

Food Equipment

MAGNETIC SEPARATION, METAL DETECTION AND MATERIAL HANDLING



Magnetic Separation

Eriez offers the widest selection of magnetic separators for the food industry, ranging from simple magnetic grates to powerful high-intensity magnetic filters. Magnetic separators are the first line of defense to remove unwanted steel in the process flow that can damage equipment or contaminate product. Our magnetic equipment fits virtually any type of process including gravity or free-flowing, belt or conveyor fed, pneumatic conveyors and liquid lines. Each type of magnetic separator comes in a range of strengths to ensure your target metal is removed.



Magnetic Grates

- Remove fine iron and tramp iron from dry, free flowing products
- Fit square, round, oval, and odd shaped hoppers/chutes
- Available in ceramic, Rare Earth and **Xtreme®** Rare Earth



Grates In Housing

- Staggered rows of grates in a custom housing
- Greater opportunity to remove small particulates and tramp iron from free-flowing products
- Available in ceramic, Rare Earth and **Xtreme®** Rare Earth
- Automated cleaning options



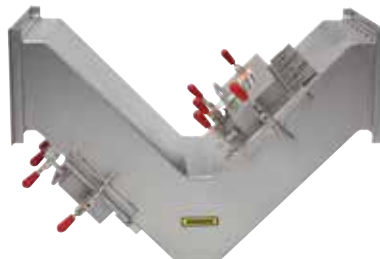
Liquid Line Traps

- Removes scale, oxides and iron contaminants in liquid and slurry lines
- Six models fit pipe diameters from 2-4"
- Available in ceramic, Rare Earth and **Xtreme®** Rare Earth



Magnetic Plates

- Protect against medium and small size contaminants
- Installed in chutes, spouts, ducts and suspended over conveyors and screens
- Available in multiple designs, ceramic, Rare Earth and **Xtreme®** Rare Earth,



Magnetic Humps

- Incorporates two plate magnets for improved separation
- Material falls against first plate magnet, then redirects to second magnet
- Various strengths and self-cleaning unit available
- Fits feed pipes to 18"
- Self-cleaning options



RF Cartridge

- For pneumatically conveyed dry material
- Flows around solid stainless steel cone and over magnetic cartridge



Drum In-Housing

- Designed to separate ferrous materials from free-flowing gravity fed material where a high level of ferrous is present.
- Automated self-cleaning operation
- Many sizes and strengths available



High Intensity Magnetic Filters

- For ultra pure applications
- Collect micron-size weakly magnetic contamination in high-intensity, high-gradient magnetic matrix



Suspended Magnets

- Positioned over conveyors
- Removes ferrous in deep burdens
- Available in permanent or electromagnetic models

Metal Detection

Extremely sensitive metal detectors safeguard against ferrous, nonferrous and stainless steel metal contaminants. Eriez Xtreme metal detectors can be positioned at different locations throughout the process from raw or bulk material through final package inspection at critical control points.



Xtreme® Metal Detectors

- Highest level of sensitivity available
- High pressure wash down design
- Touch screen settings with remote support



Xtreme® Metal Detector - Conveyor System

- Metal detector mounted on a stainless steel, wash down conveyor
- Variable speed drive with food-grade polypropylene belt



Xtreme® VFS Metal Detector

- Designed to mount into space restricted areas below Vertical Form and Fill machines
- Requires no metal free area
- Remotely housed electronics



Xtreme® Vertical System

- For use in gravity free-fall applications
- Low profile design

Xtreme® Liquid Line System

- Designed for liquid, pastes, slurries or other viscous products
- High sensitivity
- Detector head, support plate and reject valve are constructed of 304 stainless steel
- Can be mounted vertically or horizontally
- Kynar pipe with stainless steel tri-clover
- Available in pipe sizes 1.5-4" diameter



Xtreme® Pharmaceutical System

- Inspect tablets and capsules that are gravity fed from the tablet press
- 1.5" high x 4.5" wide or .9" high x 4" aperture
- Polished 304 stainless steel sensing head and frame
- Tool-less disassembly for all product contact components for easy cleaning
- Two-piece easy to remove throughput chute
- Compact design for space restricted areas



Feeders · Conveyors · Screeners

Eriez offers a wide range of vibratory feeders, conveyors and screeners for the food processing and packaging industries. In addition to standard designs, Eriez can customize tray configurations to meet specific application requirements.



Compact Vibratory Feeders

- Low to high capacity models
- Energy efficient electromagnetic drives
- Many tray design options – sanitary, screens, dust control



High Speed Vibratory Feeders

- Feeds light, bulky materials
- Rapid on-off cycling, quick stopping
- Ideal for mixing, weighing, batching and packaging operations



High Deflection Vibratory Feeders

- Operates on a different frequency with greater amplitude
- Superior handling of fine powders, sticky and leafy type products
- Ideal for many screening operations



Tuned Two-Mass Electromagnetic and Mechanical Conveyors

- Controlled transfer of bulk materials
- Low power consumption, high capacity
- Isolated design for floor or suspension mounting
- Available with intermediate discharge gates
- Low profile models available



Vibratory Screeners

- Mechanical and electromagnetic models
- Wide range of decks, screens and discharges
- Light or medium duty



Bin Vibrators

- Aids in moving hard to handle bulk materials
- Small to large hoppers
- Energy efficient electromagnetic and mechanical rotary models available



Horizontal Motion Conveyors

- Ideal for fragile or coated products
- Wide variety of tray lengths, widths and shapes
- Floor mounted or suspended



Volumatic Feeder Machines

- Compact system consisting of a hopper, vibrator, feeder, frame and controls
- Metered flow of dry bulk materials



POLYMAG[®]

X-Ray and Metal Detectable Additives

Eriez' FDA compliant, PolyMag[®] additives impart metal detectability, X-Ray contrast and magnetic separation into a range of polymers. We supply these masterbatch additives to molders of returnable plastic containers, pallets, scoops, scrapers, o-rings, conveyor belting, bucket elevators and more. PolyMag[®] additives are typically included at 10% to 20% loadings in moldings and extrusions.



Pull Test Kits

Check Magnetic Strength

Available with either a digital or mechanical scale, these kits provide everything you need to track the strength of your magnets over time, and ensure optimal separation.



Emily LaCour

Plant Manager, Smith Provision

“The combination of sensitivity performance and ease-of-use made the Eriez’ Xtreme Metal Detector the obvious choice for Smith Provision. We process a range of meat products which can limit the performance of some metal detectors. The Xtreme’s easy auto set-up allows us to change products while still maintaining excellent sensitivities with minimal downtime.”

See more at Purity.Eriez.com



WORLD AUTHORITY IN SEPARATION TECHNOLOGIES



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