

# Global Lithium Battery Vacuum Dehydration and Baking Line Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Lithium Battery Vacuum Dehydration and Baking Line market size is expected to reach \$ 4577 million by 2032, rising at a market growth of 11.8% CAGR during the forecast period (2026-2032).

A lithium battery vacuum dehydration and baking line is an automated production system used in lithium-ion battery manufacturing to remove trace moisture from electrodes, cell components, or assembled cells under vacuum and controlled heating conditions, ensuring ultra-low moisture levels (typically ppm level) to prevent electrolyte degradation and performance failure. In 2025, global Lithium Battery Vacuum Dehydration and Baking Line production reached approximately 588 Units. The lithium battery vacuum dehydration and baking line is a critical process equipment segment in the midstream of the lithium-ion battery manufacturing equipment industry chain. It belongs to the front-end drying and moisture-sensitive process control stage, designed to remove trace water content from electrodes, cell casings, and components under vacuum and controlled heating conditions before electrolyte filling. This ensures safety performance and cycle life, especially for high-energy-density battery chemistries. The upstream segment consists of vacuum system suppliers, heating element manufacturers, control system providers, and structural component vendors. Among them, vacuum pumps (such as dry pumps and Roots pumps) and temperature control systems are the most critical components determining equipment performance.

The lithium battery vacuum dehydration and baking line is a critical process equipment used in lithium-ion battery manufacturing for drying electrodes, cell components, and semi-finished cells. It belongs to the upstream core process equipment segment in the lithium battery production equipment industry chain. By combining vacuum conditions

with precise thermal control, the system reduces moisture content in battery materials to ppm levels, ensuring electrolyte stability and long-term cycling performance.

This report studies the global Lithium Battery Vacuum Dehydration and Baking Line production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lithium Battery Vacuum Dehydration and Baking Line 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 Vacuum Dehydration and Baking Line that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Lithium Battery Vacuum Dehydration and Baking Line total production and demand, 2021-2032, (Units)

Global Lithium Battery Vacuum Dehydration and Baking Line total production value, 2021-2032, (USD Million)

Global Lithium Battery Vacuum Dehydration and Baking Line production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Lithium Battery Vacuum Dehydration and Baking Line consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Lithium Battery Vacuum Dehydration and Baking Line domestic production, consumption, key domestic manufacturers and share

Global Lithium Battery Vacuum Dehydration and Baking Line production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Lithium Battery Vacuum Dehydration and Baking Line production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Lithium Battery Vacuum Dehydration and Baking Line production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Lithium Battery Vacuum Dehydration and Baking Line 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 Lead Intelligent, BOZHON Precision Industry, Lyric Robot, Yinghe Technology, Shenzhen Xinyuren

Technology, Shenzhen Time High-Tech, Shanghai SK Automation Technology (SKAT), Coretek Automation Co., Ltd., Schmid Group, ULVAC, 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 Vacuum Dehydration and Baking Line market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (M 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 Vacuum Dehydration and Baking Line Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium Battery Vacuum Dehydration and Baking Line Market, Segmentation by Type:

Semi-automatic Vacuum Oven

Fully Automated Inline Baking System

Robotic Integrated System

Global Lithium Battery Vacuum Dehydration and Baking Line Market, Segmentation by Object:

Electrode Baking Line

Cell Baking Line

Module-level Drying

Global Lithium Battery Vacuum Dehydration and Baking Line Market, Segmentation by Vacuum Level:

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