Coolant Handling and Recycling
Eriez, long known for the development of magnetic equipment to process and handle ferrous materials, parts, scrap and waste, offers a full range of fluid management equipment.

Eriez’ equipment can extend the useful life of cutting fluids, improve their performance and reduce overall coolant costs by as much as 75%.

Magnetic Equipment
Magnetic equipment handles all types of steel material throughout the plant. Lifting magnets move and position steel plates, sheet and tubes or fabrications around a shop, while magnetic conveyors easily remove steel chips and swarf from machine tool sumps.

Feeders and Conveyors
Eriez’ vibratory feeders and conveyors are capable of moving high volumes of raw materials or providing precise metering.

“With the Eriez Sump Cleaner, it now takes two hours to do the complete job, which used to take 7 or 8 hours per machine. The waste oil is filtered off at least once a year and we have a 90 percent re-usage. The re-usage saves us 50 percent on oil consumption. We save almost $70,000 per year in cutting oil alone. Add in labor savings and reduction in downtime and the total payback is over $150,000 per year.”

TSUBAKI AUTOMOTIVE

“The Eriez Sump Cleaner literally paid for itself in the first use.”
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“With the Eriez Sump Cleaner, it now takes two hours to do the complete job, which used to take 8 to 11 hours per machine. The filtered oil is at least one time now which saves at 50 percent or more compared to the new oil. Almost 70 percent over a year. We save about $70,000 per year in cutting oil alone. Add in labor savings and reduction in downtime and the total payback is over $150,000 per year.”

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Erie offers fluid management solutions to remove chips, tramp oils, and fine particulate, then replenish these used cutting fluids. Equipment maximizes coolant effectiveness and longevity, improving machine tool productivity and reducing disposal costs.

**Fluid Management**

- Air venturi vacuum generator
- Machine tool sump cleaning
- Refractometers to measure concentrate
- Mixing units to balance concentrate

**Concentration Controls**

- Oil removal rate: 1.5 GPH
- Multiple belt lengths and materials
- 1" and 3" models
- Removes surface oils

**Oil Skimmers**

**Applications**

- Productivity and reducing disposal costs.
- Replenishes coolant from the pump
- Steel and iron transfer steel and iron
- Manual remote control

**Tank Side Coalescer**

- Available in many configurations
- Fully enclosed and submersible
- Continuously removes and elevates ferrous chips, parts and fine contaminants.

**Magnetic Conveyors**

- High-speed and mechanical units available
- Full stainless steel and non-wear parts
- Fully enclosed and submersible
- Magnet conveyor solutions for difficult metalworking applications

**Magnetic Sheet Fanners**

- Magnetic circuit makes light or heavy-gauge metal separate and fan easily
- Mesh, perforated plate and rod deck screens
- Separate finish media from parts
- Screen abrasive fines from good media or parts

**Screeners**

**Applications**

- Separate finish media from parts
- Screen abrasive fines from good media or parts
- Separate finish media from parts
- Screen abrasive fines from good media or parts

**Screeners**

**Magnetic & Vibratory Material Handling**

- The use of magnetic and vibratory material handling equipment allows large volumes of chips, small parts and spent metal to be collected and fed to specific flow rates. Multiple designs and models make it easy to find a suitable solution to any of your material handling needs.

**Magnetic Separators**

- Magnetic circuit makes light or heavy-gauge metal separate and fan easily
- Mesh, perforated plate and rod deck screens
- Separate finish media from parts
- Screen abrasive fines from good media or parts

**Magnetic Grates**

**Magnetic Conveyors**

- High-speed and mechanical units available
- Full stainless steel and non-wear parts
- Fully enclosed and submersible
- Magnet conveyor solutions for difficult metalworking applications

**Magnetic Sheet Fanners**

- Magnetic circuit makes light or heavy-gauge metal separate and fan easily
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**Screeners**

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**Magnetic Sheet Fanners**

- Magnetic circuit makes light or heavy-gauge metal separate and fan easily
- Mesh, perforated plate and rod deck screens
- Separate finish media from parts
- Screen abrasive fines from good media or parts

**Screeners**

**Magnetic & Vibratory Material Handling**

- Efficient and cost-effective handling of chips, small parts and spent metal
- Multiple designs and models available at specific flow rates
- Easy to find a suitable solution to any of your material handling needs.
Fluid Management

Oil Skimmers
- for drum overfill protection
- Machine tool sump cleaning
- Oil removal rate: 1.5 GPH
- 1” and 3” models

Portable Coolers
- Process rate: 5-15 GPM
- 5-gallon oil container with fluid level detector
- Built-in clean coolant discharge pump
- Removable free and emulsified tramp oils
- Process rate: 1.5 GPM
- 15-gallon drum with an adjustable skimmer
- Allows oils to naturally rise outside a turbulent sump
- Replenish sump with clean fluid
- Removes chips, oils, and fines

Low-Speed Centrifuge
- Process rate: 1-3 GPM
- 111 sq. ft. of coalescing area
- Remotely controlled motor
- Capacity: 200 to 500 gallons

Portable Coolers
- Process rate: 1-4 GPM
- 11 sq. ft. of cooling area
- Motor and controls
- Temperature controlled
- Process rate: 7-10 GPM

Magnetic Conveyors
- Applications: Feeding, Conveying, Screening
- Magnetic conveying solutions for difficult metalworking applications
- Magnetic & Vibratory Material Handling
- Magnet roll conveyor systems
- Magnetic belt conveyor
- Multiple models available
- Accepts any material
- High speed and steep inclines
- Magnetic & Vibratory Material Handling
- Many styles for all applications
- Located on conveyor lines
- Great for finished parts
- Handles large volumes of chips, small parts
- Distributes materials
- Magnetic & Vibratory Material Handling
- Magnetic separation and feeding equipment
- Multiple models available
- Accepts any material
- High speed and steep inclines
Magnetic & Vibratory Material Handling

The use of magnetic and vibratory material handling equipment allows large volumes of chips, small parts, and other ferrous material to be collected and fed at specific flow rates. Multiple designs and models make it easy to find a suitable solution to any of your material handling needs.

**Applications**
- Feeding
- Conveying
- Screening

**Vibratory Feeders**
- Electromagnetic Feeders
  - Available in many configurations
  - High-speed and mechanical units available
  - Used for various applications

**Conveyors**
- Magnetic conveyors are ideal for handling heavy parts
- Designed for a variety of applications
- Long lengths and large parts are easily conveyed

**Screeners**
- Sifters, perforated plate, and trommel screens are available

**Magnetic Material Handling**
- Chip & Parts Conveyor
  - Designed to handle various materials
  - Fully enclosed and submersible
  - Available in many configurations

**Magnetic Belt Conveyor**
- Designed for heavy loads
- OSHA-compliant and low maintenance

**Magnetic Separation & Conveyor**
- Designed to maximize production
- OSHA-compliant and low maintenance

**Magnetic & Vibratory Material Handling**
- Magnetic separators are ideal for handling small parts
- Designed for a variety of applications
- Easy to operate and handle

**Magnetic Separators**
- Available in 3 strengths and four heights
- Magnetic circuit makes light or heavy-gauge materials easy to handle

**Screeners**
- Magnetic Drum Separators
  - Designed for difficult applications
  - Available in various configurations

**Magnetic Drum Separators**
- Round, bipolar, and multiple units
- DC and AC electrically operated

**Electromagnetic Feeders**
- Located on conveyor lines
- Magnetic Radial
  - Designed for radial discharge
  - Available in 3 strengths and four heights

**Magnetic Material Handling**
- Magnetic Sheet Fanners
  - Available in three strengths and four heights
  - Magnetic circuit makes light or heavy-gauge materials easy to handle

**Screeners**
- Magnetic Sheet Fanners
  - Available in 3 strengths and four heights
  - Magnetic circuit makes light or heavy-gauge materials easy to handle

**Magnetic & Vibratory Material Handling**
- Magnetic & Vibratory Material Handling equipment is designed for various applications
- High-speed and mechanical units available
- Ideal for various applications

**Fluid Management**
- Our lidding magnetic safety lift transfers metal from any shape and weight quickly without slings, hooks, or roll-off
- Easy to operate and handle

**Applications**
- Machining
  - Conventional Grinding
  - Deep Feed Grinding
  - Super Abrasive Machining
- Water Filtration
  - Refrigerators to measure concentrate
  - Mixing units to balance concentrate

**Concentration Controls**
- 1” and 3” models
- Removable surface oils

**Oil Skimmers**
- 250 to 5,000 lbs.
- Five models available

**Electro Lift Magnets**
- 450 to 7,500 lbs.
- Four models available

**Magnetic Drum Separators**
- Heavy parts are easily handled
- OSHA-compliant and low maintenance

**Magnetic Sheet Fanners**
- Designed for radial discharge
- Available in 3 strengths and four heights
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