

# **Global Medical Exoskeleton Market Size Study & Forecast, by Type (Powered exoskeleton, Passive exoskeleton), by Mobility (Stationary, Mobile), by Component (Hardware, Software), by Application (Spinal Cord Injury, Stroke, Others) and Regional Analysis, 2023-2030**

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## **Abstracts**

Global Medical Exoskeleton Market is valued at approximately USD 0.3 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 29.40% over the forecast period 2023-2030. Medical exoskeleton is a wearable robotic device designed to assist, enhance, or rehabilitate the physical abilities of its wearer. These devices are typically used in medical settings to aid individuals with mobility impairments, neurological disorders, or musculoskeletal injuries. Medical exoskeletons also help individuals with paralysis or mobility impairments to stand up, walk, and perform daily activities. They provide support to the user's limbs and augment their strength and coordination. Moreover, the increase in the prevalence of neurological disorders, rising the number of spinal cord injuries and brain injuries, the growing number of geriatric populations, and growing agreements and collaborations among companies and research organizations for the development of exoskeleton technology that anticipated to create the lucrative demand for the market during the forecast period 2023-2030.

Neurological disorders such as stroke, spinal cord injuries, multiple sclerosis, Parkinson's disease, and others can severely limit mobility and independence. Medical exoskeletons offer a solution by providing assistance and support to individuals with such conditions, enabling them to regain mobility and perform daily activities independently. According to the Parkinson's Foundation, more than 10 million people globally suffer from Parkinson's Disease (PD), and 60,000 Americans have been

diagnosed with Parkinson's disease every year. Also, according to the World Health Organization, neurological disorders are responsible for 6.3% of the global disease burden. This has led to an increase in demand for innovative and effective treatments, which has driven the growth of the Medical Exoskeleton. Moreover, the rising number of product approvals by market players, and rising healthcare expenditure are anticipated to create a lucrative opportunity for the market. However, the regulatory challenges for securing approvals for medical exoskeletons, and high equipment cost stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Medical Exoskeleton Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the rapid advancements in robotics, materials science, and artificial intelligence, supportive regulatory environment, and the presence of key market players. Whereas the Asia Pacific is expected to grow at the fastest growth rate during the forecast period, owing to factors such as the rising incidence of neurological disorders, increasing ageing population, and cohesive government initiatives and funding.

Major market players included in this report are:

Ekso Bionics Holdings, Inc.

ReWalk Robotics Ltd.

Parker-Hannifin Corporation

Cyberdyne, Inc.

Bionik Laboratories Corp.

Rex Bionics PLC

B-TEMIA Incorporated

Bioventus LLC

Hocoma AG (part of DIH Technologies AG)

Wearable Robotics SRL

## Recent Developments in the Market:

In December 2022, Ekso Bionics, a prominent figure in exoskeleton technology for medical and industrial applications, revealed its acquisition of the Human Motion and Control (“HMC”) Business Unit from Parker Hannifin Corporation, a renowned global leader in motion and control technologies. Through this acquisition accompany expand its market presence globally.

## Global Medical Exoskeleton Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Type, Mobility, Component, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define the market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters to detailed information about the crucial aspects such as driving factors & challenges that will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along

with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Powered exoskeleton

Passive exoskeleton

By Mobility:

Stationary

Mobile

By Component:

Hardware

Software

By Application:

Spinal Cord Injury

Stroke

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

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South Africa

Rest of Middle East & Africa

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