

# **Autonomous Mobile Robots Market Forecast to 2030 - Global Analysis by Component (Hardware and Software & Services), Type (Picking Robots, Self-Driving Forklifts, and Autonomous Inventory Robots), and End Use (Manufacturing and Distribution & Warehousing)**

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## **Abstracts**

The Autonomous Mobile Robots market was valued at US\$ 1.40 billion in 2022 and is expected to reach US\$ 8.72 billion by 2030; it is expected to register a CAGR of 25.7% from 2023 to 2030.

Autonomous mobile robots are portable solution for various operations in manufacturing and warehouses, as it offers convenience to perform task at required locations. They are used in logistics, manufacturing, distribution, and other applications. Autonomous mobile robots can transport goods within a warehouse or factory. They can also be used to pick and place items or to assemble products. It can perform various manufacturing tasks, such as material handling, painting, and assembly. They can also be used to inspect products or perform quality control checks. Considering the above factors the autonomous mobile robots market is expected to register significant growth during the forecasting period of 2023-2030.

The advantage of an AMR is its ability to understand the operating environment, which enables it to navigate around obstacles and operate safely in the presence of human operators. In contrast to an automated guided vehicle, which needs some form of guided paths, such as QR codes or magnetic tape, to navigate its environment; an AMR uses data from laser scanners, cameras, and other sensors to understand its operating environment and make decisions regarding its functions such as movement.

Autonomous technologies and IoT advancements created an environment for adopting autonomous mobile robots across various industries. AMRs allow automotive manufacturers to streamline the material flow, achieve efficient production, and shorten lead time. Moreover, as automotive manufacturers prioritize flexibility over volume, with the adoption of Just-In-Time (JIT) manufacturing techniques, AMRs are becoming increasingly popular as a logistic solution that can adapt rapidly to changing production processes and layouts. The growing adoption of robotics in vehicle manufacturing is accelerating the production, driving the autonomous mobile robots market growth. Automotive manufacturers, such as BMW and Toyota, are investing to leverage robotics in manufacturing to increase their share in the automotive market. BMW partnered with Nvidia to develop automotive mobile robots for internal use in their factories for automated material handling.

Changes in the lifestyle and purchasing patterns of customers with the rise in their disposable income have been driving people's tendency to purchasing of goods from online platforms. Online sales platforms allow customers to choose from a wide range of products, and save time and money compared to brick-and-mortar stores. The increasing penetration of the Internet and smartphones also justify customers' preference for online shopping. According to the India Brand Equity Foundation, the number of online shoppers in India was 150 million in 2021 and is expected to reach 350 million by 2026. Further, a rise in the e-commerce industry has led to the increased transportation of goods, significantly propelling the growth of the autonomous mobile robots market by boosting warehouse activities and improving supply chain operations. Many e-commerce industry players are rapidly adopting automated solutions such as autonomous mobile robots to manage the vast volumes of goods and associated information and meet customers' expectations for faster deliveries.

The autonomous mobile robots market analysis is segmented on the basis of components, type, and end use. Based on components, the autonomous mobile robots market is segmented into hardware, software, and services. Based on type, the autonomous mobile robots market is segmented into picking robots, self-driving forklifts, and autonomous inventory robots. In terms of end use, the autonomous mobile robots market is bifurcated into manufacturing and distribution and warehousing.

KUKA AG, Milvus Robotics, Geekplus Technology Co Ltd, OMRON Corp, Clearpath Robotics Inc, Locus Robotics Corp, Move Robotic Sdn Bhd, Teradyne Inc, Kivnon Logistica SLU, and Boston Dynamics Inc are among the key players in the autonomous mobile robots market size that were profiled in this market study. In addition to these

players, other leading global and regional players, emerging companies, and niche market players were studied and analyzed during the study.

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