

Rehabilitation Robotics & Exoskeletons Market Forecasts to 2034 - Global Analysis By Product Type (Rehabilitation Robots, Exoskeletons and Therapy Robots), Mobility Type, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Rehabilitation Robotics & Exoskeletons Market is accounted for \$3.2 billion in 2026 and is expected to reach \$11.5 billion by 2034 growing at a CAGR of 17.3% during the forecast period. Rehabilitation Robotics & Exoskeletons encompasses advanced robotic solutions that facilitate mobility, therapeutic exercise, and physical recovery. The technology integrates sensors, mechanical components, intelligent controls, and software to deliver controlled and repetitive rehabilitation activities. Robotic systems can support improvements in movement, coordination, balance, muscle strength, and functional abilities among individuals undergoing rehabilitation. Wearable exoskeletons offer additional assistance for standing and walking by providing external mechanical support. Ongoing innovations are enhancing personalization, responsiveness, safety, comfort, and practical deployment in clinical and home rehabilitation settings.

According to the World Health Organization (WHO), 2.4 billion people globally were living with health conditions that could benefit from rehabilitation, representing nearly one-third of the world's population. The WHO also reported that this need increased by 63% from 1990 to 2019, supporting the expanding requirement for rehabilitation services and technologies such as rehabilitation robotics and exoskeletons.

Market Dynamics:

Driver:

Rising demand for advanced rehabilitation and mobility support

The increasing occurrence of neurological, orthopedic, and musculoskeletal disorders is creating greater demand for technology-enabled rehabilitation solutions. Rehabilitation Robotics & Exoskeletons offer repetitive, controlled, and task-oriented assistance that can facilitate mobility training and functional recovery. Healthcare facilities are incorporating robotic technologies alongside traditional rehabilitation methods to support therapy delivery and patient engagement. Exoskeleton systems can provide assistance during standing, walking, and balance exercises for individuals with limited mobility. Growing recognition of robotic rehabilitation benefits is consequently encouraging adoption across hospitals and specialized care facilities.

Restraint:

High cost of rehabilitation robotics & exoskeleton systems

Expensive Rehabilitation Robotics & Exoskeleton technologies can create barriers to adoption across healthcare institutions and therapy centers. These systems incorporate advanced sensors, actuators, software, control mechanisms, and specialized hardware, resulting in considerable purchasing costs. Additional expenditures may arise from equipment maintenance, staff training, system calibration, and technical assistance. Budget-constrained hospitals and rehabilitation facilities may therefore experience difficulties allocating sufficient resources for robotic technologies. High acquisition and ongoing operating expenses can consequently slow deployment, especially among smaller providers and healthcare systems operating under financial constraints.

Opportunity:

Expansion of home-based rehabilitation

Growing adoption of home-based care is creating new opportunities for Rehabilitation Robotics & Exoskeletons beyond conventional clinical settings. Portable robotic systems and wearable exoskeletons can facilitate mobility training, therapeutic exercises, and rehabilitation activities at home. Remote connectivity may allow clinicians to monitor patient progress and modify therapy programs when necessary. Demand for convenient, personalized, and ongoing rehabilitation could encourage manufacturers to develop simpler and more accessible devices. Expanding home rehabilitation can therefore increase technology accessibility while opening additional application areas for robotic rehabilitation solutions.

Threat:

Regulatory and safety compliance challenges

Strict regulatory and safety requirements represent a potential threat to the development and commercialization of Rehabilitation Robotics & Exoskeletons. Because these technologies directly support patients, manufacturers must address requirements involving mechanical performance, electrical safety, software reliability, cybersecurity, and clinical effectiveness. Obtaining approvals can involve substantial testing, validation, and documentation. Evolving regulatory frameworks may further increase development expenses and extend commercialization timelines. Such compliance complexities can slow market entry and create additional challenges for companies developing advanced robotic systems with artificial intelligence and connected capabilities.

Covid-19 Impact:

The COVID-19 outbreak significantly affected rehabilitation service delivery and consequently influenced the use of Rehabilitation Robotics & Exoskeletons. According to the WHO, rehabilitation services experienced disruption across 63% of surveyed countries during 2020, alongside staffing constraints and healthcare-system pressures. At the same time, rising rehabilitation requirements among COVID-19 survivors created additional demand for recovery services. This environment encouraged greater consideration of robotic and technology-enabled rehabilitation solutions that could support adaptable and controlled therapy during healthcare disruptions.

The stationary systems segment is expected to be the largest during the forecast period

The stationary systems segment is expected to account for the largest market share during the forecast period due to their ability to deliver stable, controlled, and accurate rehabilitation assistance. They support activities such as gait training, limb mobility, balance exercises, and repetitive therapeutic movements within supervised settings. Their controlled functionality allows therapists to customize assistance levels and observe patient responses during treatment. These robotic platforms are especially applicable in hospitals and rehabilitation facilities, where structured therapy, guided movement, personalized exercises, and consistent support is important for patients undergoing physical recovery.

The home care settings segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the home care settings segment is predicted to witness the highest growth rate as rehabilitation services increasingly expand into residential environments. Robotic systems and wearable exoskeletons can assist patients with movement exercises, mobility training, and ongoing functional recovery at home. Home-based applications offer convenience and may support continuous rehabilitation for individuals requiring prolonged therapy. Improvements in portable equipment, remote monitoring, connectivity, and simplified controls are increasing their practicality. These developments can help patients, caregivers, and healthcare providers incorporate robotic rehabilitation into personalized home recovery programs while reducing reliance on frequent facility-based therapy.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share due to its developed healthcare infrastructure, extensive research capabilities, and increasing clinical use of robotic rehabilitation solutions. Hospitals and rehabilitation facilities across the region are adopting advanced systems for mobility training and physical recovery. The United States plays a major role through technological innovation, clinical studies, reimbursement support, and access to sophisticated rehabilitation equipment. Continued healthcare investment and demand for mobility-assistance technologies are strengthening the region's prominent position in the market.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, as healthcare systems increasingly adopt advanced robotic solutions. Expanding medical infrastructure, technological development, and investments in rehabilitation technologies are supporting regional growth. Countries including China, Japan, South Korea, and India are contributing through healthcare modernization and robotics adoption. Demographic aging and rising rehabilitation requirements are further strengthening demand. Increasing research initiatives, innovation, and deployment of technology-assisted therapy are expected to create strong growth opportunities for rehabilitation robotics throughout the region.

Key players in the market

Some of the key players in Rehabilitation Robotics & Exoskeletons Market include Ekso Bionics, CYBERDYNE Inc., Hocoma AG, ReWalk Robotics, Bionik Laboratories, Parker

Hannifin Corporation, Myomo, Inc., Ottobock, Rex Bionics, Wandercraft, ExoAtlet Global S.A., SuitX, Kinova Inc., Tyromotion GmbH, Wearable Robotics Srl, GOGOA Mobility Robots, B-Temia Inc. and Fourier.

Key Developments:

In May 2026, Parker Hannifin Corporation has announced its plan to acquire the Commercial and Defense Aerospace business of CIRCOR International for \$2.55 billion in a cash-free, debt-free transaction, which includes expected tax benefits valued at approximately \$75 million. This acquisition aims to enhance Parker's motion and flow control capabilities in the aerospace sector, with projected sales of \$270 million in 2026 and over 40% adjusted EBITDA margins before synergies.

In December 2025, Ekso Bionics Holdings, Inc. announced that it has entered into an agreement with Israel-based MediTouch Inc. to become the exclusive authorized sales agent and distributor of MediTouch's BalanceTutor™ rehabilitation system in the United States. The BalanceTutor is the only known rehabilitation system that employs an advanced 4D perturbation patented treadmill and multiple force and movement sensors which allow patients impacted by impaired balance to react to unanticipated disturbances while walking.

Product Types Covered:

Rehabilitation Robots

Exoskeletons

Therapy Robots

Mobility Types Covered:

Stationary Systems

Mobile Systems

Applications Covered:

Neurorehabilitation

Orthopedic Rehabilitation

Gait Training

Post-Surgical Recovery

Sports Injury Rehabilitation

End Users Covered:

Hospitals

Rehabilitation Centers

Home Care Settings

Research Institutes

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)

Competitive Benchmarking

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