

ERIEZ



RECYCLING

EQUIPMENT FOR THE RECYCLING INDUSTRY



ERIEZ
GLOBAL LEADER IN SEPARATION TECHNOLOGIES

About Eriez

Established in 1942, Eriez stands as a pioneering force in separation technologies, embodying a truly global presence.

With 12 wholly owned subsidiaries spread across the globe, we proudly design, manufacture, and support our magnetic separation, flotation, metal detection, and material handling equipment on an international scale.

Our dedicated team of knowledgeable and experienced sales engineers collaborates closely with customers, understanding their unique challenges to deliver dependable, high-performance equipment, systems, and solutions.

Whether clients require our standard equipment or bespoke solutions tailored to their precise specifications, Eriez delivers.

Drawing from more than 80 years of experience across diverse industries, including mining and minerals processing, food processing and packaging, aggregates, metals recycling, and many other sectors, Eriez leverages its extensive experience to design and supply products that elevate productivity, efficiency, and product purity.

Eriez remains steadfast in its commitment to setting the global standard for excellence in key technologies, driving innovation and reliability across industries worldwide.

Metals Recycling

Maximize metal recovery with cutting-edge separation technology, efficiently sorting ferrous and nonferrous metals.

Coarse Material to Fines Recovery

Eriez' metal recovery equipment, either as individual units or complete systems, is designed for efficient and economical processing of municipal solid waste, comingled recyclables, shredded automobiles, electronic scrap, glass cullet, plastic (PET), foundry sand and many other resource recovery operations. Eriez equipment is helping to achieve better recovery and a higher-grade product while delivering it at a lower cost per ton.

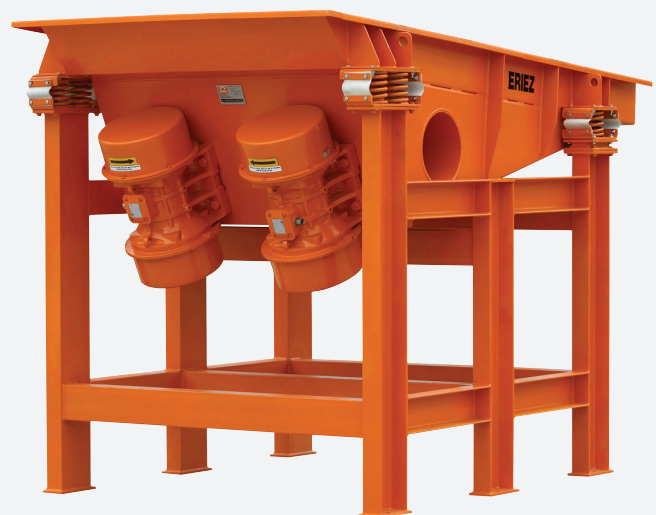
Material Handling

Eriez offers a broad range of vibratory feeders and conveyors to handle almost any dry bulk solid material. Whether your application requires the precise control of an electromagnetic feeder to meter plastic regrind or the vibratory power of a mechanical feeder to spread and singulate materials to your sorters.

- Comingled Recyclables
- Plastic (PET)
- Municipal Solid Waste
- Electronic Waste
- Glass Cullet
- Bottom Ash
- Foundry Sand

Feeders

Eriez offers three styles of heavy-duty vibratory feeders designed specifically for high volume rugged environments. Whether you are presenting conveyed material to separation equipment or you need to accurately feed tons of material under a high headload, Eriez has a feeder solution to match your application.





Non-Ferrous Metal Recovery & Sorting

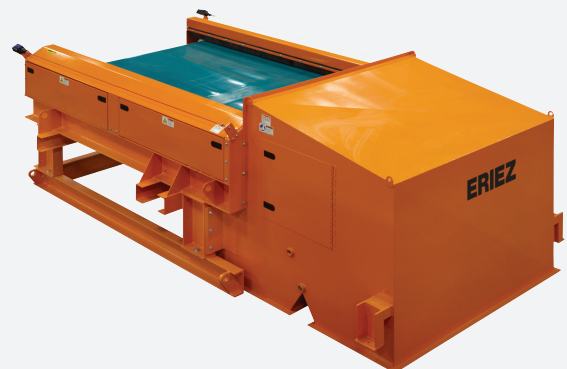
Eriez' non-ferrous metal recovery equipment sorts and separates non-ferrous metals in a variety of applications.

Applications

- Comingled Recyclables
- Plastic (PET)
- Scrap Recycling
- Electronic Waste
- Materials Recovery Facility
- Municipal Solid Waste
- Bottom Ash
- Construction & Demolition
- Glass Cullet

Eddy Current Separator

Eriez patented both permanent magnetic and electromagnetic eddy current separators. Today, these powerful systems feature improved permanent magnetic circuits with rare earth magnetic material for stronger eddy currents and improved separation of non-ferrous materials. The magnetic configuration and construction are suitable for a variety of application types, from coarse to ultra-fine.



Stainless Steel Separator

Eriez' Stainless Steel Separator extracts stainless steel and weakly magnetic metals from Zurik and wire fractions sized 2" or smaller. In addition to being a valuable commodity, stainless steel can escape upstream separation and cause damage to wire chopping and processing equipment. Typically, stainless steel has been recovered using expensive sensor sorting technology. Using an Eriez Stainless Steel Separator, most stainless can now be effectively recovered much more economically.



FinesSort® Separator

Eriez' FinesSort® Metals Recovery System uses powerful magnetic components to recover valuable ferrous and nonferrous metals from the fines waste stream in scrap yards. This system not only reduces the amount of waste destined for landfill, but reclaims thousands of valuable pounds of metals per day.



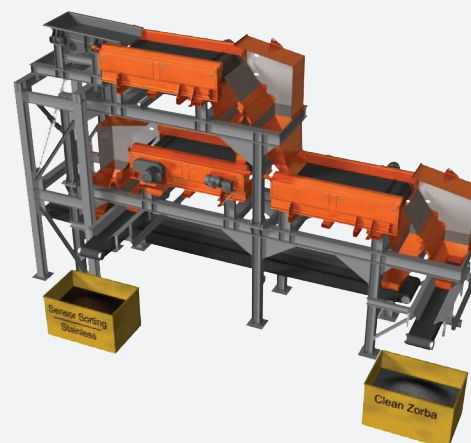
ProSort Airless Metal Recovery

Eriez' ProSort systems improve metal recovery from waste streams while operating at a fraction of the cost of air-powered metal separators. Low operating and maintenance costs.



Rougher Cleaner Scavenger (RCS)

Positioned downstream of ferrous separation equipment Eriez' RCS Rougher, Cleaner, Scavenger nonferrous processing system employs three Eddy Current Separators in a specific sequence to produce a high-grade zorba while maximizing recovery. This type of RCS system has been used successfully in high-value mineral processing and mining operations for decades.





Ferrous Metal Recovery & Sorting

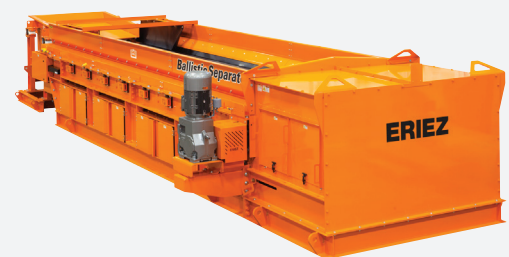
Eriez' metal recovery and sorting equipment uses permanent magnets and electromagnets to sort, separate and retrieve metals in applications from municipal solid waste to foundry sand reclamation.

Applications

- Municipal Solid Waste
- Plastic (PET)
- Electronic Scrap
- Glass Cullet
- Shredded Automobiles
- Comingled Recyclables
- Foundry Sand

Shred1™ Ballistic Metal Separator

The Shred1™ uses ballistics to efficiently separate iron-rich ferrous from much of the mixed metals post-drum magnet flow. This separator delivers two distinct fractions: a premium low-copper ferrous product (in the range of 0.16-0.20% cu) and a traditional #2 shred.



Dynamic Pulley Separator

The Dynamic Pulley Separator uses a Rare Earth permanent magnetic pulley rotating at an off-set speed from the belt causing an agitating magnetic field. The combination of powerful rare earth magnetic field with the agitating action allows entrapped steel and weakly magnetic material to be liberated from nonferrous materials. This improves ferrous recovery or removal and allows nonferrous material to report to downstream equipment.



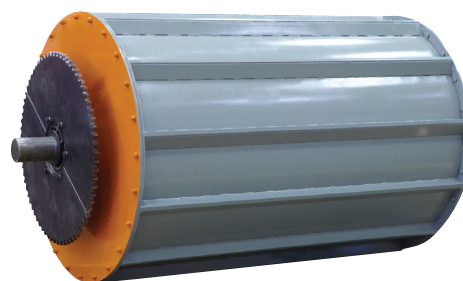
PokerSort Metal Separator

The innovative PokerSort helps alleviate issues caused by long rod-like pieces typically over 24 inches in length, commonly referred to as pokers, that can damage downstream equipment in automobile and other metal scrap operations. Utilizing a special magnetic drum positioned at the end of the shredder discharge belt, Eriez' innovative PokerSort separates pokers as they catapult off the end of the belt with a different trajectory than the rest of the shredded material or "frag."



Magnetic Scrap Drums

Using our sophisticated design software and unique magnetic circuits, Eriez provides permanent and electromagnetic scrap drums with deeper magnetic fields to reclaim ferrous materials in automotive shredder residue (ASR), materials recovery facilities (MRF), municipal solid waste (MSW), scrap metal yards, wood waste, slag, incinerator bottom ash, foundry sand and minerals processing applications.



Magnetic Pulleys

Eriez provides a uniform permanent magnetic pulley that will transform your belt conveyor into a powerful self cleaning magnetic separator. The axial interpole magnetic circuit provides a uniform magnetic field to remove tramp iron from material on almost any belt conveyor.



Suspended Electromagnets

The Suspended Electromagnet provides tramp metal collection from conveyed materials. The electromagnet is typically mounted or suspended over a conveyor belt to remove large pieces of tramp metal that represent a hazard to downstream crushers, mills, pulverizers and grinders.



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HEADQUARTERS

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Note: Some safety warning labels or guarding may have been removed before photographing this equipment. Eriez, Eriez Flotation and Eriez Magnetics are registered trademarks of Eriez Manufacturing Co., Erie, PA.

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