

Global All-Solid-State Battery Pilot Line Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G4A1D1FF9FC0EN.html>

Date: July 2026

Pages: 121

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

ID: G4A1D1FF9FC0EN

Abstracts

According to our (Global Info Research) latest study, the global All-Solid-State Battery Pilot Line market size was valued at US\$ 130 million in 2025 and is forecast to a readjusted size of US\$ 423 million by 2032 with a CAGR of 18.2% during review period.

In 2025, the global production of all-solid-state battery pilot lines reached 18 units, with an estimated average selling price of US\$7.04 million per unit. An all-solid-state battery pilot line is an integrated manufacturing equipment system designed to advance all-solid-state batteries from laboratory formulations and small-scale samples to engineering samples, automotive-grade validation samples, and small-batch trial production. Its core characteristic is the absence of free-flowing liquid electrolytes within the battery cell; instead, sulfide, oxide, polymer, halide, or composite solid electrolytes perform the functions of ion conduction and separation. These lines are used for the screening of solid electrolytes and composite cathode materials, optimization of interface impedance, validation of lithium metal anode processing, development of A/B/C-sample stages, submission of automotive-grade pouch or prismatic cell samples, cycle life and safety testing, yield ramp-up, process window validation, and the subsequent replication of processes for GWh-scale mass production. Downstream applications primarily target new energy vehicles, next-generation high-end power batteries, drones, electric vertical take-off and landing (eVTOL) aircraft, aerospace, robotics, defense power supplies, high-end consumer electronics, and specialized energy storage sectors. The upstream supply chain includes lithium sulfide, sulfide solid electrolytes, oxide electrolytes, halide electrolytes, lithium metal foil, high-nickel cathode materials, conductive agents, binders, current collectors, aluminum-plastic films, metal casings, sealing materials, calendaring rolls, vacuum equipment, dry rooms, glove boxes, inert atmosphere systems, robots, servo systems, laser equipment, pressure equipment, online

inspection equipment, and industrial software. The midstream consists of manufacturers of all-solid-state battery pilot line equipment. The downstream sector comprises solid-state battery enterprises, power battery manufacturers, vehicle OEMs, material companies, research institutes, public pilot-testing platforms, and testing agencies. The gross profit margin ranges from approximately 30% to 45%.

This report is a detailed and comprehensive analysis for global All-Solid-State Battery Pilot Line 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 All-Solid-State Battery Pilot Line market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global All-Solid-State Battery Pilot Line market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global All-Solid-State Battery Pilot Line market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global All-Solid-State Battery Pilot Line market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 All-Solid-State Battery Pilot Line

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 All-Solid-State Battery Pilot Line 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 Mikrouna, GAC Group, High Energy Digital Manufacturing (Xi'an) Technology, Guangdong Lyric Robot Automation, Wuxi Lead Intelligent Equipment, Hymson Laser Technology Group, Xingtai Naknor Technology, Shenzhen Manst Technology, Farasis Energy, TOB New Energy, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

All-Solid-State Battery Pilot Line 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 segment by Type

Sulfide-Based

Oxide-Based

Polymer-Based

Halide-Based

Composite Solid-State Electrolyte-Based

Market segment by Production Line Scale

Laboratory Line

Engineering Pilot Line

Demonstration Line

Market segment by Application

Automotive Electronics

Consumer Electronics

Others

Major players covered

Mikrouna

GAC Group

High Energy Digital Manufacturing (Xi'an) Technology

Guangdong Lyric Robot Automation

Wuxi Lead Intelligent Equipment

Hymson Laser Technology Group

Xingtai Naknor Technology

Shenzhen Manst Technology

Farasis Energy

TOB New Energy

Yinghe Technology

QuantumScape

Solid Power

mPLUS CORP.

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe All-Solid-State Battery Pilot Line product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of All-Solid-State Battery Pilot Line, with price, sales quantity, revenue, and global market share of All-Solid-State Battery Pilot Line from 2021 to 2026.

Chapter 3, the All-Solid-State Battery Pilot Line competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the All-Solid-State Battery Pilot Line 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 All-Solid-State Battery Pilot Line 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 All-Solid-State Battery Pilot Line.

Chapter 14 and 15, to describe All-Solid-State Battery Pilot Line sales channel, distributors, customers, research findings and conclusion.

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