

Global Lithium Battery Robotic Pool Cleaner Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lithium Battery Robotic Pool Cleaner market size is expected to reach \$ 1836 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

Lithium Battery Robotic Pool Cleaner is an intelligent cleaning device powered by rechargeable lithium batteries, designed to autonomously remove debris, algae, and sediments from pool floors and walls without external power cables. The production of Lithium Battery Robotic Pool Cleaners in 2025 was approximately 2.12 million units, with an average price of USD 500 per unit. In 2025, the industry operated at a capacity utilization rate of about 61%, while the average gross margin was approximately 43%, indicating solid profitability supported by battery technology and intelligent control systems. In the upstream segment, the most critical components included motors, batteries, PCB boards, and vision sensors, with representative suppliers such as Bosch, Samsung SDI, TDK, Sony, CATL, BYD Electronics, and Sunny Optical providing core power systems, energy storage, control circuits, and visual perception modules. In the midstream segment, manufacturers focused on system architecture design, motion control optimization, power management integration, sensor fusion, whole-machine assembly, waterproof sealing, reliability testing, and certification management, transforming key components into fully autonomous cleaning robots. In the downstream segment, these products were mainly applied in private swimming pools and commercial swimming pools, serving high-end residential users, hotels, and resort operators, with representative customers including Marriott International, Hilton, and large pool service companies that deploy robotic cleaners to improve cleaning efficiency, reduce labor dependence, and enhance water quality management.

The market for Lithium Battery Robotic Pool Cleaners is expected to expand

significantly as homeowners and commercial pool operators seek energy-efficient and maintenance-light solutions for pool cleaning. The appeal of these cleaners lies in their portability, ease of use, and the ability to operate without cumbersome power cords or complicated installation. As more residential pools are installed worldwide and leisure spending increases, demand for automated, reliable pool maintenance devices is rising steadily. In commercial settings such as hotels, resorts, and community swimming centers, these robotic cleaners help reduce labor costs, ensure consistent water hygiene, and offer flexible scheduling. Advances in battery technology, waterproof sealing, and navigation algorithms will further enhance performance and attract more users. While initial purchase cost may be higher than traditional cleaners, long-term savings on energy and labor, combined with convenience, make lithium battery pool robots an increasingly attractive option. Manufacturers who focus on durability, energy efficiency and ease of maintenance are likely to gain strong market share growth over the coming years.

Report Scope

This report studies the global Lithium Battery Robotic Pool Cleaner production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Lithium Battery Robotic Pool Cleaner total production and demand, 2021-2032, (K Units)

Global Lithium Battery Robotic Pool Cleaner total production value, 2021-2032, (USD Million)

Global Lithium Battery Robotic Pool Cleaner production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Lithium Battery Robotic Pool Cleaner consumption by region & country,

CAGR, 2021-2032 & (K Units)

U.S. VS China: Lithium Battery Robotic Pool Cleaner domestic production, consumption, key domestic manufacturers and share

Global Lithium Battery Robotic Pool Cleaner production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Lithium Battery Robotic Pool Cleaner production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Lithium Battery Robotic Pool Cleaner production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Lithium Battery Robotic Pool Cleaner 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 Maytronics (Israel), Fluidra (Spain), Aiper (USA), Hayward (USA), Pentair (USA), Beatbot (China), Aquatron Robotic Technology (Israel), Wybotics (China), BWT (Austria), Hexagone (France), 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 Lithium Battery Robotic Pool Cleaner 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 Lithium Battery Robotic Pool Cleaner Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium Battery Robotic Pool Cleaner Market, Segmentation by Type:

Cordless

Corded

Global Lithium Battery Robotic Pool Cleaner Market, Segmentation by Drive:

Crawler Drive

Wheel Drive

Global Lithium Battery Robotic Pool Cleaner Market, Segmentation by Battery Capacity:

Capacity<3500mAh

3500mAh?Capacity?5000mAh

Others

Global Lithium Battery Robotic Pool Cleaner Market, Segmentation by Sales Channel:

Online Sales

Offline Sales

Global Lithium Battery Robotic Pool Cleaner Market, Segmentation by Application:

Residential Swimming Pool

Commercial Swimming Pool

Companies Profiled:

Maytronics (Israel)

Fluidra (Spain)

Aiper (USA)

Hayward (USA)

Pentair (USA)

Beatbot (China)

Aquatron Robotic Technology (Israel)

Wybotics (China)

BWT (Austria)

Hexagone (France)

Mariner (Switzerland)

Zodiac Pool Systems (USA)

Aqua Products (USA)

Key Questions Answered:

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

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