



**SOUTH AFRICA (PTY) LTD
INCORPORATING MACSA / MACSALAB**

Vibratory and Screening Equipment



Vibratory Feeders

A Complete line of light and medium duty Vibratory Feeders is available to accurately feed and control material at rates ranging from kilograms to tonnes per hour. Seven base-mounted units are offered with a wide selection of trays.



Heavy-Duty Vibratory Feeders

To move large tonnages of almost any bulk material. Eriez offers both electro permanent magnetic drive and long stroke mechanical Vibratory Feeders. Capacities up to 3500 tph (3175 metric tph). Screen decks, grizzlies, special liners and other adaptations are available.



Mechanical Conveyors

Vibrating Conveyors from Eriez are heavy duty, simple in design and operation and easily installed. Minimum headroom is required, and components are mounted separately for easy maintenance. Adjustable-angle rubber springs amplify the exciting force. Standard lengths up to 9.1m (30 feet)



Brute Force Mechanical Feeders

The heavy-duty Eriez Brute Force Mechanical Feeder provides continuous movement of large volume of bulk material. For applications where a variable feed is not required.



Hi-Vi Volumatic Feeders

These feeder machines employ dual vibratory action to assure proper flow of dry bulk material. Ideal for use with weigh scales, packaging and bagging equipment, small batch operations and for additive feeding. Three sizes offer feed rates ranging from a few kilograms to 10 tonnes per hour.



Hi-Vi Bin Vibrators

To move large tonnages of almost any bulk material. Eriez offers both electro permanent magnetic drive and long stroke mechanical Vibratory Feeders. Capacities up to 3500 tph (3175 metric tph). Screen decks, grizzlies, special liners and other adaptations are available.



Screen Separators

Eriez Screen Separators are high capacity units for dry separation, wet or dry classification and liquid solids separation. They feature in-operation tuning to match product requirements, sharp sizing, no dampening under loads, long screen life. Standard motors are used on all models.

Magnetic Separation Equipment

Eriez Magnetics Separation equipment is used the world over to remove tramp iron or fine iron in all types of wet or dry processing lines; to concentrate ores; to purify non-magnetic materials; to reclaim valuable products. The many types, sizes and models available assure the proper magnetic function for your exact needs



Plate Magnets

Various applications dictate different strengths, sizes and type of plate magnets. Eriez' line of plate magnets gives you a choice of five strengths...sizes from 100mm to 1800mm and even larger to order...and three kinds of face plates. They are simple to install and have no maintenance or operating costs.



Magnetic Grates

Eriez Permanent magnetic grates are available in a wide range of sizes and models including Drawer Grates, Wing-Type Grates, Grates-in-Housings, Rota-Grates and new self cleaning Grates. They are designed for the most efficient removal of tramp iron or fine iron from free flowing granular materials of cohesive, hard to handle materials.



Ferrous Traps

Liquid filtration and separation with Eriez Ferrous Traps prevents abrasive wear, prevents pumps from jamming, assures a product free from iron contamination. Seven different models provide permanent magnetic protection for virtually all wet process applications. Sizes for pipelines from 13mm to 457mmdiameter. Standard and sanitary models are available.



Deep Reach Separators

Heavy flows of materials which may bridge or choke when processed through magnetic grates are easily handled with this open-throat design. Tramp iron is pulled from the product by two powerful, deep field, permanent magnets located on opposite sides of the housing. Also available in sanitary construction.



Magnetic Humps

Effectively remove tramp iron from material conveyed pneumatically or where large volumes of free-flowing materials fall by gravity. Two magnets in a dogleg housing increase iron removal efficiency. Hinged magnets open easily for cleaning.



Suspended Magnets

Protect crushers, belts and costly processing equipment from tramp iron damage. Suspended magnets, either electro or permanent, either manual cleaning or self cleaning, can be installed over fast-moving conveyors for removal of tramp iron from bulk materials such as coal, stone, wood chips, etc.



Scrap Drums

Model SR Scrap Drums, in diameters from 915mm to 1524mm and lengths from 1050mm to 2134mm recover valuable metal from shredded automobiles, waste, salvage, operations and incinerator ash. Combined permanent and electro magnet circuits provide the strongest, deepest field of any drum of comparable size. Permanent magnet drums are also available.



Magnetic Pulleys

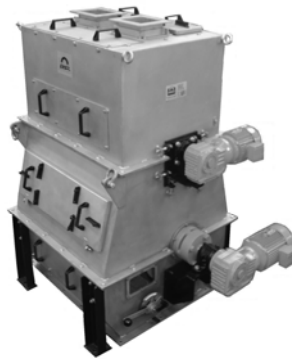
Eriez Pulleys with unique new "crisscross" permanent magnet design provide the most effective and economical way to remove unwanted iron from non-magnetic materials conveyed on a belt. Both permanent and electro pulleys, in a wide variety of strengths and a wide range of sizes assure the exact equipment required to do the job.

Mineral Separation Equipment



Wet Drum Separators

A broad line of Wet Drum Separators efficiently and automatically concentrates magnetic ores or recovers magnetite or ferro-silicon in heavy media systems. Single or multiple-drum assemblies, powered with high-strength permanent magnets, are available and a variety of designs, capacities, strengths and magnetic circuits.



Magnetic Drums

Eriez Permanent Magnetic Drums are provided with or without housings. They are ideal for the automatic removal of large quantities of tramp iron or fine ferrous contamination, for upgrading macerated automobile scrap, or purification – where materials are conveyed in spouts, chutes, spiral conveyors, etc. not employing belts. Permanent magnetic drums are also available.



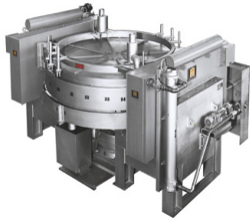
Demag Coils

Ideal for use in heavy-media coal processing plants. Eriez custom-engineered electromagnetic units effectively demagnetize natural magnetite slurry flowing through pipelines. Sizes from 2 inches (50mm) through to 18 inches (450mm) inside diameter are available.



Rare Earth Roll Magnetic Separators

Concentrated, high-intensity permanent magnetic fields combined with the force of gravity and controlled feeding to concentrate feebly magnetic ores and minerals and to remove weakly magnetic oxides from non-magnetic feeds.



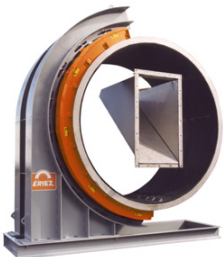
Wet High Intensity Separators

High-capacity, continuous removal or concentration of feebly magnetic materials. Commercial models range in capacity from 1 to 120 tph (109 mtp).



Rare Earth Drum Separator

Eriez heavy-duty 15-inch (380mm) diameter permanent Rare Earth drums offer superior magnetic protection in ore treatment applications requiring a high degree of product purity. They are capable of removing very fine ferrous particles, locked particles, and even strongly paramagnetic particles.



Trommel Magnet

Powerful systems for the automatic separation and removal of processing balls and ferrous chips from milled ore in ball/SAG mills.



CoalPro Column Flotation Cells

CoalPro Column Flotation Cells are ideal for the efficient recovery of fine coal (0.2mm) particles. The high capacity columns with low operating and maintenance costs feature Slam-Jet® spargers for greater plant yield.



X-Flow / Hydrofloat Separators

The X-Flow or Hydrofloat Separator is suitable for the concentration or classification of coal, iron ore and industrial minerals. The hindered-bed approach used in the X-Flow or Hydrofloat Separator provides an economical and efficient means of sizing material.

Magnetic Equipment & Metal Detectors



Permanent Lifting Magnets

When safety is a prime factor, Eriez Safehold Permanent Lifting Magnets have unique circuits that can be turned on and off like an electro-magnet but that are not affected by power shortages. Used as a single unit or in series on lifting beams, they complete handling efficiency with safety.



Magnetic Chip and Parts Conveyors

Move and elevate ferrous materials with no moving external conveyor parts to jam, break or endanger personnel. Permanent magnets moving inside a liquid-tight housing efficiently remove ferrous chips, turning parts and small stampings from machines, quench tanks and pits.



Coolant Cleaners

Smooth faced and extended-pole models extend life of coolant, cutting tools grinding wheels and pumps. Radial design magnetic circuits extract ferrous particles to help meet tolerances and improve surface finish in grinding and metal cutting operations.



Magnetic Belt Conveyors

Move cans, small parts, stampings, almost any ferrous object in a direction at high speed with Eriez Magnetic Belt Conveyors. Powerful permanent magnets, with circuit designed for high efficiency at low cost, are combined with wide-ranging conveying experience to provide systems solving automated systems.



E-Z Tec Vertical Reject System

The vertical E-Z Tec is the heart of Eriez' vertical reject system. Free-falling materials such as powders, granules, flakes and pellets travel in a chute or pipe through the detectors vertical aperture to help ensure metal-free product.



3500 / 3600 Series Metalarm Metal Detectors

A range of control unit models and a wide selection of search coils provide a solution to many metal detection problems



Magna-Rails

Convey Automatically...magnetically!! Speed up conveyor lines, conserve valuable floor space. Small, lifetime powered magnetic automation elements, fastened under conveyor belts, provide safe, positive hold for ferrous parts; swiftly convey, control and elevate up inclines as steep as 90°.



Large Diameter Circular Lifting Magnets

Eriez Circular Lifting Magnets are general-purpose magnet with many applications; in steel mills, steel service centres, ball mills, for furnace charging and other material handling jobs. The design provides a 75% duty cycle with a high lift-to-weight ratio.

A reputation for quality....

For more than 50 years, Eriez has been dedicated to quality and service. Ask our customers and they will tell you the same. Every day, we work hard to uphold our reputation as the "world authority" in advanced technology for magnetic, vibratory and metal detection applications.

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