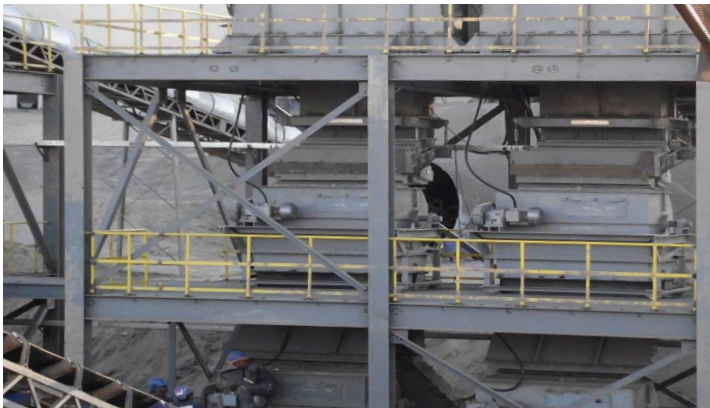


ERIEZ



MINING & MINERALS PROCESSING

EQUIPMENT FOR THE MINING 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.



Separation, Recovery & Protection

Eriez provides advanced equipment to maximise recovery, improve separation efficiency, increase profitability, and help ensure safety and reduce environmental impact. Building on more than 80 years of experience in Mining and Minerals Processing, applications for Eriez equipment include industrial minerals, iron ore, coal processing, and hard rock mining.

Eriez specially engineered equipment encompasses:

- Wet minerals processing equipment, including flotation and magnetic solutions
- Dry minerals processing equipment
- Tramp metal protection equipment, including magnets and metal detectors
- Material handling equipment

Separation Solutions for Wet Minerals Processing

Eriez offers a comprehensive portfolio for wet minerals processing, combining advanced flotation and high-performance magnetic separation technologies. By enhancing recovery and improving metallurgical performance, Eriez flotation technology delivers proven results across a wide range of minerals. Complementing flotation, Eriez magnetic separation equipment is available in varying degrees of intensity to process wet minerals. Together, these solutions help achieve higher recovery rates, improved concentrate grades, and lower operating costs in complex wet minerals processing circuits.

HydroFloat Coarse Particle Flotation

This proven technology recovers particles more than two times coarser than conventional flotation cells.

Eriez' patented HydroFloat® allows for a shift in the economic optimum grind size, and in turn increases profitability and improves the environmental sustainability of mining projects.

An innovative fluidized-bed Coarse Particle Flotation (CPF™) machine, it has demonstrated commercial success in base metals and industrial mineral practices for more than 20 years.



StackCell High Intensity Mechanical Cells

Reduce the conventional flotation residence time requirement by 75 to 85%, while increasing the selective recovery of fine particles and slow-floating minerals.

The StackCell® helps increase profitability and improves the environmental sustainability of mining projects. Offering reduced flotation circuit size and power consumption, it delivers superior mineral recovery and concentrate grades.

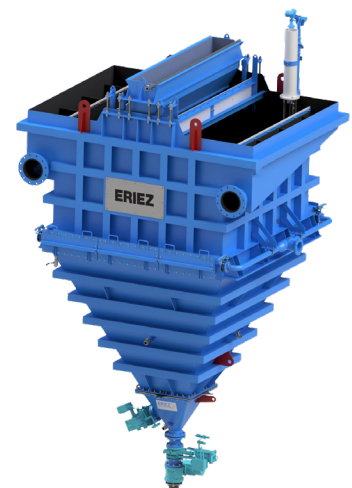


CrossFlow Classifier

This highly-efficient hydraulic classifier is designed for the separation of material based on particle size, shape, and/or density.

The CrossFlow® can be used for desliming, counter-current washing, and acid neutralization of minerals.

Separating particles based on hindered-settling principles provides an economical and efficient means of classifying materials such as silica and frac sands, mineral sands, and industrial minerals.



Column Flotation

Eriez has supplied more than 1,000 flotation columns throughout the world — for mineral concentration and purification.

These include iron ore, base-metals, gold, industrial materials, fertilizers (phosphate and potash), energy, and special applications such as oil/water separation. Flotation columns incorporate design features that enhance metallurgical performance by improving concentrate grades, improving recovery and reducing reagent consumption.



SlamJet Spargers

Promote the attachment and recovery of hydrophobic particles through the generation of a fine bubble dispersion that is evenly distributed across the flotation column.

Designed to generate high rates of bubble surface area, SlamJet® Spargers guarantee a high probability of attachment and improved recoveries.



CavTube Sparging

The CavTube® is based on hydrodynamic cavitation. This occurs when the pressure in a moving liquid is momentarily reduced below its vapor pressure, creating ultra-fine air or vapor-filled bubbles.

Cavitation and the shearing of additional gas ensure the generation of fine bubbles suitable for the recovery of both ultra-fine and coarser particles.



Magnetic Separation

Wet Drum Separators (WLIMS)

Used for automatic, continuous recovery of magnetite or ferrosilicon in heavy media operations and concentration of weakly magnetic ores, Eriez Wet Drum Separators employ the strongest, most effective magnetic elements in the industry.

The Wet Drum Separator's one-piece stainless steel drum shell encapsulates the magnetic element, with a modular tank allowing for easy installation. Operating with a minimum amount of wear or maintenance, it's designed for high volume inputs for a low initial cost.



Wet High Intensity Magnetic Separator (WHIMS)

Designed for high-capacity, continuous removal or concentration of weakly magnetic materials, the WHIMS patented dual jiggling washing creates higher separation efficiency.



High Intensity Magnetic Filters (HI Filters)

Magnetic collection of fine particles requires a high-intensity, high-gradient magnetic field. The electromagnetic matrix-type separator utilises a powerful electromagnet and a flux-converging matrix. The matrix amplifies the magnetic field and provides high-gradient collection sites for the magnetic contaminants.



Magnetic Flocculators

Aid in the separation of minute magnetic particles from liquids and slurries. Used widely in the iron and coal mining industries to speed the settling of fine magnetic particles in ore slurries and heavy media.



Demagnetizing Coils

Specifically designed to give many years of maintenance-free service for demagnetizing natural magnetite flowing through pipelines following recovery by magnetic separators.



Separation Solutions for Dry Minerals Processing

For dry processing applications, Eriez provides an extensive range of equipment. Each system applies powerful magnetic technology in varying degrees of intensity to process dry materials. These technologies optimise separation performance, maximise efficiency, and support stable, long-term production in dry minerals processing operations.

Dry High Intensity Magnetic Separator

This Rare Earth Roll Magnetic Separator provides maximum efficiency in the separation of weakly magnetic particles for product purification processes.



Dry High Intensity Electromagnetic Separators

Multi-zone, Dry Disc High Intensity Electro Magnetic Separators purify and concentrate products, particularly minerals. Produce exceptionally clean fractions with high recovery.



Dry Low Intensity Magnetic Separators (DLIMS)

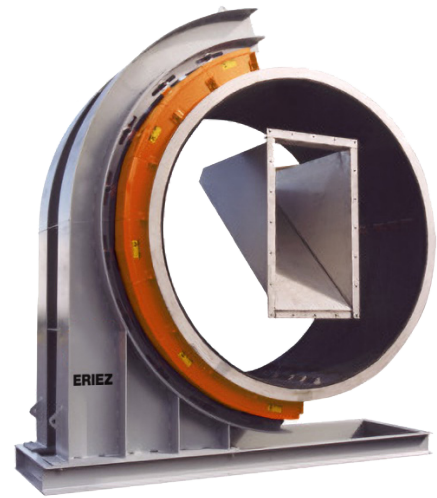
DLIMS units are designed for continuous, automatic separation of ferromagnetic materials in dry feeds such as magnetic ores, fly ash, slag, foundry sand, and minerals. They use high strength magnetic elements and high-speed drum rotation to enhance separation efficiency by combining magnetic attraction, gravity, and inertia. Models vary in magnetic strength and drum speed to suit roughing, cobbing, or producing high-grade concentrates. Built for reliability, each unit includes abrasion-resistant linings, stainless steel drum shells, and precise feeder systems, making them a robust solution for upgrading magnetic ores and purifying industrial materials.



Trunnion Magnet System

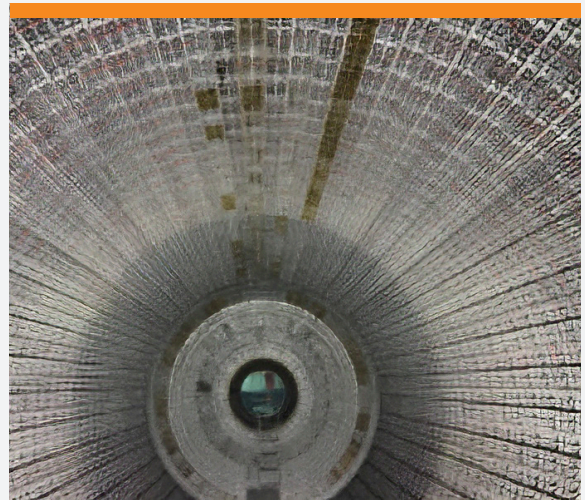
A permanent magnetic separation system for the automatic and continuous removal of grinding ball fragments from the ball mill discharge.

Eriez Trunnion magnets protect downstream screens and cyclones, and increase mill capacity while decreasing power consumption.



Magnetic Mill Liner

The Magnetic Mill Liner is comprised of wear-resistant, steel-encased magnetic "bricks" for primary, secondary, and regrind ball mills. It retains ball chips and fragments, creating a self-layering protective liner that outlasts rubber and metallic liners.



Dry Vibrating Magnetic Filters

The Dry Vibrating Magnetic Filter is a high-intensity electromagnetic filter designed to remove fine ferrous contaminants from dry powder.

This technology incorporates vibrating filter elements to provide a high capacity material flow. As the material flows through the magnetized elements, the iron bearing contaminants are captured, resulting in a high-purity product. The exceptionally high intensity field generated by the electromagnet provides peak separation efficiency.



Tramp Metal Protection Equipment

Eriez provides magnetic separation solutions to enhance the efficiency, safety, and quality of your production processes. Our large magnetic separators — such as Suspended Magnets, Head Pulleys, and Drum Separators — are designed to continuously and automatically protect your equipment and ensure product quality for years to come.

Suspended Electromagnets

Strong and powerful Suspended Electromagnets have a deeply penetrating field and will remove unwanted iron from heavy burden depths of material being conveyed on fast-moving belts. Automatically remove large pieces of tramp metal that will present a hazard to downstream crushers, mills, pulverisers, and grinders. Electromagnets can be turned off for cleaning or service.



Force-Cooled Suspended Electromagnets

Successfully remove damaging tramp metal from flows of coal, limestone, sand, gravel, municipal waste, wood products, recycled materials, other ores, and almost any conveyed nonferrous material in high temperature environments.



Suspended Permanent Magnets

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.



Magnetic Pulleys

Widely used as head pulleys in belt conveyors, Magnetic Pulleys provide automatic removal of unwanted iron from materials conveyed on belts. Help prevent machinery damage and product contamination for sand, gravel, limestone, mining, rock product, and coal-handling operations.



Eriez designs, develops, manufactures, and markets industrial metal detectors with a focus on high sensitivities and ease-of-use.

The best metal detector is one that's correctly calibrated to your specific applications and project. Through research and testing, Eriez had designed and constructed our metal detection equipment to be the easiest to operate in the industry.

1200 Series Metal Detector

Detect both ferrous and nonferrous tramp metal in magnetic ores and highly mineralized products—even when conveyed on steel cable belts.



MetAlarm Metal Detectors

The MetAlarm™ employs a lightweight design combined with easy maneuverability and a quick installation process. In most cases, it can be installed with little or no adjustment to idler spacing.



Material Handling

Ideal for handling coal, ore, and aggregates, Heavy Duty Vibratory Feeders from Eriez offer controlled feeding for tough high-volume applications.

Heavy Duty Vibratory Feeders

Provide a cost-effective means to meter or screen large volumes of bulk material.

Designed for use where limited feed rate adjustability is required. Eriez offers three styles of heavy-duty vibratory feeders built specifically for high-volume, rugged environments.

Whether you are presenting conveyed material to separation equipment, or you need to accurately feed tons of rock under a high headload, Eriez has a feeder solution to match your need.



Laboratory Services

Eriez is proud to offer a state-of-the-art testing facility in Erie, Pennsylvania, USA. Providing sample testing with flotation, magnetic and hydraulic separation, and filtration equipment, the lab has a highly qualified staff with a broad range of application experience. With over 1,500 square metres (16,000 square feet) of dedicated laboratory space and an array of lab and pilot equipment, Eriez has the tools to test and provide detailed process analysis and state-of-the-art solutions for nearly any application.

In-house, Eriez possesses laboratory equipment ranging from grinding mills to bench-top and column flotation cells, fire assay, and complex plant circuitry, which can even be tested and simulated, rather than the traditional method of independent staged testing

Eriez also provides on-site evaluations. Our on-site testing services provide quantitative data generated on a demonstration scale in the plant environment. With an experienced team of process engineers, Eriez excels at improving performance by conducting thorough circuit evaluations, determining optimum operating conditions, and finding solutions for problems.



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HEADQUARTERS

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Note: Some safety warning labels or guarding may have been removed before photographing this equipment. Eriez, Eriez Flotation and Eriez Magnetics are registered trademarks of Eriez Manufacturing Co., Erie, PA.

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