

# **Asia Pacific Industrial Exoskeletons Market 2022-2032 by Offering (Hardware, Software, Service), Function (Upper Body, Lower Body, Full Body), Mobility (Mobile, Stationary, Tethered), Power (Active/Powered, Passive), Structure (Rigid, Soft), Application (Manufacture, Construction, Transport and Logistics, Others), and Country: Trend Forecast and Growth Opportunity**

<https://marketpublishers.com/r/AE2027F1AFDDEN.html>

Date: July 2023

Pages: 159

Price: US\$ 2,465.00 (Single User License)

ID: AE2027F1AFDDEN

## **Abstracts**

Asia Pacific industrial exoskeletons market will grow by 38.8% annually with a total addressable market cap of \$7.93 billion over 2023-2032, driven by the increasing demand for improved safety and productivity in industrial manufacturing, the rising collaborations among vendors for the technological development, and the emerging innovative products of robotic exoskeletons.

Highlighted with 41 tables and 89 figures, this 159-page report “Asia Pacific Industrial Exoskeletons Market 2022-2032 by Offering (Hardware, Software, Service), Function (Upper Body, Lower Body, Full Body), Mobility (Mobile, Stationary, Tethered), Power (Active/Powered, Passive), Structure (Rigid, Soft), Application (Manufacture, Construction, Transport and Logistics, Others), and Country: Trend Forecast and Growth Opportunity” is based on a comprehensive research of the entire Asia Pacific industrial exoskeletons market and all its sub-segments through extensively detailed classifications. Profound analysis and assessment are generated from premium primary and secondary information sources with inputs derived from industry professionals across the value chain. The report is based on studies on 2020-2022 and provides forecast from 2023 till 2032 with 2022 as the base year. (Please note: The report will be updated before delivery so that the latest historical year is the base year, and the

forecast covers at least 5 years over the base year.)

In-depth qualitative analyses include identification and investigation of the following aspects:

Market Structure

Growth Drivers

Restraints and Challenges

Emerging Product Trends & Market Opportunities

Porter's Fiver Forces

The trend and outlook of Asia Pacific market is forecast in optimistic, balanced, and conservative view by taking into account of COVID-19 and Russia-Ukraine conflict. The balanced (most likely) projection is used to quantify Asia Pacific industrial exoskeletons market in every aspect of the classification from perspectives of Offering, Function, Mobility, Power, Structure, Application, and Country.

Based on Offering, the Asia Pacific market is segmented into the following sub-markets with annual revenue (\$ mn) for 2022-2032 included in each section.

Hardware

Sensors

Actuators

Power Sources

Controllers

Other Hardware

Software

Service

Based on Function, the Asia Pacific market is segmented into the following sub-markets with annual revenue (\$ mn) and volume (units) for 2022-2032 included in each section.

Upper Body Exoskeletons

Lower Body Exoskeletons

Full Body Exoskeletons

By Mobility, the Asia Pacific market is segmented into the following sub-markets with annual revenue (\$ mn) and volume (units) for 2022-2032 included in each section.

Mobile Exoskeletons

Stationary Exoskeletons

Tethered Exoskeletons

By Power, the Asia Pacific market is segmented into the following sub-markets with

annual revenue (\$ mn) and volume (units) for 2022-2032 included in each section.

Active/Powered Exoskeletons

Electric Actuator

Pneumatic Actuator

Hydraulic Actuator

Mechanical Actuator

Other Types

Passive Exoskeletons

By Structure, the Asia Pacific market is segmented into the following sub-markets with annual revenue (\$ mn) and volume (units) for 2022-2032 included in each section.

Rigid Exoskeletons

Soft Exoskeletons

By Application, the Asia Pacific market is segmented into the following sub-markets with annual revenue (\$ mn) and volume (units) for 2022-2032 included in each section.

Manufacture

Construction

Transport and Logistics

Other Industrial Applications

Geographically, the following national/local markets are fully investigated:

Japan

China

South Korea

Australia

India

Rest of APAC (further segmented into Malaysia, Singapore, Indonesia, Thailand, New Zealand, Vietnam, Taiwan, and Philippines)

For each key country, detailed analysis and data for annual revenue (\$ mn) and volume (units) are available for 2022-2032. The breakdown of national markets by Function, Mobility, and Application over the forecast years are also included.

The report also covers the current competitive scenario and the predicted trend; and profiles key vendors including market leaders and important emerging players.

Selected Key Players:

AlterG Inc.

Atoun Inc.

Axosuits SRL

Bionik Laboratories Corp.  
B-Temia Inc.  
Cyberdyne Inc.  
DIH Technologies Corporation  
Ekso Bionics Holdings Inc.  
Gogo Mobility Robots SL  
Hocoma AG  
Honda Motor Co., Ltd.  
Innophys Co., Ltd.  
Japet Medical Devices  
Lockheed Martin Corp.  
Marsi Bionics, S.L.  
Myomo Inc.  
Panasonic Holdings Corp.  
Parker-Hannifin Corp.  
ReWalk Robotics Inc.  
Rex Bionics Ltd.  
US Bionics Inc. (Suitx)  
Wearable Robotics SRL

(Please note: The report will be updated before delivery so that the latest historical year is the base year, and the forecast covers at least 5 years over the base year.)

## Contents

### **1 INTRODUCTION**

- 1.1 Industry Definition and Research Scope
  - 1.1.1 Industry Definition
  - 1.1.2 Research Scope
- 1.2 Research Methodology
  - 1.2.1 Overview of Market Research Methodology
  - 1.2.2 Market Assumption
  - 1.2.3 Secondary Data
  - 1.2.4 Primary Data
  - 1.2.5 Data Filtration and Model Design
  - 1.2.6 Market Size/Share Estimation
  - 1.2.7 Research Limitations
- 1.3 Executive Summary

### **2 MARKET OVERVIEW AND DYNAMICS**

- 2.1 Market Size and Forecast
  - 2.1.1 Impact of COVID-19 on World Economy
  - 2.1.2 Impact of COVID-19 on the Market
  - 2.1.3 Impact of Russia-Ukraine Conflict: War Slows Economic Recovery
- 2.2 Major Growth Drivers
- 2.3 Market Restraints and Challenges
- 2.4 Emerging Opportunities and Market Trends
- 2.5 Porter's Fiver Forces Analysis

### **3 SEGMENTATION OF ASIA PACIFIC MARKET BY OFFERING**

- 3.1 Market Overview by Offering
- 3.2 Hardware
  - 3.2.1 Sensors
  - 3.2.2 Actuators
  - 3.2.3 Power Sources
  - 3.2.4 Controllers
  - 3.2.5 Other Hardware
- 3.3 Software
- 3.4 Services

## **4 SEGMENTATION OF ASIA PACIFIC MARKET BY FUNCTION**

- 4.1 Market Overview by Function
- 4.2 Upper Body Exoskeletons
- 4.3 Lower Body Exoskeletons
- 4.4 Full Body Exoskeletons

## **5 SEGMENTATION OF ASIA PACIFIC MARKET BY MOBILITY**

- 5.1 Market Overview by Mobility
- 5.2 Mobile Exoskeletons
- 5.3 Stationary Exoskeletons
- 5.4 Tethered Exoskeletons

## **6 SEGMENTATION OF ASIA PACIFIC MARKET BY POWER**

- 6.1 Market Overview by Power
- 6.2 Active/Powered Exoskeletons
  - 6.2.1 Electric Actuator
  - 6.2.2 Pneumatic Actuator
  - 6.2.3 Hydraulic Actuator
  - 6.2.4 Mechanical Actuator
  - 6.2.5 Other Types
- 6.3 Passive Exoskeletons

## **7 SEGMENTATION OF ASIA PACIFIC MARKET BY STRUCTURE**

- 7.1 Market Overview by Structure
- 7.2 Rigid Exoskeletons
- 7.3 Soft Exoskeletons

## **8 SEGMENTATION OF ASIA PACIFIC MARKET BY APPLICATION**

- 8.1 Market Overview by Application
- 8.2 Manufacture
- 8.3 Construction
- 8.4 Transport and Logistics
- 8.5 Other Applications

## **9 ASIA-PACIFIC MARKET 2022-2032 BY COUNTRY/REGION**

9.1 Overview of Asia-Pacific Market

9.2 Japan

9.3 China

9.4 Australia

9.5 India

9.6 South Korea

9.7 Rest of APAC Region

## **10 COMPETITIVE LANDSCAPE**

10.1 Overview of Key Vendors

10.2 New Product Launch, Partnership, Investment, and M&A

10.3 Company Profiles

AlterG Inc.

Atoun Inc.

Axosuits SRL

Bionik Laboratories Corp.

B-Temia Inc.

Cyberdyne Inc.

DIH Technologies Corporation

Ekso Bionics Holdings Inc.

Gogoa Mobility Robots SL

Hocomo AG

Honda Motor Co., Ltd.

Innophys Co., Ltd.

Japet Medical Devices

Lockheed Martin Corp.

Marsi Bionics, S.L.

Myomo Inc.

Panasonic Holdings Corp.

Parker-Hannifin Corp.

ReWalk Robotics Inc.

Rex Bionics Ltd.

US Bionics Inc. (Suitx)

Wearable Robotics SRL

RELATED REPORTS





## List Of Tables

### LIST OF TABLES:

Table 1. Snapshot of Asia Pacific Industrial Exoskeletons Market in Balanced Perspective, 2022-2032

Table 2. World Economic Outlook, 2021-2031

Table 3. World Economic Outlook, 2021-2023

Table 4. Scenarios for Economic Impact of Ukraine Crisis

Table 5. Main Product Trends and Market Opportunities in Asia Pacific Industrial Exoskeletons Market

Table 6. Asia Pacific Industrial Exoskeletons Market by Offering, 2022-2032, \$ mn

Table 7. Asia Pacific Industrial Exoskeletons Market: Hardware by Type, 2022-2032, \$ mn

Table 8. Asia Pacific Industrial Exoskeletons Market by Function, 2022-2032, \$ mn

Table 9. Asia Pacific Industrial Exoskeletons Market by Function, 2022-2032, units

Table 10. Asia Pacific Industrial Exoskeletons Market by Mobility, 2022-2032, \$ mn

Table 11. Asia Pacific Industrial Exoskeletons Market by Mobility, 2022-2032, units

Table 12. Asia Pacific Industrial Exoskeletons Market by Power, 2022-2032, \$ mn

Table 13. Asia Pacific Industrial Exoskeletons Market by Power, 2022-2032, units

Table 14. Asia Pacific Industrial Exoskeletons Market: Active/Powered Exoskeletons by Type, 2022-2032, \$ mn

Table 15. Asia Pacific Industrial Exoskeletons Market by Structure, 2022-2032, \$ mn

Table 16. Asia Pacific Industrial Exoskeletons Market by Structure, 2022-2032, units

Table 17. Asia Pacific Industrial Exoskeletons Market by Application, 2022-2032, \$ mn

Table 18. Asia Pacific Industrial Exoskeletons Market by Application, 2022-2032, units

Table 19. APAC Industrial Exoskeletons Market by Country/Region, 2022-2032, \$ mn

Table 20. APAC Industrial Exoskeletons Market by Country/Region, 2022-2032, units

Table 21. Japan Industrial Exoskeletons Market by Function, 2022-2032, \$ mn

Table 22. Japan Industrial Exoskeletons Market by Mobility, 2022-2032, \$ mn

Table 23. Japan Industrial Exoskeletons Market by Application, 2022-2032, \$ mn

Table 24. China Industrial Exoskeletons Market by Function, 2022-2032, \$ mn

Table 25. China Industrial Exoskeletons Market by Mobility, 2022-2032, \$ mn

Table 26. China Industrial Exoskeletons Market by Application, 2022-2032, \$ mn

Table 27. Australia Industrial Exoskeletons Market by Function, 2022-2032, \$ mn

Table 28. Australia Industrial Exoskeletons Market by Mobility, 2022-2032, \$ mn

Table 29. Australia Industrial Exoskeletons Market by Application, 2022-2032, \$ mn

Table 30. India Industrial Exoskeletons Market by Function, 2022-2032, \$ mn

Table 31. India Industrial Exoskeletons Market by Mobility, 2022-2032, \$ mn

- Table 32. India Industrial Exoskeletons Market by Application, 2022-2032, \$ mn
- Table 33. South Korea Industrial Exoskeletons Market by Function, 2022-2032, \$ mn
- Table 34. South Korea Industrial Exoskeletons Market by Mobility, 2022-2032, \$ mn
- Table 35. South Korea Industrial Exoskeletons Market by Application, 2022-2032, \$ mn
- Table 36. Industrial Exoskeletons Market in Rest of APAC by Country/Region, 2022-2032, \$ mn
- Table 37. Main Vendors and Product Offerings
- Table 38. Recent Development and Activities
- Table 39. AlterG Inc.: Company Snapshot
- Table 40. AlterG Inc.: Business Segmentation
- Table 41. AlterG Inc.: Product Portfolio

## List Of Figures

### LIST OF FIGURES:

- Figure 1. Exemplary Pictures of Industrial Exoskeletons
- Figure 2. Research Method Flow Chart
- Figure 3. Bottom-up Approach and Top-down Approach for Market Estimation
- Figure 4. Asia Pacific Market Forecast in Optimistic, Conservative and Balanced Perspectives, 2022-2032
- Figure 5. Industry Value Chain Analysis
- Figure 6. Asia Pacific Industrial Exoskeletons Market by Revenue, 2022-2032, \$ mn
- Figure 7. Asia Pacific Industrial Exoskeletons Market by Shipment, 2022-2032, units
- Figure 8. Asia Pacific ASP of Industrial Exoskeletons, 2022-2032, thousand USD/unit
- Figure 9. Impact of COVID-19 on Business
- Figure 10. Primary Drivers and Impact Factors of Asia Pacific Industrial Exoskeletons Market
- Figure 11. World Smart Factory Market, 2019-2026, \$ mn
- Figure 12. World Construction Industry, 2019-2030, \$ trillion
- Figure 13. Primary Restraints and Impact Factors of Asia Pacific Industrial Exoskeletons Market
- Figure 14. Investment Opportunity Analysis
- Figure 15. Porter's Five Forces Analysis of Asia Pacific Industrial Exoskeletons Market
- Figure 16. Breakdown of Asia Pacific Industrial Exoskeletons Market by Offering, 2022-2032, % of Revenue
- Figure 17. Asia Pacific Addressable Market Cap in 2023-2032 by Offering, Value (\$ mn) and Share (%)
- Figure 18. Asia Pacific Industrial Exoskeletons Market by Offering: Hardware, 2022-2032, \$ mn
- Figure 19. Asia Pacific Industrial Exoskeletons Market by Hardware: Sensors, 2022-2032, \$ mn
- Figure 20. Asia Pacific Industrial Exoskeletons Market by Hardware: Actuators, 2022-2032, \$ mn
- Figure 21. Asia Pacific Industrial Exoskeletons Market by Hardware: Power Sources, 2022-2032, \$ mn
- Figure 22. Asia Pacific Industrial Exoskeletons Market by Hardware: Controllers, 2022-2032, \$ mn
- Figure 23. Asia Pacific Industrial Exoskeletons Market by Hardware: Other Hardware, 2022-2032, \$ mn
- Figure 24. Asia Pacific Industrial Exoskeletons Market by Offering: Software,

2022-2032, \$ mn

Figure 25. Asia Pacific Industrial Exoskeletons Market by Offering: Services, 2022-2032, \$ mn

Figure 26. Breakdown of Asia Pacific Industrial Exoskeletons Market by Function, 2022-2032, % of Sales Revenue

Figure 27. Asia Pacific Addressable Market Cap in 2023-2032 by Function, Value (\$ mn) and Share (%)

Figure 28. Breakdown of Asia Pacific Industrial Exoskeletons Market by Function, 2022-2032, % of Shipment

Figure 29. Asia Pacific Addressable Market Cap in 2023-2032 by Function, Shipment (units) and Share (%)

Figure 30. Asia Pacific Industrial Exoskeletons Market by Function: Upper Body Exoskeletons, 2022-2032, \$ mn

Figure 31. Asia Pacific Industrial Exoskeletons Market by Function: Upper Body Exoskeletons, 2022-2032, units

Figure 32. Asia Pacific Industrial Exoskeletons Market by Function: Lower Body Exoskeletons, 2022-2032, \$ mn

Figure 33. Asia Pacific Industrial Exoskeletons Market by Function: Lower Body Exoskeletons, 2022-2032, units

Figure 34. Asia Pacific Industrial Exoskeletons Market by Function: Full Body Exoskeletons, 2022-2032, \$ mn

Figure 35. Asia Pacific Industrial Exoskeletons Market by Function: Full Body Exoskeletons, 2022-2032, units

Figure 36. Breakdown of Asia Pacific Industrial Exoskeletons Market by Mobility, 2022-2032, % of Sales Revenue

Figure 37. Asia Pacific Addressable Market Cap in 2023-2032 by Mobility, Value (\$ mn) and Share (%)

Figure 38. Breakdown of Asia Pacific Industrial Exoskeletons Market by Mobility, 2022-2032, % of Shipment

Figure 39. Asia Pacific Addressable Market Cap in 2023-2032 by Mobility, Shipment (units) and Share (%)

Figure 40. Asia Pacific Industrial Exoskeletons Market by Mobility: Mobile Exoskeletons, 2022-2032, \$ mn

Figure 41. Asia Pacific Industrial Exoskeletons Market by Mobility: Mobile Exoskeletons, 2022-2032, units

Figure 42. Asia Pacific Industrial Exoskeletons Market by Mobility: Stationary Exoskeletons, 2022-2032, \$ mn

Figure 43. Asia Pacific Industrial Exoskeletons Market by Mobility: Stationary Exoskeletons, 2022-2032, units

- Figure 44. Asia Pacific Industrial Exoskeletons Market by Mobility: Tethered Exoskeletons, 2022-2032, \$ mn
- Figure 45. Asia Pacific Industrial Exoskeletons Market by Mobility: Tethered Exoskeletons, 2022-2032, units
- Figure 46. Breakdown of Asia Pacific Industrial Exoskeletons Market by Power, 2022-2032, % of Revenue
- Figure 47. Asia Pacific Addressable Market Cap in 2023-2032 by Power, Value (\$ mn) and Share (%)
- Figure 48. Breakdown of Asia Pacific Industrial Exoskeletons Market by Power, 2022-2032, % of Shipment
- Figure 49. Asia Pacific Addressable Market Cap in 2023-2032 by Power, Shipment (units) and Share (%)
- Figure 50. Asia Pacific Industrial Exoskeletons Market by Power: Active/Powered Exoskeletons, 2022-2032, \$ mn
- Figure 51. Asia Pacific Industrial Exoskeletons Market by Power: Active/Powered Exoskeletons, 2022-2032, units
- Figure 52. Asia Pacific Industrial Exoskeletons Market by Active/Powered Exoskeletons: Electric Actuator, 2022-2032, \$ mn
- Figure 53. Asia Pacific Industrial Exoskeletons Market by Active/Powered Exoskeletons: Pneumatic Actuator, 2022-2032, \$ mn
- Figure 54. Asia Pacific Industrial Exoskeletons Market by Active/Powered Exoskeletons: Hydraulic Actuator, 2022-2032, \$ mn
- Figure 55. Asia Pacific Industrial Exoskeletons Market by Active/Powered Exoskeletons: Mechanical Actuator, 2022-2032, \$ mn
- Figure 56. Asia Pacific Industrial Exoskeletons Market by Active/Powered Exoskeletons: Other Types, 2022-2032, \$ mn
- Figure 57. Asia Pacific Industrial Exoskeletons Market by Power: Passive Exoskeletons, 2022-2032, \$ mn
- Figure 58. Asia Pacific Industrial Exoskeletons Market by Power: Passive Exoskeletons, 2022-2032, units
- Figure 59. Breakdown of Asia Pacific Industrial Exoskeletons Market by Structure, 2022-2032, % of Revenue
- Figure 60. Asia Pacific Addressable Market Cap in 2023-2032 by Structure, Value (\$ mn) and Share (%)
- Figure 61. Breakdown of Asia Pacific Industrial Exoskeletons Market by Structure, 2022-2032, % of Shipment
- Figure 62. Asia Pacific Addressable Market Cap in 2023-2032 by Structure, Shipment (units) and Share (%)
- Figure 63. Asia Pacific Industrial Exoskeletons Market by Structure: Rigid Exoskeletons,

2022-2032, \$ mn

Figure 64. Asia Pacific Industrial Exoskeletons Market by Structure: Rigid Exoskeletons, 2022-2032, units

Figure 65. Asia Pacific Industrial Exoskeletons Market by Structure: Soft Exoskeletons, 2022-2032, \$ mn

Figure 66. Asia Pacific Industrial Exoskeletons Market by Structure: Soft Exoskeletons, 2022-2032, units

Figure 67. Breakdown of Asia Pacific Industrial Exoskeletons Market by Application, 2022-2032, % of Sales Revenue

Figure 68. Asia Pacific Addressable Market Cap in 2023-2032 by Application, Value (\$ mn) and Share (%)

Figure 69. Breakdown of Asia Pacific Industrial Exoskeletons Market by Application, 2022-2032, % of Shipment

Figure 70. Asia Pacific Addressable Market Cap in 2023-2032 by Application, Shipment (units) and Share (%)

Figure 71. Asia Pacific Industrial Exoskeletons Market by Application: Manufacture, 2022-2032, \$ mn

Figure 72. Asia Pacific Industrial Exoskeletons Market by Application: Manufacture, 2022-2032, units

Figure 73. Asia Pacific Industrial Exoskeletons Market by Application: Construction, 2022-2032, \$ mn

Figure 74. Asia Pacific Industrial Exoskeletons Market by Application: Construction, 2022-2032, units

Figure 75. Asia Pacific Industrial Exoskeletons Market by Application: Transport and Logistics, 2022-2032, \$ mn

Figure 76. Asia Pacific Industrial Exoskeletons Market by Application: Transport and Logistics, 2022-2032, units

Figure 77. Asia Pacific Industrial Exoskeletons Market by Application: Other Applications, 2022-2032, \$ mn

Figure 78. Asia Pacific Industrial Exoskeletons Market by Application: Other Applications, 2022-2032, units

Figure 79. Breakdown of APAC Industrial Exoskeletons Market by Country/Region, 2022 and 2032, % of Revenue

Figure 80. Contribution to APAC 2023-2032 Cumulative Market by Country, Value (\$ mn) and Share (%)

Figure 81. Breakdown of APAC Industrial Exoskeletons Market by Country/Region, 2022 and 2032, % of Shipment

Figure 82. Contribution to APAC 2023-2032 Cumulative Market by Country, Shipment (units) and Share (%)

Figure 83. Industrial Exoskeletons Market in Japan, 2022-2032, \$ mn

Figure 84. Industrial Exoskeletons Market in China, 2022-2032, \$ mn

Figure 85. Industrial Exoskeletons Market in Australia, 2022-2032, \$ mn

Figure 86. Industrial Exoskeletons Market in India, 2022-2032, \$ mn

Figure 87. Industrial Exoskeletons Market in South Korea, 2022-2032, \$ mn

Figure 88. Industrial Exoskeletons Market in Rest of APAC, 2022-2032, \$ mn

Figure 89. Growth Stage of Asia Pacific Industrial Exoskeletons Industry over the Forecast Period

## I would like to order

Product name: Asia Pacific Industrial Exoskeletons Market 2022-2032 by Offering (Hardware, Software, Service), Function (Upper Body, Lower Body, Full Body), Mobility (Mobile, Stationary, Tethered), Power (Active/Powered, Passive), Structure (Rigid, Soft), Application (Manufacture, Construction, Transport and Logistics, Others), and Country: Trend Forecast and Growth Opportunity

Product link: <https://marketpublishers.com/r/AE2027F1AFDDEN.html>

Price: US\$ 2,465.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/AE2027F1AFDDEN.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