

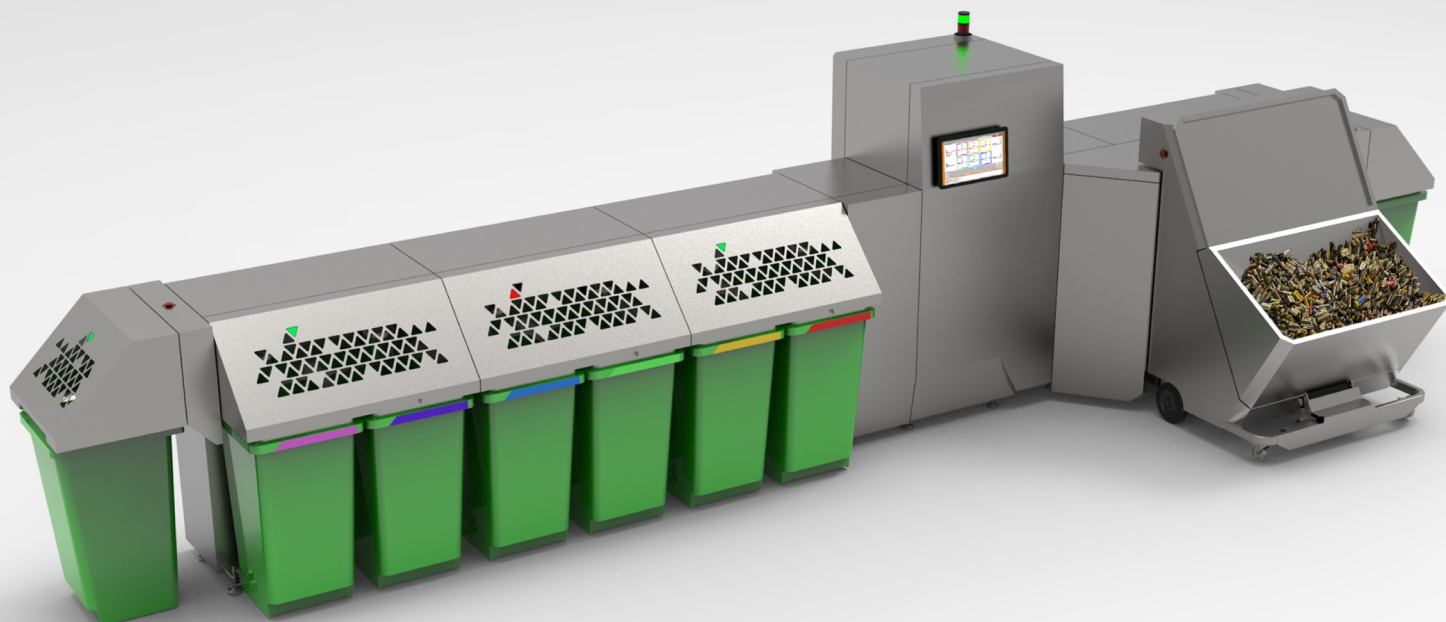
BATTERY ZETA

Intelligent Battery Classification by True Chemistry



BATTERY™ ZETA series is the next-generation solution for precise battery sorting by internal composition.

Designed for industrial recyclers, it enables the recovery of valuable resources by revealing the true chemistry inside every battery.



KEY FEATURES

- Base mode: 6-group classification
- Over 98% accuracy for Ni-Cd vs Ni-MH
- Sorting capacity up to 430 kg/h
- 99.5% accuracy for alkaline and Zn
- Operator-friendly with minimal maintenance
- Handles damaged, corroded, unmarked batteries
- Lithium-ready architecture (optional)



X-ray based multi-sensor detection system



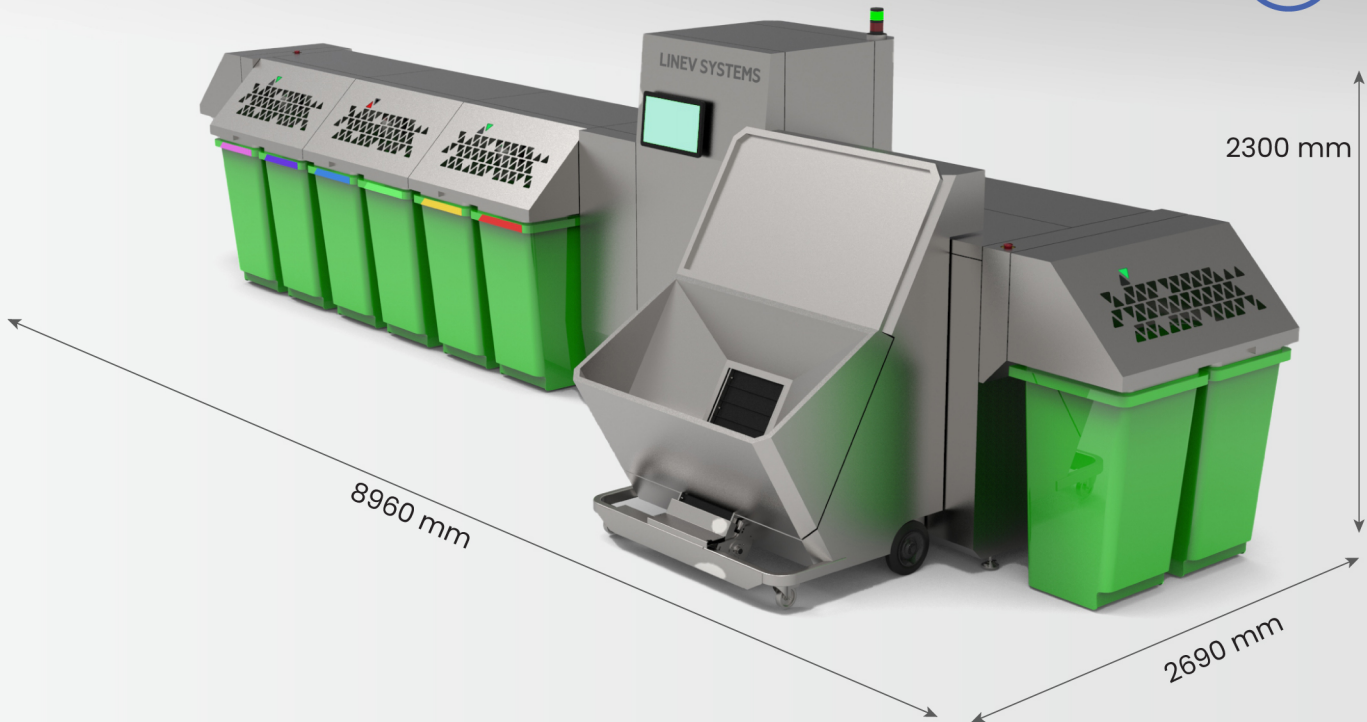
Intelligent classification using deep learning algorithms



Built-in self-calibration and adaptive inference engine



Modular integration among existing BATTERY installations



SPECIFICATION

Productivity	up to 18 000 batt/h
Throughout capacity	up to 430 kg/h
Loading capacity	250 L
Sorting accuracy	99,5 % - Zn, Alk 98 % - Other
Installation footprint	15 x 9 m
Dimensions	8 960 x 2 690 x 2 400 mm
Weight	2 500 kg
Power supply	220-240V, 50/60Hz, 4kVA
Operation temperature	+10 °C... + 40 °C

OPERATION

On filling the loading hopper, the batteries are moved to the conveyor to separate small garbage, electrolyte dust, battery parts and small miniature batteries.

The batteries are then moved along the conveyor, passing through the detection system, the batteries located on the conveyor belt are analyzed AI-driven x-ray system, after which battery is assigned to certain group.

The identified batteries are dumped from the conveyor into the appropriate container using pneumatic injectors. Any batteries that can not be sorted for any reason are directed to separate container for re-sorting.

SORT MAP

System supports popular battery types like 18650, 21700, and sizes from 27A to D-Type. All sorting groups showed below.

