

Global Battery for Industrial Electric Robots Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Battery for Industrial Electric Robots market size is expected to reach \$ 3719 million by 2032, rising at a market growth of 11.9% CAGR during the forecast period (2026-2032).

An Battery for Industrial Electric Robot refers to a rechargeable battery system designed to power industrial robots and autonomous mobile robots. The system generally includes battery cells, battery management systems (BMS), thermal management components, structural housings, and communication interfaces. In 2025, global Battery for Industrial Electric Robot production reached approximately 669.4 K Units. The Battery for Industrial Electric Robot industry chain mainly consists of three major segments: upstream raw materials and core components, midstream battery system integration, and downstream robot applications. The upstream segment includes lithium, nickel, cobalt, graphite, electrolytes, separators, copper foil, aluminum foil, BMS chips, MOSFETs, connectors, and thermal management materials. Major battery cell suppliers are primarily power battery manufacturers such as CATL, BYD, EVE Energy, and LG Energy Solution. As robots increasingly require lightweight structures, long endurance, and fast charging capabilities, high-energy-density battery cells and intelligent BMS technologies are becoming critical development areas. Downstream applications cover industrial automation, warehouse logistics, automotive manufacturing, semiconductor fabs, port automation, medical automation, and inspection robotics.

The global Battery for Industrial Electric Robot market is experiencing rapid growth, driven by smart manufacturing, warehouse automation, e-commerce logistics expansion, and industrial labor replacement trends. Among all applications, AGVs and AMRs currently represent the largest market segment and are widely deployed in e-commerce warehouses, automotive factories, semiconductor fabs, and electronics

manufacturing facilities. Rising labor costs and increasing factory automation worldwide are further accelerating mobile robot adoption and driving demand for robot power batteries.

This report studies the global Battery for Industrial Electric Robots production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Battery for Industrial Electric Robots total production and demand, 2021-2032, (K Units)

Global Battery for Industrial Electric Robots total production value, 2021-2032, (USD Million)

Global Battery for Industrial Electric Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Battery for Industrial Electric Robots consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Battery for Industrial Electric Robots domestic production, consumption, key domestic manufacturers and share

Global Battery for Industrial Electric Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Battery for Industrial Electric Robots production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Battery for Industrial Electric Robots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Battery for Industrial Electric Robots 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 HIT Robot Group, EPT, CORUN NEW ENERGY CO., LTD., Flux Power, Zhejiang Saftec Energy, Shenzhen Litop, CM Batteries, Blue Line Battery, Alexander Battery Technologies, Apex Mobile Power, 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 Battery for Industrial Electric Robots 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 Battery for Industrial Electric Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Battery for Industrial Electric Robots Market, Segmentation by Type:

Lithium Battery

Lead-acid Battery

NiMH Battery

Others

Global Battery for Industrial Electric Robots Market, Segmentation by Robot Type:

Industrial Robot Arm Battery

AGV Battery

AMR Battery

Others

Global Battery for Industrial Electric Robots Market, Segmentation by Voltage Platform:

24V

48V

72V

Others

Global Battery for Industrial Electric Robots Market, Segmentation by Function:

Traction Battery

Backup Battery

Global Battery for Industrial Electric Robots Market, Segmentation by Application:

Automotive Manufacturing

Medical

Logistics and Warehousing

Others

Companies Profiled:

HIT Robot Group

EPT

CORUN NEW ENERGY CO., LTD.

Flux Power

Zhejiang Saftec Energy

Shenzhen Litop

CM Batteries

Blue Line Battery

Alexander Battery Technologies

Apex Mobile Power

Redway Power

KRL Power

Key Questions Answered:

1. How big is the global Battery for Industrial Electric Robots market?
2. What is the demand of the global Battery for Industrial Electric Robots market?
3. What is the year over year growth of the global Battery for Industrial Electric Robots market?
4. What is the production and production value of the global Battery for Industrial

Electric Robots market?

5. Who are the key producers in the global Battery for Industrial Electric Robots market?

6. What are the growth factors driving the market demand?

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