

Global Battery Black Mass Recycling Equipment Market Growth 2026-2032

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Abstracts

The global Battery Black Mass Recycling Equipment market size is predicted to grow from US\$ 1827 million in 2025 to US\$ 2982 million in 2032; it is expected to grow at a CAGR of 4.6% from 2026 to 2032.

Battery black mass recycling equipment refers to resource recovery machinery and integrated process systems designed for spent lithium-ion batteries, retired EV battery modules, battery packs and battery manufacturing scrap. Its core function is to safely perform discharging, dismantling, shredding, drying, screening, air separation, magnetic separation, metal foil separation, powder collection and downstream hydrometallurgical refining, converting complex mixed battery materials into black mass, copper, aluminum, steel casings, plastics and intermediate materials for the further recovery of nickel, cobalt, manganese and lithium. This category addresses the challenges of hazardous end-of-life batteries, complex material composition, high embedded material value and difficult separation. It is commonly delivered as standalone equipment, modular systems, skid-mounted units or complete production lines. Key technologies include low-oxygen or inert-atmosphere shredding, vacuum or low-temperature drying, electrolyte recovery, fine powder screening, enclosed negative-pressure conveying, dust explosion protection and hydrometallurgical leaching and purification. Typical customers include battery recyclers, cathode and anode material producers, battery manufacturers, automotive recycling platforms and environmental engineering companies.

Battery black mass recycling equipment is evolving from environmental treatment machinery into critical infrastructure within the battery materials supply chain. As retired EV battery volumes increase and battery manufacturing scrap expands, recyclers no longer focus only on safely shredding waste batteries. They need to produce high-

quality black mass that can be reliably used in hydrometallurgical processing and material regeneration. As an intermediate product connecting spent batteries with recovered metals, black mass quality, particle size, metal foil contamination, moisture content and impurity levels directly affect the recovery efficiency of nickel, cobalt, manganese and lithium. As a result, the value of equipment is shifting from single-machine crushing capacity to full-process material control, covering discharging, dismantling, low-oxygen shredding, vacuum drying, screening, copper and aluminum separation, powder collection, off-gas treatment and explosion protection. Complete production lines with continuous operation, enclosed processing, automated monitoring and stable black mass output will be more competitive than low-cost standalone machines. Policy and compliance requirements are becoming important drivers of the battery black mass recycling equipment market. The EU Battery Regulation sets clear targets for recycling efficiency and critical metal recovery from waste batteries, pushing recyclers away from basic dismantling and simple separation toward high-recovery, traceable and scalable treatment processes. For equipment suppliers, this means that production lines must not only produce black mass but also meet requirements for safety, environmental protection, dust control, off-gas purification, electrolyte handling and material flow management. Because spent lithium-ion batteries involve residual electricity, flammable electrolytes and dust explosion risks, the core barriers of equipment systems will increasingly lie in low-oxygen or inert-atmosphere control, enclosed negative-pressure conveying, vacuum drying, explosion-proof dust collection and automated interlock protection. As regulatory standards tighten and closed-loop battery material systems take shape, equipment purchasing decisions will focus more on operating reliability and final recovery economics than on upfront equipment cost alone. From a regional and competitive perspective, Asia-Pacific remains the core demand and supply center for battery black mass recycling equipment. China, South Korea and Japan have relatively complete battery manufacturing and material ecosystems, which means battery scrap and end-of-life battery treatment demand appeared earlier and supported the development of local shredding, separation, line integration and powder handling systems. Europe and North America are accelerating recycling capacity construction under the combined influence of regulation, automotive supply chain localization and critical mineral security. New projects in these regions are more likely to adopt automated, low-emission systems that can connect directly with hydrometallurgical processing. The market will likely develop around two major opportunities: high-throughput complete lines for large recycling plants and modular systems for battery manufacturing scrap and regional recycling centers. As black mass shifts from intermediate waste into a tradable strategic resource, equipment competition will increasingly focus on black mass quality, integration with metal recovery processes and lifecycle service capability.

LP Information, Inc. (LPI) ' newest research report, the "Battery Black Mass Recycling Equipment Industry Forecast" looks at past sales and reviews total world Battery Black Mass Recycling Equipment sales in 2025, providing a comprehensive analysis by region and market sector of projected Battery Black Mass Recycling Equipment sales for 2026 through 2032. With Battery Black Mass Recycling Equipment sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Battery Black Mass Recycling Equipment industry.

This Insight Report provides a comprehensive analysis of the global Battery Black Mass Recycling Equipment landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Battery Black Mass Recycling Equipment portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Battery Black Mass Recycling Equipment market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Battery Black Mass Recycling Equipment and breaks down the forecast by Processing Stage, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Battery Black Mass Recycling Equipment.

This report presents a comprehensive overview, market shares, and growth opportunities of Battery Black Mass Recycling Equipment market by product type, application, key manufacturers and key regions and countries.

Segmentation by Processing Stage:

Black Mass Production Equipment

Black Mass Refining Equipment

Metal Foil Sorting Equipment

Powder Transfer Equipment

Segmentation by Feedstock Object:

- Consumer Battery Processing Equipment
- Power Battery Module Processing Equipment
- Battery Pack Processing Equipment
- Manufacturing Scrap Processing Equipment

Segmentation by Safety Control Method:

- Nitrogen Inerting Equipment
- Water-Sealed Wet Equipment
- Vacuum Low-Oxygen Equipment
- Negative-Pressure Enclosed Equipment

Segmentation by Application:

- Black Mass Production in Recycling Plants
- Battery Plant Scrap Processing
- Hydrometallurgical Feedstock Preparation
- Safe Black Mass Storage and Transfer
- Recycled Material Quality Improvement

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

ANDRITZ

BHS-Sonthofen

Metso

MTB Recycling

Stokkermill

Hosokawa Micron Group

GENOX Recycling Tech

GEP ECOTECH

SUNY GROUP

Guanma Machinery

Xingmao Machinery

BCA Industries

Engineered Recycling Systems

Elcan Industries

Met-Chem

Key Questions Addressed in this Report

What is the 10-year outlook for the global Battery Black Mass Recycling Equipment market?

What factors are driving Battery Black Mass Recycling Equipment market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Battery Black Mass Recycling Equipment market opportunities vary by end market size?

How does Battery Black Mass Recycling Equipment break out by Processing Stage, by Application?

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