

Global Bionic Prosthetics and Mechanical Exoskeletons Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Bionic Prosthetics and Mechanical Exoskeletons market size was valued at US\$ 282 million in 2024 and is forecast to a readjusted size of USD 1158 million by 2031 with a CAGR of 22.6% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Bionic prosthetics and mechanical exoskeletons are products that apply high-tech and robotic technologies to provide important functional recovery and auxiliary support for amputees, people with disabilities, and people who need assistance. Bionic prosthetics are artificial limbs that combine sensors, motors and control systems, and feedback systems to simulate human limb movement and function. Mechanical exoskeletons are external wearable devices that provide additional strength, support, and protection to the human body through external structures. Bionic prosthetics and mechanical exoskeletons have a wide range of applications in military, civilian, rehabilitation and medical fields, including assisting people with motor impairment to restore their ability to hold objects and walk, reducing artificial weight, and transporting materials.

This report is a detailed and comprehensive analysis for global Bionic Prosthetics and Mechanical Exoskeletons market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many

markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Bionic Prosthetics and Mechanical Exoskeletons market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Bionic Prosthetics and Mechanical Exoskeletons market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Bionic Prosthetics and Mechanical Exoskeletons market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Bionic Prosthetics and Mechanical Exoskeletons market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Bionic Prosthetics and Mechanical Exoskeletons
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Bionic Prosthetics and Mechanical Exoskeletons market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sarcos Robotics, Ekso Bionics, Lifeward, Cyberdyne, Synchron, Open Bionics, SuitX, Touch Bionics, Marsi Bionics, Exii, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Bionic Prosthetics and Mechanical Exoskeletons market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Upper Limbs

Lower Limbs

Whole Body

Others

Market segment by Application

Military

Civilian

Others

Major players covered

Sarcos Robotics

Ekso Bionics

Lifeward

Cyberdyne

Synchron

Open Bionics

SuitX

Touch Bionics

Marsi Bionics

Exii

Ottobock

Esper Bionics

Xilloc Medical

Mobius Bionics

Coapt

Blatchford

FAULHABER GROUP

Hocoma

Fourier Intelligence

FREE Bionics Taiwan Inc.

Guangzhou Shipeng Technology

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Bionic Prosthetics and Mechanical Exoskeletons product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bionic Prosthetics and Mechanical Exoskeletons, with price, sales quantity, revenue, and global market share of Bionic Prosthetics and Mechanical Exoskeletons from 2020 to 2025.

Chapter 3, the Bionic Prosthetics and Mechanical Exoskeletons competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bionic Prosthetics and Mechanical Exoskeletons breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Bionic Prosthetics and Mechanical Exoskeletons market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Bionic Prosthetics and Mechanical Exoskeletons.

Chapter 14 and 15, to describe Bionic Prosthetics and Mechanical Exoskeletons sales channel, distributors, customers, research findings and conclusion.

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