

EQUIPMENT FOR THE

# FOOD, PACKAGING & PROCESSING INDUSTRIES



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# EQUIPMENT FOR THE FOOD, PACKAGING & PROCESSING INDUSTRIES

Eriez' extensive range of Metal Detectors, Magnetic Separators and Vibratory Feeders provides the ultimate solution for ensuring product purity and increasing the efficiency of your process line.

From the moment ingredients enter your plant to the point of shipment, Eriez offers a complete solution for the detection, protection and material handling of products in any food, packaging or processing line.

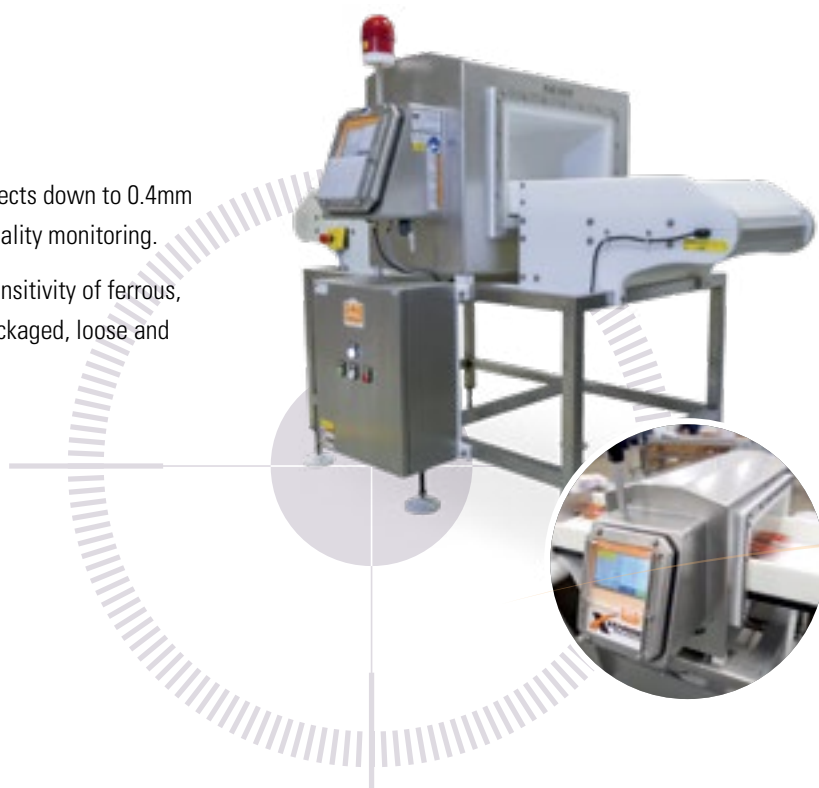
Products are custom-designed to suit all customer requirements. The Prograde® range of magnetic separators are also available in a selection of standard sizes for immediate sale.

## METAL DETECTION

### XTREME® METAL DETECTORS

Eriez' high quality performance Xtreme® Metal Detector detects down to 0.4mm Fe spheres for superior machinery protection and product quality monitoring.

- Multi-frequency operation achieving optimal detection sensitivity of ferrous, non-ferrous and stainless steel metal contaminants in packaged, loose and free-fall applications
- Available in a wide range of aperture widths and heights
- Stainless steel construction as standard
- High pressure wash down design – IP69K
- 7" / 178mm easy-to-use touch screen interface
- Multiple pre-programmed languages
- Easy set-up and product learning
- Reporting (including log, tracks, rejects and faults)
- Four password protected levels of access
- Multiple USB and interface ports



## MODELS

### TUNNEL

Custom manufactured to suit any in-line processing application where space is limited. The Xtreme's state-of-the-art technology ensures that all ferrous, non-ferrous and stainless steel contaminants are detected.





## TUNNEL DETECTOR WITH CONVEYOR

The Tunnel Detector with Conveyor integrates the Xtreme aperture detector with a high-pressure wash-down conveyor. These systems can be ordered in a wide range of sizes with optional add-ons.



## XTREME LIQUID LINE

Xtreme Liquid Line Metal Detector systems are designed for liquids, pastes, slurries or viscous products where high-sensitivity metal detection is required. The detector head, support plate and reject valve are constructed of 304 stainless steel. The system can be mounted vertically or horizontally.



## XTREME PHARMACEUTICAL DETECTOR

The Xtreme Pharmaceutical Detector is designed to inspect tablets and capsules that are gravity fed from the tablet press.



## XTREME VERTICAL FILL SEAL

The Xtreme Vertical Fill Seal (VFS) units are designed to mount into space-restricted areas below Vertical Form and Fill machines.



## XTREME WEBLINE

Eriez' Xtreme Webline metal detectors are engineered for use on webbing or sheet applications.



## XTREME VERTICAL DROP

Eriez' Xtreme Vertical Drop detectors are engineered for use in gravity free-fall applications.





## MAGNETIC SEPARATION

### GRATE MAGNETS

Grate Magnets provide powerful, permanent magnetic protection against fine and tramp iron contamination. Designed for simple installation in steep-sloped hoppers, odd and irregular-shaped hoppers, floor openings, vertical closed chutes and ducts.

- Ideal for the removal of small, fine tramp iron from dry, free-flowing products
- Available in multiple sizes and configurations
- Stainless steel housing
- Range of strengths available dependant on application – Ferrite or Rare Earth



**FOR IMMEDIATE SALE**

**ProGRADE AVAILABLE**

### MAGNETIC FERROUS TRAPS

Eriez permanent Magnetic Traps provide protection for liquid lines and processing equipment. They preserve product purity by removing small particles of magnetic scale, rust and fine iron contamination.

- High strength Rare Earth magnet element inside a Grade 316 stainless steel body casting
- BSP threaded or plain ends for welding as standard, with options for flanges and other fittings
- Available in easy-clean arrangement
- Water jacketed design available for heated lines such as chocolate
- Standard sizes available: 50mm, 100mm, 150mm

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## MAGNETIC TUBES

Magnetic Tubes are low-cost and high in strength, ideal for quality assurance or inspection and to recover fine iron contamination.

- Magnetic Tube lengths from 150mm to >1000mm
- Special high temperature versions available
- Easy-clean stainless steel sleeve
- Durable plastic handle
- Range of strengths available dependant on application – Ferrite or Rare Earth

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## PLATE MAGNETS

Eriez Permanent Plate Magnets provide powerful, dependable magnetic protection against hazardous fine iron and tramp iron contamination in processing lines. Designed for positioning in chutes, spouts, ducts, pipes, or suspended over conveyor belts to remove contamination and prevent damage to downstream equipment.

- Ideal for the removal of small, fine tramp iron from dry, free-flowing products
- Available in multiple sizes and configurations
- Stainless steel housing
- Range of strengths available dependant on application – Ferrite or Rare Earth



## BULLET MAGNETS / RADIAL FIELD (RF) CARTRIDGE MAGNETS

Remove fine ferrous contaminants from gravity or pneumatically conveyed dry, free-flowing products.

- Stainless steel construction
- Sanitary option available
- Range of strengths available dependant on application – Ferrite or Rare Earth

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## MAGNETIC HUMPS

Magnetic Humps provide a simple and effective way of extracting tramp iron contamination from gravity or pneumatically conveyed dry, free flowing product.

- Constructed with two plate magnets in dogleg housing for efficient iron removal without restricting product flow
- Hinged magnets for accessible cleaning
- Various magnetic strengths and sizes available
- Auto-cleaning arrangement available as an option for continuous material flows



## MAGNETIC DRUMS

Eriez permanent Magnetic Drums are used to effectively recover tramp and fine iron from dry bulk materials. Available in a range of strengths and configurations, drums offer an ideal solution for both new and existing installations.

- Ferrite or Rare Earth options available
- Wide range of sizes
- High volume throughputs
- Suitable for continuous operation

## VIBRATORY FEEDERS

Eriez electromagnetic Vibratory Feeders offer accurate feeding of all types of materials, including light and traditionally difficult to feed materials.

- Quick start / stop operation ensures economical and precise handling of materials in mixing, batching, packaging and bagging operations
- Used to convey and accurately dispense fillers, additives and regrind without degradation
- A selection of drives available for immediate sale



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## POLYMAG®

The Polymag® process was developed as part of Eriez' commitment to reducing waste in the processing industry. The Polymag® process provides an effective and automated method of recovering manufacturing scrap and waste for multi-material processors.

The Polymag® additive is added into one of the polymers prior to moulding. This enables the resin to be attracted to the strong magnetic field produced in the Resin Separator. Scrap parts are run through a traditional granulator, allowing the Polymag® separator to separate the mixed polymer regrind into distinct materials.

- Metal Detectability, X-Ray Contrast and Magnetic Susceptibility



### DETECTABLE POLYMAG® ADDITIVES

A non-dusting pellet which allows plastic moulders and extruders to produce metal detectable and x-ray visible plastic parts.



### POLYMAG® RESIN SEPARATOR

Part of Eriez' range of rare earth roll separators it is fitted with a permanent rare earth magnet and a built-in feeder to enable the automated separation and recovery of the mixed resins.

## FREE PROCESS REVIEW

Eriez offers a process review for the inspection of existing separation and detection equipment, providing in-depth evaluation and recommendations for optimum removal of metal contamination. It enables customers to ensure compliance with regulatory quality requirements.

Each piece of equipment is thoroughly checked at critical points:

- To identify whether they are of the correct design and strength
- To ensure they are correctly positioned and installed
- To provide an inspection record and check for magnetic strength degradation



### PULL TEST KIT

Available with either a digital or mechanical scale, these kits provide all the necessary components to track the strength of your magnets and ensure optimal separation.



# ERIEZ' WORLDWIDE NETWORK OF MANUFACTURING, SALES & SERVICE



Manufacturing Affiliates in: Australia, Brazil, Canada, China, India, Japan, Mexico, South Africa, United Kingdom, USA



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## ERIEZ MAGNETICS EUROPE LIMITED

European Manufacturing, Design and Test Laboratory Headquarters

Greenway, Bedwas House Industrial Estate, Bedwas, Caerphilly, CF83 8YG, UK

T: +44 (0)29 2086 8501 | F: +44 (0)29 2085 1314 | E: [info-europe@eriez.com](mailto:info-europe@eriez.com)

