Control System, Warehouse Execution Systems), By Type (Mobile Robots, Articulated Robots, Cylindrical Robots, Scara Robots, Parallel Robots, Cartesian Robots), By Payload (0.5 Kg to 10 Kg, 11 Kg to 80 Kg, 81 Kg to 180 Kg, 181 Kg to 300 Kg, 301 Kg to 900 Kg, More than 900 Kg), By Function (Pick & Place, Assembling & Disassembling, Transportation, Packaging), By Vertical (E-Commerce, Automotive, Electricals and Electronics, Chemical, Rubber & Plastics, Food and Beverages, Pharmaceutical, Others) By Country, Competition, Forecast and Opportunities, 2028

<https://marketpublishers.com/r/S7E6336001AFEN.html>

Date: October 2023

Pages: 80

Price: US\$ 3,500.00 (Single User License)

ID: S7E6336001AFEN

Abstracts

Saudi Arabia warehouse robotics market is anticipated to grow at a robust pace during the forecast period, 2024-2028. Saudi Arabia is experiencing significant growth and is expected to continue expanding in the coming years. The adoption of warehouse robotics in Saudi Arabia is driven by the need for increased efficiency, accuracy, and cost-effectiveness in warehouse operations.

The Saudi government has been actively promoting the adoption of advanced technologies, including robotics, as part of its Vision 2030 plan to diversify the economy

and reduce dependency on oil. This has led to increased investments in robotics and automation across various industries, including warehousing. Like many other countries, Saudi Arabia has witnessed a rapid rise in e-commerce, especially during the COVID-19 pandemic. This has increased the demand for efficient warehousing solutions to manage the growing volume of online orders, which has driven the adoption of warehouse robotics. The availability of skilled labour for warehousing operations in Saudi Arabia has been a challenge, particularly for repetitive and physically demanding tasks. Warehouse robotics provides a solution by automating such tasks and reducing dependency on manual labour. Warehouse robotics can help reduce operational costs overall by optimizing inventory management, reducing errors, and improving order fulfilment speed. This cost-saving potential has encouraged many warehouse operators in Saudi Arabia to invest in robotics. The advancements in robotics technology, such as the development of collaborative robots (cobots), autonomous mobile robots (AMRs), and robotic picking systems, have made warehouse robotics more sophisticated, efficient, and adaptable to different warehouse environments.

The warehouse robotics market in Saudi Arabia includes a wide range of applications, such as goods-to-person picking, palletizing, sorting, and transportation. Key players in the warehouse robotics market in Saudi Arabia include international companies like KUKA AG, Fanuc Corporation, ABB Ltd., and local companies like SISCO Robotics and OTTO Motors.

Higher Adoption for Industrial Automation in Manufacturing in Saudi Arabia

The Saudi government has launched various initiatives to promote automation in the manufacturing industry. For instance, the Saudi Vision 2030 aims to increase the contribution of the manufacturing sector to the GDP and reduce the reliance on oil exports. The government has also established the National Industrial Development and Logistics Program (NIDLP) to promote the development of the manufacturing sector and encourage investment in automation technologies. Saudi Arabia has a large pool of young, educated, and technically skilled workers. With the availability of a skilled labor force, the implementation of automation technologies can be streamlined and cost-effective. The cost of labor is increasing in Saudi Arabia due to factors such as rising living costs and an increase in the minimum wage. This has made it more cost-effective for manufacturers to invest in automation technologies to reduce labor costs and increase efficiency. By adopting automation technologies, manufacturers in Saudi Arabia can improve their productivity, reduce errors, and increase their speed to market. This can help them gain a competitive advantage in the market. Consumers are

increasingly demanding higher quality products at lower costs. Automation technologies such as robots can help manufacturers in Saudi Arabia meet these demands by improving the accuracy and consistency of their products while reducing production costs. In conclusion, with the government's initiatives, a skilled labour force, rising labor costs, competitive advantage, and changing consumer preferences, the manufacturing industry in Saudi Arabia is well-positioned to adopt industrial automation technologies to improve productivity, reduce costs, and gain a competitive edge.

Investments in Industry 4.0

The Kingdom of Saudi Arabia has identified Industry 4.0 as a key driver of economic growth and has taken steps to invest in and develop its digital infrastructure. Warehouse Robotics, which refers to the use of sensors and other connected devices to improve manufacturing processes, is particularly relevant in Saudi Arabia given its significant manufacturing sector. The government has launched several initiatives to promote the adoption of Warehouse Robotics, including the Saudi IoT Initiative, which aims to encourage the use of IoT in various sectors, including manufacturing.

One of the key drivers of this investment is Saudi Arabia's Vision 2030 plan, which aims to diversify the economy away from its dependence on oil and create a thriving knowledge-based society. To achieve this goal, the government has identified Industry 4.0 technologies, such as IoT, as critical to transforming the manufacturing sector and boosting economic growth.

In line with this vision, several initiatives have been launched to promote investments in Industry 4.0 and Saudi Arabia warehouse robotics market. For example, the Saudi Arabian General Investment Authority (SAGIA) has established a specialized unit to attract investments in emerging technologies, including Industry 4.0 and IoT. The unit aims to facilitate investment in these technologies and support the development of a knowledge-based economy.

Another initiative is the creation of 'smart factories' in the country. Smart factories use advanced technologies, such as IoT, artificial intelligence, and big data, to optimize production processes and increase efficiency. Saudi Arabia has launched several smart factory projects in collaboration with global technology companies, such as Siemens, to enhance the country's manufacturing capabilities and competitiveness.

Furthermore, the Saudi government has established several funding programs to support startups and small and medium-sized enterprises (SMEs) in the adoption of

Industry 4.0 and IoT technologies. These programs offer financial support, mentorship, and access to specialized resources to help companies innovate and grow.

In addition to government-led initiatives, there has been an increase in private sector investments towards Industry 4.0 in Saudi Arabia. Many companies, including local and international firms, are investing in research and development, pilot projects, and commercial deployments of Industry 4.0 technologies to gain a competitive edge and improve their operations.

Overall, Saudi Arabia is actively investing in Industry 4.0 to drive economic diversification, enhance productivity, and promote innovation. The government's focus on developing digital infrastructure, fostering innovation, and building a skilled workforce, combined with private sector investments, is expected to accelerate the adoption of Industry 4.0 technologies in Saudi Arabia and position the country as a regional leader in advanced manufacturing and digital transformation.

Increased Productivity and Efficiency

Warehouse robotics can significantly increase productivity and efficiency by automating repetitive tasks, reducing errors, and optimizing warehouse operations. This can lead to faster order fulfilment, improved inventory accuracy, and higher throughput and warehouse robotics can improve workplace safety by automating hazardous or physically demanding tasks. AI and machine learning are being used to improve the capabilities of warehouse robotics, such as object recognition, path planning, and task optimization. AI-powered robotics can continuously learn and adapt to changing warehouse environments, making them more efficient and effective over time. Warehouse robotics are increasingly being connected to the cloud, allowing for remote monitoring, control, and data analysis. Cloud connectivity enables real-time tracking of robots, predictive maintenance, and optimization of warehouse operations.

Market Segmentation

Saudi Arabia warehouse robotics market is segmented based on software, type, payload, function, and vertical. Based on software, the market is segmented into warehouse management system, warehouse control system, and warehouse execution systems. Based on type, the market is segmented into mobile robots, articulated robots, cylindrical robots, scara robots, parallel robots, and cartesian robots. Based on payload, the market is further bifurcated into 0.5 Kg to 10 Kg, 11 Kg to 80 Kg, 81 Kg to 180 Kg, 181 Kg to 300 Kg, 301 Kg to 900 Kg, and more than 900 Kg. Based on function, the

market is segmented into pick & place, assembling & disassembling, transportation, and packaging. Based on vertical, the market is further split into e-commerce, automotive, electricals and electronics, chemical, rubber & plastics, food and beverages, pharmaceutical, and others.

Market Players

Major market players in the Saudi Arabia warehouse robotics market are SABB Technologies, Wadi Makkah Ventures, Inceptio Technology-Saudi Arabia, Murabba Warehousing Solutions, Arab Robotics, Saudi Automation Company, SAE Logistics, Honeywell Turki Arabia Ltd, SSI Schaefer LLC (Saudi Arabia), and Quara Robotics.

Report Scope:

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

Saudi Arabia Warehouse Robotics Market, By Software:

Warehouse Management System

Warehouse Control System

Warehouse Execution Systems

Saudi Arabia Warehouse Robotics Market, By Type:

Mobile Robots

Articulated Robots

Cylindrical Robots

Scara Robots

Parallel Robots

Cartesian Robots

Saudi Arabia Warehouse Robotics Market, By Payload:

0.5 Kg to 10 Kg

11 Kg to 80 Kg

81 Kg to 180 Kg

181 Kg to 300 Kg

301 Kg to 900 Kg

More than 900 Kg

Saudi Arabia Warehouse Robotics Market, By Function:

Pick & Place

Assembling & Disassembling

Transportation

Packaging

Saudi Arabia Warehouse Robotics Market, By Vertical:

E-Commerce

Automotive

Electricals and Electronics

Chemical, Rubber & Plastics

Food and Beverages

Pharmaceutical

Others

Saudi Arabia Warehouse Robotics Market, By Region:

Riyadh

Makkah

Eastern Province

Rest of Saudi Arabia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Saudi Arabia warehouse robotics market.

Available Customizations:

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. VOICE OF CUSTOMERS

5. SAUDI ARABIA WAREHOUSE ROBOTICS MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Software (Warehouse Management System, Warehouse Control System, and Warehouse Execution Systems)
 - 5.2.2. By Type (Mobile Robots, Articulated Robots, Cylindrical Robots, Scara Robots, Parallel Robots, and Cartesian Robots)
 - 5.2.3. By Payload (0.5 Kg to 10 Kg, 11 Kg to 80 Kg, 81 Kg to 180 Kg, 181 Kg to 300 Kg, 301 Kg to 900 Kg, and More than 900 Kg)
 - 5.2.4. By Function (Pick & Place, Assembling & Disassembling, Transportation, and Packaging)

5.2.5. By Vertical (E-Commerce, Automotive, Electricals and Electronics, Chemical, Rubber & Plastics, Food and Beverages, Pharmaceutical, and Others)

5.2.6. By Region

5.3. By Company (2022)

5.4. Market Map

5.4.1. By Software

5.4.2. By Type

5.4.3. By Payload

5.4.4. By Function

5.4.5. By Vertical

5.4.6. By Region

6. RIYADH WAREHOUSE ROBOTICS MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Software

6.2.2. By Type

6.2.3. By Payload

6.2.4. By Function

6.2.5. By Vertical

7. MAKKAH WAREHOUSE ROBOTICS MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Software

7.2.2. By Type

7.2.3. By Payload

7.2.4. By Function

7.2.5. By Vertical

8. EASTERN PROVINCE WAREHOUSE ROBOTICS MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Software

8.2.2. By Type

8.2.3. By Payload

8.2.4. By Function

8.2.5. By Vertical

9. MARKET DYNAMICS

9.1. Drivers

9.2. Challenges

10. MARKET TRENDS & DEVELOPMENTS

11. POLICY & REGULATORY LANDSCAPE

12. SAUDI ARABIA ECONOMIC PROFILE

13. COMPANY PROFILES

13.1. SABB Technologies

13.1.1. Business Overview

13.1.2. Key Revenue and Financials

13.1.3. Recent Developments

13.1.4. Key Personnel

13.1.5. Key Product/Services

13.2. Wadi Makkah Ventures

13.2.1. Business Overview

13.2.2. Key Revenue and Financials

13.2.3. Recent Developments

13.2.4. Key Personnel

13.2.5. Key Product/Services

13.3. Inceptio Technology-Saudi Arabia

13.3.1. Business Overview

13.3.2. Key Revenue and Financials

13.3.3. Recent Developments

13.3.4. Key Personnel

- 13.3.5. Key Product/Services
- 13.4. Murabba Warehousing Solutions
 - 13.4.1. Business Overview
 - 13.4.2. Key Revenue and Financials
 - 13.4.3. Recent Developments
 - 13.4.4. Key Personnel
 - 13.4.5. Key Product/Services
- 13.5. Arab Robotics
 - 13.5.1. Business Overview
 - 13.5.2. Key Revenue and Financials
 - 13.5.3. Recent Developments
 - 13.5.4. Key Personnel
 - 13.5.5. Key Product/Services
- 13.6. Saudi Automation Company
 - 13.6.1. Business Overview
 - 13.6.2. Key Revenue and Financials
 - 13.6.3. Recent Developments
 - 13.6.4. Key Personnel
 - 13.6.5. Key Product/Services
- 13.7. SAE Logistics
 - 13.7.1. Business Overview
 - 13.7.2. Key Revenue and Financials
 - 13.7.3. Recent Developments
 - 13.7.4. Key Personnel
 - 13.7.5. Key Product/Services
- 13.8. Honeywell Turki Arabia Ltd
 - 13.8.1. Business Overview
 - 13.8.2. Key Revenue and Financials
 - 13.8.3. Recent Developments
 - 13.8.4. Key Personnel
 - 13.8.5. Key Product/Services
- 13.9. SSI Schaefer LLC (Saudi Arabia)
 - 13.9.1. Business Overview
 - 13.9.2. Key Revenue and Financials
 - 13.9.3. Recent Developments
 - 13.9.4. Key Personnel
 - 13.9.5. Key Product/Services
- 13.10. Quara Robotics
 - 13.10.1. Business Overview

13.10.2. Key Revenue and Financials

13.10.3. Recent Developments

13.10.4. Key Personnel

13.10.5. Key Product/Services

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

(Note: The companies list can be customized based on the client requirements.)

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