FinesSort®

FinesSort Jr for Entry Level Fines Recovery

FinesSort Jr is an entry level machine for fines nonferrous recovery. Unlike FinesSort, the Jr model only captures nonferrous materials under one-inch coming from the trommel screen.

EQUIPMENT LIST

1. Vibratory Feeder (HVF)
2. SRE Drum – Single or Double
3. Magnetic Pulley (Optional)
4. Permanent Rare Earth Magnetic Drum (Optional)
5. Permanent Magnetic Eddy Current Separator (RE Type)
6. Belt Magnet

*Fluff or dirt can also be upgraded on the "Eddy Current Separator System" when the system is adjusted to different settings.

**Some flowsheets may require more or less equipment.

Sending Cash to the Landfill?

Eriez' Metal Recovery Systems reclaim and segregate valuable metals from discarded materials heading for landfill. Through the addition of Eriez ProSort and FinesSort metal recovery systems, scrap handlers can recover nearly all of the metals passing through their yards, and segregate that metal to maximize its value.

These systems can easily pay for themselves within months of start-up.

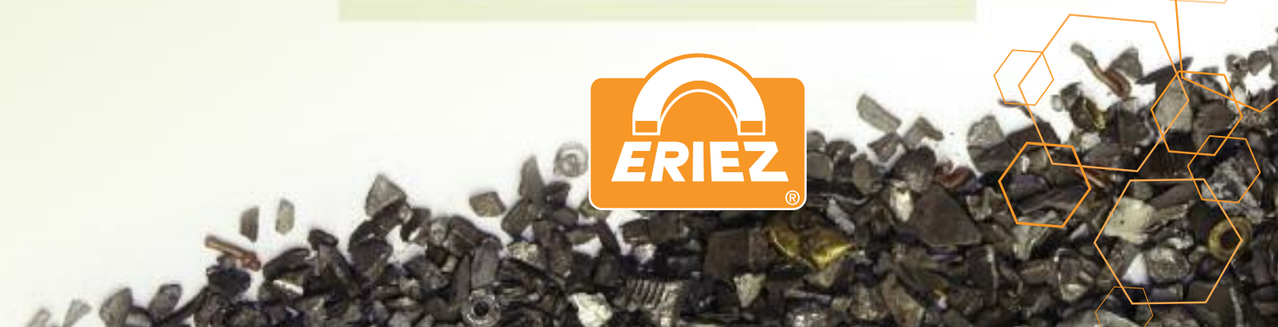
Note: Some safety warning labels or guarding may have been removed before photographing this equipment.

World Authority in Advanced Technology for Magnetic, Vibratory and Inspection Applications
Headquarters: 2200 Asbury Road, Erie, PA 16506-1440 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.comz
Manufacturing Facilities: AUSTRALIA • BRAZIL • CANADA • CHINA • INDIA • JAPAN • MEXICO • SOUTH AFRICA • UNITED KINGDOM • UNITED STATES

213-2M-AHA-MC ERIEZ MANUFACTURING CO ©2013 PRINTED IN USA

FinesSort®

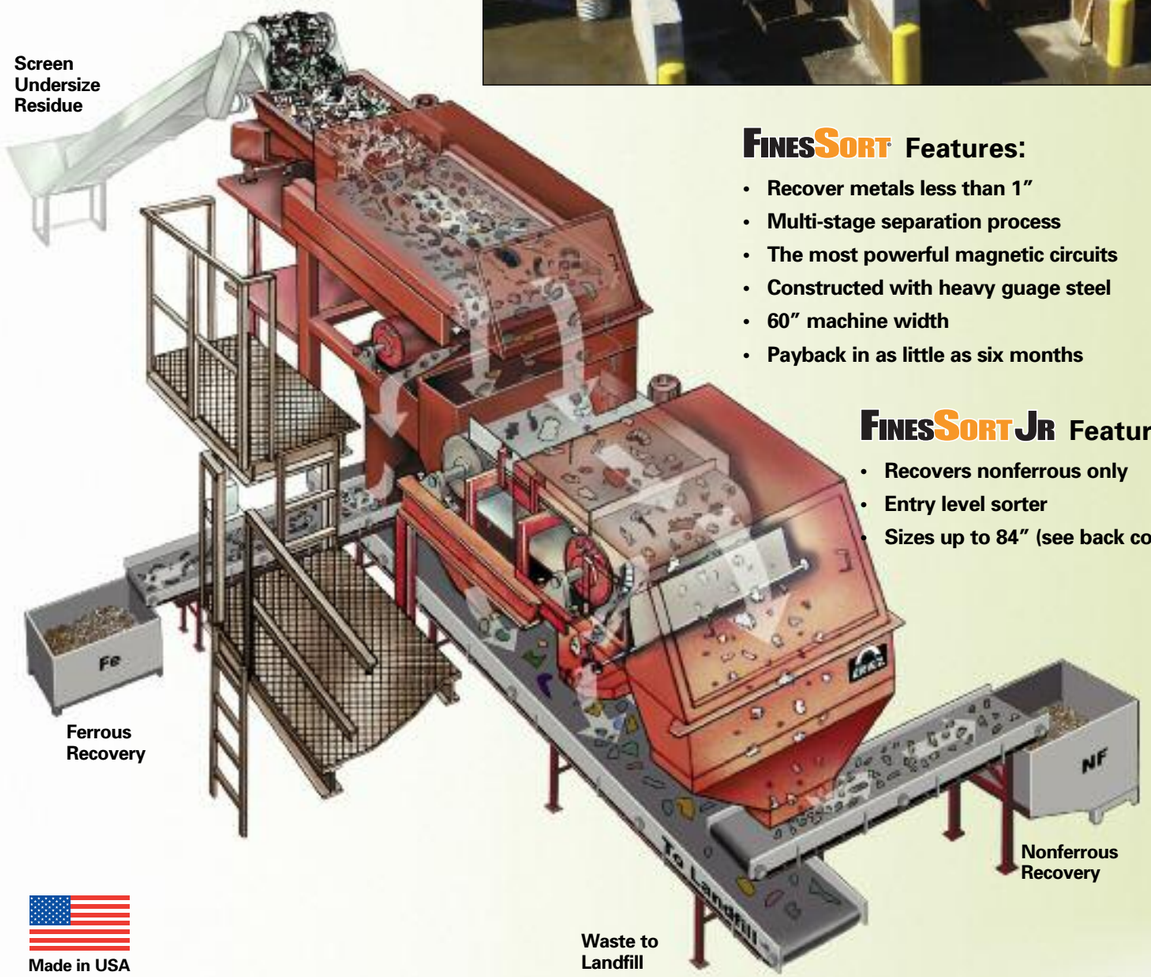
Fines Metal Recovery System



FinesSort®

Recover Valuable Metal "Fines" From Waste

Eriez' ***FinesSort®*** Metals Recovery System uses powerful magnetic components to recover valuable ferrous and nonferrous metals from the fines waste stream in scrap yards. This system not only reduces the amount of waste destined for landfill, but reclaims thousands of valuable pounds of metals per day.



Made in USA

FinesSort Features:

- **Recover metals less than 1"**
- **Multi-stage separation process**
- **The most powerful magnetic circuits**
- **Constructed with heavy guage steel**
- **60" machine width**
- **Payback in as little as six months**

FinesSort Jr Features:

- **Recovers nonferrous only**
- **Entry level sorter**
- **Sizes up to 84" (see back cover)**

Multi-Stage Separation

Eriez' FinesSort MRS receives the discarded "fines" material that has passed through the initial screening process. The material flows through the machine's magnetic separators removing metals from the flow dropping them onto a cross-belt conveyor and into a recycling container.

The initial separation stage creates three material fractions, a clean ferrous product, waste and a nonferrous fraction which is further cleaned in the following stage. Ferrous is first separated using a powerful Rare Earth pulley that pulls the ferrous material out, and then passes a magnetic drum to further separate the ferrous materials from any remaining residual waste producing a clean ferrous product. The fraction is dropped onto a cross conveyor and into a collection bin. Also at this stage, light non-metal materials fall out of the stream onto the waste conveyor below.

The second stage reclaims the valuable nonferrous metals. Here, a special Eddy Current separator is specifically designed to recover fine nonferrous materials that the main Eddy Current separator would otherwise have missed. The waste drops off the end of this belt joining the waste already deposited on from the up-stream ferrous separation. The nonferrous material is propelled by the special Eddy Current into a cross conveyor and from there into collection bins.

A high frequency Eddy Current Separator propels nonferrous metals out of the waste stream.

Nonferrous fines drop into collection bins.

The Value of Fines Recovery

Smaller sized materials or "fines" that have passed through the initial screening process, and are often discarded and sent to landfills, represent roughly 20% of the original total flow. Within the fines, generally less than 5% is recyclable metal, depending on the mix of product being scrapped. Although 5% of the fines or just 1% of the total stream might seem insignificant, reclaiming these valuable metals can be worth tens of thousands of dollars annually.

Daily Value of Fines Recovery

Total Processed	*Fluff Produced*	*Fines Produced Lbs./Day*	*Recoverable NF/Fe*	*Nonferrous*		*Ferrous*		*Revenue per Day*
tpd	tpd	tpd	lbs/day	lbs/day	$/day	lbs/day	$/day	
					0.85 lbs.		0.10 lbs	
200	50	25	7,500	4,125	$3,506.25	3,375	$337.50	$3,843.75
400	100	50	15,000	8,250	$7,012.50	6,750	$675.00	$7,687.50
600	150	75	22,500	12,375	$10,518.75	10,125	$1,012.50	$11,531.25
800	200	100	30,000	16,500	$14,025.00	13,500	$1,350.00	$15,375.00
1000	250	125	37,500	20,625	$17,531.25	16,875	$1,687.50	$19,218.75

Data based on screening material at <1 inch

Eriez FinesSort effectively removes 90-96% of recoverable ferrous and nonferrous metals from the fines stream

Additional cost savings for reduction in landfill expenses not included