

Global Lithium Battery Internal Defect Detection Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lithium Battery Internal Defect Detection Equipment market size is expected to reach \$ 1166 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

Lithium battery internal defect detection equipment refers to specialized technical apparatus designed for the high-precision detection and analysis of the internal structure and material condition of lithium-ion batteries?without the need for disassembly or causing damage to the battery?with the aim of identifying microscopic or macroscopic defects that could lead to performance degradation, reduced lifespan, or even safety risks. In 2025, global Lithium Battery Internal Defect Detection Equipment production reached approximately 12,000 units, with an average global market price of around 60 K US\$/Unit. The production capacity of Lithium Battery Internal Defect Detection Equipment reaches 16,000 units, and the industry's gross profit margin is approximately between 30% and 50%.

The development of equipment for detecting internal defects in lithium batteries is primarily driven by a confluence of factors: the explosive growth of the new energy vehicle and energy storage sectors; increasingly stringent regulations prompted by frequent battery safety incidents; heightened demands for product reliability from end-users; and the ongoing evolution of lithium-ion battery manufacturing toward higher energy densities and large-scale mass production. During the manufacturing process, minute internal defects?such as metallic foreign objects, damaged separators, or misaligned electrodes?can easily trigger thermal runaway; consequently, manufacturers urgently require the capability to perform high-precision, high-efficiency full inspections or sampling checks without compromising the structural integrity of the battery.

Furthermore, mandatory safety certification requirements and demands for production process traceability across various nations have further compelled manufacturers to deploy advanced non-destructive testing systems?utilizing technologies such as X-ray, ultrasound, infrared, or AI vision?to safeguard product quality, mitigate recall risks, and fulfill strategic objectives regarding intelligent manufacturing and zero-defect production.

This report studies the global Lithium Battery Internal Defect Detection Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lithium Battery Internal Defect Detection Equipment 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 Internal Defect Detection Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Lithium Battery Internal Defect Detection Equipment total production and demand, 2021-2032, (Units)

Global Lithium Battery Internal Defect Detection Equipment total production value, 2021-2032, (USD Million)

Global Lithium Battery Internal Defect Detection Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Lithium Battery Internal Defect Detection Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Lithium Battery Internal Defect Detection Equipment domestic production, consumption, key domestic manufacturers and share

Global Lithium Battery Internal Defect Detection Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Lithium Battery Internal Defect Detection Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Lithium Battery Internal Defect Detection Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Lithium Battery Internal Defect Detection Equipment 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 Guangdong Zhengye Technology, Innometry, UNICOMP, Waygate Technologies, ZEISS, Shimadzu, Shenzhen Dacheng Precision Equipment, Hitachi, Haozhi Imaging Technology, Zhejiang Shuangyuan Technology, 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 Internal Defect Detection Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Internal Defect Detection Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium Battery Internal Defect Detection Equipment Market, Segmentation by

Type:

Online Detection

Off-line Detection

Global Lithium Battery Internal Defect Detection Equipment Market, Segmentation by Technology:

X-ray Imaging Inspection Equipment

Ultrasonic Inspection Equipment

Others

Global Lithium Battery Internal Defect Detection Equipment Market, Segmentation by Battery Type:

Cylindrical Batteries

Square Aluminum-Shell Batteries

Others

Global Lithium Battery Internal Defect Detection Equipment Market, Segmentation by Application:

Electric Vehicle Battery

3C Battery

Energy Storage Battery

Companies Profiled:

Guangdong Zhengye Technology

Innometry

UNICOMP

Waygate Technologies

ZEISS

Shimadzu

Shenzhen Dacheng Precision Equipment

Hitachi

Haozhi Imaging Technology

Zhejiang Shuangyuan Technology

Shanghai Hiwave Precision Instrument

Rui'ao Testing Equipment

Nordson

Key Questions Answered:

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

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