

ERIEZ



FERROUS RECOVERY & SORTING EQUIPMENT

SHREDDED SCRAP • MUNICIPAL SOLID WASTE • ELV

ELECTRONIC SCRAP • PET • FOUNDRY SAND • RDF • BOTTOM ASH • C&D



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

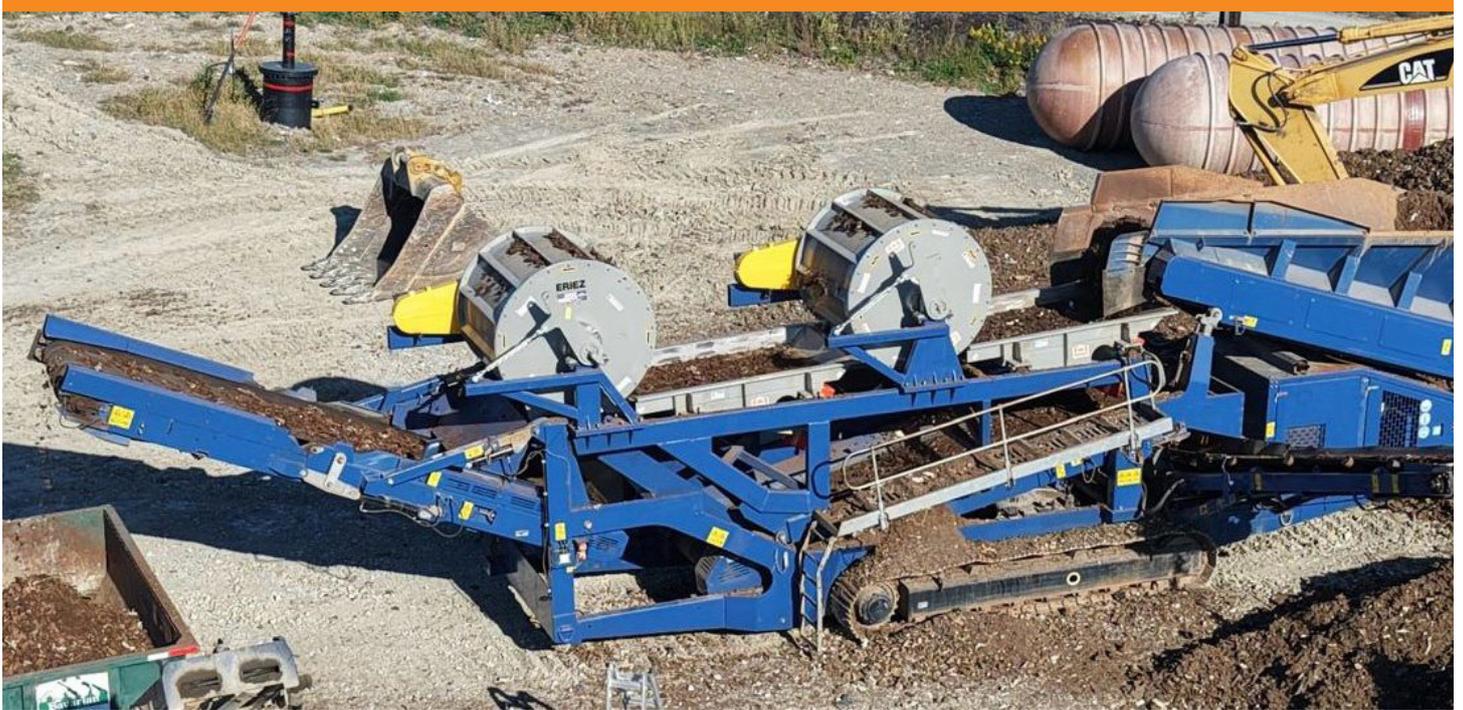
Our dedicated team of knowledgeable and experienced sales engineers collaborates closely with customers, understanding their unique challenges to deliver dependable, high-performance equipment, systems, and solutions.

Whether clients require our standard equipment or custom 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.

Ferrous Recovery & Sorting Equipment



Whether removing ferrous material from bulk flows or recovering valuable metals from complex waste streams, Eriez technology ensures consistent performance and long-term reliability.

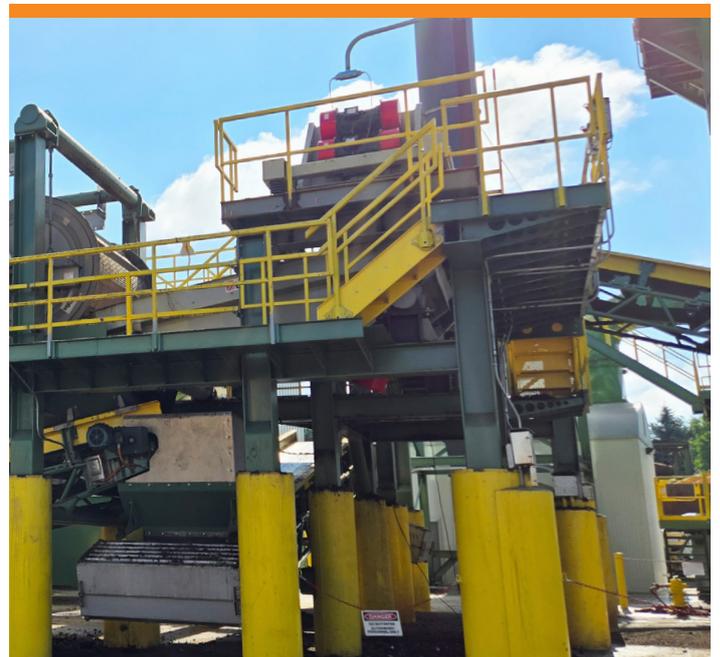
Eriez offers a line of ferrous recovery and sorting equipment designed to get the maximum value from recovered metals while ensuring efficient separation from waste streams. These systems deliver high-strength magnetic separation and robust durability while requiring very little user maintenance.

Tramp Metal Removal & Scrap Processing Solutions

Eriez' tramp metal removal and scrap processing solutions are central to recovering value from complex, high-volume waste streams. Consistent and continuous removal of ferrous metal helps provide a more stable material flow through shredding, screening, and separation stages.

Cleaner feed streams improve the efficiency of downstream processes and reduce contamination in recovered plastics and nonferrous fractions, decreasing unplanned downtime and reducing the strain on processing equipment.

By increasing metal recovery while lowering operating costs and landfill volume, these solutions help processors convert diverse waste streams into dependable sources of raw material and long-term profitability.



Magnetic Scrap Drums



Eriez Magnetic Drum Separators are available in electro, permanent, or rare earth magnetic elements. Agitating poles provide a cleaner product while radial poles provide a higher recovery. Eriez has the right magnet for any application.

Designed for minimal maintenance, the drum shell that contacts the ferrous material is made of heavy manganese steel and is abrasion resistant for extended operating life. There is no scheduled maintenance on the drum separators other than the occasional lubrication of only two heavy duty bearings and the optional drive chain.

Eriez drum separators are completely enclosed. This prevents pieces of iron from jamming internally and stopping standard operations. Outdoor installation with exposure to the weather presents no problems.

The compactness of the drum separator and shaft clamp mounting blocks simplifies installation either by suspension or support from below. The rotation of the drum shell automatically elevates recovered metal to a higher level than the feed point, gaining valuable head room and elevation.

Advantages

- Multiple configurations available
- Agitating or radial poles available
- Robust design
- Low maintenance

Features

- Thick manganese steel shell
- Optional wear wrap and traction pads
- Fabricated heavy duty end flanges with 76 mm (3") or 152 mm (6") high side skirts
- Heavy duty sealed bearings
- Optional drive package
- Suspension or base mount
- Insulated round or anodized strip conductor available
- Electromagnetic coils warranted for three years

Shred1 Ballistic Metal Separator



Shred1® from Eriez uses a combination of magnetics and ballistics to efficiently separate copper-bearing ferrous material from low copper fractions. The low copper fraction represents 75% of the flow and typically contains less than 0.2% copper. This material reports directly to the stack conveyor as a finished product.

The copper-rich fraction (#2) reports to a picking station where copper-bearing material is removed. The #2 product represents only 25% of the total material flow, so fewer pickers are required. Copper pickings typically increase due to the reduced flow of material.

Fraction #1

The first fraction is a high value, low-copper ferrous product worth considerably more than a traditional #2 grade fraction. Demand for this premium product is on the rise.

- Produces low-copper shred
- 70-80% of flow
- Contains less than 0.2% copper

Fraction #2

This second fraction represents less than 25% of the flow and contains mostly mixed metals, copper/steel housings or cores. Hand sorting can now be accomplished with relatively few pickers, and increased copper recover can also be realized.

Advantages

- Produces a premium #1 copper shred <0.2% CU
- Reduces picking labor
- Removes concealed copper

Features

- 1,524 mm (60") or 1,829 mm (72") widths available
- 115 –135 tonnes (125–150 tons) per hour capacity
- Belt trainer and belt alignment switches
- Permanent Magnetic Head Pulley for consistent copper shred

Magnetic Pulley

Magnetic Pulleys provide continuous automatic removal of iron from materials conveyed on belts. When iron material comes within the pulley's magnetic field, it is attracted and held to the belt until it passes out of the magnetic field and is separately discharged. Nonferrous material is sent over the pulley in a normal trajectory.

Eriez pulleys are constructed of steel center tubes with welded dividers to securely hold magnet stacks – built for use in demanding applications involving extra-long conveyors, heavy loads, or start–stop operations.

Advantages

- Powerful and reliable
- Uniform magnetic field
- Long service life in rigorous settings
- Heavy duty welded construction
- Automatic separation of heavy iron from conveyor-transported materials



Dynamic Pulley Separator



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

Features

- Removes weakly magnetic material from the process stream
- Agitating action maximises ferrous recovery, providing cleaner product
- Modular design
- Continuous head pulley operation
- From 1016 to 1524 mm (40" to 60") wide

Suspended or Overband Magnets

Suspended (Overband) Magnets are designed for applications where ferrous materials are to be removed from bulk process streams on a moving conveyor belt.

Permanent Magnets

This series utilizes a permanent magnetic circuit to provide a continuous and uniform magnetic field across the feed belt for optimal separation efficiency of ferrous materials. The self-cleaning option provides for an automatic removal of metal.

- Low operating costs and simple installation
- Powerful permanent magnet requires no power
- Uninterrupted magnetic protection
- Recommended suspension heights of 200–300 mm (8–12 inches)
- Hydraulic drive options available for portable systems



Electromagnets

For more demanding applications, an even stronger electromagnetic may be required. Eriez uses advanced multidimensional finite element analysis to model each magnetic circuit, ensuring optimum performance. These electromagnets efficiently remove ferrous metals in recycling applications. Eriez offers a variety of electromagnetic configurations including oil and air-cooled, round or rectangular core magnets.

- Purpose-built for metal removal over conveyors
- Patented oil expansion system manages heat and extends coil life
- Constructed for heavy duty, continuous use
- Multiple sizes and custom options to match operation needs

PokerSort

Eriez' PokerSort[®] extracts troublesome pokers like automotive leaf springs, tie rods, steering and axle components, and other generally uncooperative long shapes from the shred before reaching the drum magnets. As pokers exit the shredder, alignment guides on the incline conveyor position poker-type objects parallel in the flow. As they reach the end of the conveyor, they extend beyond the conveyor and are magnetically pulled over the PokerSort into a chute or conveyor belt and are collected in a bin or bunker.

Advantages

- Reduces belt maintenance and repair
- Improves the quality of shredded scrap
- Incorporates rare earth magnets to hold pokers on the drum, increasing recovery

Features

- Heavy duty belt-driven design
- Commonly handles pieces over 610 mm (24") long
- Widths from 914 to 2,438 mm (36" to 96") available



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