



ROASTING-FREE DRY DISMANTLING RECYCLING

Setting a new standard for Lithium Battery Recycling

30 years of research and development have resulted in a **roasting-free dry dismantling recycling process**. Our cutting-edge **patented technology** maximizes material recovery while minimizing environmental impact, energy consumption and operational costs.

The fully closed and automated process starts with dumping batteries into a collective bin and ends with extracted materials that can seamlessly integrate into the different material supply chains.

Key Advantages

- **Higher Recovery Efficiency** – Industry leading black mass and metal recovery rates
- **Minimal Environmental Impact** – No high-temperature steps, reduced emissions, and no wastewater used – limited permit requirements
- **Cost-Effective** – Lower **CAPEX and OPEX** with simplified, high-efficiency operations
- **Scalable Solution** – A 20-ton/day capacity battery production line can be delivered within 50 days (excluding shipping) from the decision date. The production line requires a 500 sqm area
- **Direct Battery-Grade Material Output** – Seamless integration into lithium battery supply chains



Dry Low Temperature Dismantling Process

- **Fully enclosed, automated and inert gas protected**
- Eliminates the need for high-temperature pyrolysis (650°C+) and significantly reducing energy consumption
- Achieves **99% black mass recovery** (vs. industry avg. <96%) with impurity levels **below 0.5%** (vs. industry avg. >3%)