

Service Robotics Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025-2034

<https://marketpublishers.com/r/S46543AC1FCEEN.html>

Date: February 2025

Pages: 210

Price: US\$ 4,850.00 (Single User License)

ID: S46543AC1FCEEN

Abstracts

The Global Service Robotics Market was valued at USD 36.1 billion in 2024 and is expected to grow at a CAGR of 17.1% from 2025 to 2034. Service robots are autonomous or semi-autonomous machines designed to perform specific tasks that assist humans across various sectors without the need for direct human intervention. These robots are increasingly being used in industries such as healthcare, hospitality, retail, and personal assistance.

The rise in demand for service robotics is driven by several factors, including labor shortages, increasing operational costs, and the need for automation in repetitive or hazardous tasks. Technological advancements in robotics and artificial intelligence have made robots more efficient, safer, and cost-effective, contributing to their widespread adoption. The aging global population is further driving the demand for robots, especially in healthcare and eldercare, where robots assist in patient care and daily activities. The ongoing trend toward automation, particularly in manufacturing and logistics, along with the impact of the COVID-19 pandemic, has further accelerated the adoption of service robots in various sectors.

The service robotics market is segmented into professional and personal robots. The professional robot segment, which includes robots used in commercial and industrial settings, is projected to exceed USD 135.74 billion by 2034. This segment is expanding rapidly due to the growing demand for automation in industries that require high precision and efficiency. Robots are being increasingly adopted in fields like healthcare, logistics, and workplace safety to perform tasks that range from surgery to hazardous environment operations.

The market is also divided based on mobility, into mobile robots and fixed robots. Fixed

robots dominate the market and are expected to see a CAGR of 17.7% from 2025 to 2034. These robots are preferred in environments that require precision and stability, such as in healthcare laboratories, logistics, and research. Their popularity is rising as industries seek to improve efficiency, minimize errors, and enhance throughput in specialized tasks.

In North America, the U.S. holds a dominant share of 71.8% of the service robotics market. The growth of the service robotics sector in the U.S. is fueled by a need for automation across industries like logistics, healthcare, and manufacturing, as well as the increasing popularity of smart home robots. The country's large e-commerce market is also driving demand for robots in warehouse and delivery operations. Additionally, government initiatives and significant investments from technology companies are further accelerating the development and deployment of service robots in various sectors.

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