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Service Robotics Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Operating Environment (Land, Aerial, Marine), By Application (Professional, Personal and Domestic), By End User (Healthcare, Defense, Field, Logistics, Others), By Region & Competition, 2021-2031F

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Abstracts

The Global Service Robotics Market is anticipated to expand from USD 24.44 Billion in 2025 to USD 63.24 Billion by 2031, reflecting a compound annual growth rate of 17.17%. This sector involves partially or completely autonomous machines built to execute valuable tasks for individuals or systems beyond conventional manufacturing roles. Key forces driving this industry include critical workforce shortages in professional fields worldwide and demographic changes characterized by an aging society that demands automated healthcare support. Rather than being fleeting technological fads, these primary drivers establish a solid foundation for persistent market demand. Furthermore, the International Federation of Robotics noted that global sales of professional service robots approached 200,000 units in 2025.

Even with consistent industry growth and rising adoption, financial obstacles persist. A major hurdle threatening to hinder market growth is the heavy upfront capital investment needed for acquiring and integrating these systems. Such steep financial requirements frequently discourage smaller businesses from implementing these automated solutions, ultimately restricting the wider penetration of the market.

Market Driver

The Global Service Robotics Market is directly propelled by the escalating need for

warehouse and logistics automation, fueled by the rapid expansion of electronic commerce. With the exponential growth of online retail, businesses face intense pressure to speed up order fulfillment and manage changing inventory levels. As a result, autonomous mobile robots are being introduced in distribution centers to replace manual material handling, enabling continuous facility operations and shorter order cycles. As stated in the September 2025 article 'Key Warehouse Automation Trends in 2026' by BPS Logistics Technology, autonomous mobile robots are projected to make up more than 60 percent of new automation installations in distribution centers by late 2026. Automating intralogistics processes is essential for companies aiming to achieve vital operational scalability.

A second significant driver reshaping the sector is the swift progress in artificial intelligence and machine learning capabilities. Improved algorithmic processing empowers machines to maneuver through dynamic environments and adapt to unforeseen situations without requiring continuous human oversight. This cognitive leap transitions operations from inflexible tasks to autonomous problem-solving. Highlighting this trend, an October 2025 article by SQ Magazine titled 'AI in Robotics Statistics 2026' reported that artificial intelligence-enabled systems account for 57 percent of the service robots actively deployed globally. Additionally, the International Federation of Robotics recorded 944 active service robot producers worldwide in 2025. Such a broad manufacturing base underscores the robust commercial expansion fueled by intelligent automation.

Market Challenge

A prominent financial obstacle in the Global Service Robotics Market is the necessity for substantial initial capital investments. Organizations are required to make heavy expenditures on physical robotic units, specialized software programs, and associated hardware infrastructure. Because of this financial burden, the technology remains largely out of reach for smaller enterprises operating with limited budgets. Consequently, adoption is predominantly concentrated among large corporations, which severely restricts the broader market penetration of these automation systems.

This financial barrier directly results in a clear limitation on overall industry expansion. Potential end users are often discouraged from committing to service robotics due to the prolonged return on investment period associated with initial procurement. Illustrating this point, the International Federation of Robotics reported in 2025 that global sales of agricultural service robots contracted by 6 percent, falling to approximately 19,500 units. This sector decline demonstrates how prohibitive overarching costs obstruct widespread implementation, particularly in fields with tighter profit margins. Because smaller operations cannot rationalize the steep integration expenses, adoption rates remain constrained, thereby delaying overall market maturity.

Market Trends

Front-end business operations are being transformed by the creation of humanoid robots designed for customer-facing roles. Organizations are utilizing these bipedal machines in retail and hospitality venues to handle reception tasks and deliver interactive support. By mimicking the human physical form, these robots present a familiar interface that improves overall user engagement, thereby shifting the industry's focus toward social machines designed for public spaces. According to a December 2025 article by thehumanoid.ai titled '2025 The Year of the Humanoid', worldwide investments in humanoid robotics were projected to exceed $4 billion by the end of the year.

Incorporating generative artificial intelligence and large language models into service robots introduces significantly enhanced conversational capabilities. Rather than depending on preprogrammed scripts, these machines analyze unconstrained human speech and produce contextually appropriate verbal responses. This cognitive upgrade enables robots to serve as intelligent agents capable of nuanced troubleshooting and dynamic customer communication, operating independently of spatial navigation systems. These conversational models substantially broaden the functional scope of service robotics. Highlighting this advancement, an April 2025 article by ISSIP titled 'Generative AI Meets Service Robots' projects that the installed base of artificial intelligence-powered robots will reach 750 million by the year 2030.

Key Market Players

- Omron Corporation
- Daifuku Co. Ltd
- Smith & Nephew PLC
- Dematic GmbH
- Stryker Corporation

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KUKA AG

Grenzebach Group

Seegrid Corporation

JBT Marel Corporation

SSI SCH?FER Group

Report Scope

In this report, the Global Service Robotics Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Service Robotics Market, By Operating Environment

Land

Aerial

Marine

Service Robotics Market, By Application

Professional

Personal

Domestic

Service Robotics Market, By End User

Healthcare

Defense

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Field

Logistics

Others

Service Robotics Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Service Robotics Market.

Available Customizations:

Global Service Robotics Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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