

**EQUIPMENT
FOR THE
RECYCLING
INDUSTRY**



Eriez Magnetics is a world leader in the development and manufacture of separation and feeding equipment for the recycling and waste processing industry. Since 1942, Eriez has maintained a reputation for quality products and a proven expertise in novel solutions for difficult material handling applications.

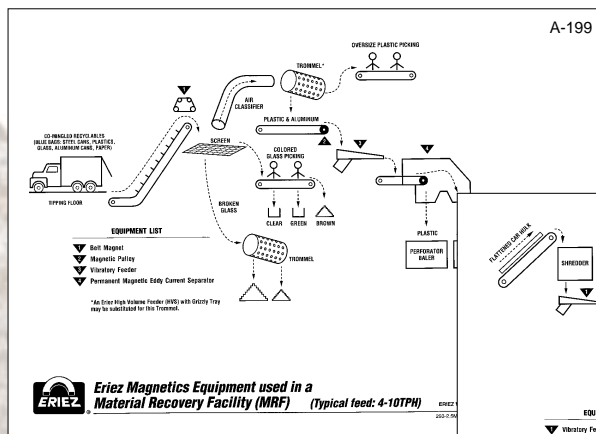
Eriez equipment, either as individual units or complete systems, is designed for the most efficient and economical processing of municipal solid waste, comingled recyclables, shredded automobiles, electronic scrap, glass cullet, plastic (PET), foundry sand and many other resource recovery operations.

Design engineers and applications specialists at Eriez are available to assist in the evaluation of material handling requirements — from the planning of new automated facilities to modernization of existing systems.

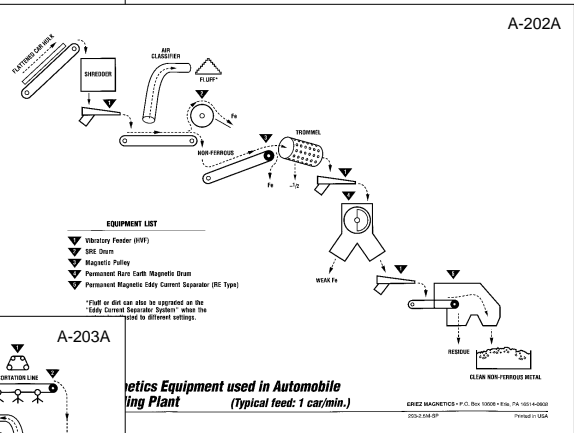
TYPICAL INSTALLATIONS

The diagrams below show suggested configurations for a variety of reclamation applications. More detailed information may be obtained by contacting Eriez.

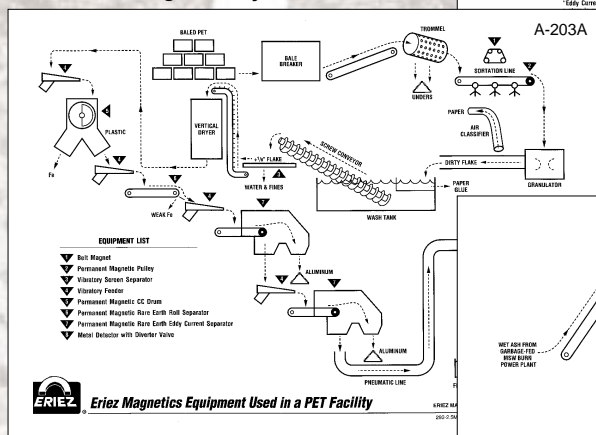
Material Recovery Facility



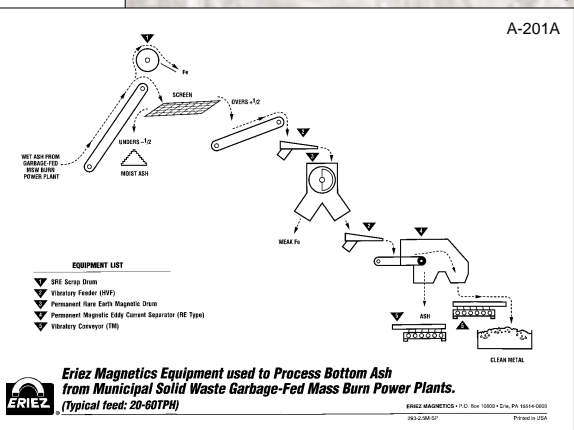
Automobile Dry Shredding Facility



PET Processing Facility



Bottom Ash Processing Facility



EDDY CURRENT SEPARATORS



Separate aluminum and other nonferrous metallics from nonferrous material such as municipal solid waste, bottom ash, comingled recyclables, plastic, glass, foundry sand, electronic scrap and ASR.

These powerful systems utilize permanent rare earth magnets to induce eddy currents into metallic particles. This produces repelling forces which separate metallics from non-metallics.

Eddys available in four strengths and 5 feed widths (12 to 60 inch [305 to 1524 mm]).

MAGNETIC PULLEY



Used as head pulley in belt conveyors for continuous automatic removal of ferrous from nonferrous material. Powerful axial interpole circuit provides very high ferrous recovery.

Eighty combinations of diameters from 8 to 36 inches (203 to 914 mm) and belt widths from 8 to 60 inches (203 to 1524 mm). Electromagnetic units are also available.



DRUM SEPARATORS

Excellent for removal of ferrous material from shredded automobiles, bottom ash, slag and other recyclable scrap including chips, turnings, and stampings.

Smaller models available with permanent or rare earth magnets. Larger units available with permanent or electro-agitating or radial circuits. Housings, drives and frames are optional.



Drums available in 12 to 72-inch (305 to 1830 mm) diameters and 12 to 96-inch (305 to 2440 mm) widths.

SUSPENDED MAGNETIC SEPARATORS



Safely and automatically remove tramp iron and other ferrous material from

heavy product flows being conveyed on belts, vibratory feeders or chutes.

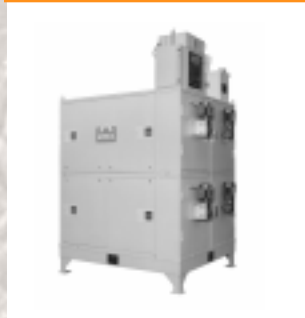
These powerful electro-magnetic separators are self cleaning with a variety of specialized belt styles. Suspended Magnetic Separators are available in 22 strengths and also in permanent magnet designs.

FERROUS TRAPS

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.



ELECTROSTATIC SEPARATORS



Recover valuable metals from electronic scrap by exploiting the differences in surface conductivity

MECHANICAL FEEDERS

Rugged, high-capacity mechanical feeders handle bulk materials in volumes up to 2250 tph (2040 mtp). Accurate flow rate control provided by simple, variable controller. All models are designed for fast adjustment and easy maintenance.

A wide variety of trough sizes and types are available including grizzly decks.



VIBRATORY FEEDERS



Eight models for large capacity and difficult material handling operations up to 700 tph (635 mtp). 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. Wide variety of standard and special trays available including perforated plate or grizzly decks (as shown) which size, as well as convey.

MECHANICAL CONVEYORS

Low-horsepower, high-capacity units for the controlled transfer of bulk materials. Compact design presents low profile,

requires minimum head-room. Flow rates to 60 fpm (18 mpm) at 600 rpm. Easy access to components simplifies maintenance.

METAL DETECTORS

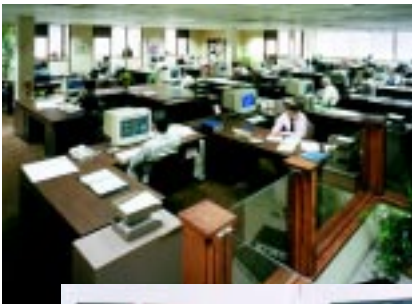
Highly sensitive instruments used to detect ferrous and nonferrous metals in a variety of bulk materials. Installed as a final purity check for materials such as glass cullet and recycled PET.

Available in a wide variety of configurations to suit any product requirement. Systems with controls,



conveyors, reject devices or marker and alarm devices form an integral detection system.





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 is 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.



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

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