

APPLICATION NOTE

RELIABLE DETECTION OF FERROMAGNETIC CONTAMINATION IN NON-FERROUS METAL SCRAP

MAGNETOMAT reliably detects and localizes hidden ferromagnetic contamination in non-ferrous metal scrap, enabling automated evaluation and sorting.



THE CHALLENGE

When recycling non-ferrous metals, hidden ferromagnetic contamination such as steel parts or wires must be reliably detected and localized, even in compacted scrap and at high throughput. Magnetic interference from the industrial environment must also be considered.

THE SOLUTION

The scrap passes through a magnetized inspection zone, where field and gradient probes reliably detect and localize ferromagnetic objects. MAGNETOMAT 1.790 processes the measurement signals and evaluates contamination based on defined thresholds for subsequent marking or sorting.



THE RESULT

Ferromagnetic contamination can be reliably detected and localized directly within the recycling process, even inside compacted scrap. Contaminated material can be automatically evaluated, marked or sorted, while measurement data remains available for quality assurance and analysis.

THE PRODUCTS

MAGNETOMAT

PC-supported magnetometer for measuring magnetic flux density and relative permeability



MAGDATA SOFTWARE

Software Solutions for Data Transfer, Analysis and HotSpot Evaluation



PROBES AND SENSORS FOR MAGNETOSCOPI & MAGNETOMAT

Flexible Solutions for Magnetic Field and Permeability Measurements



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