

SHRED¹™

BALLISTIC SEPARATOR

PRODUCES A PREMIUM LOW-GOPPER SHRED



SHRED¹ Ballistic Separator

Shred¹™ from Eriez uses ballistics to efficiently separate iron-rich ferrous from much of the mixed metals and waste material in the post drum magnet flow. This new separator delivers three distinct fractions... a premium low-copper ferrous product, a traditional #2 shred and a heavy/light/waste mix.

The Shred¹ ballistic separator combined with a P-Rex™ permanent rare earth magnetic drum improves the entire process. Not only does this new CleanStream™ process recover more ferrous and concentrate 75% of the post drum magnet flow into a low-copper premium shred, but it also eliminates the need for a scavenger magnet, a z-box air system and hand picking the entire flow.



Ballistics is the science of mechanics that deals with the flight, behavior, and effects of projectiles... the science or art of designing and accelerating projectiles so as to achieve a desired performance.

Automatically Produces a Premium Low-Copper Shred

- Produces a premium #1 low-copper shred
- #1 shred contains less than 0.2% copper
- Eliminates costly z-box systems
- Reduces picking labor
- No x-ray scanning needed

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Premium #1 quality shred with less than .17% copper content.



Tradition #2 quality ferrous fraction.



SHRED1'S THREE FRACTIONS

Fraction **1**

- Produces low-copper shred
- 70-80% of flow
- Contains less than 0.2% copper

The first fraction is a high value, low-copper content ferrous product worth considerably more than a #2 grade fraction. Demand for this premium product is on the rise.

Fraction **2**

- Produces #2 shred
- 10-20% of flow
- Copper/steel
- Aluminum/steel

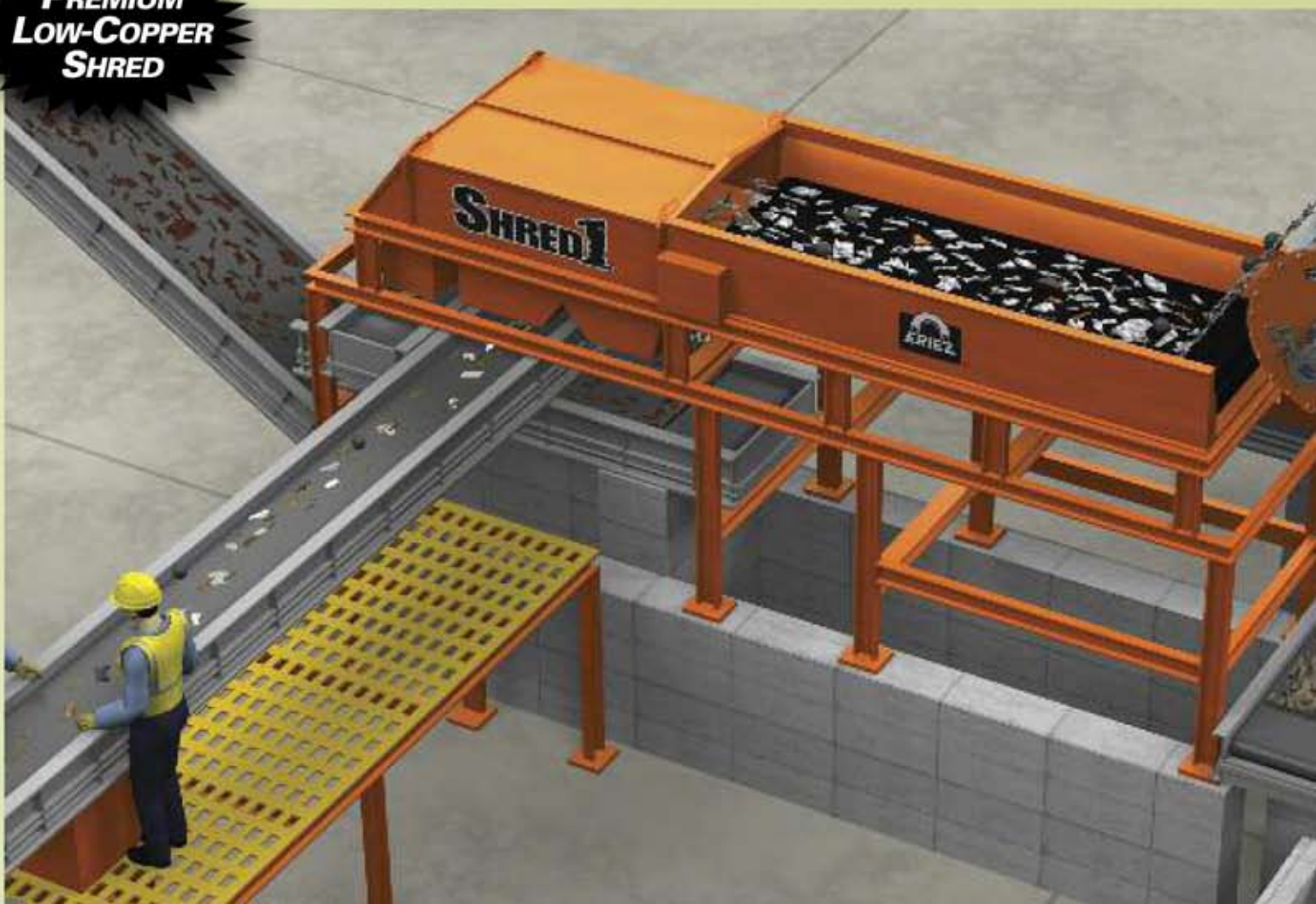
This second fraction represents less than 20% of the flow and contains mostly mixed metals, copper and aluminum with steel housings or cores. Hand sorting can be accomplished with relatively few pickers.

Fraction **3**

- Heavy & light material
- 5-7% of flow
- Heavy steel objects
- Light residual fluff, rubber, wire

The final low volume fraction consists of heavy steel objects and light material such as fluff, rubber, and some wire. This fraction can be picked or sorted.

**PREMIUM
LOW-COPPER
SHRED**











The Value of a Premium Ferrous Product

Clearly, worldwide demand for steel is on the rise. Scrap processors able to supply steel mills with a very high-grade ferrous product are positioned well for the future.

However with decline in availability of pure, high-quality industrial scrap, processors are shredding more "consumer waste" than ever before. Post-consumer waste, items like autos and appliances, contain lots of motors, condensers, wire harnesses as well as cast aluminum pieces all which have steel housing, shafts or cores. This presents a big problem for most yards using current processing technology. The CleanStream ferrous process changes this dynamic and allows processors to differentiate themselves with a premium ferrous shred and demand a higher value per ton.



Equipment Effectiveness To Remove Copper

Contaminants	Automated Reject		Hand Picking	
	SHRED1	XRF	CleanStream	Traditional
  Small Electric Motors	Yes	No	Yes	Difficult
 Wire Harnesses	Maybe	No	Maybe	Difficult
 Aluminum Pieces	Yes	No	Yes	No
 Meatballs in Housings	Yes	No	Yes	Maybe
 Refrigerator Compressors	Yes	No	Yes	Difficult
 Meatballs	Yes	Maybe	Yes	Yes
 Copper Nickel	Yes	Yes	Difficult	Difficult

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

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