

PRO GRADE[®]

ERIEZ[®]

Magnetic Separators



PROGRADE® OVERVIEW

Eriez' new **ProGrade**® magnetic assemblies offer a solution for every process application. Whether you need a low cost plate magnet for equipment protection or a high power, sanitary grate magnet to ensure product purity, **ProGrade** gives you the best for less. All three levels of **ProGrade** magnets are available in grate, plate, tube and trap assemblies. Count on Eriez for all your magnetic separation needs.

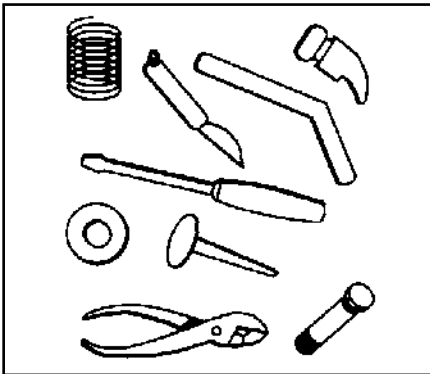


POWER LEVELS

ProGrade Ceramic

Basic protection from tramp metals damaging downstream equipment. Ceramic magnets and quality construction at rock bottom prices.

Designed To Remove

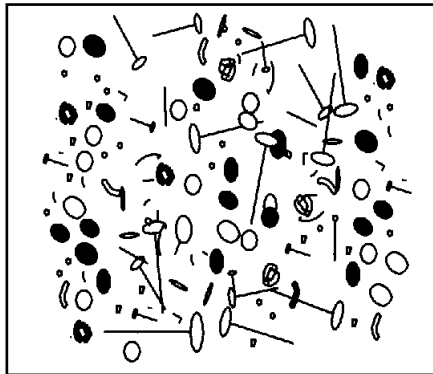


Medium to Large Tramp Metal

ProGrade Rare Earth

Prevents product contamination and tramp metal damage. Assemblies feature stainless steel construction, high-power rare earth magnets with demanding attention to welds and finish.

Designed To Remove

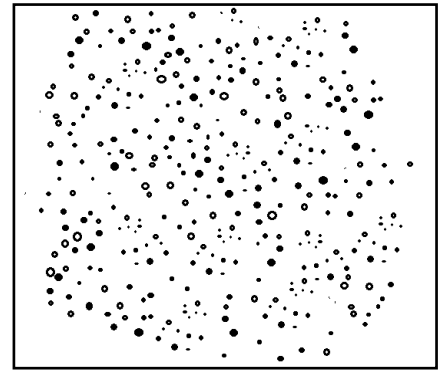


Small Ferrous Contamination

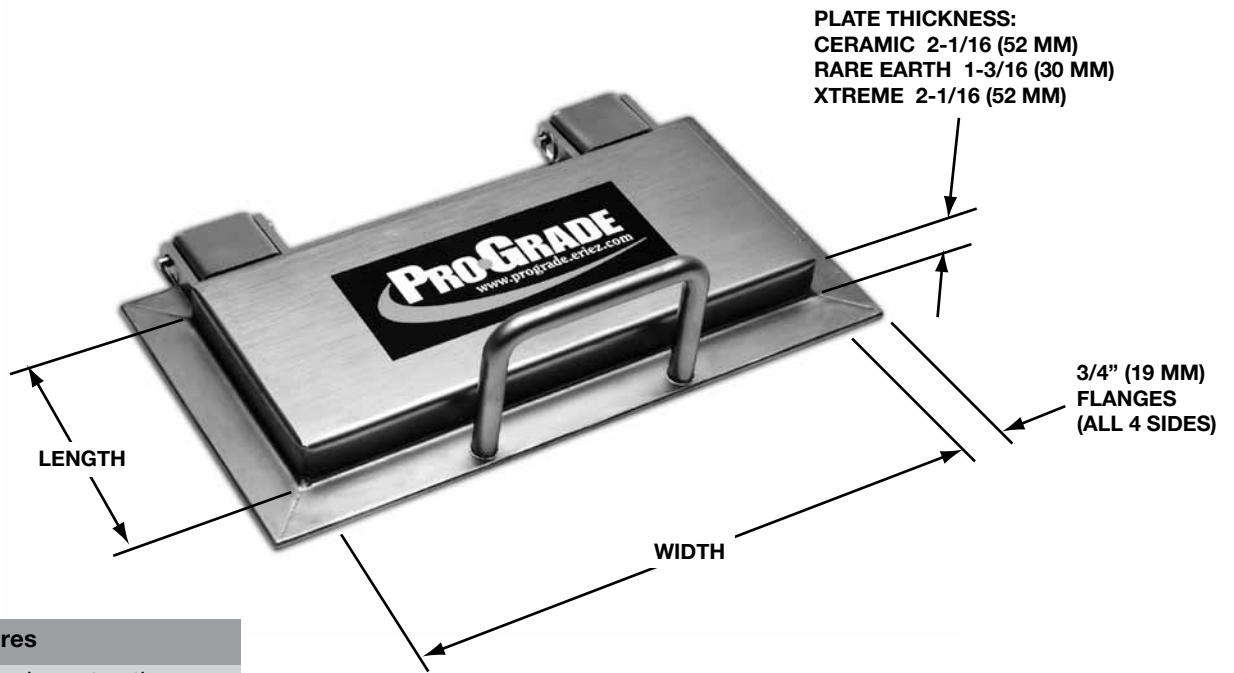
ProGrade Xtreme™ Rare Earth

The ultimate in process purity combines the finest materials and construction techniques with the industry's most powerful Xtreme rare earth magnetic circuits... when you can accept nothing less than the absolute best.

Designed To Remove



Weakly Magnetic
Fine Ferrous Contamination



Standard Features

- All stainless steel construction
- Smooth face with hinges (Ceramic magnets)
- Milled 400 SS step face with hinges (Rare Earth and Xtreme RE)
- Glass bead surface finish
- Sanitary finish (Rare Earth and Xtreme RE)
- 150° F Max Temp (Rare Earth and Xtreme Rare Earth)



Eriez Permanent Plate Magnets, the workhorses of magnetic separation, provide dependable and economical solutions to problems associated with tramp iron contamination in processing lines. Plate Magnets installed in chutes, spouts, ducts, pipes, or suspended over conveyors remove tramp iron to help prevent costly shutdowns associated with machinery damage... prevent spark-caused fires and explosions... prevent product contamination and improve product purity.

CERAMIC

| Width | | Length | | Part No. |
|-------|-----|--------|-----|----------|
| in | mm | in | mm | |
| 6 | 152 | 7-5/8 | 194 | 135711P |
| 8 | 203 | 7-5/8 | 194 | 135667P |
| 10 | 254 | 7-5/8 | 194 | 135712P |
| 12 | 305 | 7-5/8 | 194 | 135668P |
| 16 | 406 | 7-5/8 | 194 | 135713P |
| 20 | 508 | 7-5/8 | 194 | 135714P |
| 24 | 610 | 7-5/8 | 194 | 135715P |

RARE EARTH

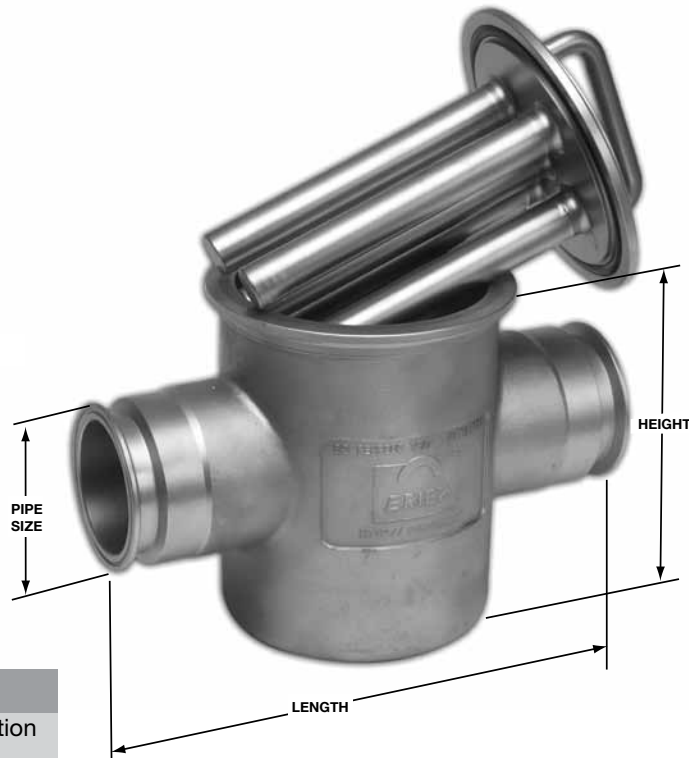
| Width | | Length | | Part No. |
|-------|-----|--------|-----|----------|
| in | mm | in | mm | |
| 6 | 152 | 5-1/2 | 140 | 129906P |
| 8 | 203 | 5-1/2 | 140 | 129908P |
| 10 | 254 | 5-1/2 | 140 | 129910P |
| 12 | 305 | 5-1/2 | 140 | 129912P |
| 14 | 356 | 5-1/2 | 140 | 129914P |

XTREME RARE EARTH

| Width | | Length | | Part No. |
|-------|-----|--------|-----|----------|
| in | mm | in | mm | |
| 6 | 152 | 5-1/2 | 140 | 135283P |
| 8 | 203 | 5-1/2 | 140 | 135285P |
| 10 | 254 | 5-1/2 | 140 | 135287P |
| 12 | 305 | 5-1/2 | 140 | 135289P |
| 14 | 356 | 5-1/2 | 140 | 135291P |

FERROUS TRAPS

MODEL B



Standard Features

- All 316 stainless steel construction
- Cast body
- Pressure up to 150 psi
- Glass bead surface finish
- Ferrule units sanitary construction
- For product and CIP temperatures up to 250° F



These powerful permanent magnetic traps provide protection for liquid lines and sensitive processing equipment such as pumps. They preserve product purity by removing small particles of magnetic scale, rust and fine iron contamination.

The magnetic element, consisting of a group of magnetic tubes, is arranged to cause the material flow entering the body to impinge against the tubes and filter through the magnetic field, completely covering the open area. This arrangement takes advantage of the material change in direction and the difference in inertia between the unwanted iron and the material carrying it. The magnetic circuit is designed so the entrapped iron will have a tendency to work around and cling to the down-stream side of the tubes...this action prevents iron particles from being washed off by the continuous flow of material.

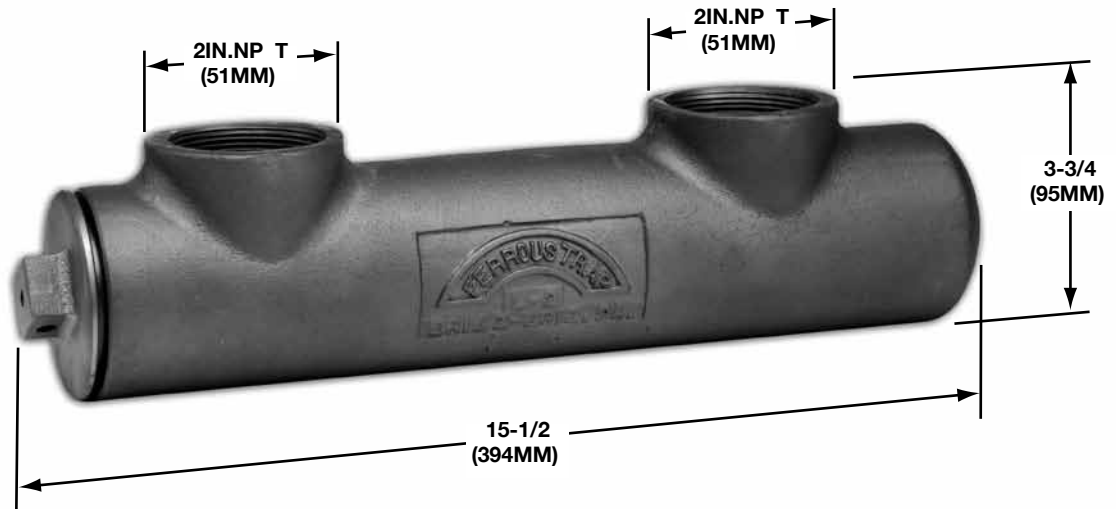
RARE EARTH

| Pipe Size | | Length | | Height | | Sanitary Design | Ports | Part No. |
|-----------|-----|--------|-----|--------|-----|-----------------|---------|----------|
| in | mm | in | mm | in | mm | | | |
| 2 | 51 | 11 | 279 | 7-1/16 | 179 | No | NPT | 132635 |
| 2 | 51 | 11 | 279 | 7-1/16 | 179 | Yes | Ferrule | 132636 |
| 3 | 76 | 12 | 305 | 9-7/8 | 251 | No | NPT | 132637 |
| 3 | 76 | 12 | 305 | 9-7/8 | 251 | Yes | Ferrule | 132638 |
| 4 | 102 | 15 | 381 | 10-5/8 | 270 | No | NPT | 132639 |

XTREME RARE EARTH

| Pipe Size | | Length | | Height | | Sanitary Design | Ports | Part No. |
|-----------|-----|--------|-----|--------|-----|-----------------|---------|----------|
| in | mm | in | mm | in | mm | | | |
| 2 | 51 | 11 | 279 | 7-1/16 | 179 | No | NPT | 134910P |
| 2 | 51 | 11 | 279 | 7-1/16 | 179 | Yes | Ferrule | 134911P |
| 3 | 76 | 12 | 305 | 9-7/8 | 251 | No | NPT | 134912P |
| 3 | 76 | 12 | 305 | 9-7/8 | 251 | Yes | Ferrule | 134913P |
| 4 | 102 | 15 | 381 | 10-5/8 | 270 | No | NPT | 134914P |

MODEL L



Standard Features

- 2-inch NPT Ports
- Cast bronze body
- Single-tube magnetic element
- Pressure up to 150 psi



This Ferrous Trap model has been designed to serve as an effective, low-cost, magnetic pipeline trap where operating conditions are not too severe. This unit is of nonsanitary cast bronze construction capable of withstanding pressures up to 150 psi (10.5 kg/sq cm). It is built for 2-inch (51 mm) pipelines; standard reducers can be used to adapt it to lines as small as 1/2-inch (13 mm).

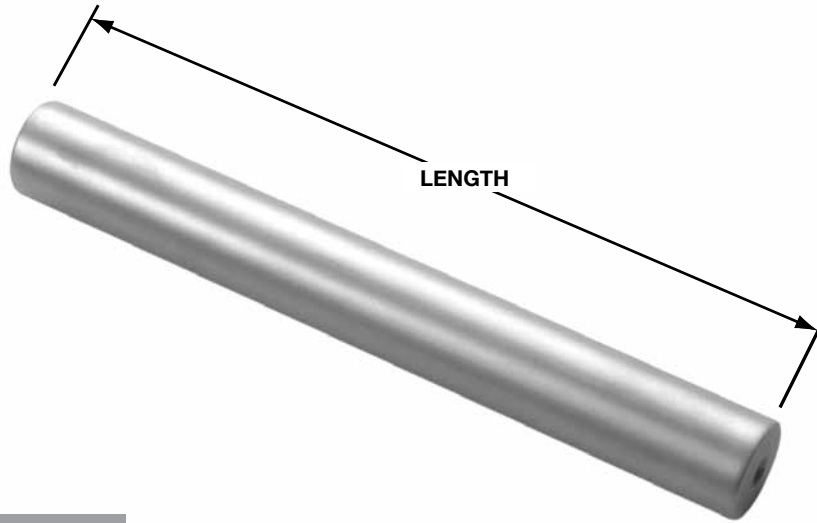
CERAMIC

| Size | | Part No. |
|------|----|----------|
| in | mm | |
| 2 | 51 | 135716P |

RARE EARTH

| Size | | Part No. |
|------|----|----------|
| in | mm | |
| 2 | 51 | 135707P |

TUBE MAGNETS



Standard Features

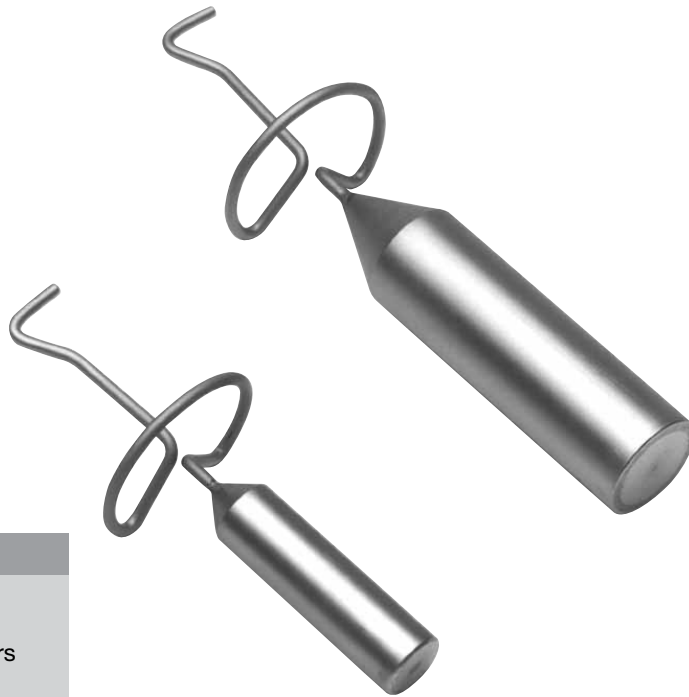
- 1-inch diameter
- Continuously welded
- 316L stainless steel
- 1/4-20 tapped end plugs
- Glass bead surface finish
- Rare Earth and Xtreme Rare Earth Magnet Circuits for temperatures up to 150°F



Individual magnetic tubes, one-inch (25 mm) in diameter and from 4-inches (100 mm) up to 24-inches (610 mm) long, can be used to remove ferrous contaminants from liquids in tanks, as a quality control check of dry bulk materials and in many other ways where a powerful, portable magnetic power source is needed. All magnetic tubes are available with 1/4-20 UNC drilled and tapped end plugs.

| Length | | Ceramic | Rare Earth | Xtreme Rare Earth |
|--------|-----|----------|------------|-------------------|
| in | mm | Part No. | Part No. | Part No. |
| 4 | 102 | 135708P | 126734P | 141001P |
| 6 | 152 | 133640P | 132640P | 141006P |
| 8 | 203 | 133642P | 126725P | 141008P |
| 10 | 254 | 133644P | 126728P | 141010P |
| 12 | 305 | 133646P | 126727P | 141012P |
| 14 | 356 | 133648P | 133567P | -- |
| 16 | 406 | 134057P | 130919P | 141116P |
| 18 | 457 | 134059P | 130920P | -- |
| 20 | 508 | 135709P | 140820P | 141120P |
| 22 | 559 | 135710P | 135684P | -- |
| 24 | 610 | 140764P | 126748P | -- |

PERMANENT SIGHT GLASS MAGNETS



Standard Features

- Two magnet diameters — 1-inch or 5/8-inch (25.4 mm or 15.9 mm)
- Four sizes to fit most sight glass loaders
- Continuously welded stainless steel construction
- Rare Earth magnet circuit for temperatures up to 150°F.
- Economical magnet protection for equipment and products.



Permanent Rare Earth Sight Glass Magnets remove fine and weakly magnetic ferrous contaminants.

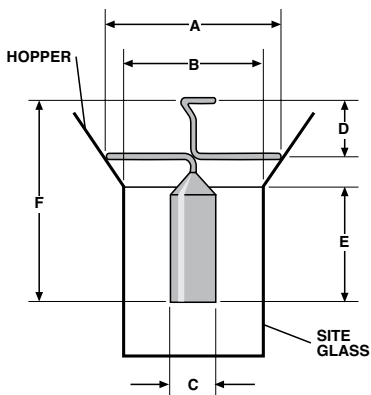
Eriez Super Strength Rare Earth Permanent Sight Glass Magnets remove fine and weakly magnetic ferrous contamination from material flowing to your injection machine or extruder.

INCH DIMENSIONS

| A | B | C | D | E | F | Part No. |
|-------|--------|----------|--------|---------|--------|----------|
| Ring | Approx | Diameter | Handle | Approx | Length | |
| 1-3/4 | 1-5/8 | 5/8 | 1-7/8 | 2-3/8 | 4-3/4 | 443866 |
| 2-1/2 | 1-7/8 | 5/8 | 1-7/8 | 2-3/8 | 4-3/4 | 443867 |
| 1-3/4 | 1-5/8 | 1 | 1-7/8 | 3-11/16 | 6-1/4 | 443868 |
| 2-1/2 | 2 | 1 | 1-7/8 | 3-11/16 | 6-1/4 | 443869 |

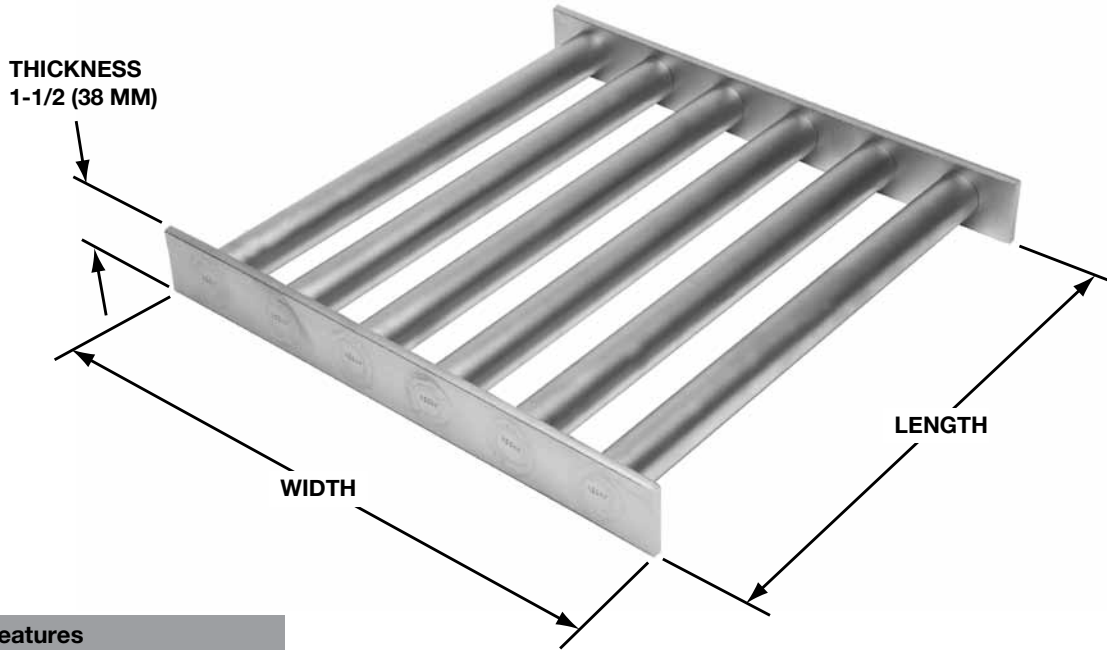
MILLIMETER DIMENSIONS

| A | B | C | D | E | F | Part No. |
|------|--------|----------|--------|--------|--------|----------|
| Ring | Approx | Diameter | Handle | Approx | Length | |
| 44.5 | 41.3 | 15.9 | 47.6 | 60.3 | 120.7 | 443866 |
| 63.5 | 47.6 | 15.9 | 47.6 | 60.3 | 120.7 | 443867 |
| 44.5 | 41.3 | 25.4 | 47.6 | 93.7 | 158.8 | 443868 |
| 63.5 | 50.8 | 25.4 | 47.6 | 93.7 | 158.8 | 443869 |



GRATE MAGNETS

SQUARE & RECTANGULAR



Standard Features

- All stainless steel construction
- “Ladder” style design
- 1-inch dia. tubes on 2-inch centers
- Sanitary construction (Xtreme only)
- Glass bead surface finish



Square and rectangular permanent magnetic Grate Magnets remove ferrous contamination in hoppers, chutes, floor openings and other areas where free flowing materials are present. These grate magnets are also constructed to fit square and odd-shaped hoppers. The all-stainless steel unit is installed by simply placing the grate in the hopper with the ends of the magnetic tubes or tie bars resting against the sides.

CERAMIC

| Width x Length | | Part No. |
|----------------|-----------|----------|
| in | mm | |
| 6 x 6 | 152 x 152 | 135717P |
| 8 x 8 | 203 x 203 | 135665P |
| 10 x 6 | 254 x 152 | 135718P |
| 10 x 10 | 254 x 254 | 135719P |
| 12 x 8 | 305 x 203 | 135720P |
| 12 x 12 | 305 x 305 | 135669P |
| 16 x 12 | 406 x 305 | 135721P |
| 14 x 14 | 356 x 356 | 135722P |

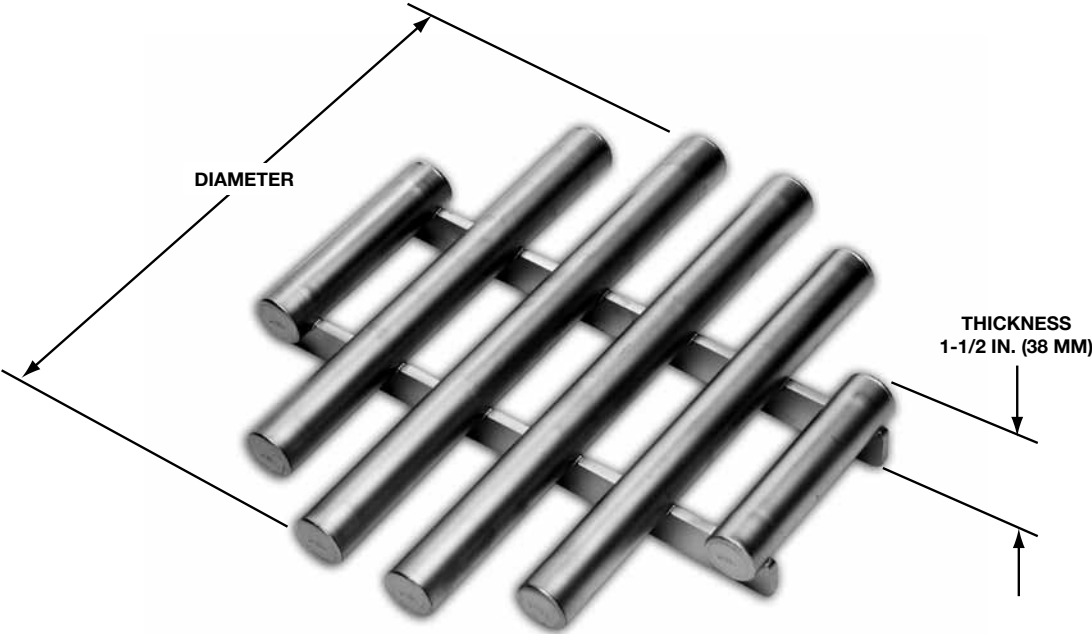
RARE EARTH

| Width x Length | | Part No. |
|----------------|-----------|----------|
| in | mm | |
| 6 x 6 | 152 x 152 | 135677P |
| 8 x 8 | 203 x 203 | 135663P |
| 10 x 6 | 254 x 152 | 135678P |
| 10 x 10 | 254 x 254 | 135664P |
| 12 x 8 | 305 x 203 | 135679P |
| 12 x 12 | 305 x 305 | 135680P |
| 16 x 12 | 406 x 305 | 135682P |
| 14 x 14 | 356 x 356 | 135683P |

XTREME RARE EARTH

| Width x Length | | Part No. |
|----------------|-----------|----------|
| in | mm | |
| 6 x 6 | 152 x 152 | 135672P |
| 8 x 8 | 203 x 203 | 135670P |
| 10 x 10 | 254 x 254 | 135673P |
| 12 x 12 | 305 x 305 | 135671P |
| 14 x 14 | 356 x 356 | 135674P |

ROUND



Standard Features

- All stainless steel construction
- “Ladder” style design
- 1-inch dia. tubes on 2-inch centers
- Sanitary construction (Xtreme only)
- Glass bead surface finish

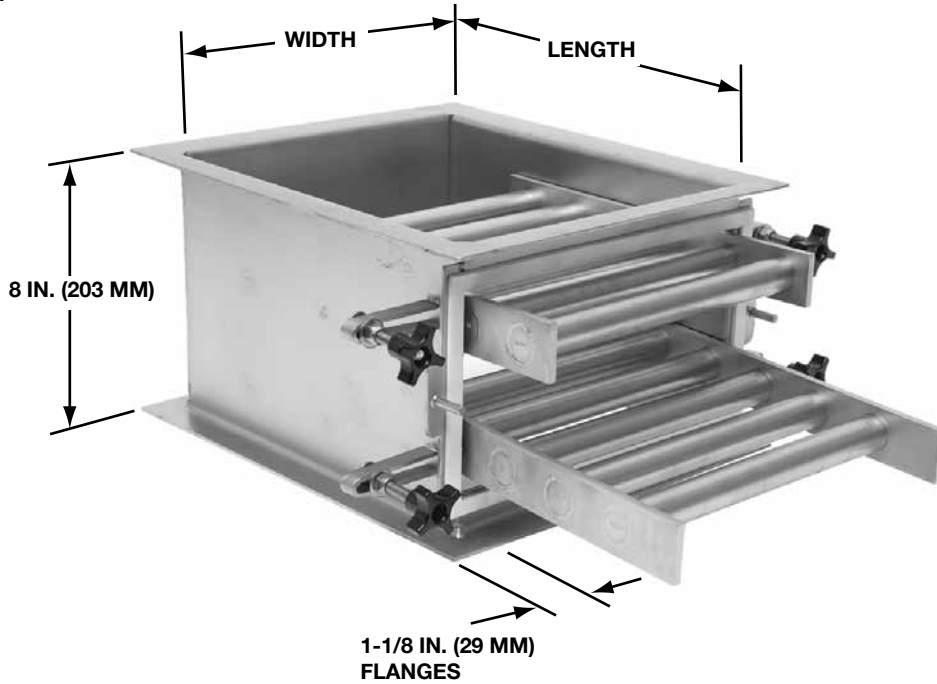


Round permanent magnetic Grate Magnets remove ferrous contamination in hoppers, chutes, floor openings and other areas where free flowing materials are present. These round grate magnets are constructed to fit round processing lines or hoppers. The all-stainless steel unit is installed by simply placing the grate in the hopper with the ends of the magnetic tubes or tie bars resting against the sides.

| Diameter | | Ceramic | | Rare Earth | | Xtreme Rare Earth | |
|----------|-----|----------|--|------------|--|-------------------|--|
| in | mm | Part No. | | Part No. | | Part No. | |
| 6 | 152 | 135685P | | 135687P | | 135686P | |
| 8 | 203 | 135694P | | 135688P | | 135689P | |
| 10 | 254 | 135692P | | 135690P | | 135691P | |
| 12 | 305 | 135696P | | 135695P | | 135697P | |
| 14 | 356 | 135699P | | 135698P | | -- | |
| 16 | 406 | 135701P | | 135700P | | -- | |
| 18 | 457 | 135703P | | 135702P | | -- | |
| 20 | 508 | 135705P | | 135704P | | -- | |

GRATE MAGNETS

GRATE IN HOUSING



Standard Features

- Two rows of staggered magnets
- Mild steel housing
- Removable door with plastic knobs

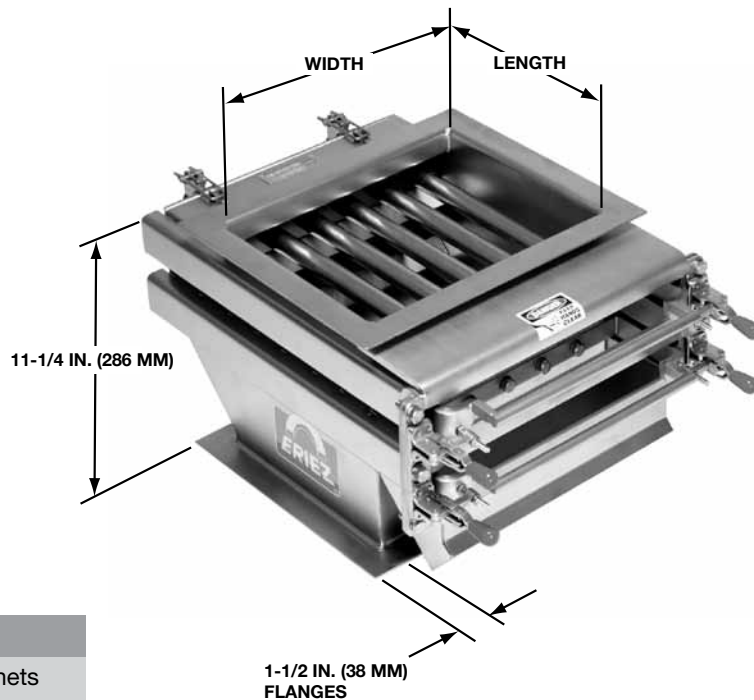


Tramp and fine iron removal in enclosed flow lines or at screen discharges is simplified by Eriez multi-bank units built into convenient housings. These separators have a slide-bolt door front which makes the magnetic tubes readily accessible for cleaning. Two rows of the most powerful ceramic tube magnets available in the industry provide the ultimate in magnetic protection.

CERAMIC

| Width x Length | | Part No. |
|-----------------|-----------|----------|
| in | mm | |
| 6-1/8 x 8-1/8 | 156 x 206 | 135723P |
| 8-1/8 x 10-1/8 | 206 x 257 | 135724P |
| 10-1/8 x 12-1/8 | 257 x 308 | 135725P |

EASY TO CLEAN GRATE IN HOUSING



Standard Features

- Two rows of staggered magnets
- 1-inch diameter magnet tubes on 2-inch centers
- Stainless steel tube scrapers
- Metal contaminant discharge chute
- All stainless steel construction
- Glass bead surface finish



The easy to clean rare earth grate in housing provides for the quick removal of accumulated fine iron contamination. Simply slide the individual door fronts from the housing and the accumulated metal contamination is scraped from the tube and discharges out the front of the housing. The cleaning cycle is reduced to only a few seconds with this push-pull operation.

RARE EARTH

| Width x Length | | Part No. |
|----------------|-----------|----------|
| in | mm | |
| 8.5 X 6 | 216 x 152 | 135706P |
| 10.5 X 8 | 267 x 203 | 133816P |
| 12.5 X 10 | 317 x 254 | 133828P |

XTREME RARE EARTH

| Width x Length | | Part No. |
|----------------|-----------|----------|
| in | mm | |
| 8.5 X 6 | 216 x 152 | 135675P |
| 10.5 X 8 | 267 x 203 | 134929P |
| 12.5 X 10 | 317 x 254 | 134940P |

ONLY FROM ERIEZ



STATE-OF-THE-ART ENGINEERING

Computerized systems help improve Eriez efficiency and services throughout the Company. The corporate engineering department's CAD and parametric design systems, 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 solutions to scan for metal contaminants, separate, move or screen them more efficiently and economically are then suggested. Feasibility and definitive metal detection studies are also 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, Brazil, Canada, China, 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.

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

