

# Global Humanoid Robot Battery Pack Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Humanoid Robot Battery Pack market size is expected to reach \$ 742 million by 2032, rising at a market growth of 66.7% CAGR during the forecast period (2026-2032).

A Humanoid Robot Battery Pack is a specialized energy storage unit designed to power the complex electrical and mechanical systems of humanoid robots. It must deliver reliable, high-density energy with safety, long cycle life, and the ability to handle high current demands for motors, sensors, and onboard electronics. In 2025, global Humanoid Robot Battery Pack production reached approximately 14 k units with an average global market price of around US\$ 1096 per unit. The production capacity for Humanoid Robot Battery Pack in 2025 was approximately 15 k units. The typical gross profit margin for Humanoid Robot Battery Pack is between 20% and 30%.

The upstream of humanoid robot battery packs mainly includes cell manufacturers (such as 18650, 21700 cylindrical cells, prismatic and pouch cells), battery management system (BMS) chip suppliers, and module design and structural component providers. The downstream covers humanoid robot integrators, educational and research institutions, as well as industrial automation and service robot applications. Advances in upstream technology and cell energy density directly affect module performance, while downstream demands for runtime, power, and safety determine module design standards.

The humanoid robot battery packs market is rapidly growing alongside increasing demand for service robots, industrial robots, and humanoid robots. The market is driven by high-energy-density lithium-ion cells, modular designs, and intelligent battery management systems, with rising requirements for safety, runtime, and lightweight solutions. North America, Europe, and Asia are the key market regions, with education, research, and industrial applications as major segments. With advancements in cell technology and broader adoption of robots, the market is expected to continue

expanding.

This report studies the global Humanoid Robot Battery Pack production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Humanoid Robot Battery Pack and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Humanoid Robot Battery Pack that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Humanoid Robot Battery Pack total production and demand, 2021-2032, (K Units)

Global Humanoid Robot Battery Pack total production value, 2021-2032, (USD Million)

Global Humanoid Robot Battery Pack production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Humanoid Robot Battery Pack consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Humanoid Robot Battery Pack domestic production, consumption, key domestic manufacturers and share

Global Humanoid Robot Battery Pack production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Humanoid Robot Battery Pack production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Humanoid Robot Battery Pack production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Humanoid Robot Battery Pack market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include LG, Samsung SDI, Panasonic, Saft Batteries, Jiangsu Blue Lithium Battery Group, EVE Energy, CATL, Lishen BATTERY, Sichuan Changhong Power Supply, Sunwoda Electronic, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Humanoid Robot Battery Pack market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the

forecast year.

Global Humanoid Robot Battery Pack Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Humanoid Robot Battery Pack Market, Segmentation by Type:

Cylindrical Battery Cells

Soft-pack Battery Cells

Square Battery Cells

Global Humanoid Robot Battery Pack Market, Segmentation by Electrolyte Type:

Liquid Lithium Batteries

Solid-state Batteries

Global Humanoid Robot Battery Pack Market, Segmentation by Cell Type:

18650 Cells

21700 Cells

Others

#### Global Humanoid Robot Battery Pack Market, Segmentation by Application:

Service Humanoid Robots

Industrial Humanoid Robots

Others

#### **Companies Profiled:**

LG

Samsung SDI

Panasonic

Saft Batteries

Jiangsu Blue Lithium Battery Group

EVE Energy

CATL

Lishen BATTERY

Sichuan Changhong Power Supply

Sunwoda Electronic

Farasis Energy

## Shen ZHEN Grepow BATTERY

### **Key Questions Answered:**

1. How big is the global Humanoid Robot Battery Pack market?
2. What is the demand of the global Humanoid Robot Battery Pack market?
3. What is the year over year growth of the global Humanoid Robot Battery Pack market?
4. What is the production and production value of the global Humanoid Robot Battery Pack market?
5. Who are the key producers in the global Humanoid Robot Battery Pack market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Humanoid Robot Battery Pack Introduction
- 1.2 World Humanoid Robot Battery Pack Supply & Forecast
  - 1.2.1 World Humanoid Robot Battery Pack Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Humanoid Robot Battery Pack Production (2021-2032)
  - 1.2.3 World Humanoid Robot Battery Pack Pricing Trends (2021-2032)
- 1.3 World Humanoid Robot Battery Pack Production by Region (Based on Production Site)
  - 1.3.1 World Humanoid Robot Battery Pack Production Value by Region (2021-2032)
  - 1.3.2 World Humanoid Robot Battery Pack Production by Region (2021-2032)
  - 1.3.3 World Humanoid Robot Battery Pack Average Price by Region (2021-2032)
  - 1.3.4 North America Humanoid Robot Battery Pack Production (2021-2032)
  - 1.3.5 Europe Humanoid Robot Battery Pack Production (2021-2032)
  - 1.3.6 China Humanoid Robot Battery Pack Production (2021-2032)
  - 1.3.7 Japan Humanoid Robot Battery Pack Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Humanoid Robot Battery Pack Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Humanoid Robot Battery Pack Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Humanoid Robot Battery Pack Demand (2021-2032)
- 2.2 World Humanoid Robot Battery Pack Consumption by Region
  - 2.2.1 World Humanoid Robot Battery Pack Consumption by Region (2021-2026)
  - 2.2.2 World Humanoid Robot Battery Pack Consumption Forecast by Region (2027-2032)
- 2.3 United States Humanoid Robot Battery Pack Consumption (2021-2032)
- 2.4 China Humanoid Robot Battery Pack Consumption (2021-2032)
- 2.5 Europe Humanoid Robot Battery Pack Consumption (2021-2032)
- 2.6 Japan Humanoid Robot Battery Pack Consumption (2021-2032)
- 2.7 South Korea Humanoid Robot Battery Pack Consumption (2021-2032)
- 2.8 ASEAN Humanoid Robot Battery Pack Consumption (2021-2032)
- 2.9 India Humanoid Robot Battery Pack Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Humanoid Robot Battery Pack Production Value by Manufacturer (2021-2026)
- 3.2 World Humanoid Robot Battery Pack Production by Manufacturer (2021-2026)
- 3.3 World Humanoid Robot Battery Pack Average Price by Manufacturer (2021-2026)
- 3.4 Humanoid Robot Battery Pack Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Humanoid Robot Battery Pack Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Humanoid Robot Battery Pack in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Humanoid Robot Battery Pack in 2025
- 3.6 Humanoid Robot Battery Pack Market: Overall Company Footprint Analysis
  - 3.6.1 Humanoid Robot Battery Pack Market: Region Footprint
  - 3.6.2 Humanoid Robot Battery Pack Market: Company Product Type Footprint
  - 3.6.3 Humanoid Robot Battery Pack Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Humanoid Robot Battery Pack Production Value Comparison
  - 4.1.1 United States VS China: Humanoid Robot Battery Pack Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Humanoid Robot Battery Pack Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Humanoid Robot Battery Pack Production Comparison
  - 4.2.1 United States VS China: Humanoid Robot Battery Pack Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Humanoid Robot Battery Pack Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Humanoid Robot Battery Pack Consumption Comparison
  - 4.3.1 United States VS China: Humanoid Robot Battery Pack Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Humanoid Robot Battery Pack Consumption Market Share Comparison (2021 & 2025 & 2032)

#### 4.4 United States Based Humanoid Robot Battery Pack Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Humanoid Robot Battery Pack Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Humanoid Robot Battery Pack Production Value (2021-2026)

4.4.3 United States Based Manufacturers Humanoid Robot Battery Pack Production (2021-2026)

#### 4.5 China Based Humanoid Robot Battery Pack Manufacturers and Market Share

4.5.1 China Based Humanoid Robot Battery Pack Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Humanoid Robot Battery Pack Production Value (2021-2026)

4.5.3 China Based Manufacturers Humanoid Robot Battery Pack Production (2021-2026)

#### 4.6 Rest of World Based Humanoid Robot Battery Pack Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Humanoid Robot Battery Pack Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Humanoid Robot Battery Pack Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Humanoid Robot Battery Pack Production (2021-2026)

### **5 MARKET ANALYSIS BY TYPE**

#### 5.1 World Humanoid Robot Battery Pack Market Size Overview by Type: 2021 VS 2025 VS 2032

#### 5.2 Segment Introduction by Type

5.2.1 Cylindrical Battery Cells

5.2.2 Soft-pack Battery Cells

5.2.3 Square Battery Cells

#### 5.3 Market Segment by Type

5.3.1 World Humanoid Robot Battery Pack Production by Type (2021-2032)

5.3.2 World Humanoid Robot Battery Pack Production Value by Type (2021-2032)

5.3.3 World Humanoid Robot Battery Pack Average Price by Type (2021-2032)

### **6 MARKET ANALYSIS BY ELECTROLYTE TYPE**

6.1 World Humanoid Robot Battery Pack Market Size Overview by Electrolyte Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Electrolyte Type

6.2.1 Liquid Lithium Batteries

6.2.2 Solid-state Batteries

6.3 Market Segment by Electrolyte Type

6.3.1 World Humanoid Robot Battery Pack Production by Electrolyte Type (2021-2032)

6.3.2 World Humanoid Robot Battery Pack Production Value by Electrolyte Type (2021-2032)

6.3.3 World Humanoid Robot Battery Pack Average Price by Electrolyte Type (2021-2032)

## **7 MARKET ANALYSIS BY CELL TYPE**

7.1 World Humanoid Robot Battery Pack Market Size Overview by Cell Type: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Cell Type

7.2.1 18650 Cells

7.2.2 21700 Cells

7.2.3 Others

7.3 Market Segment by Cell Type

7.3.1 World Humanoid Robot Battery Pack Production by Cell Type (2021-2032)

7.3.2 World Humanoid Robot Battery Pack Production Value by Cell Type (2021-2032)

7.3.3 World Humanoid Robot Battery Pack Average Price by Cell Type (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Humanoid Robot Battery Pack Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Service Humanoid Robots

8.2.2 Industrial Humanoid Robots

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Humanoid Robot Battery Pack Production by Application (2021-2032)

8.3.2 World Humanoid Robot Battery Pack Production Value by Application (2021-2032)

8.3.3 World Humanoid Robot Battery Pack Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

### 9.1 LG

9.1.1 LG Details

9.1.2 LG Major Business

9.1.3 LG Humanoid Robot Battery Pack Product and Services

9.1.4 LG Humanoid Robot Battery Pack Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 LG Recent Developments/Updates

9.1.6 LG Competitive Strengths & Weaknesses

### 9.2 Samsung SDI

9.2.1 Samsung SDI Details

9.2.2 Samsung SDI Major Business

9.2.3 Samsung SDI Humanoid Robot Battery Pack Product and Services

9.2.4 Samsung SDI Humanoid Robot Battery Pack Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Samsung SDI Recent Developments/Updates

9.2.6 Samsung SDI Competitive Strengths & Weaknesses

### 9.3 Panasonic

9.3.1 Panasonic Details

9.3.2 Panasonic Major Business

9.3.3 Panasonic Humanoid Robot Battery Pack Product and Services

9.3.4 Panasonic Humanoid Robot Battery Pack Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Panasonic Recent Developments/Updates

9.3.6 Panasonic Competitive Strengths & Weaknesses

### 9.4 Saft Batteries

9.4.1 Saft Batteries Details

9.4.2 Saft Batteries Major Business

9.4.3 Saft Batteries Humanoid Robot Battery Pack Product and Services

9.4.4 Saft Batteries Humanoid Robot Battery Pack Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Saft Batteries Recent Developments/Updates

9.4.6 Saft Batteries Competitive Strengths & Weaknesses

### 9.5 Jiangsu Blue Lithium Battery Group

9.5.1 Jiangsu Blue Lithium Battery Group Details

9.5.2 Jiangsu Blue Lithium Battery Group Major Business

9.5.3 Jiangsu Blue Lithium Battery Group Humanoid Robot Battery Pack Product and Services

- 9.5.4 Jiangsu Blue Lithium Battery Group Humanoid Robot Battery Pack Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 Jiangsu Blue Lithium Battery Group Recent Developments/Updates
- 9.5.6 Jiangsu Blue Lithium Battery Group Competitive Strengths & Weaknesses
- 9.6 EVE Energy
  - 9.6.1 EVE Energy Details
  - 9.6.2 EVE Energy Major Business
  - 9.6.3 EVE Energy Humanoid Robot Battery Pack Product and Services
  - 9.6.4 EVE Energy Humanoid Robot Battery Pack Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 EVE Energy Recent Developments/Updates
  - 9.6.6 EVE Energy Competitive Strengths & Weaknesses
- 9.7 CATL
  - 9.7.1 CATL Details
  - 9.7.2 CATL Major Business
  - 9.7.3 CATL Humanoid Robot Battery Pack Product and Services
  - 9.7.4 CATL Humanoid Robot Battery Pack Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 CATL Recent Developments/Updates
  - 9.7.6 CATL Competitive Strengths & Weaknesses
- 9.8 Lishen BATTERY
  - 9.8.1 Lishen BATTERY Details
  - 9.8.2 Lishen BATTERY Major Business
  - 9.8.3 Lishen BATTERY Humanoid Robot Battery Pack Product and Services
  - 9.8.4 Lishen BATTERY Humanoid Robot Battery Pack Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Lishen BATTERY Recent Developments/Updates
  - 9.8.6 Lishen BATTERY Competitive Strengths & Weaknesses
- 9.9 Sichuan Changhong Power Supply
  - 9.9.1 Sichuan Changhong Power Supply Details
  - 9.9.2 Sichuan Changhong Power Supply Major Business
  - 9.9.3 Sichuan Changhong Power Supply Humanoid Robot Battery Pack Product and Services
  - 9.9.4 Sichuan Changhong Power Supply Humanoid Robot Battery Pack Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Sichuan Changhong Power Supply Recent Developments/Updates
  - 9.9.6 Sichuan Changhong Power Supply Competitive Strengths & Weaknesses
- 9.10 Sunwoda Electronic
  - 9.10.1 Sunwoda Electronic Details

- 9.10.2 Sunwoda Electronic Major Business
- 9.10.3 Sunwoda Electronic Humanoid Robot Battery Pack Product and Services
- 9.10.4 Sunwoda Electronic Humanoid Robot Battery Pack Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 Sunwoda Electronic Recent Developments/Updates
- 9.10.6 Sunwoda Electronic Competitive Strengths & Weaknesses
- 9.11 Farasis Energy
  - 9.11.1 Farasis Energy Details
  - 9.11.2 Farasis Energy Major Business
  - 9.11.3 Farasis Energy Humanoid Robot Battery Pack Product and Services
  - 9.11.4 Farasis Energy Humanoid Robot Battery Pack Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Farasis Energy Recent Developments/Updates
  - 9.11.6 Farasis Energy Competitive Strengths & Weaknesses
- 9.12 Shen ZHEN Grepow BATTERY
  - 9.12.1 Shen ZHEN Grepow BATTERY Details
  - 9.12.2 Shen ZHEN Grepow BATTERY Major Business
  - 9.12.3 Shen ZHEN Grepow BATTERY Humanoid Robot Battery Pack Product and Services
  - 9.12.4 Shen ZHEN Grepow BATTERY Humanoid Robot Battery Pack Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Shen ZHEN Grepow BATTERY Recent Developments/Updates
  - 9.12.6 Shen ZHEN Grepow BATTERY Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Humanoid Robot Battery Pack Industry Chain
- 10.2 Humanoid Robot Battery Pack Upstream Analysis
  - 10.2.1 Humanoid Robot Battery Pack Core Raw Materials
  - 10.2.2 Main Manufacturers of Humanoid Robot Battery Pack Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Humanoid Robot Battery Pack Production Mode
- 10.6 Humanoid Robot Battery Pack Procurement Model
- 10.7 Humanoid Robot Battery Pack Industry Sales Model and Sales Channels
  - 10.7.1 Humanoid Robot Battery Pack Sales Model
  - 10.7.2 Humanoid Robot Battery Pack Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. World Humanoid Robot Battery Pack Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Humanoid Robot Battery Pack Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Humanoid Robot Battery Pack Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Humanoid Robot Battery Pack Production Value Market Share by Region (2021-2026)
- Table 5. World Humanoid Robot Battery Pack Production Value Market Share by Region (2027-2032)
- Table 6. World Humanoid Robot Battery Pack Production by Region (2021-2026) & (K Units)
- Table 7. World Humanoid Robot Battery Pack Production by Region (2027-2032) & (K Units)
- Table 8. World Humanoid Robot Battery Pack Production Market Share by Region (2021-2026)
- Table 9. World Humanoid Robot Battery Pack Production Market Share by Region (2027-2032)
- Table 10. World Humanoid Robot Battery Pack Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Humanoid Robot Battery Pack Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Humanoid Robot Battery Pack Major Market Trends
- Table 13. World Humanoid Robot Battery Pack Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Humanoid Robot Battery Pack Consumption by Region (2021-2026) & (K Units)
- Table 15. World Humanoid Robot Battery Pack Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Humanoid Robot Battery Pack Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Humanoid Robot Battery Pack Producers in 2025
- Table 18. World Humanoid Robot Battery Pack Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Humanoid Robot Battery Pack Producers in 2025

Table 20. World Humanoid Robot Battery Pack Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Humanoid Robot Battery Pack Company Evaluation Quadrant

Table 22. World Humanoid Robot Battery Pack Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Humanoid Robot Battery Pack Production Site of Key Manufacturer

Table 24. Humanoid Robot Battery Pack Market: Company Product Type Footprint

Table 25. Humanoid Robot Battery Pack Market: Company Product Application Footprint

Table 26. Humanoid Robot Battery Pack Competitive Factors

Table 27. Humanoid Robot Battery Pack New Entrant and Capacity Expansion Plans

Table 28. Humanoid Robot Battery Pack Mergers & Acquisitions Activity

Table 29. United States VS China Humanoid Robot Battery Pack Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Humanoid Robot Battery Pack Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Humanoid Robot Battery Pack Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Humanoid Robot Battery Pack Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Humanoid Robot Battery Pack Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Humanoid Robot Battery Pack Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Humanoid Robot Battery Pack Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Humanoid Robot Battery Pack Production Market Share (2021-2026)

Table 37. China Based Humanoid Robot Battery Pack Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Humanoid Robot Battery Pack Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Humanoid Robot Battery Pack Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Humanoid Robot Battery Pack Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Humanoid Robot Battery Pack Production Market Share (2021-2026)

Table 42. Rest of World Based Humanoid Robot Battery Pack Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Humanoid Robot Battery Pack Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Humanoid Robot Battery Pack Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Humanoid Robot Battery Pack Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Humanoid Robot Battery Pack Production Market Share (2021-2026)

Table 47. World Humanoid Robot Battery Pack Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Humanoid Robot Battery Pack Production by Type (2021-2026) & (K Units)

Table 49. World Humanoid Robot Battery Pack Production by Type (2027-2032) & (K Units)

Table 50. World Humanoid Robot Battery Pack Production Value by Type (2021-2026) & (USD Million)

Table 51. World Humanoid Robot Battery Pack Production Value by Type (2027-2032) & (USD Million)

Table 52. World Humanoid Robot Battery Pack Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Humanoid Robot Battery Pack Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Humanoid Robot Battery Pack Production Value by Electrolyte Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Humanoid Robot Battery Pack Production by Electrolyte Type (2021-2026) & (K Units)

Table 56. World Humanoid Robot Battery Pack Production by Electrolyte Type (2027-2032) & (K Units)

Table 57. World Humanoid Robot Battery Pack Production Value by Electrolyte Type (2021-2026) & (USD Million)

Table 58. World Humanoid Robot Battery Pack Production Value by Electrolyte Type (2027-2032) & (USD Million)

Table 59. World Humanoid Robot Battery Pack Average Price by Electrolyte Type (2021-2026) & (US\$/Unit)

Table 60. World Humanoid Robot Battery Pack Average Price by Electrolyte Type

(2027-2032) & (US\$/Unit)

Table 61. World Humanoid Robot Battery Pack Production Value by Cell Type, (USD Million), 2021 & 2025 & 2032

Table 62. World Humanoid Robot Battery Pack Production by Cell Type (2021-2026) & (K Units)

Table 63. World Humanoid Robot Battery Pack Production by Cell Type (2027-2032) & (K Units)

Table 64. World Humanoid Robot Battery Pack Production Value by Cell Type (2021-2026) & (USD Million)

Table 65. World Humanoid Robot Battery Pack Production Value by Cell Type (2027-2032) & (USD Million)

Table 66. World Humanoid Robot Battery Pack Average Price by Cell Type (2021-2026) & (US\$/Unit)

Table 67. World Humanoid Robot Battery Pack Average Price by Cell Type (2027-2032) & (US\$/Unit)

Table 68. World Humanoid Robot Battery Pack Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Humanoid Robot Battery Pack Production by Application (2021-2026) & (K Units)

Table 70. World Humanoid Robot Battery Pack Production by Application (2027-2032) & (K Units)

Table 71. World Humanoid Robot Battery Pack Production Value by Application (2021-2026) & (USD Million)

Table 72. World Humanoid Robot Battery Pack Production Value by Application (2027-2032) & (USD Million)

Table 73. World Humanoid Robot Battery Pack Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Humanoid Robot Battery Pack Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. LG Basic Information, Manufacturing Base and Competitors

Table 76. LG Major Business

Table 77. LG Humanoid Robot Battery Pack Product and Services

Table 78. LG Humanoid Robot Battery Pack Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. LG Recent Developments/Updates

Table 80. LG Competitive Strengths & Weaknesses

Table 81. Samsung SDI Basic Information, Manufacturing Base and Competitors

Table 82. Samsung SDI Major Business

Table 83. Samsung SDI Humanoid Robot Battery Pack Product and Services

Table 84. Samsung SDI Humanoid Robot Battery Pack Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Samsung SDI Recent Developments/Updates

Table 86. Samsung SDI Competitive Strengths & Weaknesses

Table 87. Panasonic Basic Information, Manufacturing Base and Competitors

Table 88. Panasonic Major Business

Table 89. Panasonic Humanoid Robot Battery Pack Product and Services

Table 90. Panasonic Humanoid Robot Battery Pack Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Panasonic Recent Developments/Updates

Table 92. Panasonic Competitive Strengths & Weaknesses

Table 93. Saft Batteries Basic Information, Manufacturing Base and Competitors

Table 94. Saft Batteries Major Business

Table 95. Saft Batteries Humanoid Robot Battery Pack Product and Services

Table 96. Saft Batteries Humanoid Robot Battery Pack Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Saft Batteries Recent Developments/Updates

Table 98. Saft Batteries Competitive Strengths & Weaknesses

Table 99. Jiangsu Blue Lithium Battery Group Basic Information, Manufacturing Base and Competitors

Table 100. Jiangsu Blue Lithium Battery Group Major Business

Table 101. Jiangsu Blue Lithium Battery Group Humanoid Robot Battery Pack Product and Services

Table 102. Jiangsu Blue Lithium Battery Group Humanoid Robot Battery Pack Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Jiangsu Blue Lithium Battery Group Recent Developments/Updates

Table 104. Jiangsu Blue Lithium Battery Group Competitive Strengths & Weaknesses

Table 105. EVE Energy Basic Information, Manufacturing Base and Competitors

Table 106. EVE Energy Major Business

Table 107. EVE Energy Humanoid Robot Battery Pack Product and Services

Table 108. EVE Energy Humanoid Robot Battery Pack Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. EVE Energy Recent Developments/Updates

Table 110. EVE Energy Competitive Strengths & Weaknesses

- Table 111. CATL Basic Information, Manufacturing Base and Competitors
- Table 112. CATL Major Business
- Table 113. CATL Humanoid Robot Battery Pack Product and Services
- Table 114. CATL Humanoid Robot Battery Pack Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. CATL Recent Developments/Updates
- Table 116. CATL Competitive Strengths & Weaknesses
- Table 117. Lishen BATTERY Basic Information, Manufacturing Base and Competitors
- Table 118. Lishen BATTERY Major Business
- Table 119. Lishen BATTERY Humanoid Robot Battery Pack Product and Services
- Table 120. Lishen BATTERY Humanoid Robot Battery Pack Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Lishen BATTERY Recent Developments/Updates
- Table 122. Lishen BATTERY Competitive Strengths & Weaknesses
- Table 123. Sichuan Changhong Power Supply Basic Information, Manufacturing Base and Competitors
- Table 124. Sichuan Changhong Power Supply Major Business
- Table 125. Sichuan Changhong Power Supply Humanoid Robot Battery Pack Product and Services
- Table 126. Sichuan Changhong Power Supply Humanoid Robot Battery Pack Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Sichuan Changhong Power Supply Recent Developments/Updates
- Table 128. Sichuan Changhong Power Supply Competitive Strengths & Weaknesses
- Table 129. Sunwoda Electronic Basic Information, Manufacturing Base and Competitors
- Table 130. Sunwoda Electronic Major Business
- Table 131. Sunwoda Electronic Humanoid Robot Battery Pack Product and Services
- Table 132. Sunwoda Electronic Humanoid Robot Battery Pack Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Sunwoda Electronic Recent Developments/Updates
- Table 134. Sunwoda Electronic Competitive Strengths & Weaknesses
- Table 135. Farasis Energy Basic Information, Manufacturing Base and Competitors
- Table 136. Farasis Energy Major Business
- Table 137. Farasis Energy Humanoid Robot Battery Pack Product and Services
- Table 138. Farasis Energy Humanoid Robot Battery Pack Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Farasis Energy Recent Developments/Updates

Table 140. Farasis Energy Competitive Strengths & Weaknesses

Table 141. Shen ZHEN Grepow BATTERY Basic Information, Manufacturing Base and Competitors

Table 142. Shen ZHEN Grepow BATTERY Major Business

Table 143. Shen ZHEN Grepow BATTERY Humanoid Robot Battery Pack Product and Services

Table 144. Shen ZHEN Grepow BATTERY Humanoid Robot Battery Pack Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Shen ZHEN Grepow BATTERY Recent Developments/Updates

Table 146. Shen ZHEN Grepow BATTERY Competitive Strengths & Weaknesses

Table 147. Global Key Players of Humanoid Robot Battery Pack Upstream (Raw Materials)

Table 148. Global Humanoid Robot Battery Pack Typical Customers

Table 149. Humanoid Robot Battery Pack Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Humanoid Robot Battery Pack Picture

Figure 2. World Humanoid Robot Battery Pack Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Humanoid Robot Battery Pack Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Humanoid Robot Battery Pack Production (2021-2032) & (K Units)

Figure 5. World Humanoid Robot Battery Pack Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Humanoid Robot Battery Pack Production Value Market Share by Region (2021-2032)

Figure 7. World Humanoid Robot Battery Pack Production Market Share by Region (2021-2032)

Figure 8. North America Humanoid Robot Battery Pack Production (2021-2032) & (K Units)

Figure 9. Europe Humanoid Robot Battery Pack Production (2021-2032) & (K Units)

Figure 10. China Humanoid Robot Battery Pack Production (2021-2032) & (K Units)

Figure 11. Japan Humanoid Robot Battery Pack Production (2021-2032) & (K Units)

Figure 12. Humanoid Robot Battery Pack Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Humanoid Robot Battery Pack Consumption (2021-2032) & (K Units)

Figure 15. World Humanoid Robot Battery Pack Consumption Market Share by Region (2021-2032)

Figure 16. United States Humanoid Robot Battery Pack Consumption (2021-2032) & (K Units)

Figure 17. China Humanoid Robot Battery Pack Consumption (2021-2032) & (K Units)

Figure 18. Europe Humanoid Robot Battery Pack Consumption (2021-2032) & (K Units)

Figure 19. Japan Humanoid Robot Battery Pack Consumption (2021-2032) & (K Units)

Figure 20. South Korea Humanoid Robot Battery Pack Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Humanoid Robot Battery Pack Consumption (2021-2032) & (K Units)

Figure 22. India Humanoid Robot Battery Pack Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Humanoid Robot Battery Pack by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Humanoid Robot Battery Pack Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Humanoid Robot Battery

## Pack Markets in 2025

Figure 26. United States VS China: Humanoid Robot Battery Pack Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Humanoid Robot Battery Pack Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Humanoid Robot Battery Pack Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Humanoid Robot Battery Pack Production Market Share 2025

Figure 30. China Based Manufacturers Humanoid Robot Battery Pack Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Humanoid Robot Battery Pack Production Market Share 2025

Figure 32. World Humanoid Robot Battery Pack Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Humanoid Robot Battery Pack Production Value Market Share by Type in 2025

Figure 34. Cylindrical Battery Cells

Figure 35. Soft-pack Battery Cells

Figure 36. Square Battery Cells

Figure 37. World Humanoid Robot Battery Pack Production Market Share by Type (2021-2032)

Figure 38. World Humanoid Robot Battery Pack Production Value Market Share by Type (2021-2032)

Figure 39. World Humanoid Robot Battery Pack Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Humanoid Robot Battery Pack Production Value by Electrolyte Type, (USD Million), 2021 & 2025 & 2032

Figure 41. World Humanoid Robot Battery Pack Production Value Market Share by Electrolyte Type in 2025

Figure 42. Liquid Lithium Batteries

Figure 43. Solid-state Batteries

Figure 44. World Humanoid Robot Battery Pack Production Market Share by Electrolyte Type (2021-2032)

Figure 45. World Humanoid Robot Battery Pack Production Value Market Share by Electrolyte Type (2021-2032)

Figure 46. World Humanoid Robot Battery Pack Average Price by Electrolyte Type (2021-2032) & (US\$/Unit)

Figure 47. World Humanoid Robot Battery Pack Production Value by Cell Type, (USD

Million), 2021 & 2025 & 2032

Figure 48. World Humanoid Robot Battery Pack Production Value Market Share by Cell Type in 2025

Figure 49. 18650 Cells

Figure 50. 21700 Cells

Figure 51. Others

Figure 52. World Humanoid Robot Battery Pack Production Market Share by Cell Type (2021-2032)

Figure 53. World Humanoid Robot Battery Pack Production Value Market Share by Cell Type (2021-2032)

Figure 54. World Humanoid Robot Battery Pack Average Price by Cell Type (2021-2032) & (US\$/Unit)

Figure 55. World Humanoid Robot Battery Pack Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Humanoid Robot Battery Pack Production Value Market Share by Application in 2025

Figure 57. Service Humanoid Robots

Figure 58. Industrial Humanoid Robots

Figure 59. Others

Figure 60. World Humanoid Robot Battery Pack Production Market Share by Application (2021-2032)

Figure 61. World Humanoid Robot Battery Pack Production Value Market Share by Application (2021-2032)

Figure 62. World Humanoid Robot Battery Pack Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. Humanoid Robot Battery Pack Industry Chain

Figure 64. Humanoid Robot Battery Pack Procurement Model

Figure 65. Humanoid Robot Battery Pack Sales Model

Figure 66. Humanoid Robot Battery Pack Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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