Magnetic Equipment

Whether it's processing high volumes of iron ore, or removing micron-sized ferrous or paramagnetic contaminants from valuable minerals, Etec offers a complete range of continuous and batch magnetic separators for wet processing. In hard rock mining, specialised magnetic equipment improves ball mill efficiencies by removing worn steel media fragments or using them as a protective liner.

Continuous Processing

**Wet Drums (KMB)**
- Continuous processing of magnetic or ferroic ores
- Concentration of ferrous and weakly magnetic ores
- Wide range of capacities for wet grinding and suction
- Multiple stages for higher process efficiencies
- High gradient and intense elements

**Wet Drums (KMB)**
- Continuous processing of magnetic ores
- Concentration of ferrous and weakly magnetic ores
- Multiple stages for optimum separation

**WHMS**
- High intensity magnetic separator
- High-intensity or weakly magnetic materials
- Automobiles, automobiles, automobiles, magnets, etc.
- Magnetic drum separating for higher separation
- Big to a small magnetic field

Ball/SAG Mill

**Transmission Magnets**
- Magnetic ball mill magnets at the end of the mill or in the mill, processing materials, etc.
- Increase capacity while decreasing power consumption

Batch Processing

**Magnetic Filters (L and H)**
- Continuous magnetizing separation removes
- Mildly magnetic and highly magnetic separation removes
- Mildly magnetic and highly magnetic separation removes from 10 to 20 micron
- High intensity, high gradient magnetic beads up to 1200 gauss
- Magnetic filters waiting for wanted mixed materials from fine to flowing liquids

**Superconducting PowerBox**
- Magnetic filters waiting for wanted mixed materials
- High conductivity, high magnetic strength
- Large volume of iron filler cards
Material Handling & Tramp Iron Removal

End is the world leader in providing equipment to detect and remove dangerous unferrous metals from materials being conveyed. These tramp metals can cause serious damage to expensive downstream processing equipment if left unattended. Systems to catch both nonferrous and ferrous metals are available.

Tramp Iron Removal - Suspended Magnets

**Oil Cooled Electromagnets**
- Suspends denseferrous waste iron and scrap
- Electrical, heat resistant, corrosion resistant, low air resistance
- Self-cleaning models available

**Large Diameter Core Magnets**
- High density suspension
- High performance in standard diameters
- Custom designs for specific needs

**Super Conducting Magnets**
- Eliminate noise in sensitive environments
- High conductivity at zero electrical resistance
- High conductivities up to 95%, 100% for their service

**Force Cooled Electromagnets**
- Contacts high-power magnets assembly
- Heat exchangers and magnetic models

**Permanent Magnets**
- Use of demagnetizer
- Up to 30° wide conveyor

**Pulley Magnets**
- Reduces the need for pulleys on belt conveyors
- Contact welder for high performance
- Contact welder for high performance

Metal Detectors

**Metal Detector - 1000 Series**
- Detects and removes ferrous, nonferrous, and nonmetallic ferrous
- Operates in various particle sizes
- Can operate at up to 1200 rpm

**Electromagnetic Vibratory Feeders**
- High frequency, high intensity, high performance
- Easy to maintain
- Long service life performance

Feeders
Flotation Systems

ERIEZ Flotation systems offer maximum separation efficiency in many applications including roughing scavenging, and cleaning in both nonferrous and non-metal applications. In addition to flotation equipment, the ERIEZ Flotation Division (EFD) offers many other products including hydraulic separators, distributors and an array of laboratory and pilot scale equipment.

Flotation

Column Flotation Cells
- Improved recovery - Lower recoveries
- Higher column efficiency
- Choice of section methods including the standard (Hazen) and Cavitator® (Eriez) flot cells
- Flexibility of column height and column diameter

HydroFloat® Separator
- Multi-stage, continuous, counter-current flotation
- Can be configured for either a leaching or flotation circuit
- Low recovery and cost
- Easy maintenance, pillow-less design

CrossFlow® Separator
- High through-put classification of solids
- Can be configured for either a leaching or flotation circuit
- Low recovery and cost
- Easy maintenance, pillow-less design

Lab Equipment and Services
- Laboratory Flotation Equipment
- Small scale equipment for laboratory testing
- Equipment for full scale testing
- On-site technical support and consulting services

Sparging

SmarStrip®
- Bikeller - removable, single, large volume cell with NO plug-plugging or fouling

CarbOlix®
- CarbOlix - uses hydrodynamic containment to prevent plugging
- Lower maintenance requirements

For more information about ERIEZ Flotation Division products:
visit: flotation.eriez.com
call: +0033.30.2.260
email: info@eriez.com
Magnetic Equipment

Similar to the equipment used in wet processes, Erié uses drum, roll, pulley and filter type magnetic separators in varying degrees of intensity to process dry minerals. These processes require conveyors, feeders and belts to prevent the material to the magnetic separators in underbelt, overbelt or gravity-fed applications.

Continuous Processing

Magnetic Drums (LMI)
- Three multipole magnetic elements for non-ferrous metal removing
- Drum drive centered for precision and accuracy
- Greatly reduces belt wear

Dry Cobbling Pulleys
- Permanent magetic in steel pillow
- Separates ferrous from non-ferrous on a belt conveyer
- Abrasive and electric magnets available
- High density cobbling of ore
- Engaged conveyor design to minimize plant space

Batch Processing

Magnetic Filter
- High intensity, high-gradient electromagnetic
- Improved concentration from dry
- Can be adapted for wet applications
- Eroded unferric magnetic field of 10,000 gauss

Magnetic Drums (RMI)
- Magnetic drum for concentrated or weak concentration in wet and dry applications
- High speed for maximum throughput
- Perfect for removing fine ferric and non-ferric materials
- Suitable for minerals, ores, and recycled material

Magnetic Rolls
- Magnetic Screen (MSS) Model Roll
- Ideal for magnetic separation
- Can be used in various applications
- Suitable for wet and dry applications
- Available in a range of diameters
Eriez worldwide system of manufacturing, sales and service

5-Star Service Center
Eriez Erie Service Center, located in Erie, PA, is staffed with an experienced team of professionals available through our 24/7 hotline, 1-800-582-CHEM. We can expedite CEM parts and offer on-site CEM liquidation, installation, and repair services.

For your flotation needs, contact Eriez Flotation Division at
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Eriez Technical Centers
Eriez operates several of the most competitive sales locations in the United States. The Eriez Wagon Road rental lab is home to more than 100 pieces of separators, separators, and separation equipment. The Eriez Technical Support Facility houses more than 130 employees in a 14,000-square-foot building. In addition, Eriez Technical Support Services is designed for efficient, user-friendly, and user-friendly sales and service support.

World Authority in Separation Technologies
Eriez worldwide system of manufacturing, sales and service

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