

## **Exoskeleton - Company Evaluation Report, 2025**

Market Report | 2025-08-01 | 105 pages | MarketsandMarkets

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### **Report description:**

Exoskeleton Companies Quadrant is a comprehensive industry analysis that provides valuable insights into the global market for Exoskeleton. This quadrant offers a detailed evaluation of key market players, technological advancements, product innovations, and industry trends. MarketsandMarkets 360 Quadrants evaluated over 67 companies, of which the Top 7 Exoskeleton Companies were categorized and recognized as the quadrant leaders.

An exoskeleton is a wearable electromechanical device designed to be worn on the human body to augment, assist, or restore physical capabilities. These external skeletons are constructed from rigid or soft materials and are often powered by motors, pneumatics, or hydraulics. Using sensors to detect the user's intended movements, the device provides powered support to the limbs, enhancing strength, increasing endurance, or enabling mobility for individuals with physical impairments. The technology is primarily applied in two key areas: medical rehabilitation and industrial workplace augmentation.

Market growth is propelled by dual drivers from the medical and industrial sectors. In healthcare, an aging global population and a rising incidence of neurological disorders like stroke and spinal cord injuries are increasing the demand for advanced rehabilitation tools and mobility aids that can improve patient outcomes. In the industrial realm, there is a strong focus on enhancing worker safety and productivity. Exoskeletons help reduce the physical strain and risk of musculoskeletal injuries for workers performing repetitive, strenuous tasks like heavy lifting, thus lowering injury rates, reducing fatigue, and boosting efficiency.

However, the technology faces significant barriers to mainstream adoption. The high cost of exoskeletons, with medical-grade systems being particularly expensive, places them out of reach for many individuals and businesses. User comfort, device weight, and ergonomic design are critical challenges, as a bulky or ill-fitting suit will hinder adoption. Limited battery life restricts the operational time of powered devices, which is a key practical limitation. Furthermore, navigating the complex regulatory approval process and securing reimbursement from health insurance providers remains a major hurdle for medical exoskeleton manufacturers.

The 360 Quadrant maps the Exoskeleton companies based on criteria such as revenue, geographic presence, growth strategies, investments, and sales strategies for the market presence of the Exoskeleton quadrant. The top criteria for product footprint evaluation included Type (Powered and Passive), Mobility (Mobile and Stationary), Body Part (Lower Extremities, Upper Extremities, Full Body), Vertical (Healthcare, Defense, Industrial, Construction, Other Verticals), Component (Sensors, Actuators, Power Sources, Control Systems, Other Components).

#### **Key Players:**

Major vendors in the Exoskeleton market are Ekso Bionics (US), Ottobock (Germany), DIH Medical (Switzerland), Comau (Italy),

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Myomo Inc. (US), CYBERDYNE Inc. (Japan), Lifeward Ltd. (Israel), Hyundai Motor Group Robotics LAB. (South Korea), B-Temia (Canada), Rex Bionics Ltd. (New Zealand), ABLE Human Motion (Spain), Laevo Exoskeletons (Netherlands), German Bionic Systems GmbH (Germany), Levitate Technologies, Inc. (US), Fourier (China), Trexo Robotics (Canada), Wandercraft (France), Agade (Italy), Europe Technologies (France), Gogoa.eu (Spain), Archelis Inc. (Japan), P&S Mechanics Co., Ltd. (South Korea), RB3D (France), Japet Medical Devices (France), and PROTESO S.R.L (Italy). The key strategies major vendors implement in the Exoskeleton market are partnerships, collaborations, product launches, and product enhancements.

#### Ottobock

Ottobock is the global market leader in prosthetics and a premier provider of innovative human mobility solutions. The German company is renowned for its high-tech prosthetic limbs, such as the C-Leg microprocessor knee, and its advanced orthotics and wheelchairs. Strategically, Ottobock is focused on digital innovation, embedding AI and advanced sensors into its devices to create more intuitive user experiences. By building a connected patient-care ecosystem and expanding into the industrial exoskeleton market, the company is solidifying its legacy and pioneering the future of wearable human augmentation technology worldwide.

#### DIH Medical

DIH Medical is a global leader in rehabilitation solutions, formed by the powerful combination of robotics pioneer Hocoma and physical therapy provider Motus. The company offers an integrated portfolio covering the full continuum of care, from its renowned Lokomat robotic gait trainer to a range of clinical therapy devices. DIH Medical's strategy is to merge advanced robotics with virtual reality and data analytics to deliver more engaging and effective patient outcomes. By providing a comprehensive suite of interconnected technologies, the company is cementing its position as a key innovator in the modern rehabilitation market.

#### Wandercraft

Wandercraft is a pioneering French robotics company dedicated to developing autonomous walking exoskeletons. Its flagship product, the Atalante X, is designed for rehabilitation centers and features unique self-balancing technology that allows patients with severe mobility impairments to walk without crutches. The company's core strategy is to drive clinical adoption by demonstrating improved patient outcomes and to continuously advance its dynamic walking algorithms. By focusing on creating a natural, hands-free walking experience, Wandercraft is positioning itself at the forefront of assistive robotics, with a long-term vision of creating personal exoskeletons for everyday use.

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