

**PERMANENT RARE EARTH
XTREME® DRUM MAGNET**





PERMANENT RARE EARTH

The Evolution of the Drum Magnet

Eriez' innovative Permanent Rare Earth Xtreme® Drum Magnet, **P-Rex®**, is a historic breakthrough in ferrous separation. P-Rex's powerful permanent magnetic circuit designed using sophisticated modeling techniques is up to 40% stronger than an electro and is capable of moving large spherical objects at twice the distance!

Current electromagnetic drum technology simply is not capable of sustaining a deep enough magnetic field to attract much of the "heavy spherical" ferrous during scrap metal processing. These heavy spheres, referred to as meatballs and knuckles, often contain valuable nonferrous metals and represent the most difficult type of object to capture magnetically.

While **P-Rex** maintains a constant strength profile, all electros are subject to significant strength loss due to heat gain... typically around 30% within three hours of start up!

P-Rex Benefits:

- 40% Stronger during operation
- Significantly wider pick-up zone
- Edge-to-Edge performance
- No heat induced strength loss
- Agitates and flips ferrous

A Magnet's Toughest Challenge

Spheres are the most difficult objects to capture magnetically. Add to that in scrap processing many of these objects contain nonferrous metals and wire making magnetic attraction even more difficult. **P-Rex** is up to the challenge... able to reach into the shredded material and remove even these difficult meatballs.



Deep reach and edge to-edge pick-up is common to **P-Rex**.

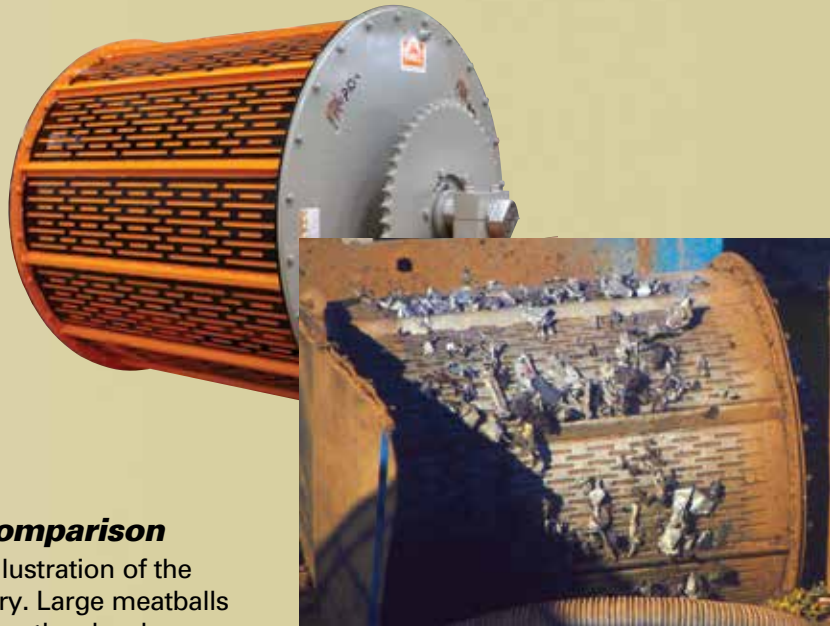




Traction Plate™ Drum Wrap (Optional)

Eriez' new Traction Plate™ Drum Wrap significantly improves cleaning action by gripping ferrous, allowing it to agitate on the face of the drum and releasing fluff and dirt. The Traction Plate keeps the ferrous from sliding down and "clumping" on the cleat, which entrains more dirt and fluff.

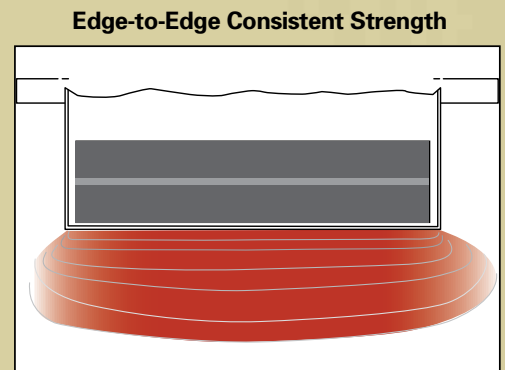
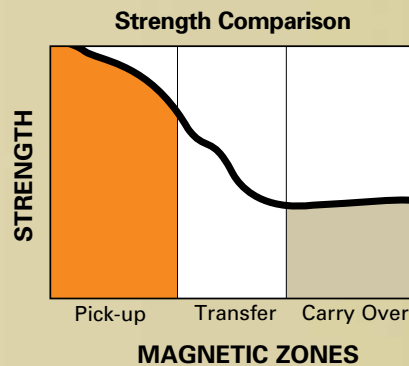
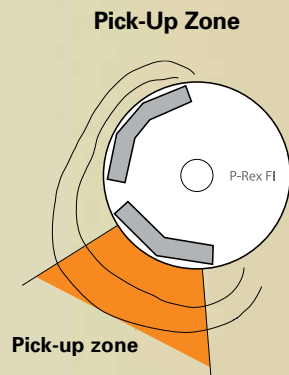
- Innovative deep recessed pattern
- Made of durable magnalloy
- Shorter cleat height



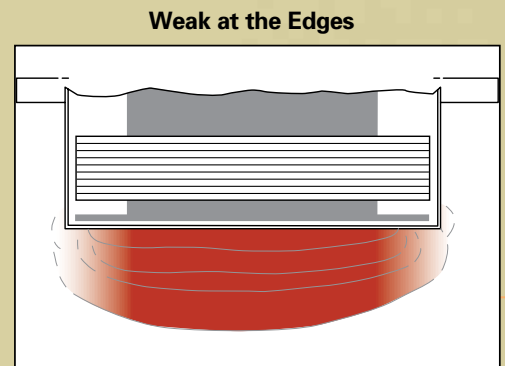
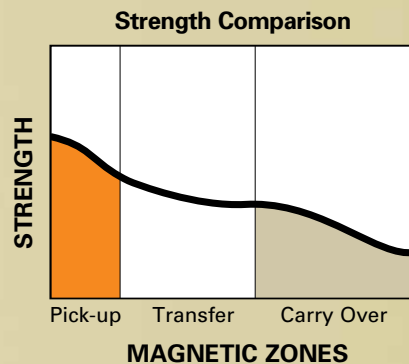
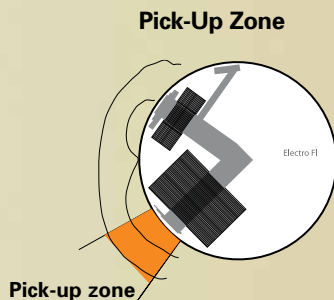
P-Rex Permanent vs. Electro Magnetic Comparison

The magnetic profiles shown below provide a graphic illustration of the magnet's ability to extract ferrous and carry it to recovery. Large meatballs and knuckles require maximum strength to separate from the shred.

P-Rex Magnetic Profile – Exceptionally strong, wide pick-up zone for maximum ferrous recovery



Electro - Hot Magnetic Profile – Degraded magnetic strength curve over time diminishes recovery rates





**Eriez offers complete nonferrous processing...
See it in operation at www.Recovery.Eriez.com**



RevX-E® eddy current separators



ProSort II low cost, low maintenance airless metal recovery



FinesSort® FE and NF fines recovery



DensitySort®, upgrades Zorba to Twitch and Zebra

Note: Some safety warning labels or guarding may have been removed before photographing this equipment.

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World Authority in Separation Technologies

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