

# ERIEZ



## METALWORKING

EQUIPMENT FOR THE METALWORKING 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 material handling equipment, fluid recycling, magnetic separation, metal detection, X-ray inspection, and flotation 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.

# Equipment for the Metalworking Industry

## Magnetic Material Handling

Lifting magnets move and position steel plates, sheets, and tubes around a shop, while magnetic conveyors easily offer a low cost, virtually maintenance-free way to move and elevate lightweight ferrous materials.



## Fluid Recycling Equipment

Eriez offers a full range of fluid recycling and solids removal products that cut down on disposal costs and improve tool life.

Extend the useful life of coolants and cutting fluids. Improve their performance and reduce overall coolant costs by as much as 75%.



## Vibratory Feeders and Conveyors

Eriez vibratory feeders and conveyors move and precisely meter high volumes of raw materials of all sizes.



From tough lifting applications to maintaining ultra-clean metalworking fluids, Eriez material handling and fluid recycling equipment handle challenges the metalworking industry faces with ease, while increasing safety, improving product finishes, and reducing costs.

# Magnetic Material Handling

Eriez magnetic material handling equipment removes metal chips, parts and other fine contaminants, as well as lifting and holding steel, iron and other ferrous materials.

## Lifting Magnets

Make the difficult, time-consuming work of steel handling simple and quick. Eriez magnets lift and transfer steel and iron of any weight and shape without slings, hooks or cables – without marring the surface.

Require fewer operators and personnel, and – when properly installed and operated – provide greater safety than many other mechanical materials handling devices.



## Magnetic Chip and Parts Conveyors

Provide a virtually maintenance-free way to move and elevate ferrous materials such as chips, turnings, small parts and stampings.

The unit is self-contained, save for an externally mounted drive motor, with the conveyor mechanism is completely enclosed. There are no moving external parts to jam, break or endanger personnel.



## Magnetic Coolant Cleaners

Eriez Coolant Cleaners are designed for use wherever clean coolant is needed.

Built for surface grinders, gear grinders, honing and lapping machines, broaches, milling and drilling machines, face grinders, oil reclaiming machines, these cleaners keep machine tools running longer and more accurately with lower costs per unit produced.



## Magnetic Sweepers

Fast, efficient, and practical, Eriez electromagnetic and permanent magnetic sweepers rid large surface areas of hazardous pieces of iron. In one quick sweep they prevent costly tire damage, reduce equipment downtime, and eliminate multiple safety hazards.



## Finishing Mill Unloaders

Increase productivity in your parts finishing operations by quickly and automatically removing ferrous parts from the media. All three models use a powerful permanent magnet pickup. Able to be quickly and easily wheeled into position beside the mill, they are hydraulically lowered into position.



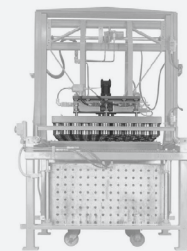
## Magna-Rails and Rolls

An ever-present need within many processing industries is the ability to hold steel parts firmly on moving belt conveyors. Such conveyors, fitted with Eriez Magna-Rails®, ensure that parts do not fall off, even when being elevated or lowered. The industry standard for nearly four decades, Magna-Rolls® are commonly used in direct contact with steel sheets and tubing. Their firm magnetic grip helps ensure that when the roll turns, the steel moves.



## Magnetic Palletizer/Depalletizer

Remove an entire layer of steel cans at one time from multilayer stack of cans quickly and smoothly, without tumbling, jamming, or causing can damage. The entire layer can be transferred to a takeaway belt, a retort, or any other area. The magnet can also be used in reverse order to deposit a layer on a pallet. The operation can be repeated to form a multilayer stack.



## Sheet Fanners

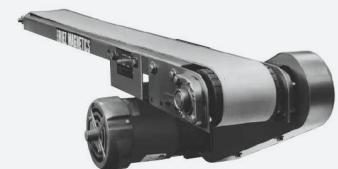
Make semi-sticky, oily, bent, or heavy-gauge sheet steel "fan" with ease. Provide new efficiency to slow or difficult sheet feeding. Designed for presses, brakes, and shears, Eriez Sheet Fanners eliminate prying, "doubles," and marring of polished and painted sheets.



## Magnetic Belt Conveyors

Efficiently move and elevate ferrous materials such as parts, stampings and containers.

Hold materials firmly while keeping them moving, virtually eliminating jams and reducing the need for manual handling.



## Bar Magnets

These powerful, compact and economical magnetic units are ideal for many separation and automation functions. Remove ferrous contamination present in small amounts in shallow flows of powder, granules, fibers, liquids.



# Magnetic Material Handling

Eriez provides comprehensive fluid management technology serving the metalworking industry. Our equipment maximises coolant effectiveness and longevity, enabling companies to improve productivity and reduce disposal costs.

## Applications

- Machining
- Creep Feed Grinding
- Conventional Grinding
- Super Abrasive Machining
- Water Jet Cutting
- Parts Washing

### Solids Removal Equipment

Eriez offers the widest selection of sump cleaners in the industry. Solutions range from inexpensive drum top cleaners to the industry's widely recognized sump cleaner. Manufactured since 1974, these heavy-duty industrial wet/dry vacuum filtration units clean virtually any machine tool sump, tank, or pit quickly and thoroughly.



### Coolant Recycling Equipment

Our metalworking fluid management solutions are specifically geared to the type and brand of fluid in use in your facility. Our recycling equipment is designed with extensive engineering expertise and backed by a fully trained and experienced service department.



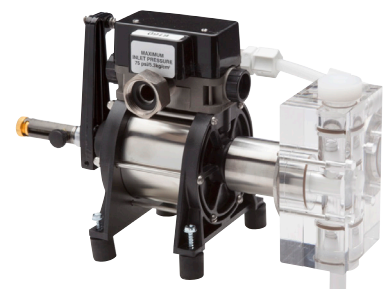
### Tramp Oil Removal Equipment

Eriez offers a complete line of equipment to remove tramp oils from your metalworking fluids. Removing them should be a high priority for all metalworking plants. Tramp oils can cause a variety of problems.



### Fluid Concentration & Control Equipment

Eriez offers a complete line of concentrate mixers to meet the needs of all metalworking plants. Maintaining tight fluid concentration control ensures that fluid never becomes too lean or too rich.



# Feeders & Conveyors

The use of vibratory material handling equipment allows large volumes of chips, small parts and other ferrous materials 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.

## Electromagnetic Feeders

Moves any low or high-volume material. Offers precise feeding, from small batches to large amounts.



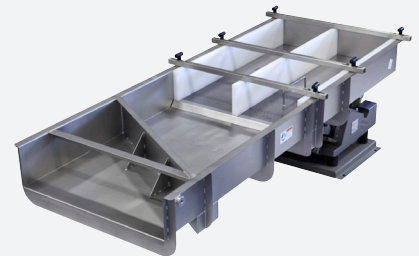
## Conveyors

Simple and rugged conveyors provide controlled movement of large volumes of bulk materials. They are available in single and two-mass vibrating systems which are excited by a motor-driven eccentric shaft. These vibrating machines feature a compact, straight-line design that presents a low profile, yet enables easy maintenance.



## Screeners

These easy-to-operate units allow trouble-free and quick tuning to specific feed rates, product and separation requirements. Benefits are many, including separating finished media from parts, long screen life and no damping under loads. Mesh, perforated plate and rod deck screens are available.



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## HEADQUARTERS

2200 Asbury Road • Erie, PA 16506-1402 U.S.A.  
+1-814-835-6000 • [eriez@eriez.com](mailto:eriez@eriez.com)  
[www.eriez.com](http://www.eriez.com)

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**Australia**  
Epping, Victoria  
+61 3 8401 7400



**Brazil**  
Belo Horizonte, Minas Gerais  
+55 31 3281 9108



**Canada**  
Delta, British Columbia  
+1 604-952-2300



**Chile**  
Las Condes, Santiago  
+56 2 29523400



**China**  
Qinhuangdao and Tianjin  
+86-22-8390-4608



**Germany**  
Ennepetal  
+44-75-5780-9761



**India**  
Athipet, Chennai  
+91-044-2652-5000



**Japan**  
Urayasu, Chiba  
+81-47-354-6381



**Mexico**  
Querétaro, Tlalnepantla  
+52 555 321 9800



**Perú**  
Surco, Lima  
+51 1 719 4150



**South Africa**  
Boksburg, Gauteng  
+27-11-444-9160



**United Kingdom**  
Bedwas, Caerphilly  
+44-29-2086-8501



**United States**  
Erie, Pennsylvania  
+1-814-835-6000