

Global Battery Black Mass Recycling Equipment Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Battery Black Mass Recycling Equipment market size was valued at US\$ 1922 million in 2025 and is forecast to a readjusted size of US\$ 3088 million by 2032 with a CAGR of 4.3% during review period.

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.

This report is a detailed and comprehensive analysis for global Battery Black Mass Recycling Equipment market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Processing Stage 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 Black Mass Recycling Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Black Mass Recycling Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Black Mass Recycling Equipment market size and forecasts, by Processing Stage and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Black Mass Recycling Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (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 Black Mass Recycling Equipment

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 Black Mass Recycling Equipment 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 ANDRITZ, BHS-Sonthofen, Metso, MTB Recycling, Stokkermill, Hosokawa Micron Group, GENOX Recycling Tech, GEP ECOTECH, SUNY GROUP, Guanma Machinery, etc.

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

Market Segmentation

Battery Black Mass Recycling Equipment market is split by Processing Stage and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Processing Stage, 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 Processing Stage

- Black Mass Production Equipment

- Black Mass Refining Equipment

- Metal Foil Sorting Equipment

- Powder Transfer Equipment

Market segment by Feedstock Object

- Consumer Battery Processing Equipment

- Power Battery Module Processing Equipment

- Battery Pack Processing Equipment

- Manufacturing Scrap Processing Equipment

Market segment by Safety Control Method

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

Market segment 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

Major players covered

- 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

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 Battery Black Mass Recycling Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Battery Black Mass Recycling Equipment, with price, sales quantity, revenue, and global market share of

Battery Black Mass Recycling Equipment from 2021 to 2026.

Chapter 3, the Battery Black Mass Recycling Equipment competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Battery Black Mass Recycling Equipment 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 Processing Stage and by Application, with sales market share and growth rate by Processing Stage, 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 Black Mass Recycling Equipment market forecast, by regions, by Processing Stage, 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 Black Mass Recycling Equipment.

Chapter 14 and 15, to describe Battery Black Mass Recycling Equipment sales channel, distributors, customers, research findings and conclusion.

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