

CLEANSTREAM™

THE CLEANSTREAM FERROUS PROCESS

Moving The Recovery-Grade Curve



CLEANSTREAM™

Superior Ferrous Metal Recovery

Eriez' **CleanStream™** is revolutionizing ferrous processing in the scrap metal market with "best-in-class" metal recovery rates and grade improvement. The process consists of the new rare earth xtreme permanent drum magnet, P-Rex, and the innovative new Shred1® Ballistic Separator. Working in tandem, this equipment leads to better recovery and a higher-grade ferrous product while delivering it at a lower cost per ton. Innovation... improving metal recovery.

CleanStream™ Ferrous Recovery

- PokerSort™ extracts troublesome "pokers" from the shred
- P-Rex® Scrap Drums offer the highest recovery rates of ferrous metals
- Shred1™ Ballistic Separators produces a premium Low Copper fraction

Highest Recovery Rates

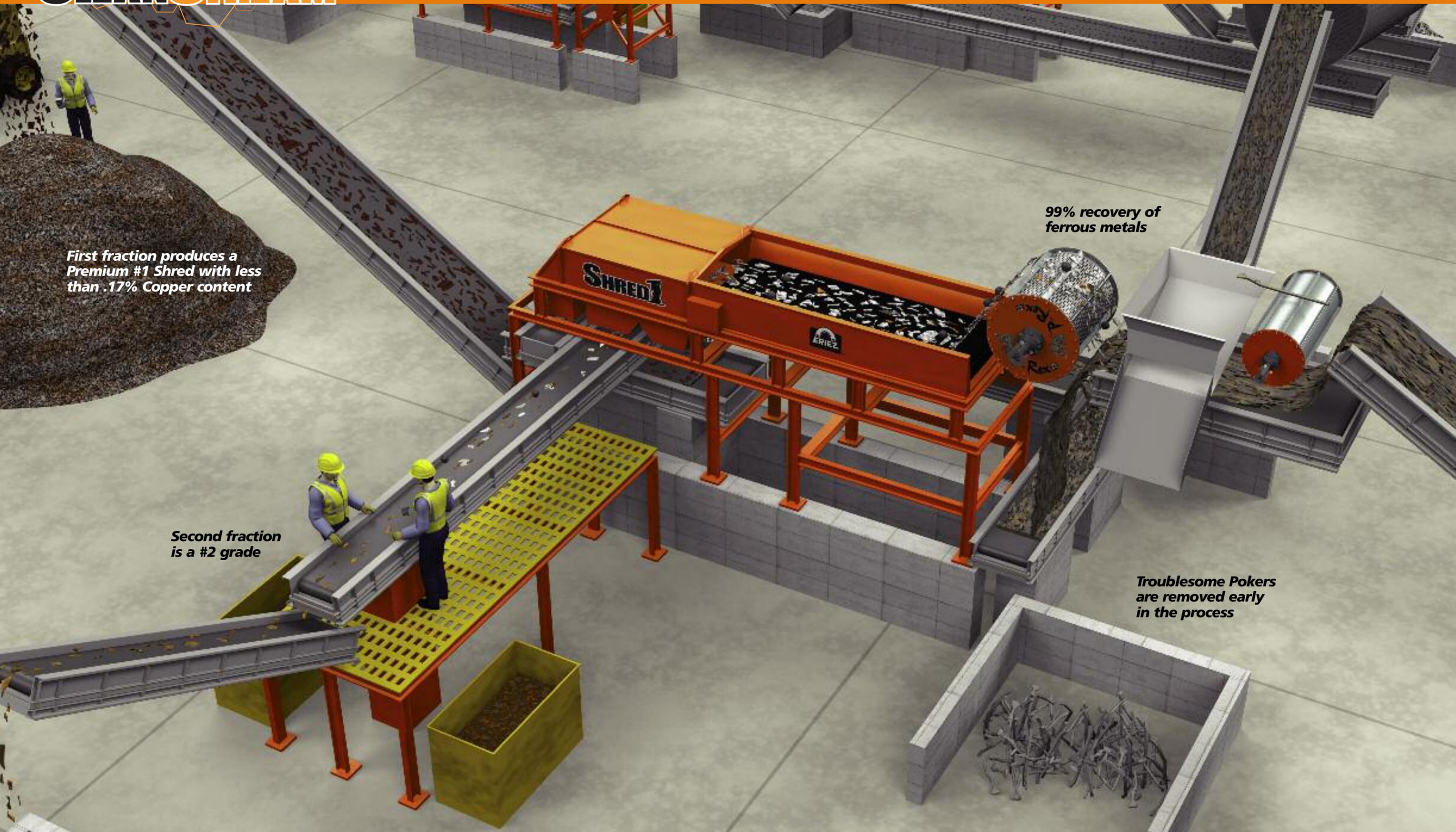
Simply put, the more ferrous recovered from the shred, the greater the profit. Ferrous recovery represents the greatest opportunity scrap operators have to increase profits. Eriez' latest magnetic drum technology, P-Rex, can improve recovery rates by 2 to even 5 percent in most cases. This means an operator producing 800 tons a day and achieving a 3 percent increase in ferrous recovery can improve its volume by 24 tons per day or 720 tons a month! That represents a lot of extra profit!

Premium #1 Grade Ferrous Product

Not only does CleanStream increase ferrous recovery rates, it improves the "grade" as well. Today's current scrap processing technology, using expensive z-box air systems and lots of hand sorting, can't achieve a finished ferrous product with less than .17% copper content. However, Eriez' innovative Shred1® Ballistic Separator automatically sorts the shred into three fractions delivering over 75 percent as a clean #1 grade product.

Selling a premium low-copper content ferrous product gives operators a competitive advantage when dealing with most steel buyers, and leads to greater value or greater share of the local resale market.





First fraction produces a Premium #1 Shred with less than .17% Copper content

99% recovery of ferrous metals

Second fraction is a #2 grade

Troublesome Pokers are removed early in the process



CleanStream™ Components

Eriez' **CleanStream™** process consists of a PokerSort™ to extract long, troublesome pokers early in the process, a single or pair of P-Rex® Drum Magnets to recover up to 99 percent of the ferrous product and the new Shred1® Ballistic Separator to improve the product's grade by reducing its copper content to below .17%. This system provides operators with a significant competitive advantage in the market, as well as improving overall recovery rates.



P-Rex® Drum Magnets

By far, the strongest drum magnet available on the market today. P-Rex' permanent rare earth extreme circuit design delivers 40% greater strength than operating electros, edge-to-edge performance and an enormous pick-up. What that means is greater recovery rates... up to 99%! Every ton processed generates significantly more profit.

Check out P-Rex' new skin! The Traction Plate® wrapped around P-Rex, aids cleaning by reducing the "clumping" effect on the cleats entraining less fluff and dirt.



Shred1® Ballistic Separator

Truly innovative, Shred1's ballistics enables operators to automatically produce a premium #1 low-copper ferrous product. Its high-speed processing sends clean high-grade ferrous on a different trajectory than "mixed metals" like meatballs and wire harnesses that contain some copper or nonferrous metals. These mixed metals degrade the ferrous product and often render the frag to low value uses such as rebar production. Premium low copper ferrous is highly valued by most steel mills.



Clean #1 Quality Fraction

CLEANSTREAM™



See the Virtual Scrap Yard in operation, at www.Recovery.Eriez.com



RevX-E® eddy current separators



FinesSort® FE and NF fines recovery



ProSort II low cost, low maintenance airless metal recovery



DensitySort®, upgrades Zorba to Twitch and Zebra media-free

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

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