**Metal Separation**

Eriez is the world leader in advanced separation technology involving magnetic equipment. Equipment features in the Eriez line are designed to meet the needs of today’s materials handling industry and all applications seeking the best in reliable, efficient, and cost-effective separation and separation processes.

**Manufacturing Facilities:**
- AUSTRALIA
- BRAZIL
- CANADA
- CHINA
- INDIA
- JAPAN
- MEXICO
- SOUTH AFRICA
- UNITED KINGDOM
- UNITED STATES

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**Home to the broadest range of metal detectors in the industry.** Whether it's tiny ferrous or nonferrous metal contaminants, tramp metal or digger teeth, Eriez has a metal detector to solve practically every metal contamination problem.

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**Solutions include vibratory, mechanical and magnetic conveyors, screeners and feeders.** Material quantities range from a few spoonfuls to tons per hour. Screeners include high capacity gyratory units for high viscosity liquid/solid separation and wet or dry classification.

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**Metal Separation**

**PRODUCT SELECTION GUIDE**

**MAGNETIC SEPARATORS • METAL DETECTORS**

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**Removing Unwanted Metal Contaminants**

With Eriez magnetic equipment, product purity is maintained by removing unwanted metal contaminants. In addition, Eriez magnetic separations are easy to implement in existing equipment and conveyors.

**Recycling and Processing Ferrous Materials**

Eriez magnetic separators are used in ferrous metal recycling applications to improve the purity of ferrous metal products generated from scrap applications.

**“Double Team” for the Ultimate Protection**

There’s no better way to safeguard against damaging metal contaminants than double-teaming them with magnetic separation and metal detection.

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**Pull Test Kits**

Available with either a N.I.S.T. certified digital or mechanical scale, these kits provide everything you need to track the strength of your magnets over time.

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**Metal Detection Products Separation Products Material Handling Products**

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**Ready to Ship**

**Metal Detectors**

**Pull Test Kits — Check Magnetic Strength**

Eriez stocks various metal detector aperture heights and stainless steel, wash down conveyor widths for quick assembly and delivery. The variable speed conveyors are available in 6, 12, 18 and 24-inch widths with a food-grade polypropylene belt.

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**EriezXpress™**

Many of Eriez’ most popular magnetic separators, vibratory feeders and controls are stocked and available for next-day shipment.

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**ProGrade Magnets**

Eriez Magnetics offers a full line of low-cost magnetic separators, most are ready to ship. PROGRADE® features magnetic tubes, grates, plates, liquid line traps and grate-in-housings... many available in ceramic, Rare Earth and Xtreme® Rare Earth circuits.
Metal Separation

Eriez is the world leader in advanced separation technology involving magnetic equipment. Separation technologies are used in a variety of industries to remove unwanted metal contamination from materials. This includes metals in food packaging, metal fragments from systems and the production of plastic, metal in construction and mining materials, and metal in waste treatment processes.

Manufacturing, Sales and Service

World Authority in Separation Technologies

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Fax: 814-838-4960 • International Fax: 814-833-3348

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Manufacturing Facilities: AUSTRALIA • BRAZIL • CANADA • CHINA • INDIA • JAPAN • MEXICO • SOUTH AFRICA • UNITED KINGDOM • UNITED STATES

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1014-3M-AHA-PC ERIEZ MANUFACTURING CO ©2014 PRINTED IN USA

Home to the broadest range of metal detectors in the industry. Whether it's tiny ferrous or nonferrous metal contaminants, tramp metal or digger teeth, Eriez has a metal detector to solve practically every metal contamination problem.

Separation includes magnetic plates, grates, and traps, rolls and tubes, drum separators, ferrous traps, magnetic pulleys, nonferrous eddy current separators, and electromagnetic separators designed to remove fine and large tramp iron from various materials while protecting machinery.

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Metal Detection Products Separation Products Material Handling Products

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Metal Detector/Conveyor Quick Ship Program

Eriez stocks various metal detector aperture heights and stainless steel, wash down conveyor widths for quick assembly and delivery. The variable speed conveyors are available in 6, 12, 18 and 24-inch widths with a food-grade polypropylene belt.

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### Tube Magnets
- **Alnico, Ceramic, Rare Earth**: Typically used in areas with dry or liquid applications.
- **Low cost, versatile**: Suitable for traditional methods of industry.

### Dry Magnetic Separator
- **Low Intensity**: Offset tube, compact, low cost, with convenient drawer-style grate.
- **Medium Intensity**: 4- to 12-inch diameter, high separation, builds-up or caking is avoided.
- **Wide range of models and sizes**: Suitable for gravity or 25 psi pressure, with materials in minerals processing.

### Wet Magnetic Separator
- **Wide range of intermediate up to high intensity (RF) cartridge**: Ideal for gravity or 25 psi pressure, with materials in minerals processing.
- **316 Stainless steel**: Available in various diameters and widths.

### Metal Detection Systems - Ferrous/Non-Ferrous/Stainless Steel
- **Electro Magnets**: Ideal for high volume continuous removal, with stainless steel construction.
  - **Reset confirmation**

### Eriez Unique Time and Cost Saving Programs
- **Eriez Xpress Program ProGrade Magnetic Separators**: Next-day to 10-day delivery, metal detector quick ship program, stocked for express shipment of popular products, such as tubes, or retrofit installations.
- **Eriez Aprox Program**: Eriez Aprox Program.

### Tubing Magnets
- **Grate Magnets**: Available in various diameters and widths.
- **Grate-in-Housing**: Ready to install, with stainless steel construction.

### Plate Magnets
- **Hinged Plate Magnets**: Effective for high volume continuous removal, with stainless steel construction.
- **Separate detection circuits**: Available for high volume continuous removal, with stainless steel construction.

### Drum Separators
- **Self-cleaning or self-cleaning**: Effective for continuous removal, with stainless steel construction.

### Pulls Separators
- **High pressure**: For use in 3- or 4-inch diameter pipelines.

### Suspended Magnetic Separators
- **Volumetric flow rates**: Can be adapted to various applications.
<table>
<thead>
<tr>
<th>Product Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tube Magnets</strong></td>
<td>Capable of handling 1-inch diameter tubes where conventional grate</td>
</tr>
<tr>
<td><strong>Grate Magnets</strong></td>
<td>Customized to protect product application.</td>
</tr>
<tr>
<td><strong>Permanent Grate Magnets</strong></td>
<td>316 Stainless Steel multiple tube spacing available.</td>
</tr>
<tr>
<td><strong>Liquid Line Magnet Traps</strong></td>
<td>Separates metals from flowing material.</td>
</tr>
</tbody>
</table>
| **Drum Separators** |article contaminants from either weakly magnetic ores.
| **Pulse Separators** | Typically used in areas low cost, versatile.
| **Suspended Magnetic Separators** | Attracts small and large weakly magnetic contaminants in any length. |
| **Dry Mineral Processing** | Stainless steel construction. |
| **Wet Mineral Processing** | Capacities of up to 120 tph per foot. |
| **Scrap Drum Electro Magnetic Filter** | Designed for convenient product handling. |
| **Eriez Extreme Time and Cost Saving Programs** | Eddy Current Separator for free flowing gravity applications where heavy, non-magnetic media from ball/SAG mill discharge. |
| **Deep Reach** | Detects all metal types. |
| **Rota Metal Detection** | Separates aluminum and other NF metals with or without stand. |
| **MetAlarm** | Detects all metal types with or without stand. |
| **EriezXpress** | Next-day to 10-day delivery. |
| **EriezXpress** | Many products are in stock. |
| **EriezXpress** | Stocked for quick shipment of popular products, such as tubes, plates, grates, traps, suspended magnets as well as feeders, conveyors, and de-ironing systems. |
### Tube Magnets

- Customized to meet specific needs.
- Typically used in areas requiring high magnetic field strength.
- Low cost, versatile for various applications.

### Grate Magnets

- 4- and 6-inch diameter rolls available.
- Tube Magnets Grate Magnets PM
- Sands processing plants benefit from the use of grate magnets.
- Good for separating weakly magnetic ores from non-magnetic materials.

### Grate-in-Housing

- Slowly rotating tube design improves material separation.
- Magnetic tubes built-in to remove ferrous contaminants.

### Multiple Tube Spacing

- Multiple tube spacing and floor openings for enhanced performance.
- Excellent product recovery and floor space utilization.

### Offset Tube

- Designed to reduce lost material and improve magnet surface contact.

### Multi Elements

- Four sizes available: 300- to 1,500 fpm.
- High frequency, high intensity, dry, high purity powder.

### Electromagnetic Filter

- Ready to install, no modifications needed.
- Multiple rotor designs for optimized performance.
- Concentric and eccentric rotors available.

### Wet Drum Magnets

- Wet Low/Medium Intensity (RF) cartridge to remove even the weakest of impurities.
- Unitized radial field magnets designed for easy installation.

### Pneumatic Conveying

- Pneumatic pipe systems available for conveying materials with high density.

### Eriez Unique Time and Cost Saving Programs

- Quick Ship Program: Immediate availability.
- Quick Reject: Immediate delivery.
- Eriez Xpress Program: Express shipment of popular products.
Eriez’ worldwide system of manufacturing, sales and service

World Authority in Separation Technologies
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Metal Separation
Eriez is the world leader in advanced separation technology involving magnetic equipment. Equipment features in the Metal Separation products group include a broad range of magnetic separators designed to remove unwanted or foreign material from a wide variety of materials. Eriez equipment is designed to be adaptable or customized to meet individual customer needs.

Metal Detection Products
Home to the broadest range of metal detection in the industry. Whether it’s tiny ferrous or nonferrous metal contaminants, tramp metal or digger teeth, Eriez has a metal detector to solve practically every metal contamination problem.

Separation Products
Separation includes magnetic plates, grates, and traps, rolls and tubes, drum separators, ferrous traps, magnetic pulleys, nonferrous eddy current separators, and electromagnetic separators designed to remove fine and large tramp iron from various materials while protecting machinery.

Material Handling Products
Material handling products include vibratory, mechanical and magnetic conveyors, screeners and feeders. Material quantities range from a few spoonfuls to tons per hour. Screeners include high capacity gyratory units for high viscosity liquid/solid separation and wet or dry classification.

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Separation and Concentrating Ferrous Materials

Magnets are very effective in applications where the goal is to concentrate ferrous minerals or to separate and recover valuable iron or ferrous metals. These are often heavy-duty or high-volume applications like sorting and recovering all metals in auto shredding, scrap yards and recycling facilities. Similarly, highly advanced magnetic systems are used to extract iron ores and other minerals in mining operations.

“Double Team” for the Ultimate Protection

There’s no better way to safeguard against damaging metal contaminants than double-teaming them with magnetic separators and metal detectors.