

Lithium Battery Recycling Plant

Lithium-ion battery processing line | Recycling line



Product description

The lithium-ion battery processing line breaks down and separates the valuable components of spent cells using mechanical and physical methods. It operates in a safe mode that prevents fire and explosion, and complies with the requirements of the EU Battery Regulation 2023/1542/EU. The recovered black mass contains lithium, cobalt, manganese and nickel.

Key technical features

Parameter	Value
Processable types	Li-ion (NMC, LFP, NCA) and Li-polymer cells and modules
Recovered fractions	Lithium, cobalt, manganese, nickel, aluminium foil, copper foil
Processing principle	Mechanical breakdown → drying → separation → black mass recovery
EU compliance	Battery Regulation 2023/1542/EU
Control	PLC automated, fire-prevention mode
Supply voltage	380 V / 50 Hz

Applications

- End-of-life processing of electric vehicle batteries
- Take-back of industrial and energy storage battery packs
- Mandatory recovery under the EU Battery Regulation (2023/1542/EU)
- Recovery and sale of lithium and critical raw materials