

Mobile Robots Market by Type (Professional and Personal & Domestic Robots), Application (Agricultural, Cleaning, Educational, Healthcare, Manufacturing, Warehousing & Logistics) and Region (North America, Europe, APAC, ROW) - Global Forecast to 2028

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Abstracts

The mobile robots market is estimated to be worth USD 20.3 billion in 2023 and is projected to reach USD 40.6 billion by 2028, at a CAGR of 14.9% during the forecast period. The growth of this market is attributed to the rising demand for mobile robots for healthcare and personal use and advancement in robotics technology.

“Personal & Domestic Robots type is expected to account for the second largest share in mobile robots market in 2023.”

The growth of personal and domestic robots is expected to accelerate due to advancements in technology, making them more accessible and affordable for consumers. These robots are becoming increasingly capable and affordable, offering various functions that range from household chores and entertainment to healthcare support. While personal robots serve as assistants or companions, domestic robots focus on specific tasks like cleaning, lawn mowing, and home security monitoring. The convenience, efficiency, and potential for enhancing our quality of life are key factors driving the higher growth rate of these robots in the mobile robots market. The rising demand for automation and smart home solutions, along with the continuous progress in artificial intelligence and sensor technologies, indicates that personal and domestic robots will revolutionize our daily lives and how we interact with technology.

“Agriculture application to hold the second largest share of mobile robots market in 2022.”

As the global population continues to grow and the need for sustainable food production becomes more urgent, there is a strong demand for innovative technologies in agriculture. The use of mobile robots holds great promise in transforming farming practices through the automation of various tasks, including planting, harvesting, crop monitoring, and precision spraying. These robots are capable of navigating uneven terrain, collecting real-time data, and executing operations with remarkable precision, leading to increased efficiency, reduced labor costs, and optimized resource utilization. Moreover, mobile robots empower farmers to make data-driven decisions, boost productivity, and minimize the environmental impact of their operations. As the agricultural industry increasingly embraces automation and integrates robotics, the adoption of mobile robots in farming is poised to have a significant impact, positioning it as a crucial player in the mobile robots market.

“North America to hold the largest market share of mobile robots market in 2022.”

North America benefits from a strong technological infrastructure and a thriving research and development ecosystem, which foster innovation in the field of robotics. Furthermore, the region's prominent tech companies, start-ups, and academic institutions dedicated to robotics play a crucial role in driving advancements in mobile robot technologies. Industries like manufacturing, healthcare, logistics, and defense actively embrace mobile robots in North America, seeking to enhance operational efficiency and gain a competitive advantage. Moreover, increasing demand for mobile robots in military applications and increasing demand for personal applications, such as education and entertainment, drives the mobile robots market in North America.

The break-up of the profiles of primary participants:

By Company Type – Tier 1 – 45%, Tier 2 – 30%, and Tier 3 – 25%

By Designation – C-level Executives – 35%, Directors – 45%, and Others – 20%

By Region – North America - 30%, Europe – 25%, Asia Pacific – 35%, and Rest of the World – 10%

Major players in the mobile robots market KUKA (Germany), ABB (Switzerland), Honda

Motor (Japan), Mobile Industrial Robots (Denmark) and Omron Automation (US).

Research Coverage

The report segments the mobile robots market by type, application, and region. The report also comprehensively reviews 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 with information on the closest approximate revenues for the overall mobile robots 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 market pulse and provides information on key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (increasing adoption of mobile robots for healthcare and personal use, rapid growth of mobile robots in e-commerce and warehousing, rapid advancements in robotics and artificial intelligence is driving the market), restraints (limited adaptability of mobile robots to unstructured environments, high initial investment and technological issues is hindering the growth of the market), opportunities (adoption of industry 4.0 technologies in warehousing and industrial automation, increased demand for customized mobile robots), and challenges (integration of mobile robots with existing system, lack of skilled workforce to operate mobile robots) influencing the growth of the mobile robots market.

Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the mobile robots market.

Market Development: Comprehensive information about lucrative markets – the report analyses the mobile robots market across varied regions.

Market Diversification: Exhaustive information about new products, untapped

geographies, recent developments, and investments in the mobile robots market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like KUKA (Germany), ABB (Switzerland), Honda Motor (Japan), Mobile Industrial Robots (Denmark) and Omron Automation (US).

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*Details on Business Overview, Products 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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