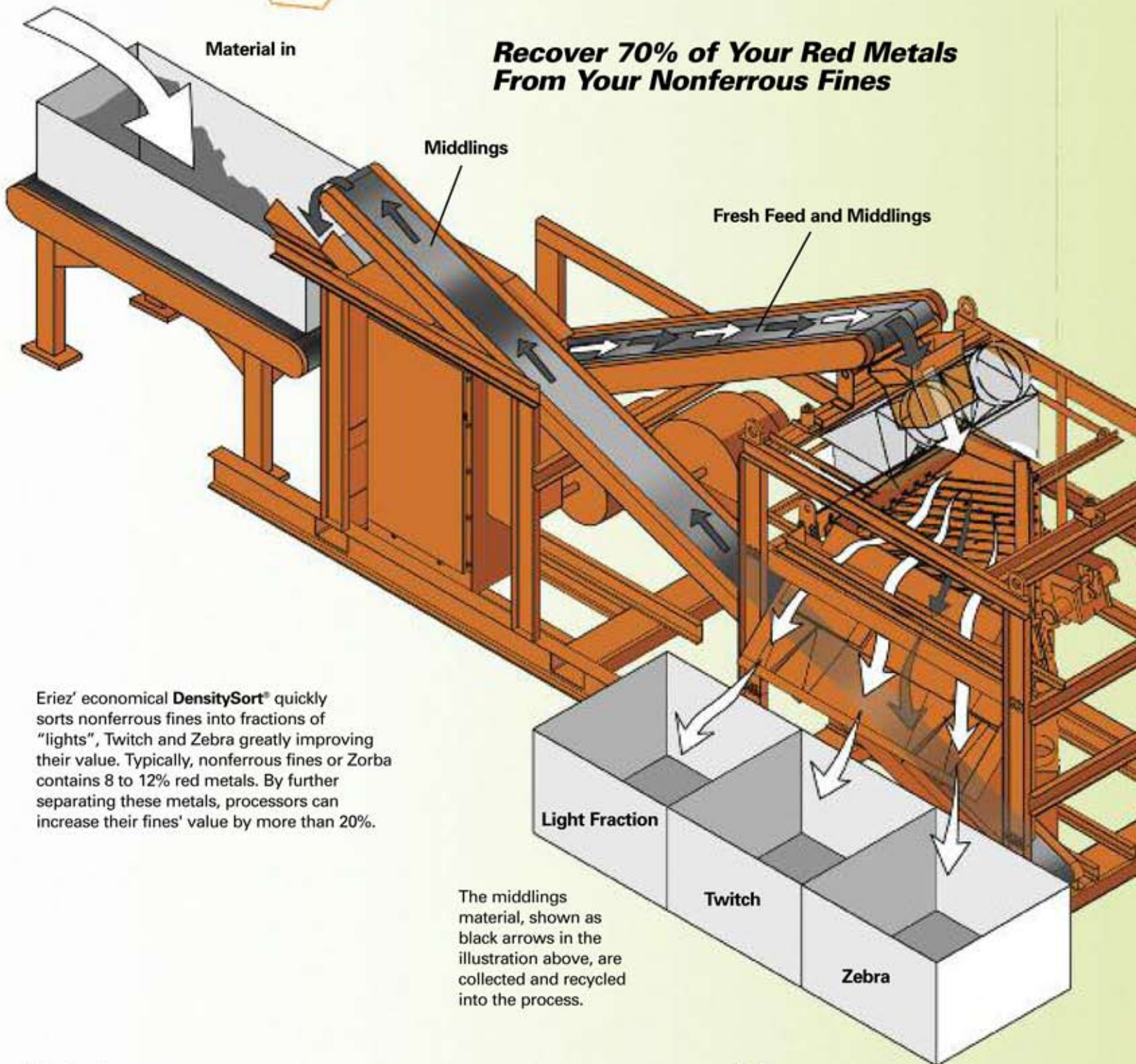


# DENSITY SORT<sup>®</sup>

**SORTS NONFERROUS "FINES" BY GRAVITY**



# DENSITYSORT® SORTS NONFERROUS FINES



Eriez' economical **DensitySort**® quickly sorts nonferrous fines into fractions of "lights", Twitch and Zebra greatly improving their value. Typically, nonferrous fines or Zorba contains 8 to 12% red metals. By further separating these metals, processors can increase their fines' value by more than 20%.

The middlings material, shown as black arrows in the illustration above, are collected and recycled into the process.

## Light Fraction



Primarily aluminum containing some non-metallics and some hollow copper tubing. Reprocessing this fraction on an eddy current separator will produce a Twitch.

## Twitch



Floated fragmentizer aluminum scrap-derived from media separation device. Less than 1% free zinc, 1% free magnesium, 1% iron, 2% non-metallics, 1% rubber and plastic.

## Zebra



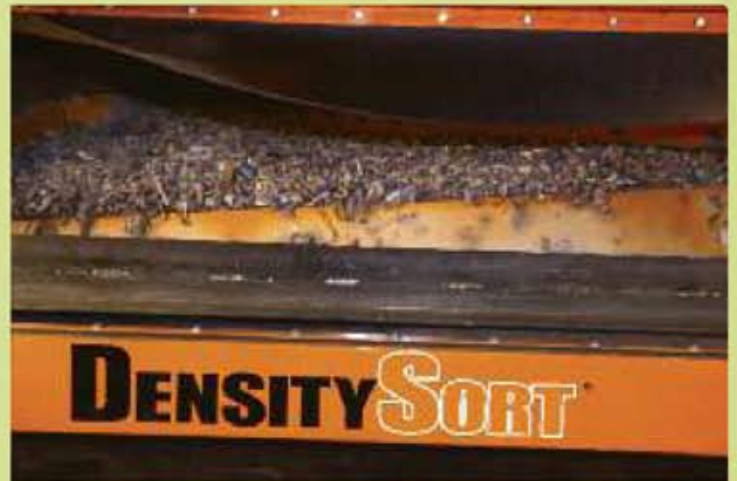
High density non-ferrous metals containing brass, copper, zinc, non-magnetic stainless steel, and copper wire.



## Air Table Decking

The heavy-duty perforated deck is designed to evenly distribute air throughout the table to fluidize the material on the deck. The air pressure under the deck is adjusted proportionally according to the thickness of material to evenly fluidize material.

DensitySort uses air, vibration and slope to separate heavies from lights. Fines are fed at the high point of the table's slope. Its own specific mass directs the particles into low, middle or high density sorting bins. Gravity aided by the unit's air and vibratory action enables over 70% red metal recovery and production of a clean aluminum (Twitch) fraction. The middlings are collected and recycled into the process.



Media free sorting

## DENSITY SORT Features:

- Separates nonferrous fines
- Greatly improves fines value
- High throughput 6 to 8 tph/machine
- Produces "Twitch"
- Recovers nearly 70% red metal
- No sands, water or filtration needed
- Processes <1" and 1x2-inch fractions without adjustments
- Payback in as little as 6 months
- Product is washed by air and is ready for further hand picking



Easily separates Zobra into Twitch and Zebra

# DENSITYSORT®

## Optional Air System

DensitySort® is available with a skid mounted air system. The recommended air system includes a heavy-duty 60 horsepower, energy efficiency blower. The blower mounts next to the table and is connected to the table via manifold and rubber boots. The exhaust air is collected in a bag house equipped with a 50 HP exhaust fan before emitting to the atmosphere.

## Dust Collector

### 14000 CFM Dust Collection System

#### Air Volume

- 14,000 ACFM at 10" W.G. (water gauge)

#### Power Source

- 50 HP, 480 Volt, 3 Phase TEFC motor with all controls in a NEMA enclosure

#### Frame

- 11 gauge steel construction with fork pockets and lift eyes for easy transport.
- Telescoping legs to allow for two 55 gallon drums to be placed under the unit to collect debris from the filter house

#### Filtration

- 24 cartridge filters with pulse jet style cleaning system with an air to cloth ratio of 2.4 to 1 - 5760 square feet of filter area



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

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