

ERIEZ



PLASTICS

EQUIPMENT FOR THE PLASTICS INDUSTRY



ERIEZ
GLOBAL LEADER IN SEPARATION TECHNOLOGIES

About Eriez

Established in 1942, Eriez stands as a pioneering force in separation technologies, embodying a truly global presence.

With 12 wholly owned subsidiaries across the globe, we proudly design, manufacture, and support our magnetic separation, flotation, metal detection, and material handling equipment on an international scale.

Our dedicated team of knowledgeable and experienced sales engineers collaborates closely with customers, understanding their unique challenges to deliver dependable, high-performance equipment, systems, and solutions.

Whether clients require our standard equipment or custom solutions tailored to their precise specifications, Eriez delivers.

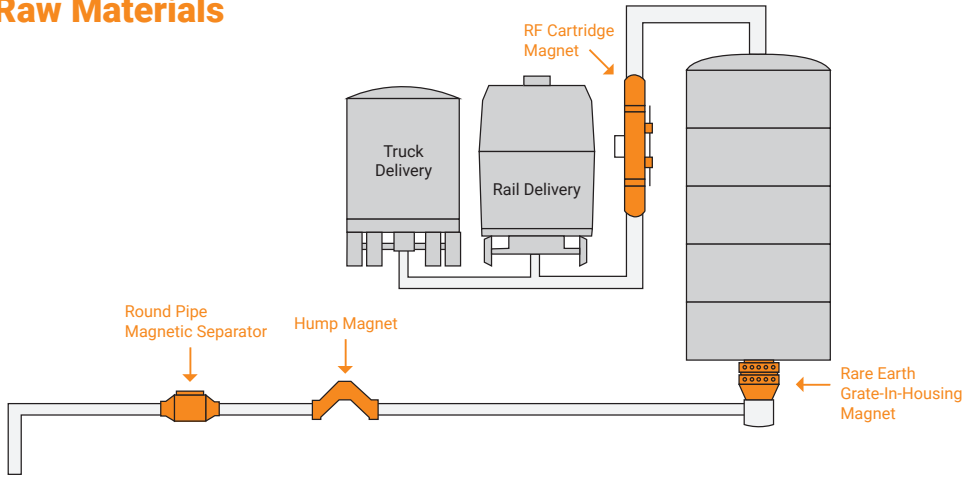
Drawing from more than 80 years of experience across diverse industries, including mining and minerals processing, food processing and packaging, aggregates, metals recycling, and many other sectors, Eriez leverages its extensive experience to design and supply products that elevate productivity, efficiency, and product purity.

Eriez remains steadfast in its commitment to setting the global standard for excellence in key technologies, driving innovation and reliability across industries worldwide.

Consistent Protection for the Plastics Industry

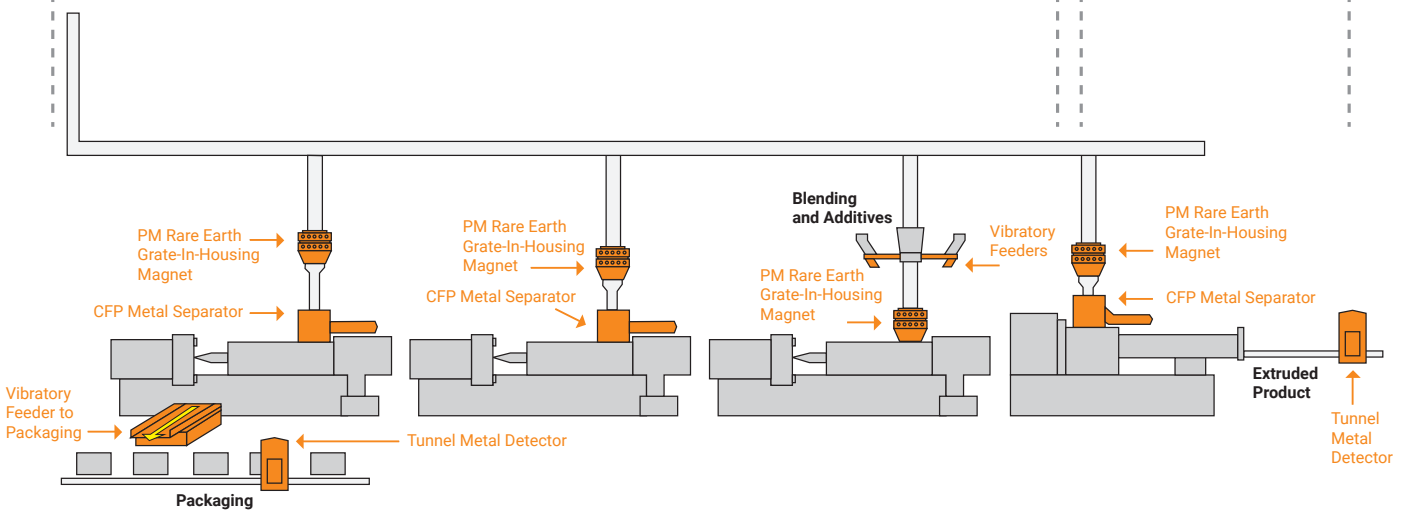
Eriez' versatile equipment lines provide essential protection and quality assurance across every stage of the plastics industry. From raw resin to finished pellets or parts, Eriez products work in tandem to eliminate contamination, improve efficiency, and safeguard downstream equipment. By removing ferrous, nonferrous, and stainless steel contaminants, they ensure consistent product purity and smoother production runs — reducing costly downtime and maintenance while boosting overall product yield and customer confidence alike.

Raw Materials

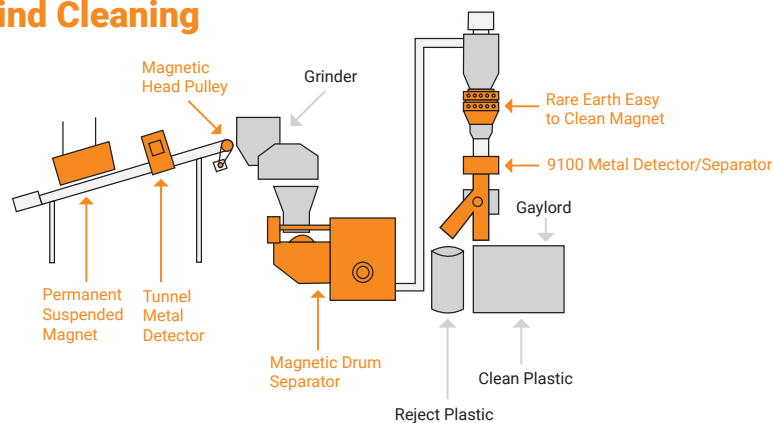


Injection Mold Process

Extrusion Process



Granulating & Re grind Cleaning



Metal Detection

Metal contamination can plug hot runner tips and valve gates, damaging equipment. Eriez' metal detectors can be positioned at different locations throughout the process, from the unloading of bulk or raw material to final packaging and inspection and inspection.

PrecisionGuard X8 Metal Detector

Reliable and easy-to-use, X8 Metal Detectors from Eriez detect small ferrous, nonferrous, and stainless steel metal contaminants. The X8 offers a large touchscreen interface, quick setup and reporting, multiple communication ports (USB and Ethernet), and is built with a standard high-pressure washdown design.



FF Metal Separator

The Model FF Metal Separator is used to inspect bulk goods under free-fall conditions. It detects magnetic and non-magnetic metal contamination such as aluminium, brass, and stainless steel, even when enclosed in the product. Metal contaminants are rejected through the "Quick Flap" reject unit.



CFP Metal Separator

The Model CFP Metal Separator is installed directly above the feed throat of an extruder, injection molder, or blow molding machine. It provides precision identification and removal of magnetic and non-magnetic metal contaminants from a slow, downward-moving column of material. Its robust, heavy-duty design allows material feed systems to be mounted directly on top of the metal separation unit.



MA6600 Metal Detector

Built for installation on inclined conveyors, the 6600 Metal Detector provides a solution to many metal detection problems. Compact and efficient, it detects all types of metals with its custom made coils designed to fit specific conveyor configurations.



MetAlarm PL Metal Detector

For flat belt conveyor applications, the easy-to-install Model PL MetAlarm is especially effective for identifying metal contaminants where the search coil is surrounded by metal conveyor frames or moving metal.



PolyMag Metal & X-ray Detectable Additives

Eriez PolyMag® Additives impart metal detectability, X-ray contrast, and magnetic susceptibility into plastic moldings used by food processors to prevent plastic foreign material (FM) contaminates from reaching the consumer.



Magnetic Separation

Eriez offers a wide variety of powerful magnetic separators for the plastics industry, ranging from magnetic grates to large suspended magnets. Our separators effectively capture and hold fine ferrous materials. With many different styles and strengths, you can choose what is right for your needs.

Plates, Hump Magnets & Round Pipe Separators

Plate magnets attract and hold ferrous contaminants within heavy material flows. Custom housings with multi-plate arrangements direct material flows to improve metal removal.



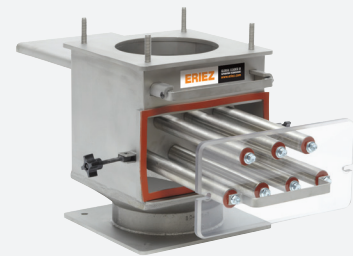
Tubes, Grates, and Grate-in-Housing Magnets

Available in multiple levels of magnetic strength and temperature capabilities, this extensive line of magnets protect against small and medium-sized contaminants in product flows.



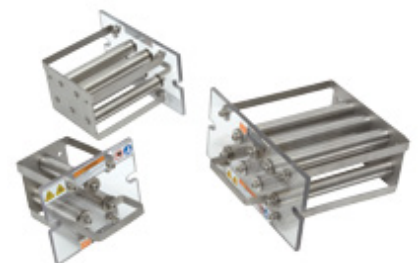
PM Grate-In-Housing Magnets

The PM Grate-In-Housing magnet is ideal for removing ferrous contamination from plastic pellets, flake, and regrind prior to the injection molding machine, extruder or compounding screw.



Aftermarket PM Rare Earth Drawer Magnets

Designed specifically for the plastics industry, Eriez' line of Model PM aftermarket Rare Earth Drawer Magnets slide into most existing drawer magnet housings, immediately improving separation performance.



RF Cartridge

Radial Field (RF) Cartridge Magnets are ideal for removing tramp iron from dry, free flowing food or chemical products conveyed in pneumatic pipelines and compact spaces.



Drum-In-Housing Separators

Designed to separate ferrous materials from free-flowing material when a high level of ferrous content is present, these powerful magnets offer self-cleaning operation.

Maintenance is reduced with the drum magnet housed in a heavy-duty casing for demanding environments. Provide automatic removal of both large and small pieces of ferrous contaminants from material processing lines.



Rare Earth Roll Separators

High-intensity, self-cleaning magnetic rolls remove fine ferrous contaminants and are available as single, double, and triple-stage machines.

This energy-free separator is designed to generate the exceptionally high field-strengths needed to remove fine iron contaminants. Weakly magnetic particles are attracted to the roll and deflected out of the non-magnetic particle stream while a splitter arrangement is used to segregate the two particle streams.



Eddy Current Separators

Remove aluminium, brass, and copper from post-consumer plastic bottles and PET flakes to recover high-purity plastics with up to a 99% product yield.

This nonferrous separator utilises permanent rare earth magnets to induce eddy currents into metallic particles. This produces repelling forces which separate the metallics from non-metallics, providing a cleaner product for further processing.



Suspended Magnets for Conveyed Products

Suspended Permanent Magnets use ceramic magnetic material in a pattern specifically designed to create a powerful magnetic field that will efficiently remove tramp metal from conveyed materials. These magnets are permanently charged so they offer uninterrupted magnetic protection and require no external power source.



Material Handling

Eriez offers a full range of vibratory feeders, conveyors, and screeners used in the plastics industry. Our electromagnetic drives and feeders handle high-speed packaging and high material load applications.

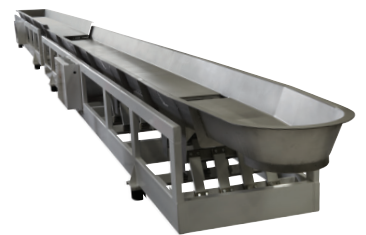
Compact Vibratory Feeders

The small and medium feeder models precisely meter the most minute amounts of materials. They are ideal for feeding a regulated amount of small or granular material from a hopper to a secondary process, in small packaging operations or laboratory use.



Vibratory Conveyors & Screeners

Eriez vibratory conveyors and screeners are simple, rugged, machines designed to handle a variety of bulk materials. The conveyors are available in single-mass and two-mass vibrating systems excited by a motor-driven eccentric shaft.



Bin Vibrators

Eriez' unique magnetic drive circuit provides a simple yet powerful solution to difficult material flow applications. Bin Vibrators, with their totally enclosed patented magnetic drive, can be used for applications ranging from the tiniest hopper to huge bunkers with reinforced heavy steel plate and liners.



Vibratory Controls

Eriez offers multiple control models designed to meet a wide range of feeder applications. The **UniCon** is the standard, compact controller, with manual dial control and analog signal input.

For more demanding requirements, the **UniCon HC** (High Current) model delivers higher amperage and voltage support, optional closed-loop accelerometer feedback, and selectable auto/manual operation.

The **G-Series** features auto-voltage sensing, soft-start functionality, dual rate-of-feed, digital display, and optional accelerometer control to maintain consistent tray deflection.



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