

Global Lithium-ion Battery Recycling Shredder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lithium-ion Battery Recycling Shredder market size is expected to reach \$ 262 million by 2032, rising at a market growth of 16.5% CAGR during the forecast period (2026-2032).

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 studies the global Lithium-ion Battery Recycling Shredder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lithium-ion Battery Recycling Shredder and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Lithium-ion Battery Recycling Shredder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Lithium-ion Battery Recycling Shredder total production and demand, 2021-2032, (Units)

Global Lithium-ion Battery Recycling Shredder total production value, 2021-2032, (USD Million)

Global Lithium-ion Battery Recycling Shredder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Lithium-ion Battery Recycling Shredder consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Lithium-ion Battery Recycling Shredder domestic production, consumption, key domestic manufacturers and share

Global Lithium-ion Battery Recycling Shredder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Lithium-ion Battery Recycling Shredder production by Shredding Environment, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Lithium-ion Battery Recycling Shredder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Lithium-ion Battery Recycling Shredder market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Lithium-ion Battery Recycling Shredder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Shredding Environment, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Lithium-ion Battery Recycling Shredder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium-ion Battery Recycling Shredder Market, Segmentation by Shredding Environment:

Dry Inert Shredding

Wet / Aqueous Shredding

Conventional Dry Shredding for Discharged Feedstock

Other

Global Lithium-ion Battery Recycling Shredder Market, Segmentation by Equipment Function:

Pack / Module Pre-Shredder

Primary Cell Shredder

Secondary Crusher / Granulator

Integrated Shredding Module

Other

Global Lithium-ion Battery Recycling Shredder Market, Segmentation by Feedstock Form:

EV Battery Packs and Modules

Manufacturing Scrap and Electrode Scrap

Consumer Electronics Cells

Mixed Rechargeable Batteries / Other

Global Lithium-ion Battery Recycling Shredder Market, Segmentation by Throughput Class:

Lab / Pilot Scale

Small Commercial Scale

Industrial Scale

Large-Scale Integrated Line

Global Lithium-ion Battery Recycling Shredder Market, Segmentation by Application:

Black Mass Production

Feedstock Preparation for Metallurgy

Battery Manufacturing Scrap Recovery

Hazardous Battery Waste Pre-treatment

Other

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Lithium-ion Battery Recycling Shredder market?
2. What is the demand of the global Lithium-ion Battery Recycling Shredder market?
3. What is the year over year growth of the global Lithium-ion Battery Recycling Shredder market?
4. What is the production and production value of the global Lithium-ion Battery Recycling Shredder market?
5. Who are the key producers in the global Lithium-ion Battery Recycling Shredder market?
6. What are the growth factors driving the market demand?

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