

Medical Service Robots Market Size, Share & Trends Analysis Report By Product (Disinfection Robots, Robotics Nurse Assistant, Medical Telepresence Robots, Delivery Robots), By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Medical Service Robots Market Growth & Trends

The global medical service robots market size is expected to reach USD 52.0 billion by 2030, registering a CAGR of 16.5% over the forecast period, according to a new report by Grand View Research, Inc. The major factors contributing to the industry growth are advancements in the healthcare infrastructure and the introduction of technologically advanced equipment like robotic catheter control systems (CCS), data recorders, data analytics, and others. Furthermore, the growing penetration of the 5G network and rapid adoption of AR/VR, IoT, and AI are opening new opportunities for the industry. In addition, various initiatives by governments to provide remote healthcare services further fuel the industry's growth. The rising incidences of chronic disease and growing percentage of the geriatric population also support the demand for healthcare service robots including telepresence robots, as these can be used for regular monitoring and consultation from remote locations.

These robots provide customized and continuous monitoring of patients dealing with chronic diseases. The pharmaceutical industry is also rapidly adopting these robotic systems as these tools enhance the efficacy and efficiency of their work process. Furthermore, the COVID-19 pandemic supported industry growth as the utilization of these robots minimized human-to-human contact and assisted the frontline workers.

However, stringent regulations and the high cost of robots are projected to hamper the growth in the forecast period. In 2021, the others product type segment dominated the industry followed by the disinfection robots segment. The disinfection robots segment growth can be attributed to the growing penetration of Hospital-acquired Infections (HAIs) and the benefits offered over manual robots by the disinfection robots. In addition, a growing economy and advancements in technology are anticipated to support the industry growth.

Medical Service Robots Market Report Highlights

The others product type segment dominated the global industry in 2024. However, the dispensing robots product segment is projected to register the fastest CAGR from 2025 to 2030.

In 2024, Asia Pacific held the largest share of the global revenue due to growing initiatives to improve the healthcare sector and provide healthcare assistance even in the remote areas.

Furthermore, the presence of key players in China, Japan, and South Korea is boosting the region's growth.

Increasing investments in the R&D sector of IoT and AI are also opening new growth opportunities for the industry.

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