Our full line, from simple tubes to fully automated tramp metal removal designs

Grate Magnets

TUBE MAGNETS • P-GRATE • BA GRATE • WING/DRAWER GRATES • GRATE-IN-HOUSINGS • ROTA-GRATE®
Selecting the proper magnetic separator requires many considerations including flow rates, material density and targeted purity level. Whether your product is dry or moist, fine or clumpy, hard to reach or continuously operating, Eriez offers a magnetic separator for your application.
Eriez’ ProGrade® Magnetic Separators are competitively priced, fast moving standard items available in a range of models, sizes and strengths. This brochure references the magnetic grates available in the ProGrade line.
MAGNET STRENGTH OPTIONS

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

Rare Earth
Prevents product contamination and tramp metal damage. High-strength rare earth separators are extensively used by food, chemical and pharmaceutical processors requiring the highest levels of product purity.

Xtreme™ RE7 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.

PULL TEST KIT
Eriez offers two different Pull Test Kit options. Both kits are identical except for the scale provided. We provide a kit with a mechanical scale (P/N 107121E) and one with a digital scale that has a traceable calibration certification (P/N 201512425G2). The digital scale is recommended for customers in the food or pharmaceutical industries that require calibrated scale certification for auditor purposes.

Competitors

Eriez

Pull Force (oz)

0 20 40 60 80 100

0 20 40 60 80

Standard Mechanical Scale

Digital Calibrated Scale
Grate Magnet Applications

PRODUCTION OF COCOA
Fine iron contaminant clings to each tube in this magnetic Rota-Grate®, which has just been opened for inspection and cleaning.

GRAIN MILL
A gravity flow Grate-In-Housing magnetic separator removes tramp iron contaminants from material flow.

FROZEN FOODS
Better Baked Foods, maker of frozen pizza, installed a high power, rare earth Eriez’ P-Grate magnet to ensure no metal contaminants passed through their diced toppings pneumatic conveyor line.

RAIL LOADING
Primary ferrous removal from grain being unloaded off railcars.
**Tube Magnets**

Individual magnetic tubes, 1-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.

**AVAILABLE IN:**
- Ceramic
- Rare Earth
- Xtreme Rare Earth

**FEATURES:**
- Continuously welded
- 316L stainless steel
- Glass bead surface finish
- Rare Earth and Xtreme Rare Earth Magnet Circuits for temperatures up to 150°F
- Custom lengths available

<table>
<thead>
<tr>
<th>Length</th>
<th>Ceramic</th>
<th>Rare Earth</th>
<th>RE7 Xtreme Rare Earth</th>
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<tr>
<td>in</td>
<td>mm</td>
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<tr>
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<td>135684P (4.7)</td>
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<td>24</td>
<td>610</td>
<td>140764P (3.8)</td>
<td>126748P (5.1)</td>
</tr>
</tbody>
</table>

**DIMENSIONS:**

1" O.D. Stainless steel tubing

1/4"-20 UNC x 1/4" long threaded hole, both ends

Both ends plain and sealed
Grate Magnets

SQUARE & RECTANGULAR
Square and rectangular 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.

AVAILABLE IN:
• Ceramic
• Rare Earth
• Xtreme Rare Earth

FEATURES:
• All stainless steel construction
• “Ladder” style design
• 1-inch dia. tubes on 2-inch centers
• Glass bead surface finish
• Sanitary construction (Xtreme only)
• 150°F Max Temp (Rare Earth and Xtreme Rare Earth)
• Custom sizes and designs available

ROUND
Round 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.

DIMENSIONS:

Available in Pro-Grade Magnetic Separators
See the details in the Quick Ship Catalog
BA Grates

Simple, cost effective magnet assembly incorporates Ceramic or Rare Earth Tube magnets into a grate assembly for fiber drum installation.

Typical units include 15 inch diameter grate within a steel housing. Optional features include deflectors to prevent product from flushing through the grate assembly, sanitary finishes for food or pharmaceutical applications, multiple magnet row assemblies depending upon specific separation efficiency requirements, handles and other customer specified installation attachments. Eriez manufactures standard grate assemblies for use in fiber drums but will custom manufacture anything to fit your installation requirements.

AVAILABLE IN:
- Ceramic
- Rare Earth
- Xtreme Rare Earth

FEATURES:
- A portable separator used on barrels and bulk container
- Standard construction includes stainless steel tubes with mild steel frame, flange and handles
- Handles mounted to the collar enable transfer of the separator from one barrel to another.
- 1/4-20 tapped end plugs
- Fit in or on standard barrels 15-1/2, 17 or 20–inches (394, 432 or 508mm) in diameter
- Can incorporate from one to four banks of 1” diameter magnetic tubes

TWO MODELS AVAILABLE:
- TBA - For tramp iron removal (large pieces of iron), with magnetic tubes on 2” (51mm) centers
- FBA - Best separation of fine iron contaminants, with tubes on 1-1/2” (38mm) centers

DIMENSIONS:

TWO HANDLES (1/2” [13MM] DIA. ROD) ON ALL COLLAR FLANGES

SINGLE BANK

DOUBLE BANK

TRIPLE BANK

FOUR BANK

INCHES

MILLIMETERS
**Wing Grates**

This separator provides “Final Magnetic Action” on bulk foods, chemicals, pharmaceuticals, etc., being packaged in barrels or similar type containers.

**AVAILABLE IN:**
- Ceramic
- Rare Earth
- Xtreme Rare Earth

**FEATURES:**
- 1” (25mm) diameter stainless steel tubes spaced at 2” (51mm) centers
- Dimensions are flexible so special sizes can be furnished
- Wings can be bent to fit openings which vary from our standard sizes
- Double-bank gives added protection in installations where iron contamination is particularly acute

**SUGGESTED INSTALLATIONS:**
- Units can be quickly put to work in hoppers and floor openings
- No bolting necessary. Units can be lifted out for easy cleaning

**DIMENSIONS:**
- Units can be quickly put to work in hoppers and floor openings
- No bolting necessary. Units can be lifted out for easy cleaning

**Wing Grates**
Drawer-type grates have been specifically designed for use in closed chutes and ducts. They come complete with handle and latches. These models are easily inspected and cleaned by sliding the “magnetic drawer” from an opening made in side of housing.

**AVAILABLE IN:**
- Ceramic
- Rare Earth
- Xtreme Rare Earth

**WIDTHS AVAILABLE:**
- Any width: 2-1/2” (64mm) through 36-1/2” (927mm) in 2” (51mm) increments.
- Any length: 4” (102mm) through 36” (914mm) in 4” (102mm) increments.

**WEIGHTS AVAILABLE:**
- D-1: Net Weight 25 lb/sq ft (122kg/.2 sq m)
- D-2: Net Weight 35 lb/sq ft (171kg/.2 sq m)

**FEATURES:**
- Similar to Wing Grates, but with drawer front, handle and latch
- Easy installation
- Single row options available
Round Grate-In-Housing

Round Spout Separators use Permanent Magnetic Grate Magnets to 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 round chutes and discharges. Installation is inline and low profile.

**AVAILABLE IN:**
- Ceramic
- Rare Earth
- Xtreme Rare Earth

**FEATURES:**
- 304 stainless steel construction
- "Ladder" style design
- Swing-bolt door for easy access to magnets
- Sanitary construction (optional)
- Glass bead surface finish
- Dust-tight construction
- 150°F Max Temp (Rare Earth and Xtreme Rare Earth)
- High-temp options available

**DIMENSIONS:**

<table>
<thead>
<tr>
<th>Diameter</th>
<th># of Tubes</th>
<th>Length in</th>
<th>Length mm</th>
<th># of Tubes</th>
<th>Length in</th>
<th>Length mm</th>
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</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>2</td>
<td>6-1/2&quot;</td>
<td>165.1</td>
<td>3</td>
<td>8-1/2&quot;</td>
<td>215.9</td>
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<tr>
<td>8&quot;</td>
<td>3</td>
<td>6-1/2&quot;</td>
<td>165.1</td>
<td>5</td>
<td>8-1/2&quot;</td>
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</tr>
<tr>
<td>10&quot;</td>
<td>4</td>
<td>6-1/2&quot;</td>
<td>165.1</td>
<td>7</td>
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<td>215.9</td>
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<tr>
<td>12&quot;</td>
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<td>14&quot;</td>
<td>6</td>
<td>6-1/2&quot;</td>
<td>165.1</td>
<td>11</td>
<td>8-1/2&quot;</td>
<td>215.9</td>
</tr>
</tbody>
</table>
Eriez’ Model PM aftermarket Rare Earth Drawer Magnet assembly will improve your profitability by preventing costly product defects, plugged value gates, machine damage and downtime. These powerful Rare Earth Grates simply slide into most existing drawer magnet housings, immediately improving separation performance and your bottom line. Four sizes are available and they can even be used with mild steel housings.

**AVAILABLE IN:**
- Xtreme Rare Earth only

**FEATURES:**
- For plastics industry
- PM Rare Earth magnets are up to 3x stronger than other Rare Earth
- Encased in 316 Stainless Steel Tubes
- Clear drawer front for easy inspection of magnets
- Improved tube spacing for superior tramp metal recovery
- Ability to capture and hold fine and weakly magnetic particles
- Magnets handle resin temperature up to 250°F
- Adhesive backed gaskets are included for customer installation on the door or housing
- Compatible with mild steel housing due to unique guide rod design
- Slots are 1/2” wide by 1-1/16” overall length

**DIMENSIONS:**

<table>
<thead>
<tr>
<th>Nominal Housing Size</th>
<th>Qty. Tubes</th>
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<tbody>
<tr>
<td>in</td>
<td>mm</td>
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<tr>
<td>4 x 4</td>
<td>102 x 102</td>
</tr>
<tr>
<td>6 x 6</td>
<td>153 x 153</td>
</tr>
<tr>
<td>8 x 8</td>
<td>203 x 203</td>
</tr>
<tr>
<td>10 x 10</td>
<td>254 x 254</td>
</tr>
</tbody>
</table>
The PM Grate-In-Housing removes ferrous metal from raw materials to prevent costly equipment damage and downtime, as well as improve product purity. It also removes fine ferrous material that can plug tiny valve gates and screens, or damage calendar rolls.

**AVAILABLE IN:**
- Rare Earth only

**FEATURES:**
- Two banks of Rare Earth permanent magnets
- Stainless steel housing
- Slide gate with a release handle
- 3 standard housing sizes
- Custom inlet and outlet sizes
- Door with quick release knobs
- Rare Earth Magnets suitable up to 250°F

**SUGGESTED INSTALLATIONS:**
- Above injection molding machines, plastic extruders, and compounding equipment
- The Model PM Grate-In-Housing is ideal for removing ferrous contamination from plastic pellets, flake and regrind prior to the injection moulding machine, extruder or compounding screw

**STANDARD HOUSING OPTIONS:**

**MOUNTING FLANGE OPTIONS:**
- Through holes, tapped holes, and threaded studs
- Top and bottom flanges can be different sizes and have different hole drills
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.

**AVAILABLE IN:**
- Ceramic
- Rare Earth
- Xtreme Rare Earth

**FEATURES:**
- 2 rows of staggered magnets
- Mild steel housing (Ceramic only)
- Removable door with plastic knobs
- All Rare Earth comes in a stainless steel housing and is optional for ceramic magnets
- Sanitary construction is optional
- 150°F Max Temp (Xtreme Rare Earth)

### DIMENSIONS:

**Tube Size** | **Grate Size** | **A** | **B** | **C** | **Weight**
--- | --- | --- | --- | --- | ---
3 | 4 1/8 x 6 1/8 | 4-1/8 | 105 | 6-1/8 | 156 | 10 | 254 | 20 | 9
4 | 6 1/8 x 8 1/8 | 6-1/8 | 156 | 8-1/8 | 206 | 12 | 305 | 25 | 11
6 | 8 1/8 x 10 1/8 | 8-1/8 | 206 | 10-1/8 | 257 | 14 | 365 | 30 | 14
8 | 10 1/8 x 12 1/8 | 10-1/8 | 257 | 12-1/8 | 306 | 16 | 406 | 50 | 23
10 | 12 1/8 x 14 1/8 | 12-1/8 | 308 | 14-1/8 | 359 | 18 | 457 | 61 | 28
12 | 14 1/8 x 16 1/8 | 14-1/8 | 359 | 16-1/8 | 410 | 20 | 508 | 80 | 36
14 | 16 1/8 x 18 1/8 | 16-1/8 | 410 | 18-1/8 | 460 | 22 | 559 | 100 | 45

Adapters are available with the housings as optional equipment.
Eriez Easy-To-Clean Model TGH-2 Drawer Grate-In-Housing uses a powerful Rare Earth magnet circuit to provide superior separation performance on fine tramp metal contamination. The Easy-to-Clean 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.

**AVAILABLE IN:**
- Rare Earth
- Xtreme Rare Earth

**FEATURES:**
- 2 rows of staggered magnets
- Stainless steel tube scrapers
- Metal contaminant discharge chute
- All stainless steel construction
- Glass bead surface finish
- Easy push-pull operation
- 150°F Max temperature

**SUGGESTED INSTALLATIONS:**
- Ideal for applications where the process is stopped for grate magnet cleaning
Eriez Automated and Manual DSC Easy-to-Clean Grate-In-Housings are rugged tramp iron separators. With Eriez’ single-skinned tube design, the iron is removed with an A286 stainless steel split ring (or Teflon ring for food products) sandwiched between a pressure plate and backing plate. As both banks cycle, tramp iron is stripped from the tubes outside the product zone. The tramp metal is then discharged through a small chute at the front of the housing. The traditional cleaning cycle is reduced to a simple push-pull operation.

**AVAILABLE IN:**

- Ceramic - The industry’s strongest ceramic magnet, it generates twice the force of any other tube magnet
- Xtreme Rare Earth - The industry’s strongest magnet, providing more surface holding force than other Rare Earth circuits

**FEATURES:**

- Dust Tight Construction (standard)
- Sanitary Interior (and options) – The housing is standard Options for greater sanitary are available.
- Convertible Design – Upgradeable by converting from manual clean to automatic
- Discharge chute reduces ferrous product accumulation
- Increased tube length for better tramp metal stripping
- 316L stainless steel tubes and 304 stainless steel housing
- Can be furnished with all ceramic tubes, all rare earth tubes, or a combination of one bank ceramic and one bank rare earth
Depending on the application, some customers find their process has excessive tramp iron or the Grate-In-Housing is installed in a difficult to access location requiring an upgrade to a self-cleaning model.

The DSC’s “convertible” feature allows customers to purchase a Conversion Kit and use hand tools to bolt on upgrades to making the unit an automatic cleaner. The conversion kits requires no cutting and no welding.

The conversion kit includes a NEMA 12 push button control panel with air prep and regulation while there is an option for remote control inputs as well.

**FEATURES:**

- The Automated Easy-to-Clean option is a completely self cleaning assembly
- Enlarged separation area ensures positive tramp metal removal
- Same construction as manual Easy-to-Clean DSC Grate-In-Housing
- Easy “Bolt On” accessory
- No weldings or cutting required
Eriez Automated Easy-to-Clean Grate-In-Housing combines the superior strength of Rare Earth magnet tubes with the simplicity of operation associated with opening a drawer.

Eriez' single skin tubes are housed in a dust–tight all stainless steel housing which is easily installed in square, rectangular or round piping. Unique stripping bushings remove the accumulated ferrous particles as the banks are cycled from the housing. As it is stripped off each tube, the iron contamination falls down the ferrous discharge chute, located outside of the product flow area.

These units are very effective in removing fine particle ferrous contamination (up to 1/2 inch [13 mm]) from many dry free–flowing products under gravity flow.

**AVAILABLE IN:**
- Ceramic
- Rare Earth
- Xtreme Rare Earth

**FEATURES:**
- Stainless steel housing with safety guard for moving parts
- Automated tramp metal removal at the push of a button
- Remote mounting panel with filter regulator, solenoid valve and NEMA 12 push button control

**DIMENSIONS:**

<table>
<thead>
<tr>
<th>Standard Unit Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Weight</th>
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<tbody>
<tr>
<td>6-1/2 x 4</td>
<td>6-1/2</td>
<td>165</td>
<td>4</td>
<td>35-1/2</td>
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<td>724</td>
<td>26</td>
<td>79-1/2</td>
</tr>
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* With center divider.
Eriez Self-Cleaning Model GH-12 Grate-In-Housing offers the superior strength of Rare Earth magnets with a completely automated self cleaning system to remove fine tramp iron contamination. The GH-12 cycles each grate row independently so at least one row always remains in the product flow.

Tubes are housed in a dust-tight all stainless steel housing which is easily installed in square, rectangular or round piping. Unique stripping bushings remove the accumulated ferrous particles as the banks are cycled from the housing. As it is stripped off each tube, the iron contamination falls down the ferrous discharge chute, located outside of the product flow area.

These units are very effective in removing fine particle ferrous contamination (up to 1/4 inch [6 mm]) from many dry free-flowing products under gravity flow.

**AVAILABLE IN:**
- Ceramic and Rare Earth

**FEATURES:**
- Automatic tramp metal removal of individual magnet rows
- Solid state NEMA 12 control with timer to adjust automatic cleaning frequency
- Independent cleaning for each magnet row

**SUGGESTED INSTALLATIONS:**
- Designed for completely automated operation
- The GH-12 is ideal for applications where the process is continuous and grate cleaning occurs during operation

**DIMENSIONS:**

<table>
<thead>
<tr>
<th>Normal Size</th>
<th>A</th>
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<th>C</th>
<th>D</th>
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<td>mm</td>
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<td>mm</td>
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<tr>
<td>14 x 12</td>
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<td>305</td>
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<tr>
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<td>508</td>
<td>20</td>
<td>508</td>
<td>20</td>
<td>508</td>
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</tbody>
</table>

*Special sizes and designs are available upon request.*
Eriez Rota-Grates are designed to remove both large pieces of unwanted iron as well as minute ferrous particles from material flows that tend to clog and bridge when passed through small openings. This dual action unit rotates powerful magnetic tubes through the material. The magnetic action attracts and holds the unwanted iron and the rotary action prevents the material flow from packing and plugging the processing line.

**AVAILABLE IN:**
- Ceramic
- Rare Earth
- Xtreme Rare Earth

**FEATURES:**
- Provide magnetic protection without restricting and clogging material flow
- Rugged construction
- Magnetic elements completely encased in stainless steel and fastened to stainless steel end plates
- Bronze hubs and steel shaft, for added durability

**SUGGESTED INSTALLATIONS:**
- At the discharge of either open or enclosed chutes
- Enclosed within housings in open or closed duct systems
- They are built complete with a shaft with ample extensions for a flange type or pillow block type bearings as well as for the drive pulley

**DIMENSIONS:**

**SIZE & WEIGHT**

<table>
<thead>
<tr>
<th>Standard Unit Width</th>
<th>Diameter</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>in</td>
<td>mm</td>
<td>lb</td>
</tr>
<tr>
<td>4</td>
<td>102</td>
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<td>8</td>
<td>203</td>
<td>40</td>
</tr>
<tr>
<td>12</td>
<td>305</td>
<td>559</td>
</tr>
</tbody>
</table>

Add 9 lb (4kg) for each additional 4” (102mm) of width
Add 12 lb (5kg) for each additional 4” (102mm) of width
Add 16 lb (7kg) for each additional 4” (102mm) of width

Available in 24 sizes - widths in 4” (102mm) increments.
Rota-Grates In-Housings are ideal for dusty installations where an enclosed system is necessary. The slowly rotating tube circuit will catch unwanted or damaging tramp iron and prevent bridging of sticky or powdery materials like flour or corn starch.

**AVAILABLE IN:**
- Ceramic
- Rare Earth
- Xtreme Rare Earth

**FEATURES:**
- Mild steel or stainless steel housing with flanges for easy installation
- Large access panel doubles as clean out shelf to prevent ferrous material from reentering the system
- Available with:
  - Removable tube assemblies for easy cleaning
  - 16 RPM gear motor drive

**DIMENSIONS:**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>in</td>
<td>mm</td>
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<td>mm</td>
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**SPECIFICATIONS:**

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Same design as the Rota-Grate In-Housing, with removable tube magnet assemblies. This greatly speeds cleaning during operation.

**Available In:**
- Ceramic
- Rare Earth
- Xtreme Rare Earth

**Features:**
- Individual Tube Magnets can be removed one-by-one for easy cleaning
- Low profile housing design
- SEW Euro drive motor permits rotating of reel by hand to aid in the cleaning process
- Swing-bolt, hinged door with “T”-handles for easy access

**Dimensions:**
The rotating tube assembly periodically cycles through a special tube cleaning wall that removes ferrous metal from the tube magnets outside the product flow. This design eliminates the need to clean each tube manually and greatly reduces the amount of time associated with cleaning.

Cleaning cycle is dependent on the amount of ferrous contamination in the system. The timer is adjustable for optimum separation performance.

**AVAILABLE IN:**
- Ceramic
- Rare Earth
- Xtreme Rare Earth

**FEATURES:**
- Automatic air–operated unit retracts tube cage from product area during cleaning cycle
- Control includes programmable timer for optimum cleaning cycles
- All stainless steel housing
- 16 RPM gear motor

**SUGGESTED INSTALLATIONS:**
- Ideal for remote installations and applications where routine cleaning is problematic

**DIMENSIONS:**

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**SUGGESTED INSTALLATIONS:**

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