



METALWORKING

EQUIPMENT FOR THE METALWORKING INDUSTRY



EQUIPMENT

APPLICATIONS	Chip & Parts Conveyors	Coolant Cleaners	Conveyor / Coolant Cleaner Combo	Magnetic Belt Conveyors	Magnetic Traps	Vibratory Conveyors	Magna Rolls & Rails	Sheet Fanners	Magnetic Separators	Magnetic Drum & plates	Lift Magnets
CHIP & COOLANT PROCESSING											
- Conveying steel chips	✓			✓			✓				
- Removing steel fines from coolant		✓	✓	✓							✓
- Conveying non-ferrous chips							✓				
MATERIAL HANDLING											
Conveying											
- punch press parts or scrap	✓					✓	✓				
- small components or cast parts	✓					✓	✓				
- fasteners (nuts, bolts, nails)	✓					✓	✓				
Sheets, bars, tube & pipe processing											
- Separate sheets for feeding shears or press									✓		
- conveying steel sheets, tube, pipe or parts						✓		✓			
Lifting											
- sheets, plate, bars, tube & pipe, castings, fabrications											✓
MATERIALS SEPARATION											
Removing ferrous contaminant from lubricants or coolants		✓		✓						✓	
Screening / Separation											
- sizing of components or finishing media							✓				
- separate parts from finishing media						✓	✓		✓	✓	
- cleaning of finishing media									✓	✓	
Recover valuable materials from:											
- machining									✓		
- stamping									✓		
- parts finishing									✓	✓	
- sand blasting									✓	✓	



Magna-Rolls

Permanent magnetic rolls efficiently handle pipe, sheets, tubing, bars and shapes on a wide range of manufacturing and processing operations. They can be installed in a number of locations on new and existing conveyor lines to convey, control and hold various steel products.



Sheet Fanners

Eriez HI-POWR sheet fanners easily fan steel sheets, adding new efficiency to the feeding of presses, brakes, shears and other process equipment. The sheets magnetically repel each other. As one is taken from the top of the pile, others rise to higher positions.



Magna-Rails

These magnetic elements, positioned under conveyor belts, provide a positive hold for ferrous parts at high speeds and up inclines as steep as 90°. Two permanent magnet types – alnico and ceramic – are available. Electro magnetic rails are designed for special applications where on-off power is required.



Vibratory Feeders and Conveyors

Precise feeding of a wide variety of ferrous and nonferrous materials is available in Eriez' line of vibratory feeders. All models are equipped with totally enclosed electro-permanent magnetic drives to provide uniform and trouble-free performance.



Coolant Cleaners

Permanent magnetic coolant cleaners remove grinding swarf, helping machine tools run longer and maintain accuracy, with lower costs per unit produced.



Mechanical Feeders and Conveyors

Low-horsepower, high capacity mechanical feeders handle bulk materials and scrap in volumes up to 2250tph (2040mtph). Low-profile, requires minimum headroom. Simple, stable, variable controller. Wide variety of trough sizes and types available.



Grate Magnets

Utilizing the strongest magnets available in the market, Eriez' grate magnets remove ferrous contaminant from any process flow. Use in coolant sumps to capture chips, clean finish media or sand. Available in various sizes, configurations and strengths.



Lifting Magnets

Eriez Magnetics' line of lifting magnets quickly and safely lifts and transfers steel and iron of any shape and any weight a crane can handle without slings, hooks or cables. Available in compact SafeHold permanent magnetic on-off lifting magnets and electro lifting magnets.



Feeder/Conveyor Combinations

Conveyed material flows that require precisely controlled feed rate may benefit from a combination of Eriez Magnetics Vibratory Feeders and Magnetic Conveyors. Models from both of these product families may be matched to produce combinations suited to particular material handling applications.



Magnetic Drum Separators

Magnetic drum separators remove large or small ferrous material from process flows. Separate ferrous from non-ferrous machine chips or punch press scrap, remove ferrous parts and contaminant from finishing media or clean ferrous contaminant from sand. Upgrade scrap value, extend life of blasting and finishing media and safely dispose of metal free (non-hazardous) sand.



Belt Conveyors

Space-saving magnetic belt conveyors provide positive holding action for vertical, inclined or horizontal magnetic materials handling. They can be designed to convey, raise, lower, turn over and orient components made all or in part of steel.



Chip and Parts Conveyors

Permanent magnets moving inside a liquid-tight, submersible housing attract, hold and convey ferrous chips, turnings, small parts and stampings.

Eriez' Chip and Parts Conveyors provide a virtually maintenance-free way to move and elevate ferrous materials such as chips, turnings, small parts and stampings.



Liquid Line Traps

Powerful permanent magnetic traps remove steel chips and fines from coolant and lubricants. Protect pumps and equipment, extend coolant and tool life, and improve finish quality of work piece. Use as secondary filter or where relatively small volumes of contaminant are present.



Eriez History

In 1941, Orange Fowler Merwin, or "O.F." as he was known, sold equipment to grain millers. Among the most common complaints heard from his customers were about "tramp iron" - stray pieces of metal, such as bits of wire, nails and bolts, even horseshoes and hammers, that somehow found their way into the grain the farmers brought to the mills for grinding.

Merwin investigated a new magnetic alloy called "alnico" (a combination of aluminum, nickel, cobalt and iron), which possessed exceptional magnetic qualities, including peak magnetic strength up to 30 times that of cobalt steel. He devised a permanent magnetic separator in 1942 and sold it to a grain miller. His company was on its way.

5-Star Service Center for Equipment Upgrades and Service

Eriez' 5-Star Service Center, located in Lake City, PA, helps eliminate or reduce equipment downtime by ensuring that customers' equipment is quickly back in operation, functioning at peak performance. Our dedicated and experienced team of professionals is available through our 24/7 hotline, 1-888-300-ERIEZ. We utilize original OEM parts and offer on-site field testing, equipment re-manufacturing and full "as new" warranties.

Global Presence

Through innovation, organization and diversification, Eriez Magnetics has evolved into a technologically advanced, financially sound international company with manufacturing facilities in Australia, Brazil, Canada, China, Europe, India, Japan, Mexico and South Africa, as well as its Erie, PA, U.S.A. headquarters. Eriez has sales offices across the United States and some 80 international

markets on six continents.

Customers are assured of consistent product quality and fast response from which ever plant is closest to them. Eriez sales engineers and service teams throughout the world reflect the same customer-oriented philosophy.

Eriez Xpress for Metalworking

EriezXpress products are always in stock and ready for next day shipment from Eriez USA.

Eriez has identified those products most often ordered with fast shipment requirements. The **EriezXpress** program streamlines the order-to-ship process by simplifying product ordering, modifying inventory control and designating a dedicated team to make it all happen.

Upon credit approval, orders received at Eriez-USA by 4:00PM will be processed and shipped the next business day. The many metalworking products in the Eriez Xpress program include: Vibratory Feeders, Lifting Magnets, Bin Vibrators, Coolant Cleaners, Magna-Rolls and Sheet Fanners.

The Eriez Technical Center

Eriez maintains industry's largest magnetic, vibratory and inspection system test laboratory at its Technical Center, adjacent to the headquarters plant in Erie, Pennsylvania, U.S.A. More than 100 pieces of specialized test equipment are on hand. Here, customer products and raw materials are analyzed confidentially and ways to separate or move, screen or detect them more efficiently and economically are then suggested. Feasibility and definitive studies are also conducted.



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World Authority in Advanced Technology for Magnetic, Vibratory and Inspection Applications