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Global Retail Robotics Market Size study & Forecast, by Type (Mobile Robotics, Stationary Robotics, Semi-Autonomous) By Application (Inventory Management, Delivery Management, In-Store Services, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Retail Robotics Market is valued approximately at USD 13.16 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 31.61% over the forecast period 2023-2030. Retail Robotics refer to the use of robotic systems and automation technologies in various aspects of the retail industry. These technologies are designed to perform tasks traditionally carried out by humans, with the aim of improving efficiency, reducing costs, and enhancing overall operations within a retail environment. The Retail Robotics market is expanding because of factors such as increasing number of retail sales and rising demand of retail automation. As a result, the demand of Retail Robotics has progressively increased in the international market during the forecast period 2023-2030.

Retail sales frequently drive the integration of cutting-edge technologies, resulting in increased investment in robotic automation. This business strategy not only improves competitiveness but also optimizes supply chain operations, offering clients with innovative solutions. According to Statista, the global retail sales were approximately USD 26.4 trillion in 2021 and projected to reach up to USD 32.8 trillion by 2026. Another important factor driving the retail robotics market is increasing demand of retail automation. Retail automation through robotics enhances operational efficiency and productivity. Robots can perform repetitive and time-consuming tasks with precision and speed, freeing up human resources to focus on more complex and value-added activities. This efficiency gains are attractive to retailers looking to optimize their operations. In addition, as per Statista, in 2021, the global retail automation market

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accounts USD 12.2 billion and the market is projected to grow up to USD 33 billion by the year 2030. Moreover, technological advancements associated to inventory management robotic automation and growing trend for personalized services in retails sector is anticipated to create a lucrative growth opportunity for the market over the forecast period. However, high development cost of retail robotics and challenges associated to operational activities of robots is going to impede overall market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Retail Robotics Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 with largest market share owing to the growing demand for semi-autonomous robots among retail industry in the region. Semi-autonomous robots can streamline various tasks in the retail sector, such as inventory management, restocking shelves and order fulfillment. This efficiency can lead to increased productivity, as robots can work around the clock without the need for breaks. The region’s dominant performance is anticipated to propel the overall demand of Retail Robotics. Furthermore, Asia Pacific is expected to grow as the fastest growing region during the forecast period, owing to factors such as expansion of retail industry in the region. Automation in retail sector can enhance the overall customer experience. Robots can assist customers in finding products, provide information and offer a more personalized shopping experience. This improved customer service can lead to increased customer satisfaction and loyalty.

Major market player included in this report are:

Amazon Robotics LLC

Bossa Nova Robotics Inc

Simbe Robotics, Inc

ABB Robotics AB

GreyOrange S.A.

Honda Motor Co., Ltd

Universal Robots A/S

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Fetch Robotics, Inc

Bastian Solutions, Inc

Daifuku Co., Ltd

Recent Developments in the Market:

In November 2023, Brain Corp, an artificial intelligence company that develops transformative core technology in robotics and AI, and Dane Technologies, a leader in designing and manufacturing power assist solutions, announced an expanded partnership to develop inventory scanning retail solutions based on Brain Corp's next generation robotics platform. The next-generation platform, developed with a new, modular architecture, is the latest iteration of Brain Corp's BrainOS robotics platform, which presently powers over 30,000 autonomous robots in commercial public places. The next generation robotics platform was developed to support a future generation of intelligent robotic systems that can be implemented across many commercial industries, allowing for faster and easier product creation.

Global Retail Robotics Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

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

Segments Covered - Type, Application, Region

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

Customization Scope - Free report customization (equivalent up to 8 analyst’s working hours) with purchase. Addition or alteration to country, regional &

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segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type

Mobile Robotics

Stationary Robotics

Semi-Autonomous

By Application

Inventory Management

Delivery Management

In-Store Services

Others

By Region:

North America

U.S.

Canada

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Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

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South Africa

Rest of Middle East & Africa

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