

# Medical Exoskeleton Market Size is Expected to Reach \$5.59 Bn by 2030, Growing at a CAGR of 44.70%

Medical Exoskeleton Market Size to Grow by \$5.59 Bn | Revenue Forecast, Company Ranking, Competitive Landscape, Growth Factors, And Trends

WASHINGTON, D.C, DISTRICT OF COLUMBIA, UNITED STATES, May 30, 2024 /EINPresswire.com/ -- According to Vantage Market Research the Global Medical Exoskeleton Market Size & Share is expected to reach a value of USD 0.30 Billion in 2022. The Medical Exoskeleton Market is projected to showcase a CAGR of 44.70% from 2023



to 2030 and is estimated to be valued at USD 5.59 Billion by 2030.

The medical exoskeleton market is witnessing a rapid transformation, driven by technological advancements and the increasing demand for innovative rehabilitation solutions. Medical exoskeletons are wearable devices that augment human strength and mobility, aiding in the recovery of individuals with mobility impairments due to spinal cord injuries, stroke, or other neuromuscular disorders.

These devices leverage advanced robotics and biomechanics to enhance the user's physical capabilities, making them invaluable in both clinical and non-clinical settings. The rising prevalence of disabilities, coupled with the growing geriatric population, are key drivers propelling the market forward. Additionally, the integration of artificial intelligence (AI) and machine learning (ML) into exoskeleton technology is poised to further revolutionize the industry, offering personalized and efficient rehabilitation solutions.

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The medical exoskeleton market is influenced by a myriad of dynamic factors. One of the primary drivers is the increasing incidence of spinal cord injuries and neurological disorders, which necessitates advanced rehabilitation solutions. Furthermore, the aging population is contributing to a higher demand for mobility aids, as elderly individuals often suffer from musculoskeletal disorders that impair movement. Technological advancements in robotics and biomechanics are also significantly enhancing the functionality and affordability of medical exoskeletons, thereby broadening their adoption. On the flip side, the market faces challenges such as high costs of development and procurement, limited awareness among potential users, and stringent regulatory approvals. Despite these hurdles, continuous innovation and increasing investments in research and development are expected to mitigate these issues and propel market growth.

Top Companies in Global Medical Exoskeleton Market:

ReWalk Robotics Ltd. (Israel)
Ekso Bionics Holdings Inc. (US)
Parker Hannifin Corp (US)
Bionik Laboratories Corp (Canada)
CYBERDYNE Inc. (Japan)
B-TEMIA Inc. (Canada)
Rex Bionics Ltd. (UK)
Wearable Robotics SRL (Italy)
Hocoma AG (a subsidiary of DIH Technologies) (Switzerland)
ExoAtlet (Luxembourg)
Gogoa Mobility Robots SL (Spain)

To Know an Additional List of Key Players, Request Here to Download a Free Report PDF Brochure: <a href="https://www.vantagemarketresearch.com/medical-exoskeleton-market-1184/request-sample">https://www.vantagemarketresearch.com/medical-exoskeleton-market-1184/request-sample</a>

# Recent Development:

Regulatory Approvals: Obtaining approvals from regulatory bodies is a big deal for this field. There aren't any recent FDA clearances on the level of Ekso Bionics' June 2022 win for their MS-specific exoskeleton, but companies are still making headway in other markets. For instance, CYBERDYNE secured medical device approval in Thailand in 2021 for their HAL Single Joint Type exoskeleton.

Market Expansion: Companies are broadening their reach beyond just selling devices. Ekso Bionics' partnership with the US Physiatry in March 2021 is a good example. This initiative focuses on educating physicians about the advantages of their exoskeletons and how to integrate them into rehabilitation programs. Similarly, CYBERDYNE expanded its service network

in Japan by adding a new Robocare Center in August 2022.

Focus on Insurance Coverage: Ekso Bionics is actively working with insurance companies like Centers for Medicare and Medicaid Services, recognizing their role in long-term market adoption. Back in 2021, ReWalk Robotics signed a contract with BKK Mobil Oil Insurance to provide exoskeletons to qualified beneficiaries.

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#### Top Trends:

The medical exoskeleton market is characterized by several emerging trends. Firstly, there is a growing focus on the development of lightweight and more user-friendly exoskeletons. Manufacturers are utilizing advanced materials like carbon fiber and lightweight metals to reduce the overall weight of these devices, making them more comfortable for prolonged use. Secondly, the integration of AI and ML is a significant trend, allowing for the creation of adaptive exoskeletons that can learn and adjust to the user's movement patterns, providing personalized rehabilitation experiences. Thirdly, the expansion of exoskeleton applications beyond clinical settings into personal use and industrial applications is gaining momentum.

Additionally, collaborative efforts between manufacturers and healthcare institutions are fostering the development of more effective and efficient exoskeleton solutions. Lastly, increased government and private sector funding for research and development is driving innovation and accelerating market growth.

Get Access to Medical Exoskeleton Industry Real-Time Data: <a href="https://www.vantagemarketresearch.com/vantage-point">https://www.vantagemarketresearch.com/vantage-point</a>

#### Top Report Findings:

players.

The global medical exoskeleton market is projected to grow at a CAGR of 44.70% from 2023 to			
2030.			
North America holds the largest market share due to advanced healthcare infrastructure and			
nigh adoption rates.			
The Asia Pacific region is expected to witness the fastest growth, driven by increasing			
nealthcare investments and rising awareness.			
Lower limb exoskeletons dominate the market, accounting for over 60% of the total market			
share.			
☐ Technological advancements in AI and ML are significantly enhancing exoskeleton			
functionalities.			
High costs and stringent regulatory approvals remain the major challenges for market			

Collaborative research initiatives are key to developing next-generation exoskeletons.
Personal and industrial applications of exoskeletons are emerging as new growth avenues.

### Challenges:

The medical exoskeleton market faces several notable challenges. The high cost of these devices remains a significant barrier to widespread adoption. Manufacturing exoskeletons involves complex technologies and materials, leading to high production costs that are often passed on to the consumers. Additionally, the regulatory landscape for medical exoskeletons is stringent, requiring rigorous testing and approvals from bodies like the FDA, which can delay product launches and increase development costs. There is also a lack of awareness and understanding of the benefits of medical exoskeletons among potential users and healthcare providers, which hampers market penetration. Furthermore, the customization required for individual user needs adds another layer of complexity and cost to the manufacturing process. Addressing these challenges through cost-effective manufacturing techniques, streamlined regulatory processes, and comprehensive awareness campaigns is crucial for market growth.

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## Opportunities:

Despite the challenges, the medical exoskeleton market presents numerous opportunities for growth and innovation. The increasing prevalence of disabilities and the aging population worldwide create a substantial demand for advanced mobility solutions. Technological advancements, particularly in AI and ML, offer opportunities to develop smarter and more adaptive exoskeletons that can provide personalized rehabilitation. Moreover, there is significant potential in expanding the use of exoskeletons beyond clinical settings into personal use and industrial applications, such as in manufacturing and logistics, where they can help reduce worker fatigue and prevent injuries. Collaborations between technology developers and healthcare providers can lead to the creation of more effective rehabilitation protocols and improve patient outcomes. Additionally, government initiatives and funding aimed at supporting research and development in assistive technologies can further drive innovation and market expansion.

Key Questions Answered in the Medical Exoskeleton Market Report

- \* What is the current size of the global medical exoskeleton market?
- \* What are the primary drivers of market growth?
- \* Which technological advancements are most significantly impacting the market?
- \* What are the key challenges faced by manufacturers and users of medical exoskeletons?
- \* How does the regulatory environment affect the development and adoption of medical exoskeletons?

- \* What are the emerging trends in the medical exoskeleton market?
- \* Which regions are expected to witness the fastest market growth?
- \* What opportunities exist for new entrants in the medical exoskeleton market?

Browse Market data Tables and Figures spread through 183 Pages and in-depth TOC on Medical Exoskeleton Market Forecast Report: <a href="https://www.vantagemarketresearch.com/press-release/medical-exoskeleton-market-455261">https://www.vantagemarketresearch.com/press-release/medical-exoskeleton-market-455261</a>

Global Medical Exoskeleton Market Segmentation

Component Hardware Software
Type Powered Passive
Extremities Lower Upper Full body
Mobility Mobile Stationary

Regional Analysis:

The Asia Pacific region is emerging as a key player in the global medical exoskeleton market. This growth can be attributed to several factors. Firstly, there is an increasing awareness of advanced rehabilitation technologies in countries like China, Japan, and India. Governments in these nations are investing heavily in healthcare infrastructure and promoting the adoption of innovative medical devices. Secondly, the rising prevalence of disabilities and the rapidly aging population in the region are driving demand for mobility solutions. The Asia Pacific market is also benefiting from the presence of several key manufacturers and research institutions dedicated to developing advanced exoskeleton technologies. Additionally, favorable government policies and incentives for local manufacturing are encouraging domestic production and reducing dependence on imports. As a result, the Asia Pacific region is expected to experience significant market growth, with a focus on enhancing the accessibility and affordability of medical exoskeletons for a broader population base.

- \* Internet Of Medical Things (IoMT) Market <a href="https://www.vantagemarketresearch.com/industry-report/internet-of-medical-things-iomt-market-2454">https://www.vantagemarketresearch.com/industry-report/internet-of-medical-things-iomt-market-2454</a>
- \* Wireless Medical Devices Market <a href="https://www.vantagemarketresearch.com/industry-report/wireless-medical-devices-market-2453">https://www.vantagemarketresearch.com/industry-report/wireless-medical-devices-market-2453</a>
- \* Medical Tubing Market <a href="https://www.vantagemarketresearch.com/industry-report/medical-tubing-market-1153">https://www.vantagemarketresearch.com/industry-report/medical-tubing-market-1153</a>
- \* Medical Device Outsourcing Market <a href="https://www.vantagemarketresearch.com/industry-report/medical-device-outsourcing-market-2383">https://www.vantagemarketresearch.com/industry-report/medical-device-outsourcing-market-2383</a>
- \* Minimally Invasive Medical Robotics Market <a href="https://www.vantagemarketresearch.com/industry-report/minimally-invasive-medical-robotics-market-0942">https://www.vantagemarketresearch.com/industry-report/minimally-invasive-medical-robotics-market-0942</a>
- \* Medical Protective Equipment Market <a href="https://www.vantagemarketresearch.com/industry-report/medical-protective-equipment-market-2289">https://www.vantagemarketresearch.com/industry-report/medical-protective-equipment-market-2289</a>
- \* Refurbished Medical Equipment Market <a href="https://www.vantagemarketresearch.com/industry-report/refurbished-medical-equipment-market-2262">https://www.vantagemarketresearch.com/industry-report/refurbished-medical-equipment-market-2262</a>
- \* Care Management Solutions Market <a href="https://www.linkedin.com/pulse/care-management-solutions-market-size-share-trends-analysis-hancock/">https://www.linkedin.com/pulse/care-management-solutions-market-size-share-trends-analysis-hancock/</a>
- \* Active Pharmaceutical Ingredients Market <a href="https://www.linkedin.com/pulse/active-pharmaceutical-ingredients-market-size-share-growth-hancock/">https://www.linkedin.com/pulse/active-pharmaceutical-ingredients-market-size-share-growth-hancock/</a>
- \* Bone Graft Substitutes Market <a href="https://www.linkedin.com/pulse/bone-graft-substitutes-market-size-share-trend-analysis-hancock/">https://www.linkedin.com/pulse/bone-graft-substitutes-market-size-share-trend-analysis-hancock/</a>
- \* Prosthetic Heart Valve Market: <a href="https://www.linkedin.com/pulse/prosthetic-heart-valve-market-size-share-trends-5i8gf/">https://www.linkedin.com/pulse/prosthetic-heart-valve-market-size-share-trends-5i8gf/</a>
- \* Urgent Care Apps Market: <a href="https://www.linkedin.com/pulse/urgent-care-apps-market-size-share-trends-analysis-report-hancock-71ngf/">https://www.linkedin.com/pulse/urgent-care-apps-market-size-share-trends-analysis-report-hancock-71ngf/</a>
- \* Pharmacogenomics Market: <a href="https://www.linkedin.com/pulse/pharmacogenomics-market-size-share-trends-analysis-report-hancock-myu2c/">https://www.linkedin.com/pulse/pharmacogenomics-market-size-share-trends-analysis-report-hancock-myu2c/</a>

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