

**PERMANENT**  
**MAGNETIC DRUM**  
**SEPARATORS**



[WWW.ERIEZ.EU](http://WWW.ERIEZ.EU)

RUGGED RELIABLE RECOVERY

# PERMANENT MAGNETIC DRUM SEPARATORS



Eriez Permanent Magnetic Drums are used to effectively recover tramp and fine iron from dry bulk materials.

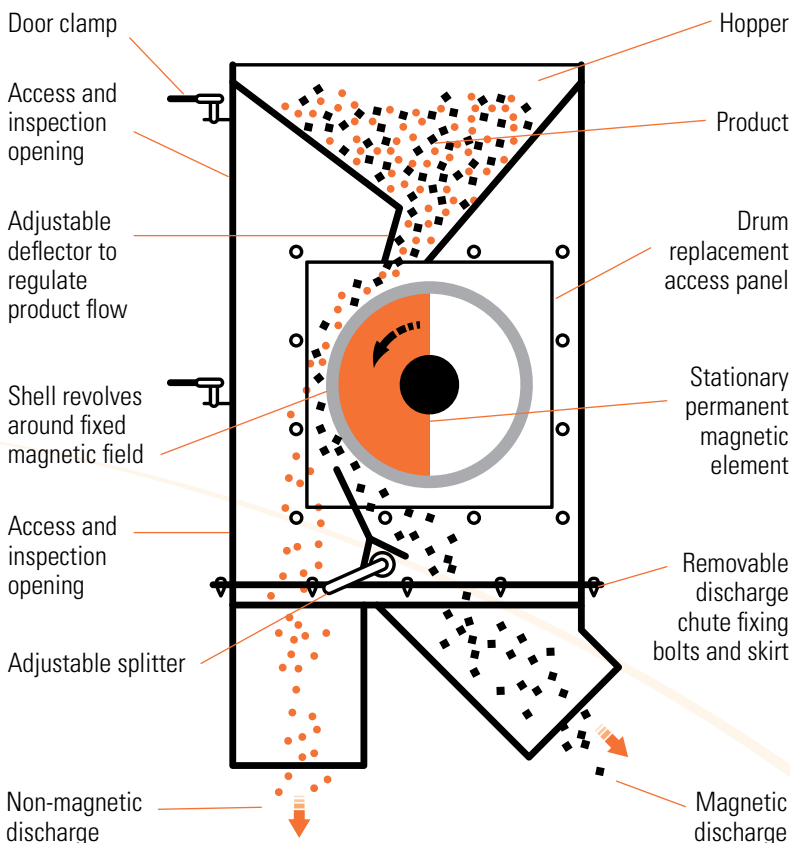
Available in a range of strengths and configurations, drums offer an ideal solution for both new and existing installations.

Magnetic drums are often incorporated into modular systems complete with vibratory feeders and non-ferrous magnetic separators.



## PRINCIPLE OF OPERATION

As material reaches the drum, the magnetic field attracts and holds ferrous particles to the drum shell. As the drum rotates, magnetic material is carried through the stationary magnetic field. Non-magnetic material falls freely from the shell while ferrous particles are held firmly until they are carried out of the magnetic field.



## FEATURES

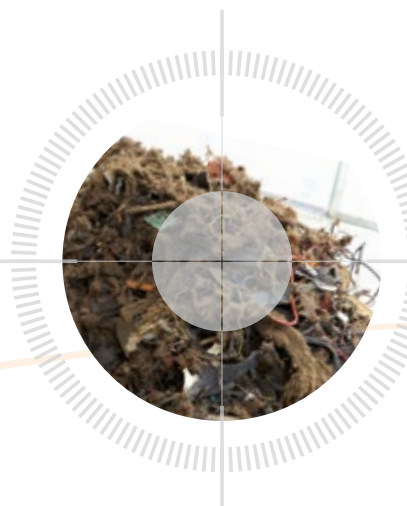
- Ferrite or Rare Earth options available
- Easy to retrofit into existing plant
- Multiple magnet element designs available
- Wide range of sizes available:  
300 mm - 1200 mm diameters  
300 mm - 4000 mm widths
- Full housing assemblies with integrated feed hopper/gate or vibratory feeder available
- Options for replaceable shells to minimise wear

## BENEFITS

- High volume throughputs
- Enhanced separation performance compared to magnetic pulleys
- Low maintenance
- Different magnet configurations available
- Automatic self-cleaning mechanism

## APPLICATIONS

- Ceramics
- Chemicals
- Cullet
- Food
- Incinerator Ash
- Mineral Processing
- Recycling
- Silica Sand
- Slag Processing



# QUARRYING, MINING, CRUSHING, RECYCLING, MATERIAL HANDLING, MINERALS



## IMPORTANT FACTORS FOR SIZING

To accurately determine the required width and diameter that would be suitable for specific applications, it is necessary to supply the following information:

- Material bulk density
- Throughput required
- Particle Size
- Type and amount of iron to be removed

Eriez has a comprehensive range of drums in our laboratory for testing of customers samples to enable the best possible solution to be selected.



The table below offers an insight into our core range of magnetic drum configurations along with the key features of each:

MODEL	MAGNET ELEMENT	KEY FEATURES
<b>FA</b>	Ferrite Axial Pole	<ul style="list-style-type: none"> <li>• Ferrite magnet assembly offers deep magnetic field</li> <li>• Ideal for tramp iron removal</li> <li>• Axial pole offers high grade ferrous recovery</li> </ul>
<b>FR</b>	Ferrite Radial Pole	<ul style="list-style-type: none"> <li>• Ferrite magnet assembly offers high strength magnetic field</li> <li>• Ideal for tramp and fine iron removal</li> <li>• Radial pole offers maximum ferrous recovery</li> </ul>
<b>RA</b>	Rare Earth Axial Pole	<ul style="list-style-type: none"> <li>• Neodymium magnet assembly offers high strength magnetic field</li> <li>• Allows for the removal of weakly magnetic material and magnetic stainless steel</li> <li>• Axial pole offers high grade ferrous recovery</li> </ul>
<b>RR</b>	Rare Earth Radial Pole	<ul style="list-style-type: none"> <li>• Neodymium magnet assembly offers high strength magnetic field</li> <li>• Allows for the removal of weakly magnetic material, fine iron and magnetic stainless steel</li> <li>• Radial pole offers maximum ferrous removal</li> </ul>
<b>RRS</b>	Rare Earth Enhanced Radial Pole	<ul style="list-style-type: none"> <li>• Offers enhanced removal of fine iron or paramagnetic material</li> </ul>
<b>SREX</b>	Rare Earth Xtreme	<ul style="list-style-type: none"> <li>• Ultimate strength to allow for separation of weakly magnetic materials and recovery of fragmented stainless steel</li> </ul>



# ERIEZ' WORLDWIDE NETWORK OF MANUFACTURING, SALES & SERVICE



Manufacturing Affiliates in: Australia, Brazil, Canada, China, India, Japan, Mexico, South Africa, United Kingdom, USA



[WWW.ERIEZ.EU](http://WWW.ERIEZ.EU)

## ERIEZ MAGNETICS EUROPE LIMITED

European Manufacturing, Design and Test Laboratory Headquarters

Greenway, Bedwas House Industrial Estate, Bedwas, Caerphilly, CF83 8YG, UK

T: +44 (0)29 2086 8501 | F: +44 (0)29 2085 1314 | E: [info-europe@eriez.com](mailto:info-europe@eriez.com)

