

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

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Abstracts

The global Industrial Robot Battery market size is expected to reach \$ 5943 million by 2032, rising at a market growth of 12.2% CAGR during the forecast period (2026-2032).

Industrial robot batteries are key components that provide power or backup energy for industrial robotic systems, particularly for mobile robots such as AGVs and AMRs, as well as fixed robots requiring power continuity. They typically use lithium-ion or lead-acid technologies, emphasizing high reliability, long cycle life, and stable performance.

In 2025, the global production of industrial robot batteries was 21.86 million units, with an average price of US\$118 per unit.

The upstream of the industry chain includes battery cells (lithium-ion or lead-acid), battery materials, battery management systems, and related manufacturing processes and equipment. Downstream applications are concentrated in industrial automation, especially in warehouse logistics robots, smart manufacturing lines, automotive production, electronics assembly, and heavy industries. Mobile robots are the primary demand driver, requiring high endurance, efficient charging, and strong safety performance. With the advancement of industrial automation and the rapid growth of e-commerce logistics, demand for AGVs and AMRs is expanding quickly, driving continuous growth in the industrial robot battery market. Additionally, some fixed robotic systems require backup batteries to prevent production interruptions or equipment damage during power outages.

Development trends include the adoption of higher energy density batteries, fast and wireless charging technologies, long-life designs, and integration of intelligent battery management systems, with strong emphasis on safety and stability. Batteries are

evolving toward modularization, standardization, and deeper integration with robotic systems to improve operational efficiency and maintenance convenience. Driving factors include industrial automation upgrades, rising labor costs, smart manufacturing initiatives, and rapid growth in logistics. Constraints include relatively high battery costs, strict safety requirements in complex environments, lack of unified technical standards, and system integration challenges. Overall industry gross margins are at a mid-to-high level, typically ranging from 20% to 40%, depending on technological capability, customer base, and economies of scale.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Industrial 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 FANUC, ABB Robotics, KUKA, Yaskawa Electric, Mitsubishi Electric, Panasonic Industry, FDK, GS Yuasa, Saft, Ultralife, 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 Industrial Robot Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Industrial Robot Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Industrial Robot Battery Market, Segmentation by Type:

Lithium Iron Phosphate Batteries

Ternary Lithium Batteries

Nickel-Metal Hydride Batteries

Valve-Regulated Lead-Acid Batteries

Solid-State Lithium Batteries

Global Industrial Robot Battery Market, Segmentation by Voltage:

24V

48V

72V

96V

Others

Global Industrial Robot Battery Market, Segmentation by Installation Method:

Built-in Type

External Type

Modular Hot-Swappable Type

Global Industrial Robot Battery Market, Segmentation by Application:

Automobile Manufacturing

3C Electronics Manufacturing

Logistics and Warehousing

New Energy Manufacturing

Metal Processing

Aerospace

Companies Profiled:

FANUC

ABB Robotics

KUKA

Yaskawa Electric

Mitsubishi Electric

Panasonic Industry

FDK

GS Yuasa

Saft

Ultralife

Sunwoda

EVE Energy

PKCELL

Great Power

Desay Battery

Highstar

Tadiran Batteries

VITZROCELL

Key Questions Answered:

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

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