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Handicap Assistance Robots Market By Product (Robotic Parts, Robotic Wheelchair) , By Type (Stationary, Mobility) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The handicap assistance robots market was valued at $0.9 billion in 2023, and is projected to reach $5.0 billion by 2033, growing at a CAGR of 18.3% from 2024 to 2033.

Handicap assistance robot is a specialized machine designed to help individuals with physical disabilities perform tasks that they may find challenging or impossible to do on their own. These robots are equipped with advanced technologies, such as sensors, AI, and robotic arms, to assist with activities of daily living like mobility, personal care, or even social interaction. By enhancing independence and improving the quality of life for people with disabilities, these robots aim to reduce reliance on human caregivers and offer greater autonomy.

The growth of the global handicap assistance robots market is driven by surge in geriatric population. As global life expectancy increases, there is a growing elderly population requiring assistance with mobility and daily activities. Handicap assistance robots can provide crucial support for maintaining independence among seniors. As per the World Health Organization, the number of people aged 60 years and older was 1 billion in 2019. This number is estimated to increase to 1.4 billion by 2030 and 2.1 billion by 2050. In addition, alarming rise in prevalence of disabilities due to accidents, congenital conditions, or age-related impairments acts as the key driving force of the global market. According to a study published by the World Health Organization in 2020, over 1 billion people globally live with some form of disability, with approximately 15% of the world’s population affected. As the population ages and disability rates increase, assistive technologies like robots will play a crucial role in addressing their

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needs. Moreover, a global shortage of trained caregivers, particularly in aging populations, is pushing healthcare facilities and homes to adopt robotic solutions to bridge the gap in care, thereby fostering the market growth. However, high cost associated with handicap assistance robots, as they are integrated with sensors and AI, restrains the market growth. Furthermore, dearth of skilled professionals to operate and maintain advanced robotic systems hampers the growth of the global market. On the contrary, continuous improvements in AI, ML, and robotics have enabled the development of more sophisticated, adaptive, and user-friendly assistance robots, which are expected to offer lucrative opportunities for the market growth during the forecast period.

The global handicap assistance robots industry is segmented into product, type, and region. On the basis of product, the market is bifurcated into robotic parts and robotic wheelchair. Depending on type, it is divided into stationary and mobility. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of product, the robotic parts segment is expected to dominate the market from 2024 to 2033.

Depending on type, the mobility segment is anticipated to exhibit the highest growth during the forecast period.

Region wise, North America held the largest market share in terms of revenue in 2023 and is expected to dominate the market during the forecast period.

Competition Analysis

Competitive analysis and profiles of the major players in the global handicap assistance robots market include Aether Biomedical sp. z o.o., Assistive Innovations BV, Bionik Laboratories Corporation, COVVI, CYBERDYNE INC., Ekso Bionics Holdings Inc, Focal Meditech B.V., GOGOA Mobility-Robots SL, Honda Motor Co. Ltd., and Japet Medical Devices. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to sustain the intense competition and gain a strong foothold in the global market.

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Historic market data

Key Market Segments

By Product

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- Robotic Parts
- Robotic Wheelchair

By Type

- Stationary
- Mobility

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- France
- Germany
- Italy
- Spain
- UK
- Rest of Europe
- Asia-Pacific
- China

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Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Aether Biomedical sp. z o.o.

Assistive Innovations BV

Bionik Laboratories Corporation

COVVI

CYBERDYNE INC.

Ekso Bionics Holdings Inc

Focal Meditech B.V.

GOGOA Mobility-Robots SL

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Honda Motor Co. Ltd

Japet Medical Devices

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