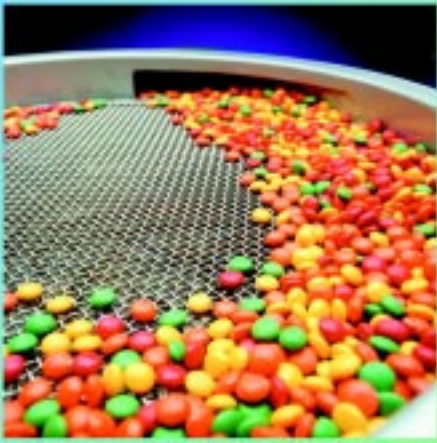


EQUIPMENT FOR THE PACKAGING INDUSTRY



Eriez

is the world leader in the development and manufacture of detection, separation and vibratory equipment for the packaging industry. For more than 50 years, Eriez has maintained a reputation for quality products and a proven expertise in novel solutions for difficult material handling applications. The packaging industry faces unique challenges during processing: how to protect product purity and handle materials in the most efficient and economical way. Eriez offers solutions to customer problems, with superior equipment and services, application know-how, and technical problem-solving in areas of the packaging process such as protecting machinery from tramp metal damage and material handling.

In addition to offering a variety of standard products basic to the packaging industry, Eriez Design Engineers and Applications Specialists are available to assist in the evaluation of material handling requirements — from the planning of new automated facilities to modernization of existing systems. Eriez products, either as individual units or complete systems, are custom engineered to meet specific production requirements.



Metal Detec

E-Z TEC DSP (DIGITAL SIGNAL PROCESSING) METAL DETECTOR



Eriez' New E-Z Tec[®] DSP Metal Detectors are extremely sensitive instruments used to detect ferrous, non-ferrous and stainless steel metal contaminants. The advanced digital signal processing provides customers in the food, textile, pharmaceutical, rubber, chemical, and many other industries, with a unit designed for optimum performance and improved product purity.

Another highlight of the E-Z Tec DSP Metal Detector is the easy-to-use Touch Screen (1/4 VGA) Interface. The 4-inch H x 5-inch wide angled control, with a backlit screen, allows the customer to quickly make changes to the metal detector without having to scroll through different

menus. Product set-up, monitoring and operating the metal detector is simple with the Touch Screen Interface. Numeric data and value entries are made through the on-screen keypad.

For conductive products such as fresh meats, cheeses, fruits, etc., setting up the metal detector to achieve the best performance with these types of products is accomplished through the Auto-Setup Menu. Here minimal passes are required to determine the product settings.

With the E-Z Tec DSP Metal Detector, customers can select two secondary languages to make it even easier for the operator to use. The primary language is English.

FEATURES

- Highly Sensitive
- Touch Screen Interface
- Easy To Use
- Stainless Steel Construction
- Consolidated Electronics
- NEMA 4X Rated
- Auto-Setup
- Self-Checking
- Calibration Verification
- Quick Recovery After Detection of Large Tramp Metal
- Reject Confirmation

SINGLE SURFACE MODELS



Eriez' standard Single Surface E-Z Tec Metal Detector is ideal for a number of applications, products and working environments.

It is particularly effective for detecting tramp metal in large or oversized applications. The flat-surfaced detection area is positioned beneath the (user-supplied) belt or conveyor. This design can accommodate

materials that will not fit through the aperture of standard metal detectors — items such as sheet plastics, wood, woven materials, particle board, and liquids in metal-capped bottles.

The oscillator and receiving coils are wound on a rigid frame and encapsulated within either a rectangular aluminum or stainless steel shell.

CONVEYORS AND CONVEYOR SYSTEMS



A wide range of models are available to move all types of products.

Mechanical Conveyors are highly efficient, single-mass conveyors, designed to move light loads of bulk material reliably and economically.

Space saving magnetic Belt Conveyors provide positive holding action for vertical,

inclined or horizontal materials handling.

Complete conveyor systems are available, which include an E-Z Tec Metal Detector, alarm and reject mechanisms. Stainless steel construction is standard for applications requiring strict product integrity.

VERTICAL REJECT SYSTEMS



Low Profile Vertical Drop

Eriez' E-Z Tec® Low Profile Vertical Drop Metal Detectors are excellent for detection and removal of ferrous, non-ferrous and stainless metal contaminants in gravity fed powder or granulated products.

These low profile units accommodate many applications with restrictive height requirements. The combination of a negligible metal-free area and quick acting chute reject valve design provides a minimal height system.

Upon detection, the E-Z Tec Low Profile Metal Detector will activate a specially designed chute-type reject valve to remove the contaminant from the product flow. The chute valve comes with a removable side plate for easy cleaning.

Eriez' E-Z Tec Low Profile Systems are manufactured from 304 stainless steel, 316 upon request, preventing potential product contamination from painted surfaces. Each system includes an E-Z Tec Low Profile Metal Detector with a control that can be mounted up to 100 feet (30 m) from the detection head. Also included is a stainless steel support stand and an anti-static, non-metallic pipe (FDA approved materials are available) with grounding strap, which prevents static build up, and reduces false detections.

Vertical Form Fill & Seal

Eriez' E-Z Tec® Vertical Form, Fill and Seal (VFS) Metal Detectors are excellent for detection and removal of ferrous, non-ferrous and stainless metal contaminants.

The E-Z Tec® VFS Type Metal Detector will help improve product purity for products processed in Form, Fill and Seal equipment and other applications where vertical heights are extremely restricted.

Its control circuitry allows for instantaneous electronic recovery from phase adjustments, as well as field



switchable narrow zone/wide zone detection capabilities.

Eriez VFS units can be supplied with either analog or microprocessor (MPC) based electronics. Standard sizes for 4, 6 and 8-inch (102, 152 and 203 mm) pipes are available.

Separation

PLATES, GRATES AND TRAPS



Eriez Permanent Magnetic Plates, Grates and Traps (in standard or sanitary construction) are the heart of any separation system for protecting purity through various stages of processing and packaging.

Permanent magnetic Plates, available in several magnetic strengths, protect against medium and small-size contaminants. They can be installed in chutes, spouts, ducts, and in suspension over nonmagnetic conveyors and screens.

Magnetic Grates remove small and fine tramp iron from dry, free-flowing products. They are

designed for steep-sloped hoppers, even with odd and irregular shapes, floor openings, vertical closed chutes, and ducts. Styles include wing and drawer types, grates-in-housing, a barrel adapter type, and a basic model that fits square, round, oval, and odd shaped hoppers.

Traps are used to purify products in liquid and slurry lines by removing small particles of scale, oxides and iron contaminants. Easy to inspect and clean. Six different models. Sizes for pipelines from 1/2 to 18 inches (13 to 457 mm). Rare Earth elements available.

GRATES IN HOUSING

Powerful, permanent magnetic protection against fine and tramp iron contamination in dry, free-flowing products. Designed for simple installation in steep-sloped hoppers, odd and irregular shaped hoppers, floor openings, vertical closed chutes and ducts.

Grate in housing units are available in standard manual cleaning models, easy-to-clean models and fully automatic, self cleaning models.



Grates In Housing can be furnished with standard Erium® permanent magnetic elements, Erium Rare Earth or a combination of both to suit specific applications.

MAGNETIC HUMPS

Effectively remove tramp iron from material conveyed pneumatically or where large volumes of free-flowing materials fall by gravity. Two magnets in a dogleg housing increase iron removal efficiency. Hinged magnets open for easy cleaning. Also available in self-cleaning model and with Erium® 3000 Rare Earth magnetic elements.



ROUND PIPE SEPARATORS



The Round Pipe Separator makes the installation of plate magnets in round gravity flow chutes extremely simple and economical. By building the magnet into a housing designed for efficient and effective tramp iron removal, it eliminates installation expense and assures satisfactory results.

RF CARTRIDGE

The “RF” (Radial Field) Cartridge Magnet is ideal for removing tramp iron from dry, free-flowing food or chemical products conveyed in pneumatic pipelines.

Material enters the housing, is distributed by a solid stainless steel cone and passes in close proximity to the magnetic cartridge. Ferrous contamination is attracted and held by the magnet while the separated product



continues past the magnet and out of the housing. The ferrous contamination remains on the magnet until the cartridge is removed and cleaned.



Vibration

STANDARD AND HIGH SPEED VIBRATORY FEEDERS



Exceptionally high-speed feeding of light, bulky materials. Quick stopping characteristic assures accurate handling of materials for economy and efficiency in mixing, weighing, batching, packaging and bagging operations.

Low-energy-consuming electro-permanent magnetic drive, simple controls and AC operation increase productivity, cost economies and reliability. Coil and magnet encapsulated for trouble-free coil life.



Model HS Feeders are ideally suited for high speed packaging, filling and conveying applications, involving light products. Their unique elastomeric torsion spring, with high damping properties, allows the unit to be operated at .090 inch (2.3 mm) amplitude without danger of spring failure. This elastomeric spring also has extremely rapid decay properties that give Eriez the quickest stop in the industry.

HEAVY DUTY VIBRATORY FEEDERS



Available in eight models for large capacity and difficult material handling operations up to 700 tph (635 mtph). Low energy consuming electro-permanent magnetic

drive, simple controls and AC operation increase productivity and reliability.

High-Volume Mechanical Feeders handle bulk materials in volumes up to 2250 tph (2040 mtph). Low profile requires minimum installation headroom. Designed for fast, easy maintenance.

BIN VIBRATORS



Twelve models for applications ranging from small hoppers to large bunkers. AC operated units provide efficient, economical movement of hard to handle bulk materials.



MECHANICAL AND ELECTROMAGNETIC CONVEYORS



Eriez Model TM Mechanical Conveyors are designed for moving bulk materials over long distances with simple, dependable efficiency.

The Model TM is a spring coupled, two-mass vibrating system using a motor-driven eccentric weighted shaft to provide the exciting force. Fiberglass springs transmit force to the trough.



Trough motion can be "fine-tuned" for specific applications.

Eriez VMC Series Electromagnetic Conveyor is a two-mass vibrating system, spring coupled, powered by one or more unique electromagnetic drive circuits. A variable voltage controller allows precise control of conveyor amplitude.

HORIZONTAL MOTION CONVEYORS

Eriez Gentle Slide™ conveyors are an excellent choice for moving fragile or coated products. Available in a wide variety of tray lengths, widths and shapes, they



may be floor mounted or suspended from above.

SCREEN SEPARATORS

High capacity gyratory screeners for high-viscosity liquid/solid separation, wet or dry separation, and wet or dry classification. Easy operation when tuning to specific feed rates, product and separation requirements.



No damping under loads. Long screen life. Linear screeners are also available.

VOLUMATIC FEEDER MACHINES



These one-piece, compact, rugged assemblies are ideal for use in conjunction with weigh scales, packaging and bagging equipment, small batch operations, and where additive feeding is being performed either continuously or intermittently.

Innovation



STATE-OF-THE-ART ENGINEERING

Computerized systems help improve Eriez efficiency and services throughout the Company. The corporate engineering department's CAD system, with compatible systems in Eriez offices around the world, enables instant access to engineering drawings and information requests from any location. The same designs, drawings, and high quality standards are followed at all plant operations, so that no matter which Eriez manufacturing facility produces the equipment, Eriez customers are assured of quality on a worldwide basis. This is especially important to multinational users of Eriez equipment, who wish to standardize production lines through one supplier.



THE ERIEZ TECHNICAL CENTER

Eriez maintains industry's largest magnetic, vibratory, and metal detection test laboratory at its Technical Center, adjacent to the headquarters plant, in Erie, Pennsylvania, USA. 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. Both feasibility and definitive studies are conducted. Over 100 pieces of specialized test equipment are on hand. Customers are encouraged to participate in the testing. Basic materials separation and material movement test equipment are also available at Eriez affiliates worldwide.



WORLD CLASS MANUFACTURING

Eriez maintains a global perspective through manufacturing facilities at its USA headquarters, as well as in Australia, Canada, India, Japan, Mexico, South Africa and the United Kingdom. To maintain its world class position, Eriez reinvests its profits in modern manufacturing equipment, applied research and development, highly qualified engineering and design staff, and up-to-date testing facilities. Computerized order entry assures consistent quality and timely response on a worldwide basis. Eriez personnel teams reflect the same customer-oriented philosophy of "Right On Time" no matter where they are located.



EriezXpress — WHEN YOU NEED IT NOW!

In the United States, select from the more than 40 most popular Eriez products including plate magnets, ferrous traps, high speed feeders, small coolant cleaners, lifting magnets and grate magnets — every one ready for next-day shipment.

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World Authority in Advanced Technology for Magnetic, Vibratory and Metal Detection Applications

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