



Aggregates

EQUIPMENT FOR THE AGGREGATE INDUSTRY



Magnetic Metal Separators



Suspended Permanent Magnets

Powerful CP & TP series permanent magnets remove large tramp metals from conveyed materials with deep burden depths. They are typically used to protect downstream crushers and other valuable equipment.

- **Powerful magnetic field**
- **Low operating cost**
- **Simple installation**
- **Permanent magnet requires no power**
- **Uninterrupted magnetic protection**
- **230V/480V input for drive**
- **Manual-cleaning or self-cleaning models available**
- **Hydraulically driven self-cleaning units available**



Manual-Cleaning

Suspended Electromagnets

Remove large dangerous tramp metals from conveyed rock and aggregate to protect downstream crushers. Electromagnets provide deep magnetic fields to extract iron, and offer off/on functionality for simple cleaning and added safety.

- **Wide variety of sizes to cover all conveyor widths**
- **Five-year warranty on coil assembly**
- **Manual-cleaning or self-cleaning models available**
- **(6) EriezXpress models available in 10 days**



Self-Cleaning

Drum Magnets

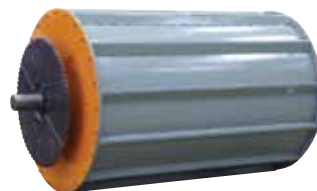
Drums for existing housings or structures are available in many sizes.

- **Automatic self-cleaning operation**
- **Criss-cross, agitation, rare earth and salient Pole rare earth styles**
- **Ideal for high-volume ferrous removal**

Scrap Drum Magnets

These heavy-duty, high-volume ferrous separators are typically used to remove or recover metals. The P-Rex Rare Earth model is possibly the strongest permanent magnet on the planet.

- **Available to 84" diameters and 72" widths**
- **Up to 15" magnetic field reach**
- **Available in permanent and electromagnetic versions**
- **Ideal for high-volume, heavy-duty applications**



Magnetic Head Pulley

This magnetic pulley replaces the head pulley on a conveyor, attracting and holding the ferrous metal to the belt to achieve very effective continuous separation. These pulleys can also be positioned over a main conveyor to remove surface iron or provide a final check.

- **Self-cleaning, low cost protection**
- **8" to 36" diameters**
- **Available in permanent and electromagnet construction**
- **Ideal for high speed, heavy burden depths and hard-to-separate materials**



Metal Detectors



Vibratory Equipment



1200 Series

Metal detectors in the 1200 Series are rugged, lightweight and compact units that are easy to install and maintain. 1200 Series units are extremely stable and will not false trip when subject to industrial vibration.

Electronic circuitry rejects most RF transmitted signals, including hand-held FM transmitters, which often causes other metal detectors to false trip. 1200 Series Metal Detectors are effective in difficult material handling situations such as detecting large tramp metal and small metal pieces in extremely wet, conductive products or in very heavy burden depths.

MetAlarm Series

The MetAlarm Metal Detector is used to detect ferrous, nonferrous and stainless steel metals dispersed in limestone rock, coal and many other products. Detection takes place as the feed material passes over the coils.

When metal is detected, a signal is generated, causing an automatic reject to be activated or the conveyor belt stopped. All of the controls are remote, and may be located up to 66 feet (20 m) from the search head.

Mechanical Feeders

Eriez' HV feeders are the premier mechanical feeder for high volume applications. The lowest profile feeder available comes with outboard adjustable drive angle springs for easy maintenance and superior product flow. Low-horsepower, high-capacity mechanical feeders handle bulk materials in volumes up to 1,820 tph.

- **Low-profile design requires minimum headroom**
- **Capacities to 1,820 tph**
- **Provide accurate control of flow rates**
- **Electric motor driven eccentric shaft**
- **Simple, stable, variable speed controller**
- **Uses off-the-shelf motors, belts and bearings for easy maintenance**
- **Tray widths to 84" and lengths to 120"**

Electromagnetic Feeders

Heavy-duty feeders for precise metering of material less than 12" in diameter. Patented AC drives use half the energy typical DC drives consume while offering unsurpassed linearity. Designed for large capacity and difficult material handling operations up to 850 tph.

- **10 large capacity models**
- **Capacities to 850 tph**
- **Optional variable rate feeder control**
- **Multiple drive configurations**
- **Covers and abrasion resistant liners available**
- **Overhead or under drives**
- **Base or suspension mounting**
- **Tray widths to 64" and lengths to 108" on a single drive**

Electric Rotary Vibrators

AC electromagnetic drive provides years of trouble free operation. Vibrators can cycle up to 30 times per minute.

The electric rotary motor vibrator attaches to hoppers or chutes to promote consistent material flow of your bulk material. Available in a broad range of sizes and 900 to 3600 RPM.

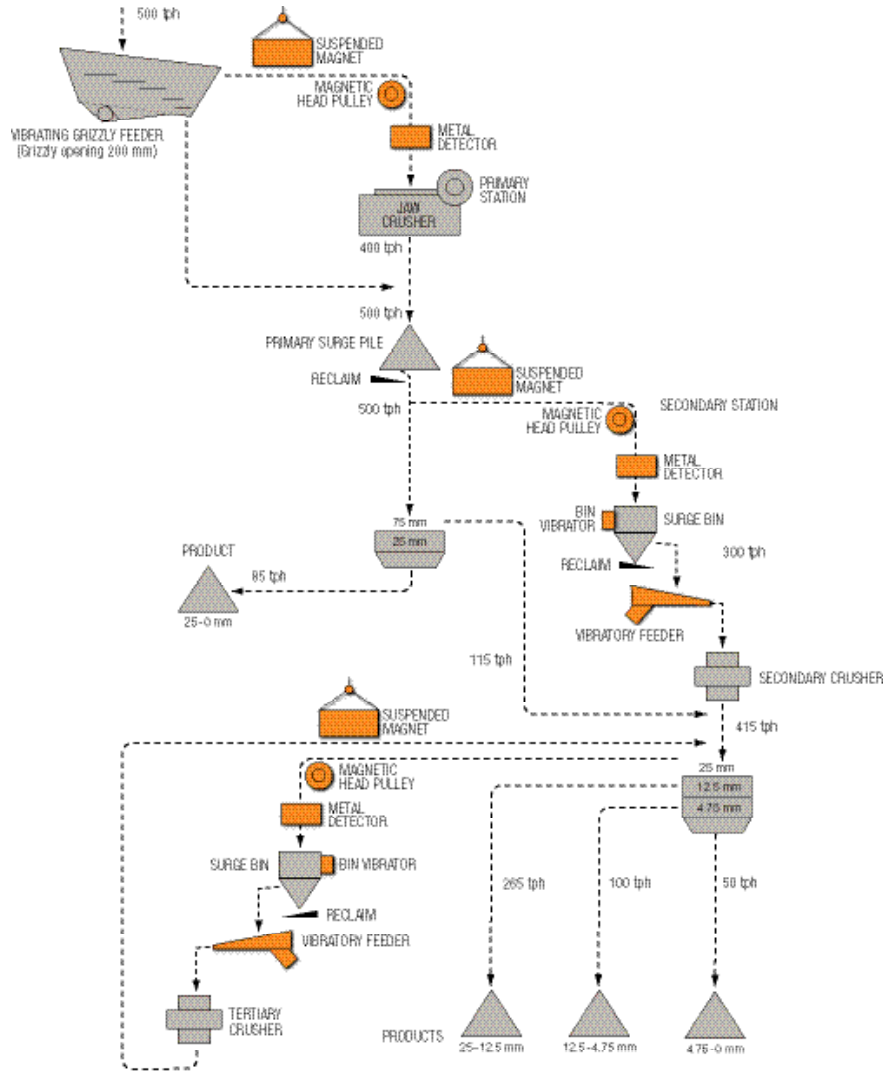
- **72 models offer 70 to 28,000 lb./force**
- **Suitable for dusty or wet environments**
- **Certified for Class II, Div. 2, Group F, G Hazardous Environments by ETL**

Bin Vibrators

- **12 models available for 5 cu ft to 60 tons/hr hoppers**
- **Applications from tiny hoppers to huge bunkers**
- **Energy efficient AC operation cuts power use**
- **Optional solid state controls mounted in NEMA 12 or 4X enclosures**



Typical Process Flow - 500 TPH



WORLD AUTHORITY IN SEPARATION TECHNOLOGIES



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Note: Some safety warning labels or guarding may have been removed before photographing this equipment.

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