

Global Battery X-ray Inspection Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Battery X-ray Inspection Machine market size is expected to reach \$ 31613 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

In 2025, the global production of battery x-ray inspection machine reached approximately 57,200 units, with an average global market price of around US\$350,000 per unit. In the same year, the global total production capacity of battery x-ray inspection machine reached 71,500 units. The industry average gross profit margin of this product reached 35%. Battery X-ray inspection machines utilize the penetrating properties of X-rays to perform nondestructive testing of a battery's internal structure. They are primarily used to identify internal defects in new energy batteries, such as lithium batteries, to ensure battery safety and reliability. This technology, through high-resolution imaging and AI algorithm analysis, enables rapid and precise quality control and is widely used in the production of power batteries, consumer batteries, and energy storage batteries.

The upstream segment of the battery X-ray inspection machine industry chain comprises core components and software/hardware systems such as X-ray sources, detectors, industrial cameras, precision motion platforms, servo motors, linear modules, mechanical structures, lead shielding materials, high-voltage power supplies, industrial PCs, PLCs, image acquisition cards, machine vision, and AI algorithms. Among these, X-ray sources, flat-panel detectors, and high-precision imaging algorithms significantly influence the equipment's inspection accuracy, speed, and stability. The midstream consists of manufacturers responsible for the design, system integration (including X-ray imaging, automated loading/unloading, image recognition, defect identification, data traceability, and production line connectivity) and the provision of inline, offline, and CT

inspection solutions tailored to various product forms—such as cylindrical, prismatic, and pouch cells, as well as modules. Downstream applications primarily span the production of lithium-ion power batteries, energy storage batteries, consumer electronics batteries, and certain next-generation batteries; these machines inspect internal quality attributes—including electrode alignment, winding or stacking structures, welding quality, foreign objects, internal cracks, tab conditions, and assembly defects—ultimately serving end-use sectors such as new energy vehicles, electrochemical energy storage, 3C electronics, and power tools.

Battery X-ray inspection machines continue to offer promising growth prospects, driven by the capacity expansion of power and energy storage batteries, stricter safety standards, and heightened requirements for high consistency and full-process quality traceability in manufacturing. As large-capacity prismatic cells, large cylindrical cells (e.g., 4680), fast-charging batteries, and increasingly complex stacking and winding structures evolve, traditional visual and electrical performance inspections struggle to fully detect internal structural flaws; consequently, X-ray inspection has become increasingly critical for assessing electrode alignment, internal foreign objects, welding quality, and structural integrity. Meanwhile, equipment is evolving from standalone offline inspection toward high-speed inline full inspection, 3D CT, AI-based automated defect detection, and MES data integration, leading to an expected increase in the number of units per production line and the overall value of the equipment. In the long term, while the pace of power battery capacity expansion may experience cyclical fluctuations, the penetration of high-end inspection equipment will continue to benefit from tightening safety regulations, the need for higher yields, and the automation of battery manufacturing; the industry's growth focus will gradually shift from being driven solely by new capacity additions to the upgrading of existing production lines and the replacement of older systems with high-precision inspection technology.

Report Scope

This report studies the global Battery X-ray Inspection Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery X-ray Inspection Machine 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 X-ray Inspection Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Battery X-ray Inspection Machine total production and demand, 2021-2032, (K Units)

Global Battery X-ray Inspection Machine total production value, 2021-2032, (USD Million)

Global Battery X-ray Inspection Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Battery X-ray Inspection Machine consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Battery X-ray Inspection Machine domestic production, consumption, key domestic manufacturers and share

Global Battery X-ray Inspection Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Battery X-ray Inspection Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Battery X-ray Inspection Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Battery X-ray Inspection Machine 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 Seamark ZM, VisiConsult, Dacheng Precision Equipment Co., Ltd, Tob Machine, JH Technologies, Unicomp Technology, BIIT Electronics, Baker Hughes, Zhengye Technology, Zhejiang Shuangyuan Technology Co., Ltd., 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 X-ray Inspection Machine 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 X-ray Inspection Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Battery X-ray Inspection Machine Market, Segmentation by Type:

Offline Testing Equipment

Online Testing Equipment

Global Battery X-ray Inspection Machine Market, Segmentation by X-ray Tube Voltage:

IP44–IP54 Wet Location Lighting

IP55–IP64 Wet Location Lighting

IP65–IP66 Wet Location Lighting

Global Battery X-ray Inspection Machine Market, Segmentation by Inspection Dimension:

2D X-ray Inspection System

3D/CT X-ray Inspection System

Global Battery X-ray Inspection Machine Market, Segmentation by Application:

Battery Manufacturers (Cylindrical Cells, Prismatic Cells, Pouch Cells, Power Battery Modules, Energy Storage Battery Modules, etc.)

Automotive Manufacturers (Battery Packs, Pack Assembly Systems, Battery Trays, Pre-Installation Module Inspection, Vehicle Battery System Quality Inspection, etc.)

Others

Companies Profiled:

Seamark ZM

VisiConsult

Dacheng Precision Equipment Co., Ltd

Tob Machine

JH Technologies

Unicomp Technology

BIIT Electronics

Baker Hughes

Zhengye Technology

Zhejiang Shuangyuan Technology Co., Ltd.

Nikon Corporation

Innometry Co., Ltd.

Wuxi Lead Intelligent Equipment Co., Ltd.

Guangdong Zhengye Technology Co., Ltd.

Shimadzu Corporation

Key Questions Answered

1. How big is the global Battery X-ray Inspection Machine market?
2. What is the demand of the global Battery X-ray Inspection Machine market?
3. What is the year over year growth of the global Battery X-ray Inspection Machine market?
4. What is the total value of the global Battery X-ray Inspection Machine market?
5. Who are the Major Players in the global Battery X-ray Inspection Machine market?

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

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