



Food Equipment

METAL SEPARATION AND DETECTION MATERIAL HANDLING





Eriez Programs for the Food Industry

ProGrade Magnets

A full line of low-cost magnetic separators in-stock 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.

EriezXpress™ Next-Day Shipments

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

Feeders Fast 5-Day Program

Includes 32 electromagnetic vibratory drive and tray combinations. Tray sizes range from 80 to 504 sq. in. and offer capacities as high as 22 tons per hour.

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.

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.

Double Team Tramp Metals

There's no better solution to ensure your product is metal-free than using magnets for steel removal and using Xtreme Metal Detectors to reject nonferrous metals like aluminum, brass, stainless steel and more.



MARK FRAZIER

Production Manager – Frazier and Son

“...we rely on Eriez electromagnetic drives to accurately feed our bucket elevator systems. Although we use their entire range of feeder drives, the high deflection units are perfect for our most challenging applications.”

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 for the ultimate in product purity. 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 from dry, free flowing products
- Fit square, round, oval, and odd shaped hoppers/chutes
- Available in **Xtreme** Rare Earth and for Next-Day shipment



Grates In Housing

- Staggered rows of grates in a custom housing
- Greater opportunity to remove small and tramp iron from free-flowing products
- Available in **Xtreme** Rare Earth and for Next-Day shipment



Liquid Line Traps

- Removes scale, oxides and iron contaminants in liquid and slurry lines
- Six sizes fit pipe diameters from 2 to 4-inches
- Available in **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, **Xtreme** Rare Earth and for Next-Day shipment



Magnetic Humps

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



RF Cartridge

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



Cutaway

Drum In-Housing

- Designed to separate ferrous materials from free-flowing gravity fed material where a high level of ferrous is present.
- 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 and separators safeguard against both ferrous and nonferrous metal contaminants. This equipment is very effective for identifying and removing stainless steel fragments in food and other sanitary processing applications. Detectors are positioned at different locations throughout the process from bulk or raw material through final package inspection.



Xtreme® Metal Detectors

- Highest level of sensitivity available
- Detects ferrous and nonferrous metals down to 0.2mm
- Recognizes contamination and activates a reject device
- High pressure wash down design
- Touch screen settings with remote support



Xtreme® Metal Detector - Tunnel/Conveyor System

- Metal detector mounted on a stainless steel, wash down conveyor
- Variable speed drive with food-grade polypropylene belt
- Stocked in 3 sizes for Quick-Ship delivery



FF5 Metal Separator

- Free-flowing powders and spices
- Compact design with high level of sensitivity
- High pressure wash down



Vertical Metal Detector

- Controls can be mounted up to 100 ft. from the metal detector
- Used where heights are restrictive
- Detects/removes ferrous and nonferrous metals prior to final packaging



Liquid Line System

- Used in conjunction with an Eriez Magnetic Trap
- Available for various pipe sizes
- Includes metal detector, food grade Kynar pipe, support stand and optional reject valve

POLYMAG®

For 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.

Screeners · Feeders · Conveyors

Eriez offers a wide range of vibratory feeders, conveyors and screeners specially for the food and food packaging industry. In addition to standard models, our electromagnetic drives and compact feeders handle high-speed packaging, difficult products like flour, leafy and gummies, and high material load applications. All electromagnetic drives are extremely energy efficient, low maintenance with no moving parts, and can be mated with a range of sanitary and non-sanitary trays.



Compact Vibratory Feeders

- Small to medium capacity
- Super energy efficient electromagnetic drives
- Many tray designs – sanitary, screens, dust control options
- Available in Feeders Fast program



High Speed Vibratory Feeders

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



High Deflection Vibratory Feeders

- Operates on a different frequency with greater amplitude
- Superior handling of fine powders, sticky and leafy type products
- Feeds up to 200 cu ft per hour



Large Electromagnetic Vibratory Feeders

- Energy efficient drive design
- High volume, controlled feeding to 850 tph
- 9 models in suspended or mounted design



Tuned Two-Mass Mechanical Conveyors

- Controlled transfer of bulk materials
- Low power consumption, high capacity
- Needs minimal head room



Horizontal Motion Conveyors

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



Volumatic Feeder Machines

- Consists of hopper, vibrator, feeder and controls
- Accurate flow of dry bulk materials



Bin Vibrators

- Aids in moving hard to handle bulk materials
- Tiny hoppers to huge bunkers



Vibratory Screeners

- Mechanical and electromagnetic
- Wide range of decks, screens and discharges
- Light or medium duty
- 4 to 60 sq. ft. screen sizes



Eriez' worldwide system of manufacturing, sales and service

5-Star Service Center

Eriez' 5-Star Service Center, located in Erie, PA, is staffed with an experienced team of professionals available through our 24/7 hotline, 1-888-300-ERIEZ. We use original OEM parts and offer on-site field testing, equipment re-manufacturing and full "as new" warranties.

EriezXpress™

EriezXpress products are always in stock and ready for next day shipment from Eriez USA. Eriez has identified those products most often ordered with fast shipment requirements. The EriezXpress program streamlines the order-to-ship process by simplifying product ordering, modifying inventory control and designating a dedicated team to make it all happen.

Upon credit approval, orders received at Eriez-USA by 4:00PM will be processed and shipped the next business day.



The Eriez Technical Center

Eriez maintains the industry's largest magnetic, vibratory and inspection system test laboratory at its Technical Center, adjacent to the headquarters plant in Erie, Pennsylvania, U.S.A. More than 100 pieces of specialized test equipment are on hand. Here, customer products and raw materials are analyzed confidentially and ways to separate or move, screen or detect them more efficiently and economically are then suggested. Feasibility and definitive studies are also conducted.



World Authority in Separation Technologies

Headquarters: 2200 Asbury Road, Erie, PA 16506-1402 U.S.A.
Telephone: 814/835-6000 • 800/345-4946
Fax: 814/838-4960 • International Fax: 814/833-3348
Web Site: <http://www.eriez.com> e-mail: eriez@eriez.com

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



Eriez and Eriez Magnetics are registered trademarks of Eriez Manufacturing Co.

©2013 ERIEZ MAGNETICS

ALL RIGHTS RESERVED

913-50-AHA

ERIEZ MANUFACTURING CO ©2013

PRINTED IN USA