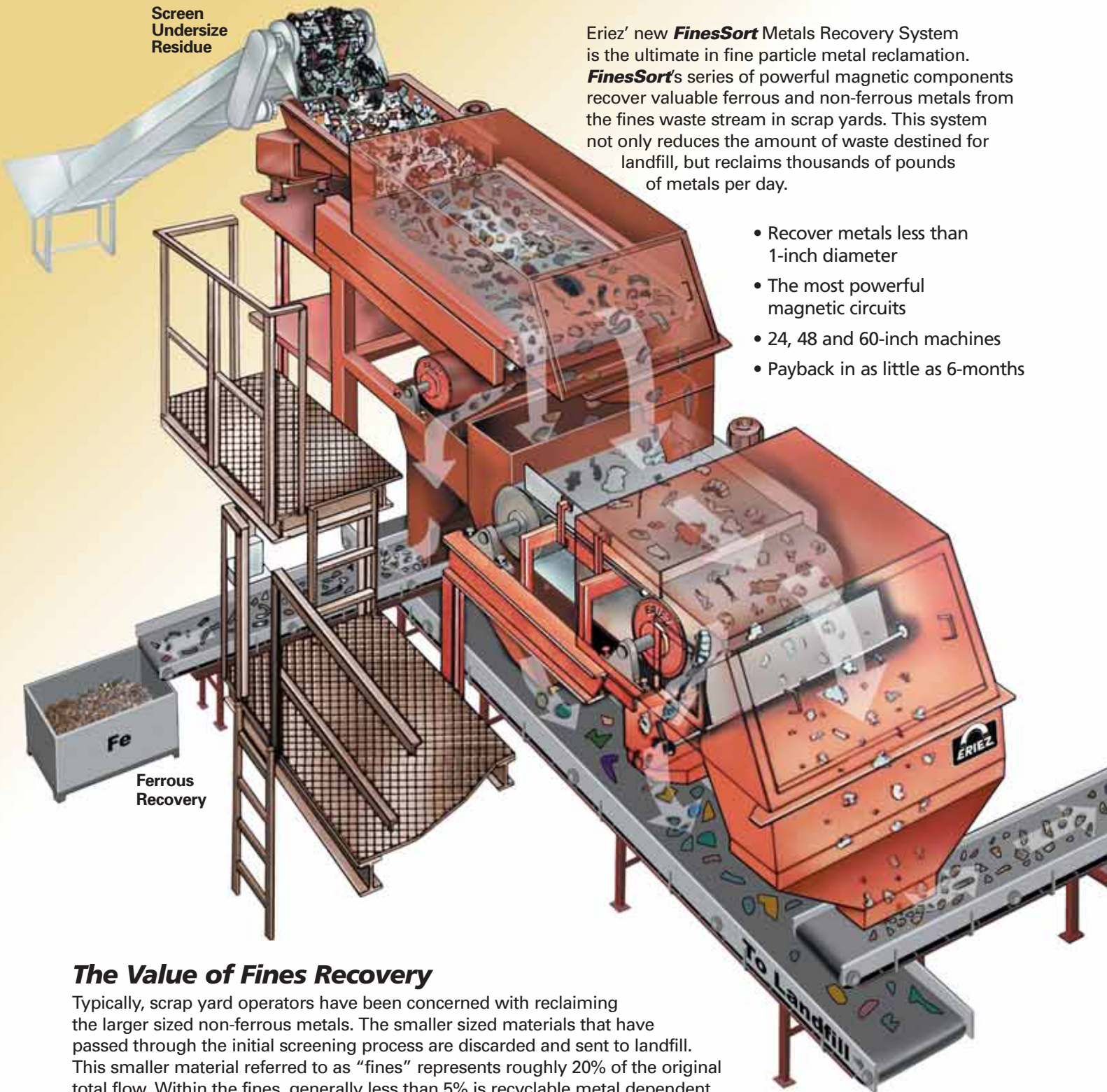


FINES SORT

FINES METAL RECOVERY SYSTEM

Recovers valuable metal fines from the scrap waste stream





Eriez' new **FinesSort** Metals Recovery System is the ultimate in fine particle metal reclamation. **FinesSort's** series of powerful magnetic components recover valuable ferrous and non-ferrous 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 pounds of metals per day.

- Recover metals less than 1-inch diameter
- The most powerful magnetic circuits
- 24, 48 and 60-inch machines
- Payback in as little as 6-months

The Value of Fines Recovery

Typically, scrap yard operators have been concerned with reclaiming the larger sized non-ferrous metals. The smaller sized materials that have passed through the initial screening process are discarded and sent to landfill. This smaller material referred to as "fines" represents roughly 20% of the original total flow. Within the fines, generally less than 5% is recyclable metal dependent 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.

Waste to Landfill



DAILY VALUE OF FINES RECOVERY							
Fines Waste	Recovered Ferrous		Recovered Nonferrous		Landfill Savings		Daily Savings
lbs. per day	Pounds	Dollars	Pounds	Dollars	Pounds	Dollars	Dollars
	14% Rate	\$.10/lbs	6.5% Rate	\$.80/lbs		\$.011/lbs	
15,000	2,100	\$210	975	\$780	3,075	\$34	\$1,024
25,000	3,500	\$350	1,625	\$1,300	5,125	\$56	\$1,706
50,000	7,000	\$700	3,250	\$2,600	10,250	\$113	\$3,413
75,000	10,500	\$1,050	4,875	\$3,900	15,375	\$169	\$5,119
100,000	14,000	\$1,400	6,500	\$5,200	20,500	\$226	\$6,826

Multi-Stage Separation

Eriez' FinesSort MRS receives the discarded "fines" material that has passed through the initial screening process and separates the waste, ferrous and non-ferrous from the fines waste. The material flow is straight through the machine with a series of magnetic separators that remove metals from the flow dropping them onto a cross-belt conveyor and into a recycling container.

The initial separation stage creates three material streams, a clean ferrous product stream, a waste stream and a non-ferrous metals stream which is further cleaned in the following stage. The ferrous stream is first separated using a powerful Rare Earth pulley that pulls the ferrous material out. Here, a magnetic drum further separates the ferrous materials from residual waste that is entangled with the ferrous, producing a clean ferrous product. The clean ferrous 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 non-ferrous materials the main Eddy Current separator would otherwise miss. The waste drops off the end of this conveyor to the waste conveyor below joining the waste already deposited on this same conveyor from the up-stream ferrous separation. The non-ferrous waste is propelled by the special eddy current into a cross conveyor and from there into collection bins.

Machine Sizes & Configurations

Eriez' durable fines sorting equipment is available in 24, 48 and 60-inch widths to accommodate various levels of capacity. Each machine is built of heavy gage steel and assembled on a rugged steel framework.



Estimates of less than 10% of scrap operators are currently reclaiming these valuable metals from their fines waste

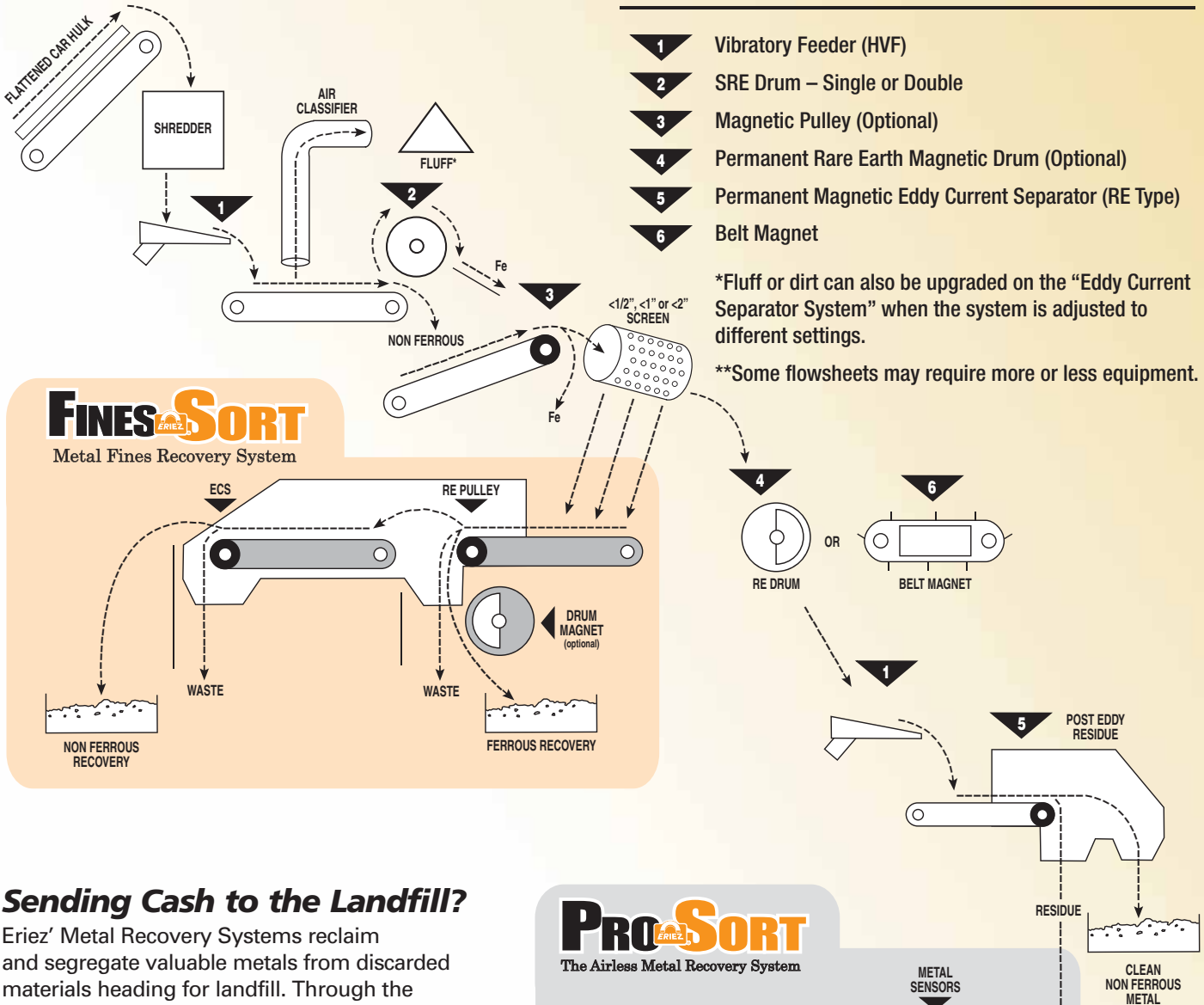


EQUIPMENT LIST

- 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.

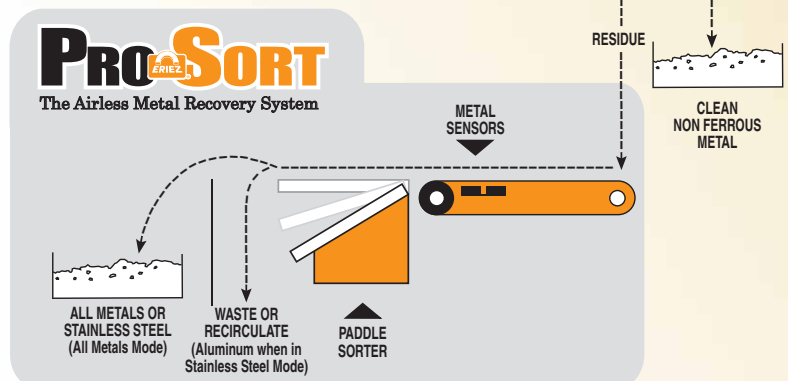
**Some flowsheets may require more or less equipment.



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 96% 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.



World Authority in Advanced Technology for Magnetic, Vibratory and Inspection Applications

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