

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

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Abstracts

The global Humanoid Robot Battery 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 refers to the integrated energy storage system designed to power a humanoid robot, typically based on lithium-ion battery cells (such as cylindrical, pouch, or prismatic formats) assembled into a battery pack with a battery management system (BMS), structural components, and thermal protection. It is engineered to balance energy density, power output, safety, weight, and reliability to support humanoid robots' complex motions, real-time computing, and continuous operation, while meeting strict requirements for compact form factor, rapid discharge/charge capability, and long cycle life in service and industrial environments. In 2025, global Humanoid Robot Battery 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 in 2025 was approximately 15 k units. The typical gross profit margin for Humanoid Robot Battery is between 20% and 30%. The downstream market for Humanoid Robot Batteries is currently in an early commercialization stage, with demand primarily driven by service humanoid robots and pilot industrial deployments, where battery packs are supplied mainly through project-based customization rather than standardized mass products. End users include robotics OEMs, system integrators, and enterprise customers in sectors such as logistics, manufacturing, healthcare, hospitality, and public services, where requirements emphasize safety, reliability, and operational uptime over absolute cost. As humanoid robots gradually scale from demonstrations to limited-volume deployments, battery demand is expected to grow steadily, with increasing preference for higher energy density, modular battery designs, and fast-swapping solutions, paving the way for broader adoption once large-scale industrial and commercial use cases mature.

The humanoid robot battery market is currently at an early commercialization stage,

transitioning from prototype validation to small-scale production, with lithium-ion battery packs as the dominant solution. Most humanoid robots adopt customized battery systems based on cylindrical, pouch, or a hybrid cell architecture, typically in the 2-5 kWh energy range, integrating BMS, structural components, and thermal management. Service-oriented humanoid robots prioritize safety, weight, and cost efficiency, while industrial humanoids demand higher power density, durability, and reliability, resulting in higher battery value per unit. On the supply side, battery packs are often co-developed by robot OEMs and battery manufacturers, with limited standardization and project-based orders dominating current volumes. Looking ahead, as deployment scales and use cases expand, the market is expected to evolve toward higher energy density, modular designs, fast-swap capability, and enhanced safety, with semi-solid and solid-state batteries likely to be introduced in premium models over the medium term, while conventional lithium-ion batteries remain the mainstream in the near future. This report studies the global Humanoid Robot Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Humanoid Robot Battery 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 that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Humanoid Robot Battery 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 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 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Humanoid Robot Battery Market, Segmentation by Type:

Cylindrical Battery Cells

Soft-pack Battery Cells

Square Battery Cells

Global Humanoid Robot Battery Market, Segmentation by Electrolyte Type:

Liquid Lithium Batteries

Solid-state Batteries

Global Humanoid Robot Battery Market, Segmentation by Cell Type:

21700 Battery

18600 Battery

Other

Global Humanoid Robot Battery Market, Segmentation by Application:

Household Humanoid Robot

Commercial Humanoid Robot

Industrial Humanoid Robot

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

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Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Humanoid Robot Battery Production Value by Manufacturer (2021-2026)

- 3.2 World Humanoid Robot Battery Production by Manufacturer (2021-2026)
- 3.3 World Humanoid Robot Battery Average Price by Manufacturer (2021-2026)
- 3.4 Humanoid Robot Battery Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Humanoid Robot Battery Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Humanoid Robot Battery in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Humanoid Robot Battery in 2025
- 3.6 Humanoid Robot Battery Market: Overall Company Footprint Analysis
 - 3.6.1 Humanoid Robot Battery Market: Region Footprint
 - 3.6.2 Humanoid Robot Battery Market: Company Product Type Footprint
 - 3.6.3 Humanoid Robot Battery 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 Production Value Comparison
 - 4.1.1 United States VS China: Humanoid Robot Battery Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Humanoid Robot Battery Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Humanoid Robot Battery Production Comparison
 - 4.2.1 United States VS China: Humanoid Robot Battery Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Humanoid Robot Battery Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Humanoid Robot Battery Consumption Comparison
 - 4.3.1 United States VS China: Humanoid Robot Battery Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Humanoid Robot Battery Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Humanoid Robot Battery Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Humanoid Robot Battery Manufacturers, Headquarters and Production Site (States, Country)

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

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

4.5 China Based Humanoid Robot Battery Manufacturers and Market Share

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

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

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

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

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

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

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

5 MARKET ANALYSIS BY TYPE

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

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

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

6 MARKET ANALYSIS BY ELECTROLYTE TYPE

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

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

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

7 MARKET ANALYSIS BY CELL TYPE

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

7.2 Segment Introduction by Cell Type

7.2.1 21700 Battery

7.2.2 18600 Battery

7.2.3 Other

7.3 Market Segment by Cell Type

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

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

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

8 MARKET ANALYSIS BY APPLICATION

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

8.2 Segment Introduction by Application

8.2.1 Household Humanoid Robot

8.2.2 Commercial Humanoid Robot

8.2.3 Industrial Humanoid Robot

8.3 Market Segment by Application

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

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

8.3.3 World Humanoid Robot Battery 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 Product and Services

9.1.4 LG Humanoid Robot Battery 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 Product and Services

9.2.4 Samsung SDI Humanoid Robot Battery 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 Product and Services

9.3.4 Panasonic Humanoid Robot Battery 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 Product and Services

9.4.4 Saft Batteries Humanoid Robot Battery 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 Product and Services

9.5.4 Jiangsu Blue Lithium Battery Group Humanoid Robot Battery 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 Product and Services
- 9.6.4 EVE Energy Humanoid Robot Battery 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 Product and Services
 - 9.7.4 CATL Humanoid Robot Battery 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 Product and Services
 - 9.8.4 Lishen BATTERY Humanoid Robot Battery 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 Product and Services
 - 9.9.4 Sichuan Changhong Power Supply Humanoid Robot Battery 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 Product and Services
 - 9.10.4 Sunwoda Electronic Humanoid Robot Battery 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 Product and Services
- 9.11.4 Farasis Energy Humanoid Robot Battery 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 Product and Services
- 9.12.4 Shen ZHEN Grepow BATTERY Humanoid Robot Battery 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 Industry Chain
- 10.2 Humanoid Robot Battery Upstream Analysis
 - 10.2.1 Humanoid Robot Battery Core Raw Materials
 - 10.2.2 Main Manufacturers of Humanoid Robot Battery Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Humanoid Robot Battery Production Mode
- 10.6 Humanoid Robot Battery Procurement Model
- 10.7 Humanoid Robot Battery Industry Sales Model and Sales Channels
 - 10.7.1 Humanoid Robot Battery Sales Model
 - 10.7.2 Humanoid Robot Battery 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 Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Humanoid Robot Battery Production Value by Region (2021-2026) & (USD Million)

Table 3. World Humanoid Robot Battery Production Value by Region (2027-2032) & (USD Million)

Table 4. World Humanoid Robot Battery Production Value Market Share by Region (2021-2026)

Table 5. World Humanoid Robot Battery Production Value Market Share by Region (2027-2032)

Table 6. World Humanoid Robot Battery Production by Region (2021-2026) & (K Units)

Table 7. World Humanoid Robot Battery Production by Region (2027-2032) & (K Units)

Table 8. World Humanoid Robot Battery Production Market Share by Region (2021-2026)

Table 9. World Humanoid Robot Battery Production Market Share by Region (2027-2032)

Table 10. World Humanoid Robot Battery Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Humanoid Robot Battery Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Humanoid Robot Battery Major Market Trends

Table 13. World Humanoid Robot Battery Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Humanoid Robot Battery Consumption by Region (2021-2026) & (K Units)

Table 15. World Humanoid Robot Battery Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Humanoid Robot Battery Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Humanoid Robot Battery Producers in 2025

Table 18. World Humanoid Robot Battery Production by Manufacturer (2021-2026) & (K Units)

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

Table 20. World Humanoid Robot Battery Average Price by Manufacturer (2021-2026)

& (US\$/Unit)

Table 21. Global Humanoid Robot Battery Company Evaluation Quadrant

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

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

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

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

Table 26. Humanoid Robot Battery Competitive Factors

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

Table 28. Humanoid Robot Battery Mergers & Acquisitions Activity

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 60. World Humanoid Robot Battery Average Price by Electrolyte Type (2027-2032) & (US\$/Unit)

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

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

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

Units)

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

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

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

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

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

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

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

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

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

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

Table 74. World Humanoid Robot Battery 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 Product and Services

Table 78. LG Humanoid Robot Battery 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 Product and Services

Table 84. Samsung SDI Humanoid Robot Battery 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 Product and Services

Table 90. Panasonic Humanoid Robot Battery 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 Product and Services

Table 96. Saft Batteries Humanoid Robot Battery 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 Product and Services

Table 102. Jiangsu Blue Lithium Battery Group Humanoid Robot Battery 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 Product and Services

Table 108. EVE Energy Humanoid Robot Battery 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 Product and Services

Table 114. CATL Humanoid Robot Battery 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 Product and Services
- Table 120. Lishen BATTERY Humanoid Robot Battery 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 Product and Services
- Table 126. Sichuan Changhong Power Supply Humanoid Robot Battery 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 Product and Services
- Table 132. Sunwoda Electronic Humanoid Robot Battery 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 Product and Services
- Table 138. Farasis Energy Humanoid Robot Battery 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 Product and Services
- Table 144. Shen ZHEN Grepow BATTERY Humanoid Robot Battery 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 Upstream (Raw Materials)

Table 148. Global Humanoid Robot Battery Typical Customers

Table 149. Humanoid Robot Battery Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Humanoid Robot Battery Picture
- Figure 2. World Humanoid Robot Battery Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Humanoid Robot Battery Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Humanoid Robot Battery Production (2021-2032) & (K Units)
- Figure 5. World Humanoid Robot Battery Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Humanoid Robot Battery Production Value Market Share by Region (2021-2032)
- Figure 7. World Humanoid Robot Battery Production Market Share by Region (2021-2032)
- Figure 8. North America Humanoid Robot Battery Production (2021-2032) & (K Units)
- Figure 9. Europe Humanoid Robot Battery Production (2021-2032) & (K Units)
- Figure 10. China Humanoid Robot Battery Production (2021-2032) & (K Units)
- Figure 11. Japan Humanoid Robot Battery Production (2021-2032) & (K Units)
- Figure 12. Humanoid Robot Battery Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Humanoid Robot Battery Consumption (2021-2032) & (K Units)
- Figure 15. World Humanoid Robot Battery Consumption Market Share by Region (2021-2032)
- Figure 16. United States Humanoid Robot Battery Consumption (2021-2032) & (K Units)
- Figure 17. China Humanoid Robot Battery Consumption (2021-2032) & (K Units)
- Figure 18. Europe Humanoid Robot Battery Consumption (2021-2032) & (K Units)
- Figure 19. Japan Humanoid Robot Battery Consumption (2021-2032) & (K Units)
- Figure 20. South Korea Humanoid Robot Battery Consumption (2021-2032) & (K Units)
- Figure 21. ASEAN Humanoid Robot Battery Consumption (2021-2032) & (K Units)
- Figure 22. India Humanoid Robot Battery Consumption (2021-2032) & (K Units)
- Figure 23. Producer Shipments of Humanoid Robot Battery by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Humanoid Robot Battery Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Humanoid Robot Battery Markets in 2025
- Figure 26. United States VS China: Humanoid Robot Battery Production Value Market

Share Comparison (2021 & 2025 & 2032)

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

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

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

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

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

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

Figure 33. World Humanoid Robot Battery 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 Production Market Share by Type (2021-2032)

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

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

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

Figure 41. World Humanoid Robot Battery 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 Production Market Share by Electrolyte Type (2021-2032)

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

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

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

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

in 2025

Figure 49. 21700 Battery

Figure 50. 18600 Battery

Figure 51. Other

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

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

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

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

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

Figure 57. Household Humanoid Robot

Figure 58. Commercial Humanoid Robot

Figure 59. Industrial Humanoid Robot

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

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

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

Figure 63. Humanoid Robot Battery Industry Chain

Figure 64. Humanoid Robot Battery Procurement Model

Figure 65. Humanoid Robot Battery Sales Model

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

Figure 67. Methodology

Figure 68. Research Process and Data Source

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