

U.S. Exoskeleton Market Size, Share & Trends Analysis Report By Mobility (Mobile, Fixed/Stationary), By Technology (Powered, Non-powered), By Extremity (Upper Body, Lower Body), By End-use (Healthcare, Military, Industry), By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

The U.S. exoskeleton market size was estimated at USD 234.18 million in 2025 and is projected to reach USD 640.25 million by 2033, growing at a CAGR of 13.09% from 2026 to 2033. The rapidly growing geriatric population, rising adoption of medical devices across industries such as automotive, military, defense, and construction, and the rising incidence of stroke are key drivers of growth in the U.S. exoskeleton industry.

The growing incidence rate of traumatic spinal cord injuries (SCI) is expected to drive the demand across U.S. markets. For instance, in September 2025, the United Spinal Association reported that 250,000 to 390,000 people in the U.S. are living with spinal cord injury, with about 18,000 new cases each year, most often due to vehicle accidents and falls. It highlighted common secondary complications, including depression, chronic pain, spasticity, pressure injuries, and bowel, bladder, and respiratory issues.

Exoskeleton solutions are increasingly being adopted to support mobility restoration and rehabilitation, particularly for individuals with spinal cord injuries. In the U.S., ongoing innovation in wearable robotics is encouraging manufacturers to introduce next-generation systems with improved personalization and digital integration. For instance, in 2025, Lifeward Ltd. announced the nationwide U.S. commercialization of its latest personal exoskeleton, ReWalk 7. The new system incorporates advanced features such as cloud-based connectivity, adaptive software, and adjustable walking speeds,

enabling a more tailored gait experience for users with spinal cord injuries. This launch reflects the company's strategic focus on enhancing user autonomy, clinical outcomes, and real-world usability of exoskeleton-assisted walking solutions in the U.S. market.

"The ReWalk 7 was developed over several years, integrating advanced technological innovations with feedback from clinicians and patients to build upon the ReWalk's world-class reputation for industry leadership. The result is a device that is optimized for real-world use, with an unmatched user experience and freedom of movement. We are thrilled to be able to provide paralyzed individuals across the country with a new option for integrating walking to everyday life." -Larry Jasinski, CEO of Lifeward

The increasing prevalence of traumatic spinal cord injury is boosting the growth of the U.S. exoskeleton market, as patients suffering from spinal cord injury are recommended to use an exoskeleton to improve their condition. This has become a key driver for the adoption of exoskeletons by patients and healthcare providers. For instance, as per the National Spinal Cord Injury Statistical Center (NSCISC) in 2024, in the U.S., traumatic spinal cord injury remains a significant public health concern, with recent estimates indicating that approximately 18,400 new cases are reported each year. This incident corresponds to around 54 newly diagnosed individuals per one million people annually, underscoring the persistent risk of severe spinal trauma across the population. The steady occurrence of these injuries reflects ongoing exposure to factors such as road traffic accidents, falls, sports-related injuries, and workplace incidents, contributing to a sustained patient pool requiring long-term rehabilitation, mobility assistance, and advanced supportive technologies.

Some of the most common musculoskeletal injuries and disorders affecting workers in physically demanding sectors such as construction include occupational overuse syndrome (OOS), cumulative trauma disorders (CTD), and repetitive strain injury (RSI). These conditions arise from repetitive motions, heavy lifting, awkward postures, and prolonged exertion on the job. According to the most recent data from the U.S. Bureau of Labor Statistics in August 2023, an estimated 502,380 workplace musculoskeletal disorder cases were reported over the 2021-2022 period, with an incidence rate of about 25.3 cases per 10,000 full-time equivalent workers, illustrating the widespread nature of these injuries across U.S. industries.

In addition, as per the WorkCare, Inc. article published in March 2025, broader estimates suggest that musculoskeletal disorders account for over 1 million workplace injuries in the U.S. annually, placing a substantial burden on employers and workers

alike. These high rates of work-related musculoskeletal issues are key drivers for the growing adoption of exoskeleton solutions, as such technology can help augment or support physical tasks, improve worker health and productivity, and reduce fatigue among industrial laborers.

Rapid technological advancements in the U.S. exoskeleton market are driving innovation, accelerating adoption across health care, industrial, and consumer segments. For instance, in January 2026, a key development in the U.S. is the recent unveiling of new AI-enabled wearable robotic systems at major trade events such as CES 2026, where several companies showcased next-generation portable exoskeletons that incorporate real-time AI-driven assistance, including terrain adaptive controls and compact, user-centric designs that support mobility and reduce physical exertion for diverse users. These products signal a shift toward more intelligent, adaptive exoskeleton solutions designed to assist both daily mobility and demanding tasks, reflecting growing interest and commercial momentum in the U.S. wearable robotics space.

U.S. Exoskeleton Market Report Segmentation

This report forecasts revenue and volume growth at the country level and provides an analysis of industry trends in each sub-segment from 2021 to 2033. For this study, Grand View Research, Inc. has segmented the U.S. exoskeleton market report based on mobility, technology, extremity, end-use, and region:

Mobility Outlook (Volume, 000' Units; Revenue, USD Million, 2021 - 2033)

Mobile

Fixed/Stationary

Technology Outlook (Volume, 000' Units; Revenue, USD Million, 2021 - 2033)

Powered

Non-powered

Extremity Outlook (Volume, 000' Units; Revenue, USD Million, 2021 - 2033)

Upper Body

Lower Body

Full Body

End-use Outlook (Volume, 000' Units; Revenue, USD Million, 2021 - 2033)

Healthcare

Military

Industry

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Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Segment Definitions
 - 1.2.1. Mobility
 - 1.2.2. Technology
 - 1.2.3. Extremity
 - 1.2.4. End Use
 - 1.2.5. Regional scope
 - 1.2.6. Estimates and forecasts timeline
- 1.3. Research Methodology
- 1.4. Information Procurement
 - 1.4.1. Purchased database
 - 1.4.2. GVR's internal database
 - 1.4.3. Secondary sources
 - 1.4.4. Primary research
 - 1.4.5. Details of primary research
- 1.5. Information or Data Analysis
 - 1.5.1. Data analysis models
- 1.6. Market Formulation & Validation
- 1.7. Model Details
 - 1.7.1. Commodity flow analysis (Model 1)
 - 1.7.2. Approach 1: Commodity flow approach
- 1.8. List of Secondary Sources
- 1.9. List of Primary Sources
- 1.10. Objectives

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segment Outlook
 - 2.2.1. Mobility outlook
 - 2.2.2. Technology outlook
 - 2.2.3. Extremity outlook
 - 2.2.4. End Use outlook
 - 2.2.5. Regional outlook
- 2.3. Competitive Insights

CHAPTER 3. U.S. EXOSKELETON MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Market Lineage Outlook
 - 3.1.1. Parent market outlook
- 3.2. Market Dynamics
 - 3.2.1. Market driver analysis
 - 3.2.1.1. Increasing incidence of spinal cord injury
 - 3.2.1.2. Increasing incidence of musculoskeletal disorders
 - 3.2.1.3. Technological advancements
 - 3.2.2. Market restraint analysis
 - 3.2.2.1. High procedural costs
 - 3.2.3. Market opportunity analysis
 - 3.2.4. Market challenges analysis
- 3.3. Exoskeleton Market Analysis Tools
 - 3.3.1. Industry Analysis - Porter's Five Forces
 - 3.3.1.1. Supplier power
 - 3.3.1.2. Buyer power
 - 3.3.1.3. Substitution threat
 - 3.3.1.4. Threat of new entrant
 - 3.3.1.5. Competitive rivalry
 - 3.3.2. PESTEL Analysis
 - 3.3.2.1. Political landscape
 - 3.3.2.2. Economic and Social landscape
 - 3.3.2.3. Technological landscape
 - 3.3.2.4. Environmental landscape
 - 3.3.2.5. Legal Landscape
- 3.4. Key Trends in the U.S. Exoskeleton/Exo Robots Market
- 3.5. Key Developments in the U.S. Exoskeleton/Exo Robots Market
- 3.6. Patent Analysis in the U.S. Exoskeleton/Exo Robots Market
- 3.7. Case Studies & Insights
- 3.8. Supply Chain Analysis for Exoskeletons
- 3.9. Current Regulatory Analysis
- 3.10. Ecosystem Analysis
- 3.11. Pricing Analysis
- 3.12. Upcoming Innovations in the Market

CHAPTER 4. U.S. EXOSKELETON MARKET SEGMENT ANALYSIS, BY MOBILITY 2021-2033 (USD MILLION), UNIT VOLUME (000' UNITS)

- 4.1. Definition and Scope
- 4.2. Mobility Market Share Analysis, 2025 & 2033
- 4.3. Segment Dashboard
- 4.4. U.S. Exoskeleton Market, By Mobility, 2021 - 2033
- 4.5. U.S. Exoskeleton Market Size & Forecasts, By Mobility, 2021 - 2033 (USD Million)
- 4.6. U.S. Exoskeleton Market Size & Forecasts, By Mobility, Unit Volume, 2021 - 2033 (000' Units)
- 4.7. Mobile
 - 4.7.1. Mobile market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)
- 4.8. Fixed/Stationary
 - 4.8.1. Fixed/stationary market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)

CHAPTER 5. U.S. EXOSKELETON MARKET SEGMENT ANALYSIS, BY TECHNOLOGY 2021-2033 (USD MILLION), UNIT VOLUME (000' UNITS)

- 5.1. Definition and Scope
- 5.2. Technology Market Share Analysis, 2025 & 2033
- 5.3. Segment Dashboard
- 5.4. U.S. Exoskeleton Market, By Technology, 2021 - 2033
- 5.5. U.S. Exoskeleton Market Size & Forecasts, By Technology, 2021 - 2033 (USD Million)
- 5.6. U.S. Exoskeleton Market Size & Forecasts, By Technology, Unit Volume, 2021 - 2033 (000' Units)
- 5.7. Powered
 - 5.7.1. Powered market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)
 - 5.7.2. Powered by Extremity
 - 5.7.2.1. Upper body
 - 5.7.2.1.1. Upper body market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)
 - 5.7.2.2. Lower body
 - 5.7.2.2.1. Lower body market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)
 - 5.7.2.3. Full body
 - 5.7.2.3.1. Full body market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)
- 5.8. Non-Powered

5.8.1. Non-powered market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)

5.8.2. Non-powered by Extremity

5.8.2.1. Upper body

5.8.2.1.1. Upper body market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)

5.8.2.2. Lower body

5.8.2.2.1. Lower body market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)

5.8.2.3. Full body

5.8.2.3.1. Full body market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)

CHAPTER 6. U.S. EXOSKELETON MARKET SEGMENT ANALYSIS, BY EXTREMITY 2021-2033 (USD MILLION), UNIT VOLUME (000' UNITS)

6.1. Definition and Scope

6.2. Extremity Market Share Analysis, 2025 & 2033

6.3. Segment Dashboard

6.4. U.S. Exoskeleton Market, By Extremity, 2021 - 2033

6.5. U.S. Exoskeleton Market Size & Forecasts, By Extremity, 2021 - 2033 (USD Million)

6.6. U.S. Exoskeleton Market Size & Forecasts, By Extremity, Unit Volume, 2021 - 2033 (000' Units)

6.7. Upper Body

6.7.1. Upper body market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)

6.8. Lower Body

6.8.1. Lower body market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)

6.9. Full Body

6.9.1. Full body market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)

CHAPTER 7. U.S. EXOSKELETON MARKET: END USE ESTIMATES & TREND ANALYSIS

Definition and Scope

7.1. End Use Market Share Analysis, 2025 & 2033

7.2. Segment Dashboard

7.3. U.S. Exoskeleton Market, By End Use, 2021 - 2033

7.4. U.S. Exoskeleton Market Size & Forecasts, By End Use, 2021 - 2033 (USD Million)

7.5. U.S. Exoskeleton Market Size & Forecasts, By End Use, Unit Volume, 2021 - 2033 (000' Units)

7.6. Healthcare

7.6.1. Healthcare market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)

7.7. Military

7.7.1. Military market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)

7.8. Industry

7.8.1. Industry market estimates and forecasts 2021 to 2033 (USD Million, 000' Units)

CHAPTER 8. COMPETITIVE LANDSCAPE

8.1. Recent Developments & Impact Analysis, By Key Market Participants

8.2. Company/Competition Categorization

8.3. U.S. Exoskeleton/Exo Robots Key Market Performance Indicators

8.4. Company Profiles

8.4.1. Ekso Bionics

8.4.1.1. Overview

8.4.1.2. Financial performance

8.4.1.3. Product benchmarking

8.4.1.4. Strategic initiatives

8.4.2. Lockheed Martin Corporation

8.4.2.1. Overview

8.4.2.2. Financial performance

8.4.2.3. Product benchmarking

8.4.2.4. Strategic initiatives

8.4.3. Suit X

8.4.3.1. Overview

8.4.3.2. Financial performance

8.4.3.3. Product benchmarking

8.4.3.4. Strategic initiatives

8.4.4. Rex Bionics Plc.

8.4.4.1. Overview

8.4.4.2. Financial performance

8.4.4.3. Product benchmarking

8.4.4.4. Strategic initiatives

8.4.5. ReWalk Robotics

- 8.4.5.1. Overview
- 8.4.5.2. Financial performance
- 8.4.5.3. Product benchmarking
- 8.4.5.4. Strategic initiatives

8.4.6. DIH Medical

- 8.4.6.1. Overview
- 8.4.6.2. Financial performance
- 8.4.6.3. Product benchmarking
- 8.4.6.4. Strategic initiatives

8.4.7. German Bionic

- 8.4.7.1. Overview
- 8.4.7.2. Financial performance
- 8.4.7.3. Product benchmarking
- 8.4.7.4. Strategic initiatives

8.4.8. Sarcos Technology and Robotics Corporation

- 8.4.8.1. Overview
- 8.4.8.2. Financial performance
- 8.4.8.3. Product benchmarking
- 8.4.8.4. Strategic initiatives

8.4.9. Parker Hannifin Corporation

- 8.4.9.1. Overview
- 8.4.9.2. Financial performance
- 8.4.9.3. Product benchmarking
- 8.4.9.4. Strategic initiatives

8.4.10. Bionik Laboratories

- 8.4.10.1. Overview
- 8.4.10.2. Financial performance
- 8.4.10.3. Product benchmarking
- 8.4.10.4. Strategic initiatives

List Of Tables

LIST OF TABLES

Table 1 List of secondary sources

Table 2 List of abbreviations

Table 3 U.S. exoskeleton market estimates and forecasts, by mobility, 2021 - 2033
(USD Million)

Table 4 U.S. exoskeleton market volume estimates and forecasts, by mobility, 2021 - 2033 (Volume, 000' Units)

Table 5 U.S. exoskeleton market estimates and forecasts, by technology, 2021 - 2033
(USD Million)

Table 6 U.S. exoskeleton market volume estimates and forecasts, by technology, 2021 - 2033 (Volume, 000' Units)

Table 7 U.S. exoskeleton market estimates and forecasts, by extremity, 2021 - 2033
(USD Million)

Table 8 U.S. exoskeleton market volume estimates and forecasts, by extremity, 2021 - 2033 (Volume, 000' Units)

Table 9 U.S. exoskeleton market estimates and forecasts, by end use, 2021 - 2033
(USD Million)

Table 10 U.S. exoskeleton market volume estimates and forecasts, by end use, 2021 - 2033 (Volume, 000' Units)

List Of Figures

LIST OF FIGURES

- Fig. 1 Market research process
- Fig. 2 Data triangulation techniques
- Fig. 3 Market research approaches
- Fig. 4 QFD modeling for market share assessment
- Fig. 5 Market formulation & validation
- Fig. 6 U.S. exoskeleton market: market outlook
- Fig. 7 U.S. exoskeleton competitive insights
- Fig. 8 Parent market outlook
- Fig. 9 Related/ancillary market outlook
- Fig. 10 U.S. exoskeleton market driver impact
- Fig. 11 U.S. exoskeleton market restraint impact
- Fig. 12 U.S. exoskeleton market: Mobility movement analysis
- Fig. 13 U.S. exoskeleton market: Mobility outlook and key takeaways
- Fig. 14 Mobile market estimates and forecast, 2021 - 2033 (USD Million, 000' Units)
- Fig. 15 Fixed/stationary market estimates and forecast, 2021 - 2033 (USD Million, 000' Units)
- Fig. 16 U.S. exoskeleton market: Technology movement analysis
- Fig. 17 U.S. exoskeleton market: Technology outlook and key takeaways
- Fig. 18 Powered market estimates and forecast, 2021 - 2033 (USD Million, 000' Units)
- Fig. 19 Non-powered market estimates and forecast, 2021 - 2033 (USD Million, 000' Units)
- Fig. 20 U.S. exoskeleton market: Extremity movement analysis
- Fig. 21 U.S. exoskeleton market: Extremity outlook and key takeaways
- Fig. 22 Upper body market estimates and forecast, 2021 - 2033 (USD Million, 000' Units)
- Fig. 23 Lower body market estimates and forecast, 2021 - 2033 (USD Million, 000' Units)
- Fig. 24 Full body market estimates and forecast, 2021 - 2033 (USD Million, 000' Units)
- Fig. 25 U.S. exoskeleton market: End Use movement analysis
- Fig. 26 U.S. exoskeleton market: End Use outlook and key takeaways
- Fig. 27 Healthcare market estimates and forecast, 2021 - 2033 (USD Million, 000' Units)
- Fig. 28 Military market estimates and forecast, 2021 - 2033 (USD Million, 000' Units)
- Fig. 29 Industry market estimates and forecast, 2021 - 2033 (USD Million, 000' Units)

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