

Medical Exoskeleton Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/M5F4633870B2EN.html>

Date: October 2023

Pages: 139

Price: US\$ 2,499.00 (Single User License)

ID: M5F4633870B2EN

Abstracts

Market Overview:

The global medical exoskeleton market size reached US\$ 280.1 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1,969.7 Million by 2028, exhibiting a growth rate (CAGR) of 35.2% during 2023-2028.

A medical exoskeleton is an electromechanical device that supports the human musculoskeletal system for rehabilitation and enables an injured or paraplegic person to stand and walk. It relies on a combination of springs and dampers that can store energy from human motion and reuse it when required to enhance a posture or motion. It also uses actuators that convert electrical, air, or hydraulic energy into mechanical force to support and strengthen the human movement. It is employed in the military sector to give soldiers additional protection and abilities during warfare. It is also used in the construction sector to reduce fatigue and back, neck, and shoulder pain.

Medical Exoskeleton Market Trends:

At present, the growing incidences of spinal cord injuries (SCI) due to falls, road traffic crashes, or violence represent one of the key factors driving the market. Besides this, there is a rise in the demand for medical exoskeletons in various industries to support employee health and boost productivity around the world. This, along with the rising number of startups that expertise in exoskeleton technology and provide solutions for rehabilitation, is positively influencing the market. Moreover, key market players are financing research and development (R&D) activities to introduce anti-radiation aprons for health workers suffering from neck and back problems. They are also focusing on

launching a robotic partial knee orthosis used by wearers to reduce knee pain and regain mobility. In addition, the growing prevalence of musculoskeletal injuries and disorders, such as occupational overuse syndrome (OOS), cumulative trauma disorders (CTD), and repetitive strain injury (RSI), is offering a positive market outlook.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global medical exoskeleton market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on component, type, extremity, mobility and end user.

Breakup by Component:

Hardware

Software

Breakup by Type:

Powered Exoskeletons

Passive Exoskeletons

Breakup by Extremity:

Lower Extremity Medical Exoskeletons

Upper Extremity Medical Exoskeletons

Full Body

Breakup by Mobility:

Mobile Exoskeletons

Stationary Exoskeletons

Breakup by End User:

Rehabilitation Centers

Physiotherapy Centers

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being B-Temia Inc., Cyberdyne Inc., Ekso Bionics Holdings Inc., ExoAtlet Global S.A., GOGO Mobility Robots, Hocoma AG (DIH International Limited), Myomo Inc., ReWalk Robotics Ltd, Rex Bionics Ltd., suitX Inc. (Ottobock SE & Co. KGaA), Wandercraft and Wearable Robotics Srl.

Key Questions Answered in This Report:

How has the global medical exoskeleton market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global medical exoskeleton market?

What are the key regional markets?

What is the breakup of the market based on the component?

What is the breakup of the market based on the type?

What is the breakup of the market based on the extremity?

What is the breakup of the market based on the mobility?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global medical exoskeleton market and who are the key players?

What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL MEDICAL EXOSKELETON MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY COMPONENT

- 6.1 Hardware
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Software
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast

7 MARKET BREAKUP BY TYPE

7.1 Powered Exoskeletons

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Passive Exoskeletons

7.2.1 Market Trends

7.2.2 Market Forecast

8 MARKET BREAKUP BY EXTREMITY

8.1 Lower Extremity Medical Exoskeletons

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Upper Extremity Medical Exoskeletons

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 Full Body

8.3.1 Market Trends

8.3.2 Market Forecast

9 MARKET BREAKUP BY MOBILITY

9.1 Mobile Exoskeletons

9.1.1 Market Trends

9.1.2 Market Forecast

9.2 Stationary Exoskeletons

9.2.1 Market Trends

9.2.2 Market Forecast

10 MARKET BREAKUP BY END USER

10.1 Rehabilitation Centers

10.1.1 Market Trends

10.1.2 Market Forecast

10.2 Physiotherapy Centers

10.2.1 Market Trends

10.2.2 Market Forecast

10.3 Others

- 10.3.1 Market Trends
- 10.3.2 Market Forecast

11 MARKET BREAKUP BY REGION

- 11.1 North America
 - 11.1.1 United States
 - 11.1.1.1 Market Trends
 - 11.1.1.2 Market Forecast
 - 11.1.2 Canada
 - 11.1.2.1 Market Trends
 - 11.1.2.2 Market Forecast
- 11.2 Asia-Pacific
 - 11.2.1 China
 - 11.2.1.1 Market Trends
 - 11.2.1.2 Market Forecast
 - 11.2.2 Japan
 - 11.2.2.1 Market Trends
 - 11.2.2.2 Market Forecast
 - 11.2.3 India
 - 11.2.3.1 Market Trends
 - 11.2.3.2 Market Forecast
 - 11.2.4 South Korea
 - 11.2.4.1 Market Trends
 - 11.2.4.2 Market Forecast
 - 11.2.5 Australia
 - 11.2.5.1 Market Trends
 - 11.2.5.2 Market Forecast
 - 11.2.6 Indonesia
 - 11.2.6.1 Market Trends
 - 11.2.6.2 Market Forecast
 - 11.2.7 Others
 - 11.2.7.1 Market Trends
 - 11.2.7.2 Market Forecast
- 11.3 Europe
 - 11.3.1 Germany
 - 11.3.1.1 Market Trends
 - 11.3.1.2 Market Forecast
 - 11.3.2 France

- 11.3.2.1 Market Trends
- 11.3.2.2 Market Forecast
- 11.3.3 United Kingdom
 - 11.3.3.1 Market Trends
 - 11.3.3.2 Market Forecast
- 11.3.4 Italy
 - 11.3.4.1 Market Trends
 - 11.3.4.2 Market Forecast
- 11.3.5 Spain
 - 11.3.5.1 Market Trends
 - 11.3.5.2 Market Forecast
- 11.3.6 Russia
 - 11.3.6.1 Market Trends
 - 11.3.6.2 Market Forecast
- 11.3.7 Others
 - 11.3.7.1 Market Trends
 - 11.3.7.2 Market Forecast
- 11.4 Latin America
 - 11.4.1 Brazil
 - 11.4.1.1 Market Trends
 - 11.4.1.2 Market Forecast
 - 11.4.2 Mexico
 - 11.4.2.1 Market Trends
 - 11.4.2.2 Market Forecast
 - 11.4.3 Others
 - 11.4.3.1 Market Trends
 - 11.4.3.2 Market Forecast
- 11.5 Middle East and Africa
 - 11.5.1 Market Trends
 - 11.5.2 Market Breakup by Country
 - 11.5.3 Market Forecast

12 SWOT ANALYSIS

- 12.1 Overview
- 12.2 Strengths
- 12.3 Weaknesses
- 12.4 Opportunities
- 12.5 Threats

13 VALUE CHAIN ANALYSIS

14 PORTERS FIVE FORCES ANALYSIS

- 14.1 Overview
- 14.2 Bargaining Power of Buyers
- 14.3 Bargaining Power of Suppliers
- 14.4 Degree of Competition
- 14.5 Threat of New Entrants
- 14.6 Threat of Substitutes

15 PRICE ANALYSIS

16 COMPETITIVE LANDSCAPE

- 16.1 Market Structure
- 16.2 Key Players
- 16.3 Profiles of Key Players
 - 16.3.1 B-Temia Inc.
 - 16.3.1.1 Company Overview
 - 16.3.1.2 Product Portfolio
 - 16.3.2 Cyberdyne Inc.
 - 16.3.2.1 Company Overview
 - 16.3.2.2 Product Portfolio
 - 16.3.2.3 Financials
 - 16.3.3 Ekso Bionics Holdings Inc.
 - 16.3.3.1 Company Overview
 - 16.3.3.2 Product Portfolio
 - 16.3.4 ExoAtlet Global S.A.
 - 16.3.4.1 Company Overview
 - 16.3.4.2 Product Portfolio
 - 16.3.5 GOGOA Mobility Robots
 - 16.3.5.1 Company Overview
 - 16.3.5.2 Product Portfolio
 - 16.3.6 Hocoma AG (DIH International Limited)
 - 16.3.6.1 Company Overview
 - 16.3.6.2 Product Portfolio
 - 16.3.7 Myomo Inc.

- 16.3.7.1 Company Overview
- 16.3.7.2 Product Portfolio
- 16.3.7.3 Financials
- 16.3.8 ReWalk Robotics Ltd
 - 16.3.8.1 Company Overview
 - 16.3.8.2 Product Portfolio
 - 16.3.8.3 Financials
- 16.3.9 Rex Bionics Ltd.
 - 16.3.9.1 Company Overview
 - 16.3.9.2 Product Portfolio
- 16.3.10 suitX Inc. (Ottobock SE & Co. KGaA)
 - 16.3.10.1 Company Overview
 - 16.3.10.2 Product Portfolio
- 16.3.11 Wandercraft
 - 16.3.11.1 Company Overview
 - 16.3.11.2 Product Portfolio
- 16.3.12 Wearable Robotics Srl
 - 16.3.12.1 Company Overview
 - 16.3.12.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: Medical Exoskeleton Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Medical Exoskeleton Market Forecast: Breakup by Component (in Million US\$), 2023-2028

Table 3: Global: Medical Exoskeleton Market Forecast: Breakup by Type (in Million US\$), 2023-2028

Table 4: Global: Medical Exoskeleton Market Forecast: Breakup by Extremity (in Million US\$), 2023-2028

Table 5: Global: Medical Exoskeleton Market Forecast: Breakup by Mobility (in Million US\$), 2023-2028

Table 6: Global: Medical Exoskeleton Market Forecast: Breakup by End User (in Million US\$), 2023-2028

Table 7: Global: Medical Exoskeleton Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 8: Global: Medical Exoskeleton Market: Competitive Structure

Table 9: Global: Medical Exoskeleton Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Medical Exoskeleton Market: Major Drivers and Challenges

Figure 2: Global: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017-2022

Figure 3: Global: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 4: Global: Medical Exoskeleton Market: Breakup by Component (in %), 2022

Figure 5: Global: Medical Exoskeleton Market: Breakup by Type (in %), 2022

Figure 6: Global: Medical Exoskeleton Market: Breakup by Extremity (in %), 2022

Figure 7: Global: Medical Exoskeleton Market: Breakup by Mobility (in %), 2022

Figure 8: Global: Medical Exoskeleton Market: Breakup by End User (in %), 2022

Figure 9: Global: Medical Exoskeleton Market: Breakup by Region (in %), 2022

Figure 10: Global: Medical Exoskeleton (Hardware) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 11: Global: Medical Exoskeleton (Hardware) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 12: Global: Medical Exoskeleton (Software) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 13: Global: Medical Exoskeleton (Software) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 14: Global: Medical Exoskeleton (Powered Exoskeletons) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 15: Global: Medical Exoskeleton (Powered Exoskeletons) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 16: Global: Medical Exoskeleton (Passive Exoskeletons) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 17: Global: Medical Exoskeleton (Passive Exoskeletons) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 18: Global: Medical Exoskeleton (Lower Extremity Medical Exoskeletons) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 19: Global: Medical Exoskeleton (Lower Extremity Medical Exoskeletons) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 20: Global: Medical Exoskeleton (Upper Extremity Medical Exoskeletons) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 21: Global: Medical Exoskeleton (Upper Extremity Medical Exoskeletons) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 22: Global: Medical Exoskeleton (Full Body) Market: Sales Value (in Million

US\$), 2017 & 2022

Figure 23: Global: Medical Exoskeleton (Full Body) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Global: Medical Exoskeleton (Mobile Exoskeletons) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Global: Medical Exoskeleton (Mobile Exoskeletons) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: Global: Medical Exoskeleton (Stationary Exoskeletons) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: Global: Medical Exoskeleton (Stationary Exoskeletons) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: Global: Medical Exoskeleton (Rehabilitation Centers) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: Global: Medical Exoskeleton (Rehabilitation Centers) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: Global: Medical Exoskeleton (Physiotherapy Centers) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: Global: Medical Exoskeleton (Physiotherapy Centers) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 32: Global: Medical Exoskeleton (Other End Users) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 33: Global: Medical Exoskeleton (Other End Users) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 34: North America: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 35: North America: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 36: United States: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 37: United States: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: Canada: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: Canada: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 40: Asia-Pacific: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 41: Asia-Pacific: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 42: China: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: China: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 44: Japan: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: Japan: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 46: India: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: India: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 48: South Korea: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 49: South Korea: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 50: Australia: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: Australia: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 52: Indonesia: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 53: Indonesia: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 54: Others: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 55: Others: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 56: Europe: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 57: Europe: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 58: Germany: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 59: Germany: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 60: France: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 61: France: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 62: United Kingdom: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 63: United Kingdom: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 64: Italy: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 65: Italy: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 66: Spain: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 67: Spain: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 68: Russia: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 69: Russia: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 70: Others: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 71: Others: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Latin America: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 73: Latin America: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 74: Brazil: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 75: Brazil: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 76: Mexico: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 77: Mexico: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 78: Others: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 79: Others: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 80: Middle East and Africa: Medical Exoskeleton Market: Sales Value (in Million US\$), 2017 & 2022

Figure 81: Middle East and Africa: Medical Exoskeleton Market: Breakup by Country (in

%), 2022

Figure 82: Middle East and Africa: Medical Exoskeleton Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 83: Global: Medical Exoskeleton Industry: SWOT Analysis

Figure 84: Global: Medical Exoskeleton Industry: Value Chain Analysis

Figure 85: Global: Medical Exoskeleton Industry: Porter's Five Forces Analysis

I would like to order

Product name: Medical Exoskeleton Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Product link: <https://marketpublishers.com/r/M5F4633870B2EN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/M5F4633870B2EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

