Healthcare Mobile Robots Market Set to Surge to $10.4 Bn by 2030 | Persistence Market Research

The Healthcare Mobile Robot Market is experiencing rapid growth, driven by increasing adoption of automation and robotics in healthcare.

Healthcare Mobile Robot Market Growth Analysis

BRENTFORD, ENGLAND, UNITED KINGDOM, October 8, 2025 /EINPresswire.com/ -- The healthcare mobile robot market is playing an increasingly vital role in transforming patient care, hospital operations, and clinical workflows. These robots are extensively used for tasks such as medication delivery, sanitation, patient monitoring, and logistics in hospitals, clinics, and long-term care facilities. They enhance operational efficiency, reduce human error, minimize infection risks, and support healthcare staff in managing high patient volumes.

According to the latest study by Persistence Market Research, the global healthcare mobile robot market is forecast to expand at a CAGR of 16.2% and thereby increase from a value of US$3.6 Bn in 2023, to US$10.4 Bn by the end of 2030. Growth is mainly driven by rising demand for automation in healthcare, labor shortages, and the increasing need for infection control and telemedicine-enabled solutions.
Market expansion is further supported by adoption in elderly care and rehabilitation centers, where robots assist with patient mobility, medication reminders, and real-time health monitoring. Among the product categories, autonomous mobile robots (AMRs) remain the leading segment, offering flexibility, navigation accuracy, and scalability in hospital environments.
Geographically, North America dominates the global market, attributed to a strong presence of advanced healthcare infrastructure, high adoption of robotics, and continuous investment in healthcare technology. Countries like the U.S., Germany, and Japan are central to this dominance due to their early adoption of robotic healthcare solutions and growing geriatric population.

Request a Sample: https://www.persistencemarketresearch.com/samples/33972

Key Market Insights

• The market is forecast to expand at a CAGR of 16.2% and thereby increase from a value of US$3.6 Bn in 2023, to US$10.4 Bn by the end of 2030.
• Autonomous mobile robots (AMRs) are the leading product type, widely used in hospitals for delivery and monitoring.
• North America dominates the market, supported by advanced healthcare infrastructure and high technology adoption.
• Growing demand for contactless operations and infection control is shaping product innovation.
• Telemedicine integration is creating new opportunities for remote patient monitoring robots.

What are the main drivers of the healthcare mobile robot market?

The primary drivers include labor shortages in healthcare facilities, rising demand for operational efficiency, and the need to reduce hospital-acquired infections. Mobile robots improve workflow efficiency by automating routine tasks like delivery, sanitation, and patient monitoring, allowing medical staff to focus on critical care. Additionally, telemedicine adoption and smart hospital initiatives are accelerating demand for mobile robots capable of remote interaction, diagnostics, and monitoring. Increasing investments in healthcare technology and government support for automation further fuel market growth.

Request a Customization: https://www.persistencemarketresearch.com/request-customization/33972

Market Dynamics

Drivers: Surging adoption of robotics in hospitals, rising labor costs, and the growing need for infection control and telehealth integration.
Market Restraining Factor: High initial capital investment, complex integration with existing hospital infrastructure, and regulatory challenges are significant restraints.
Key Market Opportunity: Development of AI-enabled and multifunctional mobile robots offers a major opportunity. Companies investing in smart, autonomous solutions can gain a competitive advantage while meeting evolving healthcare needs.

Market Segmentation

The healthcare mobile robot market can be segmented by product type, application, and end-user.
• By Product Type: Autonomous mobile robots (AMRs), service robots, and collaborative robots (cobots). Among these, AMRs dominate due to their versatility in delivery, sanitation, and monitoring tasks. Service robots are gaining traction in patient care, assisting with telemedicine, rehabilitation, and mobility support.

• By Application: Delivery, disinfection & sanitation, patient monitoring, and telepresence. Delivery applications account for the largest market share, as hospitals increasingly rely on robots to transport medicines, lab samples, and supplies efficiently and safely. Disinfection robots also see high adoption due to rising hygiene standards post-pandemic.
• By End-User: Hospitals, long-term care facilities, clinics, and rehabilitation centers. Hospitals remain the largest end-user segment, driven by high patient volumes, advanced infrastructure, and the need for automation in critical operations.

Regional Insights

North America remains the largest and fastest-growing region, driven by a robust healthcare infrastructure, high adoption of robotics, and supportive government initiatives. Europe follows, supported by aging populations and investments in smart hospitals. Asia Pacific is emerging as a promising market due to rising healthcare expenditure, increasing hospital construction, and growing awareness of robotic solutions. Meanwhile, Latin America and the Middle East & Africa are witnessing gradual adoption, with opportunities driven by private hospital investments and telemedicine integration.

Buy Now: https://www.persistencemarketresearch.com/checkout/33972

Competitive Landscape

The healthcare mobile robot market is competitive, with key players focusing on technological innovation, strategic partnerships, and regional expansion to strengthen their positions.
Company Insights
 Swisslog Healthcare
 Aethon Inc.
 Cyberdyne Inc.
 ABB Ltd.
 Panasonic Corporation
 Medtronic plc
 SoftBank Robotics
 Robotise GmbH
 Omron Corporation
 Savioke Inc.

Key Industry Developments

Several companies have recently focused on AI-enabled mobile robots to enhance operational efficiency and patient interaction. Collaborations with hospitals to deploy fully integrated solutions are becoming common. Expansion of manufacturing and service centers in high-demand regions, particularly North America and Asia Pacific, is another noticeable trend.

Innovation and Future Trends

The future of the healthcare mobile robot market lies in AI integration, autonomous navigation, and multifunctional applications. Development of robots capable of simultaneous delivery, sanitation, and patient monitoring is expected to create a new wave of demand. Additionally, integration with hospital information systems and telemedicine platforms will enhance patient care while optimizing workflow efficiency. These innovation-driven trends position the market for strong long-term growth.

Explore the Latest Trending Research Reports:

Reprocessed Single-Use Devices Market - The global reprocessed single-use devices market size is likely to value at US$1.9 Bn in 2025 and reach US$4.7 Bn by 2032, growing at a CAGR of 13.8% during the forecast period from 2025 to 2032.

Hospital Acquired Infection Control Market - The global hospital acquired infection control market size is likely to value at US$20.6 Bn in 2025 and is estimated to reach US$32.9 Bn in 2032, growing at a CAGR of 6.9% during the forecast period 2025 - 2032.

Smita Kasar
Persistence Market Research
+1 646-878-6329
email us here
Visit us on social media:
LinkedIn
Instagram
Facebook
YouTube
X
