

Mobile Robotics Market By Application (Logistics and Warehousing, Military and Defense, Healthcare, Domestic, Entertainment, Education, Agriculture and Forestry, Others), By Product (Unmanned Ground Vehicle (UGV), Unmanned Aerial Vehicle (UAV), Autonomous Underwater Vehicle (AUV)), By Component (Hardware, Software, Support and Service): Global Opportunity Analysis and Industry Forecast, 2024-2032

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Abstracts

The mobile robotics market was valued at \$19,625.13 million in 2023 and is estimated to reach \$99,194.24 million by 2032, exhibiting a CAGR of 19.8% from 2024 to 2032.

Mobile robotics is a branch of robotics that involves the development and use of robots capable of moving autonomously or semi-autonomously in various environments. These robots are designed to perform tasks in dynamic and unpredictable settings, ranging from warehouses and hospitals to outdoor exploration and disaster response scenarios. They are equipped with sensors, actuators, and advanced algorithms that enable navigation, obstacle avoidance, and interaction with their surroundings.

The global mobile robotics market is witnessing robust growth due to factors such as increase in focus of businesses to minimize operational expenses, optimize workflows, and achieve better return on investment as well as expansion of industries like manufacturing, logistics, and warehousing that are increasingly deploying mobile robots to improve efficiency, reduce labor costs, and address labor shortages. As per a 2024 article published by EMSNow—provider of daily news and views for the electronics

manufacturing world—mobile robotics are estimated to reach 2.8 million shipments by 2023. In addition, increase in use of mobile robotics in the healthcare sector for tasks like disinfection, delivery of supplies, and telemedicine significantly contributes toward the market growth. Moreover, the development of autonomous cars and drones is accelerating the growth of the mobile robotics market. As per a study published by Statista in 2023, 63% or more of all vehicles sold globally are expected to be integrated with Level 2 autonomy by 2025. Furthermore, the Federal Aviation Administration claimed that there are 791,597 drones registered as of October 2024. Thus, with increasing penetration of autonomous car and drone technologies, the mobile robotics market benefits from reduced R&D costs, leading to wider adoption and application of these technologies. Furthermore, surge in need for mobile robotics in the military and defense sector for surveillance, reconnaissance, and explosive ordnance disposal augments the market growth. However, high initial investment required for developing and deploying mobile robotics systems hampers the market growth. In addition, limited battery life and the need for frequent recharging reduce the operational efficiency of mobile robots, especially in applications requiring prolonged usage, thus restraining the market growth. Contrarily, innovations in sensors, such as LiDAR, cameras, and proximity sensors, enhance the navigation and perception capabilities of mobile robots, making them more reliable and versatile. Furthermore, advancements in battery efficiency and charging capabilities are enabling longer operational periods and reducing downtime for mobile robots. Such developments are expected to offer lucrative opportunities for the expansion of the global market during the forecast period.

The global mobile robotics market is segmented into application, product, component, and region. By application, the market is classified into logistics & warehousing, military & defense, healthcare, domestic, entertainment, education, agriculture & forestry, and others. On the basis of product, it is categorized into unmanned ground vehicle (UGV), unmanned aerial vehicle (UAV), and autonomous underwater vehicle (AUV). Depending on component, it is divided into hardware, software, and support & services. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

By application, the logistics & warehousing dominated the market in 2023.

On the basis of product, the unmanned aerial vehicle segment exhibited the highest growth in 2023.

Depending on component, the hardware segment led the mobile robotics market in

2023.

Region wise, Asia-Pacific dominated the mobile robotics market in 2023; LAMEA is expected to register the fastest CAGR from 2024 to 2032.

Competitive Analysis

The key players operating in the mobile robotics market include KONGSBERG, Kuka AG., Honda Motor Co., Ltd., iRobot Corporation, Lockheed Martin Corporation, Geekplus Technology Co., Ltd., Boston Dynamics, Amazon, Murata Machinery Ltd., and SoftBank Robotics Group (SoftBank Group). These key players have adopted strategies such as product portfolio expansion, mergers & acquisitions, agreements, geographical expansion, and collaborations to enhance their market penetration.

Key Benefits for Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the mobile robotics market analysis from 2023 to 2032 to identify the prevailing mobile robotics market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the mobile robotics market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global mobile robotics market trends, key players, market segments, application areas, and market growth strategies.

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Product Life Cycles

Technology Trend Analysis

Patient/epidemiology data at country, region, global level

Additional company profiles with specific to client's interest

Additional country or region analysis- market size and forecast

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

SWOT Analysis

Key Market Segments

By Application

Military and Defense

Healthcare

Domestic

Entertainment

Education

Agriculture and Forestry

Others

Logistics and Warehousing

By Product

Unmanned Ground Vehicle (UGV)

Unmanned Aerial Vehicle (UAV)

Autonomous Underwater Vehicle (AUV)

By Component

Hardware

Software

Support and Service

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Rest of Europe

Asia-Pacific

Japan

China

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

Lockheed Martin Corporation

Kuka AG.

KONGSBERG

Honda Motor Co., Ltd.

iRobot Corporation

Geekplus Technology Co., Ltd.

Boston Dynamics

Amazon

Murata Machinery, Ltd.

SoftBank Robotics Group (SoftBank Group.)

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