

# The robotic exoskeleton market is experiencing rapid growth over the past few years.

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*Robotic Exoskeletons market are Defining How Machines and Humans can Improve Efficiency*

HYDERABAD, TELANGANA, INDIA, September 5, 2018 /EINPresswire.com/ -- The recent advances in technology have given rise to the implementation of robots in various applications. Robots were primarily designed to make tasks simpler, easier and faster. The trend hit off in the manufacturing sector with the introduction of UNIMATION in 1962. These early industrial bots had a simple task in hand, that of moving a product from point A to point B. Decades later, robotics are an indispensable part of an industry, but just not limited to manufacturing.

Scientists have been actively searching for fields where robots would be useful, developing various iterations and inventing new bots for every different task at hand. Exoskeletons are fairly not a new concept. As soon as an invention is commercialized, companies jump at the opportunity to execute the technology in outside applications. [Robotic exoskeletons](#) are wearable machines which use hydraulics, sensors, levers, and various technologies to enable limb movement with increased strength and endurance.

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Although technologies have advanced since 1960s, challenges in exoskeleton workings still exist. Robotic exoskeletons must work hand in hand with the requirements and needs of a particular wearer. Since, every wearer is unique and has different needs, the exoskeletons must be tuned accordingly, which is quite daunting and time-consuming. Also, at present, most of the experiments and tests conducted are evaluated in a controlled environment, with the real time performance bound to change accordingly in different environments.

American and Japanese manufacturers lead the way in terms of development and usability of robotic exoskeletons in military, healthcare and industrial purposes. The US Defense Advanced Research Projects Agency (DARPA) funded a \$50 million program in 2001 to develop mobile exoskeleton suit for Special Forces. The suit XOS2, will enable soldiers to run faster, carry heavier loads and weapons, and leap over obstacles in battlefield. Norinco, a Chinese state owned ground weapons suppliers is also keenly developing next - generation exoskeleton technology.

In healthcare, the Japanese firm Cyberdene introduced a lower body exoskeleton for enhancing user's strength and mobility. The product, HAL uses sensors attached to the wearer's legs to detect signals sent from the brain, triggering the exoskeleton to move. Researches in Robotic exoskeletons for industrial applications are expected to lead the way in this field. Robotic exoskeletons at workplaces are tipped to have rapid adoption rates in the developed countries because of their ability to help workers carry and perform dangerous tasks with fewer injuries, improve worker safety while enhancing the quality and efficiency of their work. Ford was one of the first manufacturers to employ exoskeletons for workers in their production line. Since its introduction in 2005 until 2016, the numbers of incidents have reduced to an all-time low of 1.33 incidents for 100 full time North American employees.

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Robotic exoskeletons have been available in the market for the past few years, but in terms of innovation the process has been stagnant. Manufacturers are looking for alternative solutions to move forward, for one scientist is developing devices to address one issue at a time rather than building a device for all. The manufacturing and export led economies are expected to drive demand for industrial wearables. Even though, the technology has been commercialized, companies are striving to look out for ways to make their offerings affordable and easy to use.

Robotic Exoskeleton market report is segmented as indicated below:

1. Robotic Exoskeleton Market – By Product Type

1.1. Introduction

1.2. Stationary

1.3. Mobile

2. Robotic Exoskeleton Market – By Power

2.1. Introduction

2.2. Passive

2.3. Powered

3. Robotic Exoskeleton Market - By Body Part

3.1. Introduction

3.2. Full Body

3.3. Upper Body

3.4. Lower Body

4. Robotic Exoskeleton Market – By Application

4.1. Introduction

4.2. Medical

4.3. Military

4.4. Industrial

4.5. Others

5. Robotic Exoskeleton Market – By Market Entropy

6. Robotic Exoskeleton Market – By Geography

Companies Cited/Interviewed/Referenced

Againer

AlterG

Axosuit

B-TEMIA

Bama Teknoloji

Bionic Power

Bionik Laboratories

Bioservo Technologies AB

CYBERDYNE

Daewoo Shipbuilding & Marine Engineering

Daiya Industry Co

Ekso Bionics Holdings

Exhauss

ExoAtlet

Focal Meditech BV

Fourier Interlligence

Gobio Robot

GOGOA Mobility Robots

GoXtudio  
Hocoma  
Company 30+

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A. Industrial Robotics Market

<https://industryarc.com/Report/10629/industrial-robotics-market.html>

B. Warehouse Robotics Market

<https://industryarc.com/Report/1284/Warehouse-Robotics-Market-report.html>

What can you expect from the report?

The Robotic Exoskeleton Market Report is Prepared with the Main Agenda to Cover the following 20 points:

1. Market Size by Product Categories
2. Market trends
3. Manufacturer Landscape
4. Distributor Landscape
5. Pricing Analysis
6. Top 10 End user Analysis
7. Product Benchmarking
8. Product Developments
9. Mergers & Acquisition Analysis
10. Patent Analysis
11. Demand Analysis ( By Revenue & Volume )
12. Country level Analysis (15+)
13. Competitor Analysis
14. Market Shares Analysis
15. Value Chain Analysis
16. Supply Chain Analysis
17. Strategic Analysis
18. Current & Future Market Landscape Analysis
19. Opportunity Analysis
20. Revenue and Volume Analysis

Frequently Asked Questions:

Q. Does IndustryARC publish country, or application based reports in Robotic Exoskeleton Market? Response: Yes, we do have separate reports and database as mentioned below:

1. North America Robotic Exoskeleton Market (2018-2023)
2. South America Robotic Exoskeleton Market (2018-2023)
3. Europe Robotic Exoskeleton Market (2018-2023)
4. Asia Pacific Robotic Exoskeleton Market (2018-2023)
5. Middle East and Africa Robotic Exoskeleton Market (2018-2023)
6. Stationary Robotic Exoskeleton Market (2018-2023)
7. Powered Robotic Exoskeleton Market (2018-2023)
8. Upper Body Robotic Exoskeleton Market (2018-2023)
9. Medical Robotic Exoskeleton Market (2018-2023)

Q. Does IndustryARC provide customized reports and charge additionally for limited customization?

Response: Yes, we can customize the report by extracting data from our database of reports and annual subscription databases. We can provide the following free customization

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2. Increase the number of countries in geography or product chapter.
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4. Company profiles can be requested based on your interest.
5. Patent analysis, pricing, product analysis, product benchmarking, value and supply chain analysis can be requested for a country or end use segment.

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