

Global Lithium-ion Battery Recycling Shredder 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 Lithium-ion Battery Recycling Shredder market size was valued at US\$ 86.02 million in 2025 and is forecast to a readjusted size of US\$ 262 million by 2032 with a CAGR of 16.5% during review period.

A lithium-ion battery recycling shredder refers to a specialised size-reduction machine or integrated shredding module used in the mechanical pre-treatment of end-of-life lithium-ion batteries, EV battery packs and modules, stationary energy-storage batteries, consumer electronics cells and lithium-ion battery manufacturing scrap. Its core function is to reduce battery materials into controlled particle sizes, liberate casing, foils, separator and electrode materials, and prepare the feedstock for downstream drying, screening, magnetic separation, air classification, black mass recovery or metallurgical refining. Typical equipment configurations include low-speed high-torque twin-shaft shredders, four-shaft shredders, single-shaft secondary crushers, hammer mills, enclosed nitrogen-inerted shredding systems, aqueous shredding systems, sealed feeding and discharge modules, oxygen and temperature monitoring, fire-suppression interfaces, dust collection and PLC-based process control.

Depending on throughput, safety architecture and automation level, indicative commercial pricing ranges from tens of thousands of US dollars for smaller standalone battery shredders to several hundred thousand or more than one million US dollars for enclosed inert shredding systems.

This report focuses on the shredding and crushing equipment directly responsible for lithium-ion battery size reduction and its immediate safety-related modules, primarily

serving black mass production, battery material recycling, EV battery end-of-life treatment, cell manufacturing scrap recovery and hazardous battery pre-treatment applications.

Based on our research, the lithium-ion battery recycling shredder market should be understood as a specialised mechanical pre-treatment equipment segment rather than as a generic industrial shredder category. The technical challenge is not merely to reduce material size, but to shred batteries safely and consistently while managing residual charge, volatile electrolyte, thermal runaway, dust, toxic off-gas and explosion risks. This makes the market structurally different from ordinary plastic, wood, tyre or municipal waste shredding. A rigorous market boundary should therefore focus on lithium-ion battery shredding modules, enclosed or inerted shredding systems, and black-mass front-end equipment, while excluding pure hydrometallurgy, pyrometallurgy, battery recycling service operators and generic shredders with no demonstrated battery-specific adaptation.

From the supply-side perspective, Europe has the strongest concentration of high-end engineering suppliers, especially in inert shredding, vacuum drying integration, turnkey black-mass production and safety-critical process design. Companies such as BHS-Sonthofen, ANDRITZ, URT, ERDWICH, MTB Recycling, ELDAN and Stokkermill represent the more process-intensive part of the market. China has a broader and more fragmented supplier base, with manufacturers offering lithium battery shredding lines, crushing and sorting lines and cost-competitive mechanical systems for domestic and export projects. North America has a strong industrial shredder base, but publicly verifiable lithium-ion battery-specific equipment evidence is concentrated among fewer suppliers such as Shred-Tech, Franklin Miller and AMOS. Japan, South Korea and Taiwan show meaningful recycling activity, but the number of specialised shredder OEMs with clear public evidence remains relatively limited.

Demand growth is being driven by four main sources: end-of-life EV battery packs, production scrap from battery manufacturing, consumer electronics batteries and the build-out of regional black-mass production capacity. In the near term, cell scrap and small-format lithium-ion batteries provide a steady equipment demand base. Over the medium term, larger volumes of EV packs and modules will raise the need for higher-throughput, safer and more automated shredding systems. Regulatory pressure is also becoming more relevant: the European Commission has set recovery targets for cobalt, copper, lead, nickel and lithium, while the U.S. EPA highlights the fire and hazardous-waste issues associated with mismanaged lithium-ion batteries. These factors support a market trajectory in which safe mechanical pre-treatment becomes a necessary

infrastructure layer for the broader battery circular economy.

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

Global Lithium-ion Battery Recycling Shredder 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 Lithium-ion Battery Recycling Shredder market size and forecasts, by Shredding Environment and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Lithium-ion Battery Recycling Shredder 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 Lithium-ion Battery Recycling Shredder

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 Lithium-ion Battery Recycling Shredder 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 AG, BHS-Sonthofen GmbH, URT Recycling Technology, ERDWICH, MTB Recycling, Genox Recycling Tech, GEP ECOTECH, Shred-Tech, ELDAN Recycling, Stokkermill Recycling Machinery, etc.

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

Market Segmentation

Lithium-ion Battery Recycling Shredder market is split by Shredding Environment and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Shredding Environment, 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 Shredding Environment

Dry Inert Shredding

Wet / Aqueous Shredding

Conventional Dry Shredding for Discharged Feedstock

Other

Market segment by Equipment Function

Pack / Module Pre-Shredder

Primary Cell Shredder

Secondary Crusher / Granulator

Integrated Shredding Module

Other

Market segment by Feedstock Form

EV Battery Packs and Modules

Manufacturing Scrap and Electrode Scrap

Consumer Electronics Cells

Mixed Rechargeable Batteries / Other

Market segment by Throughput Class

Lab / Pilot Scale

Small Commercial Scale

Industrial Scale

Large-Scale Integrated Line

Market segment by Application

Black Mass Production

Feedstock Preparation for Metallurgy

Battery Manufacturing Scrap Recovery

Hazardous Battery Waste Pre-treatment

Other

Major players covered

ANDRITZ AG

BHS-Sonthofen GmbH

URT Recycling Technology

ERDWICH

MTB Recycling

Genox Recycling Tech

GEP ECOTECH

Shred-Tech

ELDAN Recycling

Stokkermill Recycling Machinery

UNTHA shredding technology

SatrindTech

AMOS Mfg.

Franklin Miller

Guangzhou 3E Machinery

ENERPAT

SUNY GROUP

Henan Recycle

Henan Honest Heavy Machinery

PAIBO Recycling Group

Yung Hsing Machinery

Hunan Vary Technology

Xingmao Machinery

Fante Recycling

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 Lithium-ion Battery Recycling Shredder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lithium-ion Battery Recycling Shredder, with price, sales quantity, revenue, and global market share of Lithium-ion Battery Recycling Shredder from 2021 to 2026.

Chapter 3, the Lithium-ion Battery Recycling Shredder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Lithium-ion Battery Recycling Shredder 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 Shredding Environment and by Application, with sales market share and growth rate by Shredding Environment, 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 Lithium-ion Battery Recycling Shredder market forecast, by regions, by Shredding Environment, 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 Lithium-ion Battery Recycling Shredder.

Chapter 14 and 15, to describe Lithium-ion Battery Recycling Shredder sales channel, distributors, customers, research findings and conclusion.

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