

North America Exoskeleton Robotic System Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Type (Lower Body Exoskeleton, Upper Body Exoskeleton, and Full Body Exoskeleton) and Application (Healthcare, Defense, and Industrial)

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Abstracts

The North America exoskeleton robotic system market is expected to grow from US\$ 584.63 million in 2022 to US\$ 1,996.56 million by 2028; it is estimated to record a CAGR of 22.7% from 2022 to 2028.

Rising Incidence of Stroke and Musculoskeletal Disorders Drives North America Exoskeleton Robotic System Market Growth

Stroke continues to be a major public health concern, despite advancements in the medical industry. Even though the growing incidence of this noncommunicable disease threatens the larger population, stroke treatment and rehabilitation remain underdeveloped in the country. As per the Centers for Disease Control and Prevention, every year, more than 795,000 people in the US have a stroke, of which ~610,000 are first or new strokes. Further, stroke is the fifth-highest cause of deaths in the US, causing 147,810 deaths in 2018. Overall, there were an estimated 460,000 strokes in the US in 2019 (two-thirds were ischemic). The country reported 190,000 stroke-related deaths and 3.83 million stroke-disability-adjusted life years. Therefore, the rising incidence of stroke propels the demand for exoskeleton robotic systems for the rehabilitation of stroke patients. Furthermore, musculoskeletal disorders affect the mobility of an individual. The rising prevalence of musculoskeletal disorders, such as tendinitis, sarcopenia, osteopenia, and low back injuries, is expected to fuel the need for exoskeletal robotic systems. These exoskeletons robotic system assists the patients in managing their condition and regaining their mobility, thereby improving their overall

quality of life. Thus, the rising prevalence of stroke and musculoskeletal disorders fuels the use of exoskeletal robotic systems for rehabilitation.

Exoskeleton Robotic System Market Overview

The North American exoskeleton robotic system market is segmented into the US, Canada, and Mexico. The US held the largest share of the market in 2021. In the region, the rising demand for orthopedic rehabilitation aided by economic prosperity fueled the production of exoskeleton robotic systems.

North America Exoskeleton Robotic System Market Revenue and Forecast to 2028 (US\$ Million)

North America Exoskeleton Robotic System Market Segmentation

The North America exoskeleton robotic system market is segmented on the basis of type, application, and country. Based on type, the market is segmented into lower body exoskeleton, upper body exoskeleton, and full body exoskeleton. The lower body exoskeleton segment held the largest market share in 2022.

Based on application, the North America exoskeleton robotic system market is segmented into healthcare, defense, and industrial. The healthcare segment held the largest market share in 2022.

Based on country, the North America exoskeleton robotic system market is segmented into the US, Canada, and Mexico. The US dominated the market share in 2022.

Lockheed Martin Corp, Cyberdyne Inc., Panasonic Holdings Corp, Hocoma AG, ReWalk Robotics Inc., Ekso Bionics Holdings Inc., Parker Hannifin Corp., Myomo Inc., B-Temia Inc., and AlterG Inc. are among the leading companies operating in the North America exoskeleton robotic system market.

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