

North America and Europe Service Robotics Systems Market By Component (Hardware (Behaviour and Motion Control, Sensors, Power Robot, Arm Sources, and Localization and Navigation Control), Software, and Service) and Application (Industrial and Automobile (Industrial Robotic Arms, Automated Guided Vehicles (AGVs), and Others), Military (Unmanned Aerial Vehicles (UAVs), Bomb Disposal Robots, and Others), Agriculture and Forestry (Agricultural Drones, Robotic Harvesters, and Others), Transportation and Logistic (Automated Guided Vehicles (AGVs), Autonomous Delivery Robots, and Others), Mining and Construction (Autonomous Excavators, Robotic Demolition Systems, and Others), Service and Repair (Telepresence Robots, Robotic Maintenance Systems, and Others), and Others): Opportunity Analysis and Industry Forecast, 2023-2032.

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Abstracts

In 2022, the service robotics systems market in North America and Europe reached a value of \$28.9 billion. Projected to reach \$248.3 billion by 2032, exhibiting a CAGR

of 24.0% from 2023 to 2032. The realm of service robotics systems encompasses a diverse and swiftly evolving domain of technology devoted to crafting, refining, and deploying robotic systems tailored to execute diverse tasks and services for humans. These robots are engineered to function in environments where human interaction is paramount, including healthcare, hospitality, logistics, and domestic settings. In contrast to industrial robots primarily utilized in manufacturing, service robots are distinguished by their capacity to navigate dynamic and unstructured surroundings, engage with individuals, and undertake a broad spectrum of tasks, ranging from assisting with daily activities to providing aid in emergency scenarios. Service robotics systems encompass various robot types, including social robots, assistive robots, autonomous vehicles, and telepresence robots. The amalgamation of artificial intelligence, advanced sensors, and human-machine interaction technologies lies at the core of developing efficient and adaptive service robotics systems, increasingly ingraining them into enhancing productivity, convenience, and the overall quality of human existence.

Several factors propel the expansion of the service robotics systems market, reflecting the dynamic essence of this domain and its prospective impact across diverse sectors. Technological progress assumes a pivotal role, with advancements in artificial intelligence, sensor technologies, and computing prowess empowering robots to undertake more intricate tasks with heightened precision and efficiency. Moreover, the declining cost of these technologies facilitates broader adoption. The call for automation across varied sectors such as healthcare, logistics, and customer service stands as another significant market driver, particularly in North America and Europe.

As societies age and face labor shortages, there is a growing need for robots to assist in caregiving and other support roles. Regulatory frameworks further influence the growth of the market, as clear guidelines and standards can foster confidence in the deployment of service robots. Public acceptance and perception of robots, influenced by factors such as trust, usability, and ethical considerations, are pivotal in determining their integration into daily life. Economic factors, including the cost-effectiveness of implementing robotic solutions compared to traditional methods, further impact the market growth.

The North America and Europe service robotics systems market is segmented into component, application, and region. In terms of component, the market is divided into hardware, software, and services. The hardware segment is further segregated into behavior & motion control, sensors, power robot, arm source, and localization & navigation control. By application, the market is fragmented into mining

& construction, agriculture and forestry, military, industrial & automobile, and others. The mining & construction segment is subdivided into autonomous excavators, robotic demolition systems, and others.

Furthermore, the agriculture & forestry segment is categorized into agricultural drones, robotic harvesters, and others. By military, it is further classified into unmanned aerial vehicles (UAVs), bomb disposal robots, and others. By industrial & automobile, it is further divided into industrial robotic arms, automated guided vehicles (AGVs), and others. By service & repair, it is subsegmented into telepresence robots, robotic maintenance systems, and others. By transportation & logistics, it is further segregated into automated guided vehicles (AGVs), autonomous delivery robots, and others. By region, the market is analyzed across North America and Europe.

The report analyzes the profiles of key players operating in the North America and Europe service robotics systems market such as Yaskawa Electric, Amazon Robotics LLC, Honda Motor Co. Ltd, Softbank Robotics, Kawasaki Heavy Industries, ABB Ltd, Alphabet (Google LLC), KUKA AG, Fanuc Corporation, IRobot Corporation, Intuitive Surgical, Boston Dynamics, Teradyne Corporation, Honeywell Robotics, and Clearpath Robotics. These players have adopted various strategies to increase their market penetration and strengthen their position in the North America and Europe service robotics systems market.

KEY BENEFITS FOR STAKEHOLDERS

The study provides an in-depth analysis of the North America and Europe service robotics systems market along with the current trends and future estimations to elucidate the imminent investment pockets.

Information about key drivers, restraints, and opportunities and their impact analysis on the North America and Europe service robotics systems market size is provided in the report.

The Porter's five forces analysis illustrates the potency of buyers and suppliers operating in the North America and Europe service robotics systems industry.

The quantitative analysis of the North America and Europe service robotics systems market for the period 2022–2032 is provided to determine the North America and Europe Service Robotics

Systems market potential.

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