

MAGNET SEPARATOR

for removal of ferrous metals from Reject & Residual streams



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Technology

The Overband Conveyor Magnet Separator is a type of electromagnetic separator used to extract ferrous metals from mixed reject and waste streams.

It is mounted above a conveyor belt carrying reject and/ or residuals, a powerful magnetic field pulls out ferrous metals (iron, steel, scrap) from the waste stream, these separated metals are discharged away from the main flow via a self-cleaning belt system. The technology reduces contamination, allows recycling of metals, and protects downstream equipment (like shredders, screw compactors etc.).

Features

- Continuous Automatic Separation: Self-cleaning belt removes ferrous materials without manual intervention.
- Strong Magnetic Field: High efficiency in capturing even small ferrous pieces.
- Robust & Durable: Handles abrasive, dusty, or heavy waste conditions.
- Versatile Installation: Can be mounted over conveyors in various configurations.
- Low Maintenance: Field Electric Magnet types need almost no maintenance.
- Customizable: Available in different sizes, magnetic strengths, and configurations.
- Safety & Reliability: Prevents metallic hazards in processing equipment.

Why to buy

- Protects Equipment: Prevents breakdowns and costly repairs by removing ferrous metals before they reach shredders, grinders, or sorting lines.
- Enhances Efficiency: Ensures smoother downstream processing with less contamination.
- Maximizes Recovery: Recovers valuable ferrous scrap, adding a revenue stream.
- Compliance & Quality: Produces cleaner recyclables or burnables (plastic, glass, RDF, compost) that meet quality standards.
- Adaptable Across Industries: Municipal solid waste (MSW), refuse-derived fuel (RDF), biomass, C&D waste, scrap yards, and recycling plants.



Typical & Proven Process Applications

- Removal of ferric metal contaminants from Reject streams before and after shredding
- Removal of ferric metal contaminants from Reject streams before screw compacting (de-watering)
- A Conveyor Belt Magnet Separator (Overband) is a robust, low-maintenance, and highly effective solution for ferrous metal recovery and machinery protection in reject and residual treatment plants. It is worth buying because it improves process safety, reduces downtime, recovers valuable metals, and ensures cleaner output streams

See as well the following Products

- Meri Belt Conveyor
- Lion Shredder
- COMPAX screw compactor Series
- ECOMPAX and Minipress
- MSC Meri Screw Conveyors
- RSP Sludge and Residual Press

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