

# Neurorehabilitation Robotics Market Forecasts to 2034– Global Analysis By Component (Hardware and Software), Type, Application, End User and By Geography

<https://marketpublishers.com/r/NCC31A9CE35EEN.html>

Date: April 2026

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: NCC31A9CE35EEN

## Abstracts

According to Statistics MRC, the Global Neurorehabilitation Robotics Market is accounted for \$1.20 billion in 2026 and is expected to reach \$4.95 billion by 2034 growing at a CAGR of 19.3% during the forecast period. Neurorehabilitation robotics refers to the application of advanced robotic systems and intelligent technologies to support the recovery of individuals with neurological impairments. These systems are designed to assist, enhance, or restore motor and cognitive functions affected by conditions such as stroke, spinal cord injury, and Parkinson's disease. They include robotic exoskeletons, end effector devices, and therapy robots that enable repetitive, precise, and adaptive training. By integrating sensors, artificial intelligence, and real-time feedback, neurorehabilitation robotics improves patient outcomes, enhances therapy efficiency, and supports personalized rehabilitation across clinical and home-based settings.

Market Dynamics:

Driver:

Rising incidence of neurological disorders

The increasing prevalence of neurological disorders such as stroke, spinal cord injury, and Parkinson's disease is a major driver for the neurorehabilitation robotics market. These conditions often result in long-term motor impairments requiring intensive rehabilitation. As patient volumes rise globally, healthcare systems are adopting robotic

solutions to deliver consistent, high-quality therapy. Neurorehabilitation robots enhance recovery outcomes through repetitive, precise movements, making them essential tools in modern rehabilitation practices and significantly boosting market demand.

#### Restraint:

##### High cost of robotic systems

The high cost of neurorehabilitation robotic systems remains a significant barrier to widespread adoption. These advanced devices involve substantial expenses related to procurement, installation, maintenance, and training. Smaller healthcare facilities and clinics, particularly in developing regions, often struggle to justify such investments. Additionally, limited reimbursement policies further restrict accessibility for patients. Despite their clinical benefits, the financial burden associated with these systems slows market penetration and creates disparities in access to advanced rehabilitation technologies across different regions.

#### Opportunity:

##### Technological advancements in robotics & AI

Rapid advancements in robotics, artificial intelligence, and sensor technologies present strong growth opportunities for the market. Innovations such as real-time feedback systems, adaptive learning algorithms, and improved human-machine interfaces are enhancing the effectiveness of rehabilitation therapies. These technologies enable personalized treatment plans and improve patient engagement and outcomes. Furthermore, the development of compact, user-friendly, and cost-effective robotic systems is expanding their application beyond hospitals into home-based care, significantly broadening the market's potential globally.

#### Threat:

##### Regulatory and approval challenges

Regulatory and approval challenges pose a significant threat to the neurorehabilitation robotics market. These devices must comply with stringent medical device regulations, safety standards, and clinical validation requirements, which vary across regions. The approval process can be lengthy and costly, delaying product commercialization and

innovation. Additionally, the lack of standardized guidelines for robotic rehabilitation systems complicates market entry. These regulatory hurdles increase operational risks for manufacturers and may limit the timely availability of advanced solutions in the market.

#### Covid-19 Impact:

The COVID-19 pandemic had a mixed impact on the market. While initial disruptions affected manufacturing, supply chains, and elective rehabilitation services, the crisis accelerated the adoption of automated and remote rehabilitation solutions. The need to minimize physical contact increased interest in robotic-assisted therapy and tele-rehabilitation. Healthcare providers began integrating advanced technologies to ensure continuity of care. As a result, the pandemic highlighted the value of robotics in rehabilitation, ultimately supporting long-term market growth despite short-term setbacks.

The lower limb robots segment is expected to be the largest during the forecast period

The lower limb robots segment is expected to account for the largest market share during the forecast period, due to high prevalence of mobility impairments caused by neurological conditions. These robots are widely used in gait training and mobility restoration, particularly for patients recovering from stroke or spinal cord injuries. Their ability to provide repetitive, controlled movement enhances rehabilitation outcomes. Increasing demand for effective mobility solutions, along with advancements in exoskeleton technologies, is driving the widespread adoption of lower limb robotic systems.

The stroke rehabilitation segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the stroke rehabilitation segment is predicted to witness the highest growth rate, due to the rising global incidence of stroke and the need for intensive post-stroke therapy. Stroke patients often require long-term rehabilitation to regain motor functions, creating strong demand for robotic-assisted solutions. These systems enable precise, repetitive movements that improve recovery outcomes. Growing awareness about early rehabilitation and technological advancements are further accelerating the adoption of robotics in stroke treatment programs.

#### Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, due to its large patient population and rapidly aging demographics. Increasing prevalence of neurological disorders, coupled with improving healthcare infrastructure, is driving demand for advanced rehabilitation solutions. Governments are investing in healthcare modernization and promoting the adoption of innovative technologies. Additionally, the presence of emerging economies and growing awareness about rehabilitation therapies contribute significantly to the region's dominant position in the market.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to strong technological advancements and high healthcare spending. The region benefits from early adoption of innovative robotic systems and the presence of leading market players. Increasing focus on improving rehabilitation outcomes and reducing long-term healthcare costs is driving demand. Additionally, supportive regulatory frameworks, ongoing research activities, and growing awareness about advanced rehabilitation technologies are contributing to the region's rapid market growth.

Key players in the market

Some of the key players in Neurorehabilitation Robotics Market include Ekso Bionics Holdings, Inc., Cyberdyne Inc., Bionik Laboratories Corp., Hocoma AG (DIH Medical Group), ReWalk Robotics Ltd., Lifeward, Inc., Tyromotion GmbH, Fourier Intelligence, Myomo, Inc., Kinova Inc., Rehab-Robotics Company Limited, AlterG, Inc., Wandercraft SAS, MediTouch Ltd. and Rex Bionics Ltd.

Key Developments:

In January 2026, Lifeward entered a strategic partnership with Oramed to transform into a diversified biomedical innovation company, integrating Oramed's oral drug delivery technology while gaining access to up to \$47 million in funding to support profitability and long-term growth.

In December 2025, Ekso Bionics entered an agreement with MediTouch to become the exclusive U.S. distributor of its BalanceTutor rehabilitation system, expanding its product portfolio and strengthening its position in neurorehabilitation by offering

advanced balance training solutions to healthcare providers.

#### Components Covered:

Hardware

Software

#### Types Covered:

Upper Limb Robots

Lower Limb Robots

Exoskeleton Robots

End-Effector Robots

Treadmill-Based Robots

#### Applications Covered:

Stroke Rehabilitation

Spinal Cord Injury Rehabilitation

Traumatic Brain Injury Rehabilitation

Cerebral Palsy Rehabilitation

Parkinson's Disease Rehabilitation

#### End Users Covered:

Hospitals & Clinics

Rehabilitation Centers

Homecare Settings

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

## Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

## South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

## Rest of the World (RoW)

## Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

## Africa

South Africa

Egypt

Morocco

Rest of Africa

### What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

#### Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

##### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

##### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

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