

# **Global Battery X-ray Inspection Machine Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032**

<https://marketpublishers.com/r/G6202A7021F0EN.html>

Date: September 2026

Pages: 117

Price: US\$ 3,480.00 (Single User License)

ID: G6202A7021F0EN

## **Abstracts**

According to our (Global Info Research) latest study, the global Battery X-ray Inspection Machine market size was valued at US\$ 20616 million in 2025 and is forecast to a readjusted size of US\$ 31613 million by 2032 with a CAGR of 6.3% during review period.

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 is a detailed and comprehensive analysis for global Battery X-ray Inspection Machine market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market

share estimates of some of the selected leaders for the year 2025, are provided.

## Key Features:

Global Battery X-ray Inspection Machine market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery X-ray Inspection Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery X-ray Inspection Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery X-ray Inspection Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

## The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Battery X-ray Inspection Machine

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Battery X-ray Inspection Machine market based on the following parameters - company overview, sales quantity, revenue, 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.

Battery X-ray Inspection Machine market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

## **Market Segmentation**

### **Market segment by Type**

Offline Testing Equipment

Online Testing Equipment

### **Market segment by X-ray Tube Voltage**

IP44–IP54 Wet Location Lighting

IP55–IP64 Wet Location Lighting

IP65–IP66 Wet Location Lighting

### **Market segment by Inspection Dimension**

2D X-ray Inspection System

3D/CT X-ray Inspection System

### **Market segment 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

## **Major players covered**

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

## **Market segment by region, regional analysis covers**

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

## **Chapter Outline**

Chapter 1, to describe Battery X-ray Inspection Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Battery X-ray Inspection Machine, with price, sales quantity, revenue, and global market share of Battery X-ray Inspection Machine from 2021 to 2026.

Chapter 3, the Battery X-ray Inspection Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Battery X-ray Inspection Machine breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Battery X-ray Inspection Machine market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Battery X-ray Inspection Machine.

Chapter 14 and 15, to describe Battery X-ray Inspection Machine sales channel, distributors, customers, research findings and conclusion.

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