

SMART RECYCLING MACHINES



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RUGGED RELIABLE RECOVERY

SMART RECYCLING



IMPROVING PROFITS & PROTECTING THE ENVIRONMENT

Eriez recycling equipment is designed to process waste efficiently and economically. Our machinery can handle every kind of material from municipal solid waste, shredded vehicles and waste electrical and electronic equipment (WEEE) to crushed glass, plastic (PET), foundry sand and more.

Eriez Europe is the European manufacturing, design and laboratory headquarters. Our UK base has over 3500m² of manufacturing space and a fully equipped test centre, where customers' samples can be tested on our complete range of machinery. Our proven quality management systems are certified to ISO9001:2015.

EDDY CURRENT SEPARATORS

Eriez eddy current separators separate valuable non-ferrous metals from all waste types, including household refuse (MSW), crushed glass, shredded wood, secondary metals, PET flakes, electronics waste (WEEE), incineration ash, and many other resources.

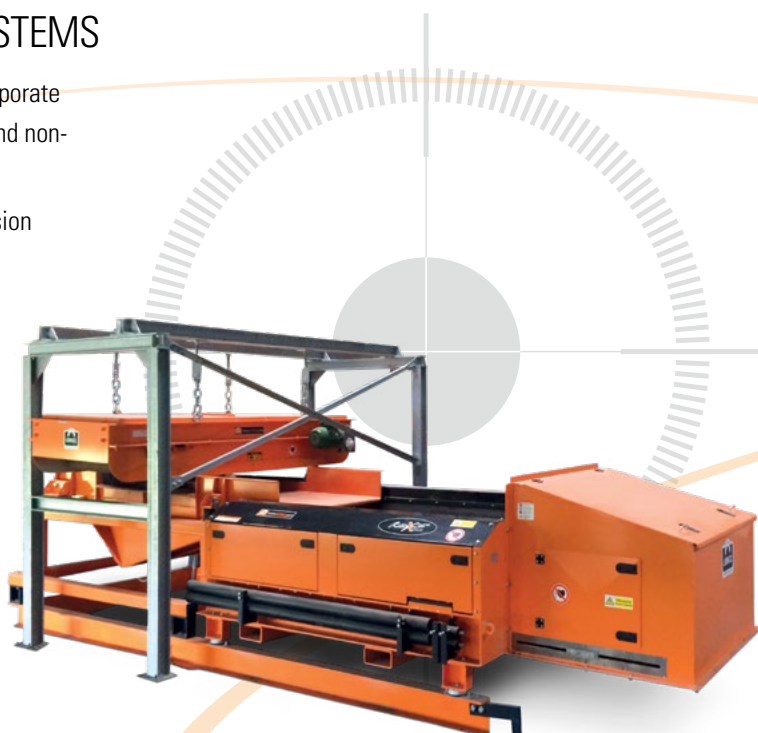
- Magnetic configuration and design to suit a range of application types, from coarse to ultra fine
- Robust and reliable
- Ease of maintenance



EDDY CURRENT SEPARATOR MODULAR SYSTEMS

Eriez Eddy Current Separator modular systems are designed to incorporate additional separators into a standalone system capable of ferrous and non-ferrous metal recovery from different waste streams.

- Options for overband magnet and magnetic drum separator inclusion
- Dual stage recovery
- Ease of installation



POKERSORT®

Eriez PokerSort® extracts long troublesome 'pokers', such as automotive leaf springs, tie rods and steering components, directly after the shredder and before the scrap drum magnet. As pokers reach the end of the conveyor, they are magnetically pulled over the PokerSort® into a chute and collected in a bin or bunker.

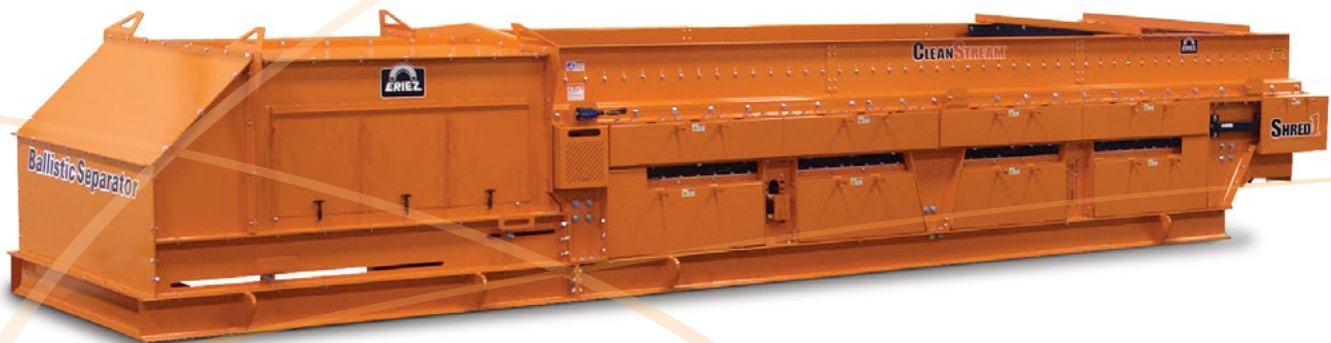
Available in various sizes, PokerSort® can be retrofitted to work with existing ferrous processing set-ups.



SCRAP DRUM SEPARATORS

Eriez provides a diverse range of electro and permanent magnetic scrap drums to automatically remove heavy ferrous metal during scrap metal processing.

The range includes the Eriez P-Rex®, a super-strong rare earth drum magnet that is typically 40% stronger than standard scrap drums. It features a wider pick-up zone and an optional traction plate drum wrap for improved cleaning action.



SHRED 1™

The Shred1™ ballistic separator picks out the premium low-copper shred from the flow of mixed metals and waste material after it has passed the drum magnet.

- Delivers a premium low-copper ferrous product
- Produces a traditional mix of shredded metal
- Increases the value of the ferrous component in waste material



OVERBAND MAGNETS

Suspended magnetic separators are positioned over conveyor belts or chutes to remove unwanted and potentially damaging iron contamination (tramp iron) from transported materials.

- Option of permanent magnet or electro-magnet
- Manual or self-cleaning
- Easily installed or retrofitted into existing plants



ELECTROMAGNETS

Suspended Electro Magnetic Separators (SE Magnets) are typically installed above conveyor belts to remove large pieces of tramp metal that represent a hazard to downstream equipment such as crushers, mills, pulverisers and grinders; or to remove sharp metal that can damage or tear expensive conveyor belts, especially at transfer points.

- Reliable and durable construction
- Robust design for 24/7 operation
- Manual and self-cleaning models



MAGNETIC PULLEYS

Powerful magnetic pulleys are used to automatically separate tramp iron and fine iron contaminants from materials on a conveyor.

- Available for various belt speeds and widths and depths of material flow
- Easily installed or retrofitted into existing systems
- Available with or without rubber lagging



MAGNETIC DRUMS

Permanent drum magnets efficiently separate ferrous contaminants from the product flow.

- Available in different magnet configurations and sizes
- High volume throughput
- Improved separation compared to pulleys
- Automatic self-cleaning and low maintenance



METAL DETECTORS

Eriez metal detectors protect shredders and granulators from potentially damaging fragments of metal (tramp metal). Available in a wide variety of configurations, they suit any processing set-up.

- **MetAlarm MA6600** – for the protection of granulators with flat belt widths up to 600mm
- **MetAlarm MA3000-3500 Series** – for belt widths over 600mm (flat or troughed) and high burden depths
- **MetAlarm MA3600 Series** – ranging from 2% sensitivity (Eagle model) to 5-20% sensitivity (Hawk model) of aperture height
- **EZ Tec 9000 Series** – available as rectangular (R) or divisible aperture (RD) with sensitivity as low as 1% of aperture height



METAL SEPARATORS

The Eriez Tri-Sep Station incorporates an Eriez 9100 Metal Separator, PM grate magnet, volumetric vibratory feeder and lightweight manoeuvrable frame.

- Perfect for customers who process granulated materials such as glass or plastics
- Offers a low-cost, compact and time efficient solution for bulk sample processing
- Ideal for use in lab and quality control applications
- Supplied as module or individual products



METAL LOSS MONITOR

The metal loss monitor MLM is an instrument that allows scrap yard operators to measure and track the amount of metals being lost to the waste stream over a specific period of time.

- Provides hand-picking feedback to plant operators
- Indicates a process problem has developed
- Helps quantify and reduce metals sent to landfill



VIBRATORY FEEDERS

Vibratory feeders use vibration to 'feed' material into a process or machine, distributing the material evenly to improve the separation process. Eriez' range of mechanical and electro-magnetic feeders are fast feeding and can cope with the heaviest flows.





ERIEZ RECYCLING



THE RIGHT EQUIPMENT EVERY TIME

Eriez Europe recycling test centre enables customers to determine which combination of equipment is the best fit for their waste processing needs.

The centre is equipped with our full range of recycling machinery, including separation, vibratory feeding and metal detection equipment. It can handle bulk samples of any material, from coarse to very fine, and complements our equally well-equipped laboratory and testing facility.



EFFICIENT TESTING SERVICE

The centre uses samples provided by the customer to conduct feasibility tests with various equipment combinations, based on a detailed analysis of the customer's requirements. Performance tests are used to confirm the machinery and settings and make a profitability assessment. A concise report is produced indicating the expected quantities and grade of recovered material as well as the most suitable equipment configuration.



TEST CENTRE



Customers are most welcome to visit and watch their product samples being tested.



ERIEZ' WORLDWIDE NETWORK OF MANUFACTURING, SALES & SERVICE



Manufacturing Affiliates in: Australia, Brazil, Canada, China, India, Japan, Mexico, South Africa, United Kingdom, USA



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