

Service Robotics Systems Market in North America and Europe Outlook (2023–2032): Growing at a CAGR of 24%

The North America & Europe service robotics market grows due to rising healthcare robot demand, automation needs, robot innovations, and research funding.

WILMINGTON, DE, UNITED STATES, March 3, 2025 /EINPresswire.com/ -- Service robotics systems represent a dynamic and evolving field focused on designing, developing, and deploying robots for human-centered tasks.

Unlike industrial robots used in manufacturing, service robots operate in dynamic environments such as healthcare, hospitality, logistics, and homes, where human interaction is essential. These robots assist with daily activities, provide emergency support, and enhance efficiency in various sectors. Service robotics includes social robots, assistive robots, autonomous vehicles, and telepresence robots. Integrating AI, advanced sensors, and human-machine interaction technologies enables these robots to adapt, improving productivity, convenience, and overall quality of life.



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A new report by Allied Market Research, titled "[North America and Europe Service Robotics Systems Market](#) by Component and Application: Opportunity Analysis and Industry Forecast, 2023–2032," highlights the significant growth of this sector. The market, valued at \$28,980 million in 2022, is projected to reach \$248,360.67 million by 2032, registering a CAGR of 24% during the forecast period.

Market Overview:

Service robotics systems include a wide range of robotic applications designed to enhance efficiency, safety, and convenience across various industries. These robots, equipped with AI and

sensor technologies, operate in environments requiring human interaction, offering solutions in healthcare, logistics, retail, and hospitality. Their applications range from surgical assistance and inventory management to customer service and cleaning.

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Key factors propelling market growth include:

1. Rising demand for professional robots in healthcare
2. Growing adoption of automation in dynamic industries
3. Continuous innovations and increased research funding
4. However, concerns over data privacy and regulatory challenges may hinder growth. Conversely, advancements in robot endurance and capabilities are expected to create new opportunities.

Segment Insights:

1. Application: Transportation and logistics dominated the market in 2022 due to the increasing need for automated parcel sorting and distribution efficiency. Meanwhile, the mining and construction segment is set to experience the fastest growth, driven by automation, precision, and safety improvements.
2. Region: Europe led the market in 2022, benefiting from AI and machine learning integration that enhances robotic adaptability. However, North America is anticipated to witness the highest growth due to investments in 5G, cloud robotics, and AI-driven automation.

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Key Trends and Technological Advancements:

1. AI & Machine Learning: Robots can now learn, adapt, and optimize performance over time.
2. Sensor Technologies: Advanced computer vision, LiDAR, and 3D cameras improve navigation and spatial awareness.
3. Human-Robot Collaboration: Cobots (collaborative robots) work alongside humans in manufacturing, healthcare, and logistics.

4. IoT & Connectivity: Service robots integrate with smart homes and industrial ecosystems for seamless automation.

Leading companies shaping this market include:

Yaskawa Electric
Amazon Robotics LLC
Honda Motor Co. Ltd
Softbank Robotics
ABB Ltd
Alphabet (Google LLC)
KUKA AG
Boston Dynamics
iRobot Corporation
Intuitive Surgical

These players employ strategies like business expansion, product innovation, and partnerships to drive market growth.

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