

Robotic Rehabilitation and Assistive Technologies Market To Reach USD 4.08 Billion By 2028 | Reports And Data

Growing geriatric populace and surging prevalence of chronic conditions and disabilities are expected to spur market growth

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The global [robotic rehabilitation & assistive technologies market](#) size is

expected to reach USD 4.08 billion by

2028 at a CAGR of 12.7%, according to a new report by Reports and Data. Substantial increase in market revenue growth can be attributed to the expanding geriatric population, rising prevalence of congenital physical disabilities, growing burden of acute and chronic diseases, and increasing incidences of stroke, paralysis, or spinal injuries. Other major factors accountable for market revenue growth are rising applications of computational intelligence in assistive technology, surging demand for advanced robotic prostheses, and rapid incorporation of rehabilitation robotics and assistive technologies across hospitals, clinics, and palliative care facilities. Rising collaborations among research laboratories, academia, and leading industry players have led to path-breaking advances in assistive robotic technologies such as powered exoskeleton, which enables individuals with locomotor disabilities to move or walk better. For instance, a research team at Northern Arizona University led by Prof. Zach Lerner is currently working on the development of wearable exoskeleton devices to help disabled people improve their mobility.

Robotic rehabilitation and assistive technologies are part of an advanced medical approach to restoring functional ability of the ill or disabled and improving their quality of life with the help of robotic devices. Rehabilitation robotics comprise robotic devices specifically designed to assist various sensorimotor functions that involve the use of hands, arms, or limbs. They help patients with daily repetitive tasks through the recovery process and also gather quantitative data about their performance and progress. These devices have proven to be most effective for individuals with motor function damage caused by stroke, severe functional disabilities like muscular dystrophy and Parkinson's disease, cognitive or visual impairment, hearing loss, congenital disabilities, or wheeled mobility. Rehabilitation robotics is a specialized branch of biomedical



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engineering and extensively involves human-robot interaction for rehabilitation purposes. Several assistive technologies such as soft robotics and exoskeletons enhance the efficacy of rehabilitation therapies and ease patients' lives, boosting their self-dependence.

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Market Overview:

The pharma and healthcare industry is rapidly expanding in terms of revenue over the last few years and is expected to register significant revenue growth over the forecast period of 2028. Rapid advancements in the healthcare sector, rapid growth in the medical and healthcare sectors, availability of latest equipment and tools, rising healthcare expenditure and improvements in healthcare infrastructures are some key factors driving global market revenue growth. In addition to this, increasing investments in research and development activities, rising prevalence of various diseases and dearth of medications and hospitals during the ongoing COVID-19 pandemic are boosting market growth. Increasing number of funds by public and private sectors, rising adoption of point-of-care diagnosis and home settings, high demand for precision medicine and ongoing research on drug discovery are also expected to fuel market growth going ahead.

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Competitive Landscape

The report sheds light on the competitive landscape of the global Robotic Rehabilitation and Assistive Technologies market and details about each market player, global position, financial standing, license agreement, and product and service portfolio along with business expansion plan. Major players are investing in research and development activities to develop and launch new products and services and are also focusing on adopting key strategies such as mergers and acquisitions, partnerships, joint ventures and collaborations to strengthen their market position and enhance their product base.

Some Key Highlights from the Report:

- Based on application, stroke is the leading segment and is expected to account for largest revenue share over the forecast period. Increasing prevalence of cardiovascular disorders, rising cases of locomotor disability caused by stroke worldwide, and growing usage of rehabilitation robotics in motor skill therapy and gait training are among the key factors driving revenue growth of this segment.
- Asia Pacific robotic rehabilitation & assistive technologies market is expected to register the

fastest revenue growth rate over the forecast period. Market growth in the region is supported by escalating demand for advanced rehabilitation robotic technologies, booming geriatric population, and rising cases of physical disabilities. Presence of state-of-the-art healthcare infrastructure in the region and augmented healthcare expenditures further boost the Asia Pacific market growth.

- The most prominent companies in the global robotic rehabilitation & assistive technologies market are ReWalk Robotics, AlterG, Inc., Bionik Laboratories Corp., Ekso Bionics, Vincent Medical, DIH Technologies Corporation (Hocoma), CYBERDYNE, INC., Kinova, Inc., Rex Bionics Ltd., and Instead Technologies, Ltd.

- In September 2020, Bionik Laboratories Corp., a leading robotic rehabilitation & assistive technology solutions provider, sold its BIONIK InMotion® ARM/HAND Interactive Therapy System to the Center for Neurorestoration and Neurotechnology (CfNN). The latest purchase is a part of CfNN's mission to offer innovative solutions to Veterans with neurological conditions to help them restore their physical function.

For the purpose of this report, the global robotic rehabilitation & assistive technologies market is segmented based on type, portability, application, and region:

Type Outlook (Revenue, USD Billion; 2018-2028)

- Humanoid
- Rehabilitation
- Surveillance & Security
- Socially Assistive
- Others

Portability Outlook (Revenue, USD Billion; 2018-2028)

- Standalone
- Mobile

Application Outlook (Revenue, USD Billion; 2018-2028)

- Post-surgery
- Stroke
- Orthopedics
- Cognitive & Motor Skill Therapy
- Others

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Tushar Rajput
Reports and Data
+18008193052 ext.

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