



# Recycling

EQUIPMENT FOR THE RECYCLING INDUSTRY







### 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.

### Ferrous Magnetic Separation

Eriez' ferrous process sets a new standard in scrap metal separation. The process begins with **PokerSort**<sup>®</sup> to remove troublesome poker, uses the super strong **P-Rex**<sup>®</sup> permanent rare earth drum magnet to maximize ferrous extraction while loosening and removing waste, and then automatically concentrates the ferrous product into a low-copper premium shred through the **Shred1**<sup>®</sup> Eriez' ballistic separator.

### Nonferrous Metal Sorting

Magnetic and sensory equipment is specifically designed to optimize the recovery of different metals and mixed metal fractions to maximize their value. Eriez' innovative products make nonferrous metal recovery and sorting easy while maximizing your profits.





# 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
- Comingled Recyclables
- Shredded Automobiles
- Electronic Scrap
- Glass Cullet
- Plastic (PET)
- Foundry Sand



### Electro Drum Magnetic Separator

- Deep magnetic field
- High volume, heavy duty applications
- Agitating design provides cleaner ferrous
- Long service, low maintenance
- Available in multiple sizes



### Permanent P-Rex® Drum Magnet

- 40% stronger during operation
- Wider pick-up zone
- Optional Traction Plate™ Drum Wrap improves cleaning action
- No heat-induced strength loss
- No power required



### Shred1® Ballistic Separator

- Uses ballistics to separate ferrous
- Delivers two fractions:
  - Premium low-copper ferrous product
  - Traditional #2 shred
- Concentrates 75% of the post drum magnet flow into low-copper shred
- Reduces need for hand picking



### PokerSort®

- Extracts troublesome pokers from shred
- Uses Eriez' drum magnet technology
- 18" (457mm) diameter
- Available in a range of sizes from 36" to 96" (914mm to 2438mm)



### Magnetic Pulleys

- Attracts iron from nonmagnetic materials conveyed on a belt
- Easy installation
- Self-cleaning operation
- 8" to 36" (203mm to 914mm) in diameter
- Belt widths from 8" to 60" (203mm to 1524mm)
- Permanent and Electro models available



### Suspended Electromagnet

- Removes damaging tramp iron in heavy burden depths
- Deep reach
- 5-year coil warranty



### Dynamic Pully Separator (DPS)

- Removes unwanted ferrous from product flows
- Use with weaker magnetic drums to recover ferrous nuggets from ASR stream
- Use with and ahead of eddy currents to maximize nonferrous recovery

# Nonferrous Recovery & Sorting

Eriez' nonferrous metal recovery equipment sorts and separates nonferrous 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



### RevX-E® Eccentric Rotor Eddy Current Separator

- Separates nonferrous metals
- Eccentric rotor produces powerful, focused field
- Cantilever design enables quick belt change
- Compact design requires less space
- Adjustable rotor position
- Easy service with access panels



### Ultra High-Frequency Eddy Current Separator

- Ultra High-Frequency Rotor
- High surface gauss for superior separation
- Large number of frequency changes
- Rotor spins at higher RPM
- Carbon fiber shell
- Precise fines splitter adjustments



### ProSort II

- Airless Metal Recovery System
- No air compressor plant required
- Sensor-activated paddles deflect detected metals
- Double the sensors on one-inch centers
- Better recovery of heavies and lights



### FinesSort®

- Separates ferrous fines
- Three products:
  - Clean ferrous
  - Small Nonferrous
  - Waste
- Recover metals less than 1" in diameter
- Powerful magnetic circuits

**Our 30,000 sq ft expansion houses Eriez Recycling Test Center. Learn more at [Eriez.com/RecyclingTestCenter](http://Eriez.com/RecyclingTestCenter).**





# Material Handling

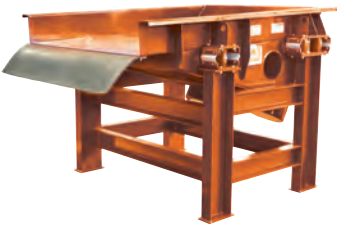
Eriez offers a broad range of vibratory feeders and conveyors to handle almost any dry bulk solid material. Whether your application requires the precise control of an electromagnetic feeder to meter plastic regrind or the vibratory power of a mechanical feeder to spread and singulate materials to your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

## Applications

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



## Feeders



### Brute Force

- Rugged, high capacity feeders
- Mechanical design
- Available in multiple sizes
- Fast feeding
- Ideal for spreading material



### Electromagnetic Feeders

- Heavy-duty
- Base or Suspension mounting
- Minimal maintenance
- Superior feed control
- Excellent isolation of vibration



### Mechanical Feeders

- High volume, bulk material feeders
- Low-profile, compact design
- Fast feeding
- Excellent isolation of vibration

## Eriez Service & Repair Rebuild – Parts – Service



- 24/7 Service Hotline
- Original OEM Parts
- On-Site Field service
- Equipment Re-manufacturing
- Full "As New" Warranties



Technicians provide preventive maintenance evaluations and emergency repair service.



# ERIEZ

**GLOBAL LEADER IN SEPARATION TECHNOLOGIES**

**HEADQUARTERS**

2200 Asbury Road • Erie, PA 16506-1402 U.S.A.  
1-814-835-6000 • eriez@eriez.com • www.eriez.com



**AUSTRALIA**  
Epping, Victoria  
+61 3 8401 7400



**BRAZIL**  
Belo Horizonte, Minas Gerais  
55 31 3281 9108



**CANADA**  
Delta, British Columbia  
+1 604-952-2300



**CHILE**  
Las Condes, Santiago  
56 2 29523400



**CHINA**  
Qinhuangdao and Tianjin  
86-22-8390-4608



**GERMANY**  
Recklinghausen  
+49 (0)160 94179313



**INDIA**  
Athipet, Chennai  
91-044-2652-5000



**JAPAN**  
Urayasu, Chiba  
+81-47-354-6381



**MEXICO**  
Querétaro, Tlalnepantla  
52 555 321 9800



**PERÚ**  
Surco, Lima  
51 1 719 4150



**SOUTH AFRICA**  
Boksburg, Gauteng  
27-11-444-9160



**UNITED KINGDOM**  
Bedwas, Caerphilly  
44-29-2086-8501



**UNITED STATES**  
Erie, Pennsylvania  
1-814-835-6000



*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