

ExoSkeleton

Life is unexpected and anyone can be hit by this uncertainty of time. There are millions of people who have one or other kinds of disability and the numbers in the population are expected to rise. Assistive devices help them get through their limitations and give them new hope to live life. Exoskeleton i

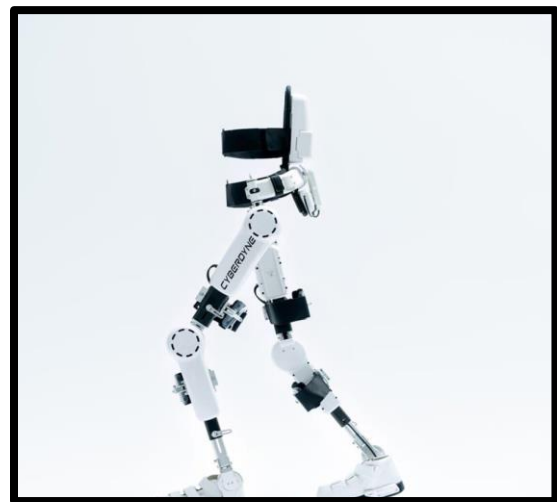
Exoskeletons are powered, wearable robots designed to enhance endurance, strength, and enable people with mobility disabilities. They provide freedom and restore dignity to those who are unable to move on their own by helping them regain partial or complete mobility. Data from wearable sensors is used to control robotic exoskeletons by inferring the user's locomotor intent, for example, wanting to walk upstairs.

Demand in the healthcare industry and significant advancements in robotic technology are two major factors driving the exoskeleton market. According to the WHO, there are over 75 million wheelchair users globally, and 90% of those wheelchair users experience pain due to their mobile devices. The rising aging population and incidents of patients with body disorders, especially in countries like China and Japan, are major factors for the growth of the exoskeleton market.

Due to the predominance of a vast number of new entrants, established manufacturers, and suppliers in the market, the industry is extremely competitive.

Major Market Players include

- [Cyberdyne](#)
- [Hocoma](#)
- [ReWalk Robotics](#)
- [Ekso Bionics](#)
- [Myomo](#)
- [Rex Bionics Ltd.](#)
- [B-TEMIA Inc. \(Keeogo\)](#)
- [Marsi Bionics.](#)



Economic development, coupled with continually increasing per capita healthcare investment in emerging countries, such as India, China, and Singapore, is expected to create high growth opportunities. The [exoskeleton market is expected to reach 5.73 billion USD by 2027.](#)

Eksobionics

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Since 2005, [Ekso Bionics](#) has been using exoskeleton technology to augment natural skills and improve the quality of life for people with a variety of disabilities. As the world's largest provider of exoskeletons, they assist paralyzed people to stand and walk, enhancing worker capacities worldwide. Their mission is to amplify human motion by providing strength, endurance, and mobility across medical and industrial applications with advanced robotics.

They offer several products for health services.

[EksoNR, designed to help patients](#) stand and walk during rehab, is a wearable exoskeleton that provides power and support to the legs. [It also promotes](#) correct movement patterns in all phases of recovery, challenging patients as they progress on their journey towards walking on their own.

- View session-specific walking time, distance, and speed, securely saved to a secure, cloud-based dashboard for easy analytics.
- [EksoNR](#) helps patients bear only their weight with proper postural alignment so you can maximize treatment time.
- Set training targets and modify assistance levels in real-time for each leg, independently, based on patient goals and session feedback.
- Customize motor support for various impairment levels, from full assistance to patient-initiated movement, in both swing and stance phases of walking.
- Sensors and software continuously monitor and regulate leg movement to minimize compensatory gait patterns.



- [EksoNR](#) includes PreGait: a suite of programs to help patients balance, weight shift, squat, and step in place before walking.



[EksoUE](#), designed to assist the impacted arm and shoulder during clinical rehabilitation, helps patients with upper-extremity weakness or paralysis. It guides them in recovering strength, range of motion, and endurance.

- Provides access to shoulder joints and scapula to help therapists facilitate movement.
- Can be used while sitting, standing, and moving around.
- Easy reconfiguration for a range of force levels and sizes, adaptive to a wide range of patients and goals.
- The spring-powered operation allows for continuous use without charging because of no battery.
- Supports the patient's arm with minimal interference, allowing for a more natural motion than other devices or traditional therapy.

For more information on the products and price, [visit here](#).