

# **Warehouse Robotics Market by Type (AMR, AGV, Articulated, Cylindrical, SCARA, COBOT, Parallel, Cartesian), Payload Kg (200), Function (Transportation, Pick & Place, Palettizing, Packaging), Industry, Region - Global Forecast to 2028**

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## **Abstracts**

The warehouse robotics market is projected to reach USD 10.5 billion by 2028 from USD 6.1 billion in 2023, at a CAGR of 11.4% from 2023 to 2028. Rising demand for Last-Mile Delivery with Autonomous Mobile Robots (AMRs) and Potential growth in customization and application of autonomous mobile robots (AMRs) are the major opportunities in the market.

Increasing use of COBOTS in warehouse to propel market growth.

COBOTS (Collaborative Robots) are increasingly used in warehouses due to their ability to work alongside human operators, enhancing productivity and safety. They automate repetitive tasks, improve efficiency, and optimize operations, leading to cost savings and higher output. The market for COBOTS is expected to rise due to the growing demand for automation solutions that enhance warehouse operations while maintaining a collaborative work environment.

Increased use of warehouse robots for picking and placing to fuel market growth.

Picking and placing functional robots are witnessing a significant rise in the field of warehouse robotics. These robots are designed to handle complex tasks such as item identification, precise grasping, and efficient placement, improving the speed and accuracy of order fulfillment processes. Their adoption is increasing as businesses aim to streamline operations, reduce labor costs, and enhance overall warehouse efficiency.

Rise in demand for 20-100kg payload capacity robots to fuel market growth.

The warehouse robotics industry is witnessing a notable increase in the utilization of robots with a payload capacity ranging from 20 to 100 kg. These robots are designed to handle heavier loads, making them ideal for palletizing, stacking, and transporting bulk items. By leveraging their enhanced payload capacity, warehouses can streamline operations, automate labor-intensive tasks, and improve productivity.

North America is expected to account for the second highest market share and growth rate during the forecast period.

The market in North America accounted for the largest share of the infrared imaging market in 2023. The North American infrared imaging market has grown substantially due to increasing demand across various industries, such as defense and security, healthcare, and industrial automation. Factors driving this growth include technological advancements, rising awareness about the benefits of infrared imaging, and the need for enhanced efficiency, safety, and quality control in these sectors.

The break-up of profile of primary participants in the infrared imaging market

By Company Type: Tier 1 – 38%, Tier 2 – 28%, Tier 3 – 34%

By Designation Type: C Level – 40%, Director Level – 30%, Others – 30%

By Region Type: North America – 35%, Europe – 35%, Asia Pacific – 20%, Rest of the World – 10%

The major players of infrared imaging market are Daifuku Co., Ltd. (Japan), KION GROUP AG (Germany), KUKA AG (Germany), ABB (Switzerland), FANUC CORPORATION (Japan), Geekplus Technology Co., Ltd. (China), GreyOrange (US), among others.

## Research Coverage

The report segments the warehouse robotics market and forecasts its size based on type, function, payload capacity, industry, component, software, Robotics as a Service and Region. The report also provides a comprehensive review of drivers, restraints,

opportunities, and challenges influencing market growth. The report also covers qualitative aspects in addition to the quantitative aspects of the market.

Reasons to buy the report:

The report will help the market leaders/new entrants in this market with information on the closest approximate revenues for the warehouse robotics market and related segments. This report will help stakeholders understand the competitive landscape and gain more insights to strengthen their position in the market and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

**Market Dynamics:** Analysis of key drivers (Expansion of e-commerce industry driving significant revenue growth; Rise in funding from venture capitalists in warehouse robotics; Increasing need for improving quality and reliability of operations in warehouses; Growing adoption of warehouse robotics by small- and medium-sized enterprises (SMEs); Rapid developments in robotics and artificial intelligence), restraints (High setup costs and infrastructure requirements; Skilled workforce shortage in warehouse robotics market; Technical complexities limiting widespread adoption of autonomous mobile robots (AMRs)), opportunities (Transformation of warehouses through integration of industry 4.0 and warehouse robotics; Classification and opportunities in autonomous mobile robots (AMRS) for warehouse applications; Rising demand for Last-Mile Delivery with Autonomous Mobile Robots (AMRs); Potential growth in customization and application of autonomous mobile robots (AMRS)), and challenges (Concerns regarding cybersecurity of Connected Robotics in the Industry 4.0; Low of awareness regarding Warehouse Robotics in developing countries and Lack of standardization and interoperability in warehouse robotics).

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product launches in the warehouse robotics market

**Market Development:** Comprehensive information about lucrative markets – the report analyses the infrared imaging market across varied regions

**Market Diversification:** Exhaustive information about new products, untapped geographies, recent developments, and investments in the warehouse robotics market

**Competitive Assessment:** In-depth assessment of market shares, growth strategies and product offerings of leading players like Daifuku Co., Ltd. (Japan), KION GROUP AG (Germany), KUKA AG (Germany), ABB (Switzerland), FANUC CORPORATION (Japan), Geekplus Technology Co., Ltd. (China), GreyOrange (US), among others.

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\*Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

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