

Rehabilitation Robots Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 to 2032

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Abstracts

The Global Rehabilitation Robots Market was valued at USD 246.4 million in 2023 and is projected to expand at a CAGR of 22.2% from 2024-2032. The worldwide growth of the rehabilitation robot market is being significantly propelled by the rising prevalence of brain-related disorders. Conditions like stroke, Alzheimer's, Parkinson's, and epilepsy often lead to long-term disabilities, necessitating extensive rehabilitation. For example, the World Health Organization (WHO) reports that around 50 million people worldwide suffer from epilepsy, with nearly 80% residing in low- and middle-income nations. Furthermore, each year sees an estimated 5 million new diagnoses.

As these disorders become more prevalent, the demand for effective rehabilitation strategies intensifies. The overall rehabilitation robots industry is classified based on type, application, end-use, and region. The rehabilitation robots market is segmented by type into assistive robots and therapy robots. In 2023, the therapy robot segment led the market, generating approximately USD 166 million in revenue.

Therapy robots offer consistent, high-quality rehabilitation sessions, often diminishing the reliance on human therapists. This not only reduces overall rehabilitation costs but also permits more frequent and extended sessions, crucial for effective recovery, making them increasingly preferred by patients. Additionally, therapy robots boast versatility, addressing conditions beyond stroke, such as spinal cord injuries, traumatic brain injuries, multiple sclerosis, and orthopedic issues. Their broad applicability enhances their value across varied healthcare environments.

The market is also segmented by robotic structure into end-effector robots and exoskeleton robots. The end-effector robots segment is projected to lead the market with an anticipated revenue of around USD 898.9 million by 2032. End-effector robots enable a broad range of motion at their interaction point with patients, typically the hand or foot. This adaptability allows for diverse rehabilitation exercises, catering to various

joints and muscle groups, thus meeting the needs of a wide patient demographic. Moreover, their user-friendly design means they can be swiftly set up, adjusted for different patients, and don't demand extensive calibration.

This accessibility benefits both therapists and patients, ensuring smoother clinical integration. In 2023, North America accounted for USD 106.9 million in revenue from the rehabilitation robots market and is poised for significant growth in the coming years.

Conditions like stroke, spinal cord injuries, multiple sclerosis, and Parkinson's disease are prevalent in North America. As these conditions continue to rise, they are expected to fuel market growth.

Moreover, North American healthcare providers are increasingly adopting evidence-based practices, integrating robotics into rehabilitation programs to enhance patient outcomes, further propelling market expansion.

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