

Wearable Robots, Exoskeletons: Market Research Sample

2018-2025

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WinterGreen Research Global Market Intelligence Company

WinterGreen Research is a global market intelligence company covering software and technology sectors with a concentration on providing high quality forecasting and concise trend analysis contained in chapter two of the study. These forecasts and market shares are backed by a comprehensive view of the market sector that provides a complete snapshot of what is happening in a market segment.

WinterGreen Research is an independent research organization funded by the sale of market research studies all over the world. WinterGreen Research is positioned to help customers facing challenges that define the modern enterprise. The increasingly global nature of markets, technology, and product positioning is a reflection of the implementation of the globally integrated enterprise. Customers trust WinterGreen Research to work alongside them to ensure the success of the participation in a particular market segment.

Senior analysts provide insight for decision makers.

Good enough research is not good enough to make decisions that involve spending hundreds of millions of dollars. WinterGreen Research senior analysts are mindful of the huge responsibility faced by corporate managers who need to build out new products and new technology. Our analysts are careful to provide a good independent assessment of the competitive challenges and to address risk reward scenarios related to a market segment in a manner that is useful to C-level executives and to senior managers.

Summary

Wearable Robots, Exoskeletons are used to assist with weight lifting for workers. Exoskeletons units are evolving additional functionality rapidly. Exoskeletons support occupational heavy lifting. Exoskeletons are poised to play a significant role in warehouse management, ship building, and manufacturing. Usefulness in occupational markets is being established. Medical markets are also using Exoskeletons to help assist personal mobility. The Exoskeletons promote upright walking and relearning of lost functions due to stroke or accidents. The usefulness of using Exoskeletons to increase human performance promises to have dramatic and rapid growth.



The ability to lift effortlessly is very significant in the industrial, military, and medical markets. It means that there is a much broader base of people available to do difficult lifting jobs.

Wearable Robots, Exoskeletons: Market Drivers & Restraints

This section looks at the market segments to identify growth factors, growth forces, and market challenges.

COMPETITIVE LANDSCAPE

Strategic Positioning of Market Leaders

The market share analysis leans on the company description and the product descriptions to create a strategic overview section.

This section includes an in-depth analysis of the key developments among the top players in this market. Developments are curated based on their overall impact on the market. The key developments adopted include new product launches and upgrades; mergers & acquisitions; agreements, collaborations, and partnerships; and expansions.

Figure 1. New Product Launches, Upgrades, and Acquisition Strategy Provide Competitive Advantage

Product Launches and Acquisitions	
Vendor 1	xx
Vendor 2	xx
Vendor 3	xx

Source: WinterGreen Research, Inc.

Figure 2. Wearable Robots, Exoskeletons Medical Market
Shares, Dollars, Worldwide, 2018

In Millions of Dollars		
	MM\$	% \$
Ekso	XX	XX
Cyberdyne	XX	XX
ReWalk	XX	XX
Other	XX	XX
Total (MM\$)	XX	XX

Source: WinterGreen Research, Inc.

Wearable Robots, Exoskeletons: Market Segments Analyzed

The Wearable Robotmarket.is segregated into different categories based on size of airline served, types of services, applications, and geographical regions. Key vendor strategies are described and the range of applications elucidated.

Wearable Robots, Industrial Exoskeletons: Executive Summary

Figure 3. Wearable Robots, Exoskeleton Robot Market Segments, High End, Mid Range, and Low End, Dollars, Worldwide, 2019-2025

Wearable Robots, Exoskeleton Robot Market Segments, High End, Mid Range, and Low End, Dollars, Worldwide, 2019-2025								
In Millions of Dollars								
In Units								
	2018	2019	2020	2021	2022	2023	2024	2025
Exoskeleton (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
Exoskeleton Units (000)	xx	xx	xx	xx	xx	xx	xx	xx
High End Exoskeleton (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx
% High End	xx	xx	xx	xx	xx	xx	xx	xx
\$ per High End Unit (000)	xx	xx	xx	xx	xx	xx	xx	xx
# Exoskeleton Units	xx	xx	xx	xx	xx	xx	xx	xx
Mid Range Exoskeleton (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx
% Mid Range	xx	xx	xx	xx	xx	xx	xx	xx
\$ per Mid Range Unit (000)	xx	xx	xx	xx	xx	xx	xx	xx
# Exoskeleton Units	xx	xx	xx	xx	xx	xx	xx	xx
Low End Exoskeleton (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx
% Low End	xx	xx	xx	xx	xx	xx	xx	xx
\$ per Low End Unit (000)	xx	xx	xx	xx	xx	xx	xx	xx
# Exoskeleton Units	xx	xx	xx	xx	xx	xx	xx	xx
Total Exoskeleton (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
Total Exoskeleton Units (000)	xx	xx	xx	xx	xx	xx	xx	xx
\$ per Unit	xx	xx	xx	xx	xx	xx	xx	xx
Source: WinterGreen Research, Inc.								

Wearable Robots, Industrial Exoskeletons: Executive Summary

Figure 4. Wearable Robots, Industrial, Medical, Military, Law Enforcement, and Homeland Security Exoskeletons Analysis, Worldwide, Units and Dollars, 2019-2025

Wearable Robots, Exoskeleton Robot Markets, Dollars, Worldwide, 2019-2025
In Millions of Dollars

	2018	2019	2020	2021	2022	2023	2024	2025
Total Exoskeleton (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

Figure 5. Wearable Robots, Exoskeleton Robot Markets, Dollars, Worldwide, 2019-2025

Wearable Robots, Exoskeleton Robot Markets, Dollars, Worldwide, 2019-2025
In Millions of Dollars

	2018	2019	2020	2021	2022	2023	2024	2025
Total Exoskeleton (MM\$)	130.3	211.1	373.6	657.6	1,150.8	1,990.8	3,404.3	5,174.5
% Growth	61.0	62.0	77.0	76.0	75.0	73.0	71.0	52.0

Source: WinterGreen Research, Inc.

Wearable Robots, Industrial Exoskeletons: Executive Summary

Figure 6. Wearable Robots, Exoskeleton Robot Markets, Units, Worldwide, 2019-2025

Wearable Robots, Exoskeleton Robot Markets, Units, Worldwide, 2019-2025								
In Units								
	2018	2019	2020	2021	2022	2023	2024	2025
Total Exoskeleton Units (000)	xx	xx	xx	xx	xx	xx	xx	xx
\$ per Unit	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

Wearable Robots, Industrial Exoskeletons: Executive Summary

Figure 7. Wearable Robots, Exoskeleton Robot Market Segments, Medical, Military, and Industrial, Dollars, Worldwide, 2019-2025

Wearable Robots, Exoskeleton Robot Market Segments, Medical, Military, and Industrial, Dollars, Worldwide, 2019-2025								
In Millions of Dollars								
In Percent of Total								
	2018	2019	2020	2021	2022	2023	2024	2025
Exoskeleton (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx
Medical (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx
% Total	xx	xx	xx	xx	xx	xx	xx	xx
Industrial (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx
% Total	xx	xx	xx	xx	xx	xx	xx	xx
Military (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx
% Total	xx	xx	xx	xx	xx	xx	xx	xx
Law Enforcement (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx
% Total	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

Wearable Robots, Industrial Exoskeletons: Executive Summary

Figure 8. Wearable Robots, Exoskeleton Robot Market Segments, Medical, Quadriplegia, Multiple Sclerosis, Stroke and Cerebral Palsy, Dollars, Worldwide, 2019-2025

Wearable Robots, Exoskeleton Robot Market Segments, Medical, Quadriplegia, Multiple Sclerosis, Stroke and Cerebral Palsy, Dollars, Worldwide, 2019-2025
In Millions of Dollars

	2018	2019	2020	2021	2022	2023	2024	2025
Medical Wearable Robot Exoskeleton (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
Quadriplegia	xx	xx	xx	xx	xx	xx	xx	xx
Multiple sclerosis	xx	xx	xx	xx	xx	xx	xx	xx
Stroke	xx	xx	xx	xx	xx	xx	xx	xx
Cerebral palsy	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

Wearable Robots, Industrial Exoskeletons: Executive Summary

Figure 9. Industrial Wearable Robot Applications, Industrial, Worldwide, Units and Dollars, 2018-2025

In Thousands of Units and Millions of Dollars, Separate Tables for Units and Dollars

	2016	2017	2018	2019	2020	2021	2022	2023
Industrial Wearable Robot Exoskeleton (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
Ship Building	xx	xx	xx	xx	xx	xx	xx	xx
Construction	xx	xx	xx	xx	xx	xx	xx	xx
Warehouse, Manufacturing	xx	xx	xx	xx	xx	xx	xx	xx
Total	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

Figure 10. Medical Wearable Robot Applications, Worldwide, Units and Dollars, 2016-2022

In Thousands of Units and Millions of Dollars, Separate Tables for Units and Dollars

	2015	2016	2017	2018	2019	2020	2021	2022
Medical Wearable Robot Exoskeleton (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
Extremities (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
Exoskeleton (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
Stroke CPM (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx
Total	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

The Wearable Robot report presents insightful details related to the current scenarios in the medical market with respect to treating stroke. The report describes factors having an impact on the growth of the market, market metrics, and market challenges to vendors. The report presents market trends along with growth opportunities have been covered in depth in this report.

Market Trends Likely to Create Growth

The market driving forces analysis provides a description of the fundamentals particular to this market that create the opportunity for growth and looks at the various market participants likely to leverage their market position to achieve competitive advantage. Product descriptions in this context create a competitive strategic overview section. This section includes an in-depth analysis of the key developments in the overall market, developments that the companies need to be aware of and to respond to.

Developments are weighted to indicate their overall significance in creating market opportunity for the various market participants. Driving forces impact the market equally, giving every market participant opportunity to grow. Some are better positioned to respond more quickly than others. The key developments include new product launches, product upgrades; mergers & acquisitions; agreements, collaborations, and partnerships; and expansion of the user base as more people realize the need for use of Spunbonded Nonwoven Fabrics Polymer Analysis.

Business leaders are challenged to move their enterprises to the next level of competition. An effective business player, transformer, and disruptor position depends on the effectiveness of employing advanced technologies. Organizational, operational, and business model innovation are needed to create ways of operating and growing the business. It is a journey. The study documents this process among the market leaders and contenders.

Company Analysis

Wearable Robot manufacturers analysis are in market share analysis. Company basic information, manufacturing base, competitors, product type and technology, sales, revenue, price is provided.

WinterGreen Research is a specialist in technology analysis and provides insight not available to organizations just putting together a study off the Internet.

For Each Vendor

Table Wearable Robot Sales, Revenue,

Medical. Industrial, Commercial, Law Enforcement, Military,

Forecasts

There are 48 Tables and Figures relating to Market Forecasts by Type as per the different market segments

Figure 11. Industrial Wearable Robot Analysis, Number of Modules by Vendor, Worldwide, 2018

In Millions of Dollars and Number of Modules and Systems							
	MM\$	% \$	\$ per Module	# (000) Modules	\$ per System	In (000) # Systems	# modules per System
Vendor 1	xx	xx	xx	xx	xx	xx	xx
Vendor 2	xx	xx	xx	xx	xx	xx	xx
Vendor 3	xx	xx	xx	xx	xx	xx	xx
Vendor 4	xx	xx	xx	xx	xx	xx	xx
Vendor 5	xx	xx	xx	xx	xx	xx	xx
Vendor 6	xx	xx	xx	xx	xx	xx	xx
Vendor 7	xx	xx	xx	xx	xx	xx	xx
Vendor 8	xx	xx	xx	xx	xx	xx	xx
Vendor 9	xx	xx	xx	xx	xx	xx	xx
Vendor 10	xx	xx	xx	xx	xx	xx	xx
Other	xx	xx	xx	xx	xx	xx	xx
Total (MM\$)	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

What matters is that the broad feature function package gets implemented and made available to users. The Industrial Wearable Robots more efficient for users, creating clearer, more consistent services components useful for many applications.

Key Questions Answered in this Report

- What will the market size be in 2025 and what is the growth rate?
- Why is the market growing?
- What are the key Market Trends?
- What are the key growth drivers for this market?
- What are the challenges to market growth?
- Who are the key vendors in this market space?
- What are the key challenges to each vendor?
- What are the market opportunities and threats faced by the key vendors?
- What are the strengths and weaknesses of the key vendors?

The report is also available as part of our annual subscription offer. Please contact your distributor or WinterGreen Research, Inc, 781 873 5078.

info@wintergreenresearch.com.

Market Research Process



The market research process is a combination of using primary market research through interviews with users and distributors, looking at companies and vendors, taking a comprehensive look at secondary sources, and leveraging internal databases that index trends going back to 2006.

Market Research Study

There is no substitute for doing the work of understanding a market. The WinterGreen Research study is organized in a way that supports taking a look at a market from a variety of directions. There is an executive summary for those who want a quick view of the most important findings. There is a market definition and market dynamics presentation. The market shares and forecasts by segment follow in chapter two. This gives a concise presentation of the numbers and the market driving forces. Most important for really understanding the market are product descriptions in chapter 3.

The ability to compare what each company is doing to approach a market, to look at the nuance of different approaches to the same market gives product managers a concise view of alternative directions to take with a product platform.

Competitive analysis is an essential aspect of marketing. Vendor strengths and challenges are outlined in the competitive analysis. Competitors move quickly, critical business opportunities are elucidated in the comprehensive study. The report assesses regional and local approaches to the market, technologies, competitive forces, and expected product pipeline developments. Buy the study to discover the prospects for the CBRN sector and find out what its future market prospects are.

Research Methodology

The research methodology depends on understanding the total market and by segmenting the market according to business, healthcare telemedicine, law enforcement, system and end users. Interviews with distributors and key opinion leaders are fundamental to getting good data.

The market volume and revenue for various types of telepresence systems was collected from the end users prospective, among others. In a key step of the research process, the presence of the end users in various regions was estimated and percentage of share was allocated accordingly. The ASPs were collected from various primary and secondary sources. These ASPs were used to estimate the global market by following bottom up approach. The latter data assisted in market forecast, which was again validated by various KOLs that included manufacturers, suppliers, distributors, regulatory bodies and associations.

To Understand a Market

To understand a market, it is not sufficient to prepare a few tables that show a list of features and put check marks next to features offered by a certain company. All the features are expressed differently by each vendor, by each market participant; it is the through study of nuance, of differences in the context from chapter two market share analysis of who is leading the market and who is poised to lead the market going forward that helps key decision makers. Study of the relative feature function packages is done with pictures, text, and tables and figures.

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Each study contains analysis of selected technologies that drive the market and summaries of the leading companies in a segment. See the complete table of contents on the WinterGreen Research site or available from your distributor.

We respectfully request you please buy our study and ask questions if you have them.

Susan Eustis,

President, WinterGreen Research, Inc.