

SHRED¹TM

BALLISTIC SEPARATOR
PRODUCES A PREMIUM LOW-COPPER SHRED





BALLISTIC SEPARATOR

SHRED1™ Ballistic Separator

Shred1™ from Eriez uses ballistics to efficiently separate iron-rich ferrous from much of the mixed metals post-drum magnet flow. This new separator delivers two distinct fractions: a premium low-copper ferrous product (in the range of 0.16-0.20% cu) and a traditional #2 shred.

The Shred1 ballistic separator combined with a Poker Sort to extract long, troublesome poker, and 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 reduces the hand picking and helps increase recovery of copper bearing materials.



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 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
- Reduces picking labor
- No x-ray scanning needed
- Removes concealed copper

Visit Recovery.Eriez.com to see more.



Premium #1 quality shred with less than .20% copper content.



Tradition #2 quality ferrous fraction.



SHRED1'S TWO 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.

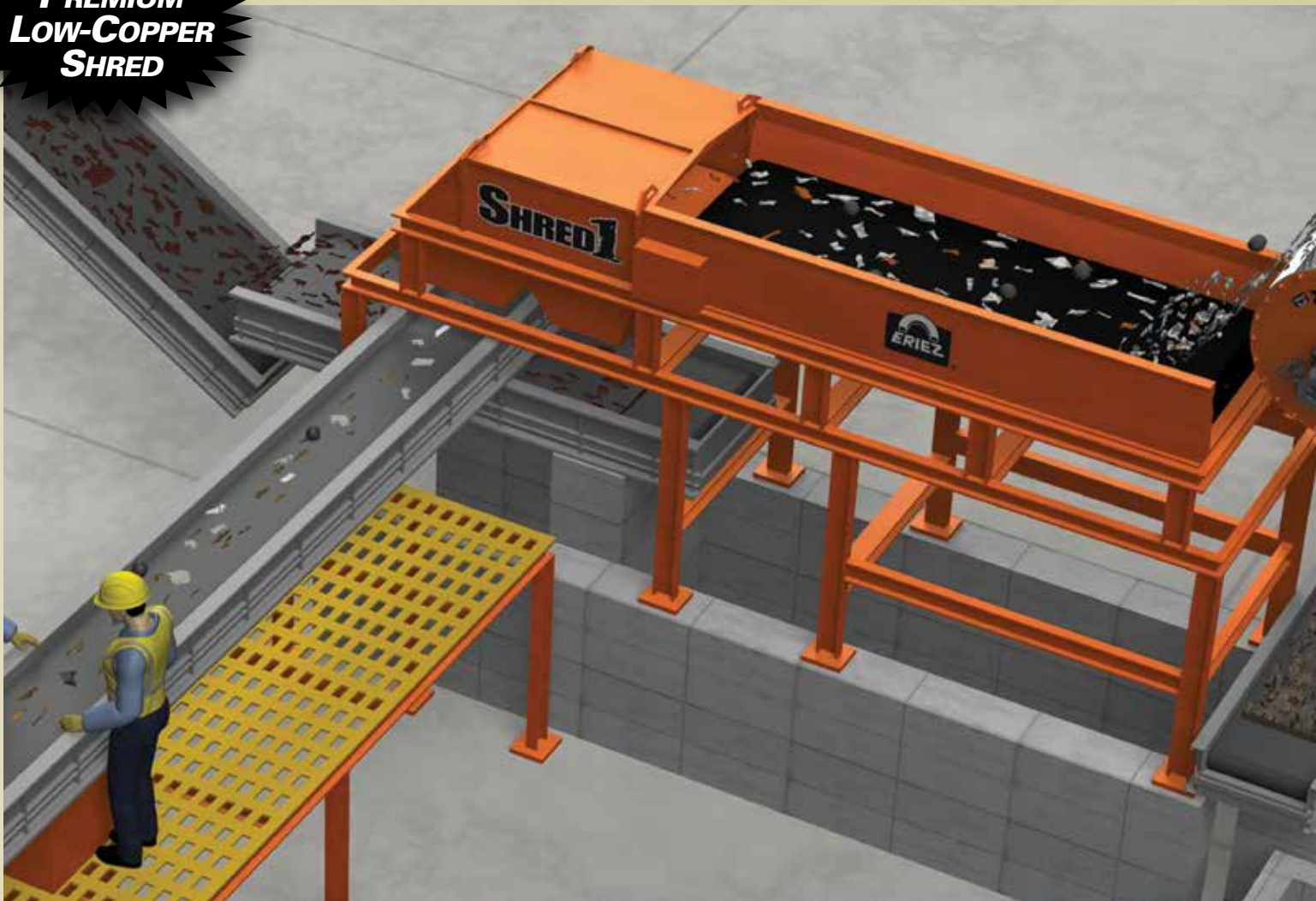
Fraction

2

- Produces #2 shred
- 20-30% of flow
- Copper/steel
- Aluminum/steel

This second fraction represents less than 25% 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. Increased copper recovery.

**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 a 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 motors, condensers, wire harnesses as well as cast aluminum pieces all of 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	
	SHRED ¹	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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Headquarters: 2200 Asbury Road, Erie, PA 16506-1402 U.S.A.

Telephone: 814-835-6000 • 800-345-4946 • Fax: 814-838-4960 • International Fax: 814-833-3348

Web Site: <http://www.eriez.com> e-mail: eriez@eriez.com

Manufacturing Facilities: AUSTRALIA • BRAZIL • CANADA • CHINA • INDIA • JAPAN • MEXICO • SOUTH AFRICA • UNITED KINGDOM • UNITED STATES