

# Lithium Ion Battery (LIB) Recycle System



**2024**  
 Kawasaki  
 Ecological Frontiers  
 S class

Kawasaki Heavy Industries, Ltd.

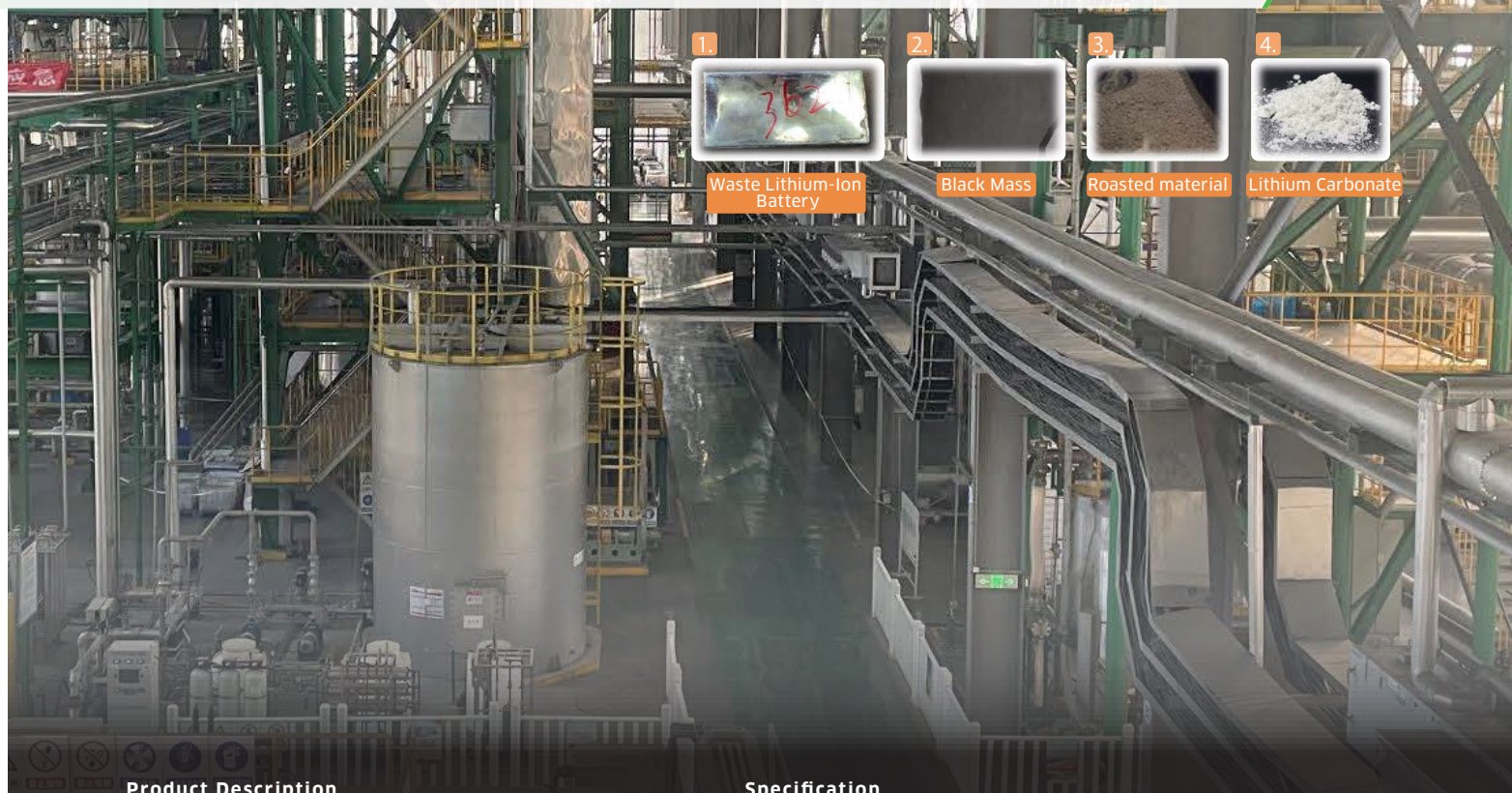
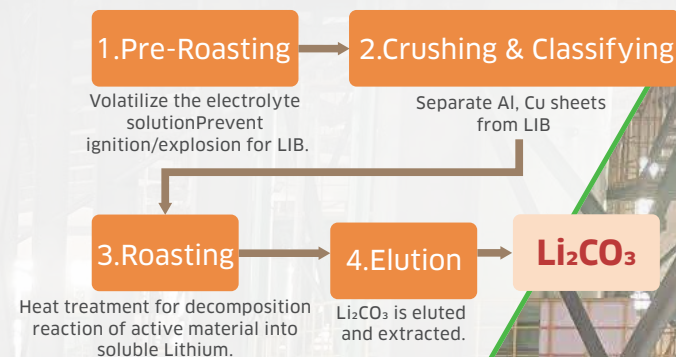
High Purification Rare metals can be recovered from Wasted Lithium-Ion Batteries of Electric Vehicles with high efficiency and low environmental impact

The target of recycling is rare metals included in wasted lithium-ion batteries used in electric vehicles.

Lithium Carbonate( $\text{Li}_2\text{CO}_3$ ) can be recovered with Industry-leading high energy efficiency with using high-technology, such as using cement plant exhaust gas for the Roasting process.

Lithium Carbonate can be extracted using water, without use of strong acids or alkalis which have high environment impact.

## LIB Recycle System / Process



### Product Description

System for recycle rare metals from Wasted Lithium-Ion Batteries (LIB) of EV with high efficiency and low environmental impact.

\*Capacity:5,000 t/y

### Specification

- Processable for both NCM/LFP type for wasted LIB
- Safe processing method for preventing ignition of the electrolyte