

## SENSOR TECHNOLOGY

# METAL SENSOR SEPARATOR

## Models EMSEF-R and EMS-R

### TECHNICAL SPECIFICATIONS

Some metals remain present in the waste of your Eddy Current Separators working on shredder residue, either because they react very little to ECS or because they simply enter within their margin of error.

These metals can represent between 2 to 5% of your ECS waste and are typically divided into two main categories: Zurik (mainly stainless steel) and Copper Wire (insulated and bare).

The SGM sensor separator is the natural complement to recover those metals. Provided with latest technology high resolution induction sensors designed by SGM. Designed with top blowing pneumatic rejector head with metal pieces that are blown down.

This results in increased metal recovery performance on insulated copper wire and difficult shaped pieces of stainless steel such as poker and spherical pieces, as they are blown off from a greater distance with a wider air spectrum that has a better chance to hit their center of gravity and provide them with a defined rejected trajectory.

### MECHANICAL FEATURES

- Possibility of connecting multiple EMS separators while maintaining the same working level.
- Laser cut frame for maximum stability and accurate assembly.

### ELECTRONIC FEATURES

- Sensor board modules each with 12 sensors allowing for easy access.
- 12" touch screen control panel for easy intuitive interface. Possibility to select different metal separation programs (All metals, stainless steel, wire) with different pre-set levels of intensity: High, medium, low.
- Alarm communication and diagnostic survey related to proper feeding and distribution of infeed material to EMS separator.

### OPTIONAL FEATURES

- Cleaning brush system for belt
- Vibrating feeder

MODEL	SENSORS	VALVES/ NOZZLES	AIR COMPRESSOR	RESERVOIR	BELT SPEED BELT WIDTH	LENGTH	WIDTH	HEIGHT	WEIGHT
EMS-R 48 EMSEF-R 48	60	120	37 kW 8 bar	1,000 lt	2-2.8 m/sec 1200 mm 6.5-9 ft/sec 48"	5250 mm 207"	2200 mm 87"	2400 mm 95"	2,800 Kg 6,173 lbs
EMS-R 80 EMSEF-R 80	90	180	45 kW 8 bar	1,500 lt	2-2.8 m/sec 1800 mm 6.5-9 ft/sec 70"	5250 mm 207"	2800 mm 87"	2400 mm 95"	3,400 Kg 7,496 lbs
EMS-R 96 EMSEF-R 96	116	232	55 kW 8 bar	2,000 lt	2 - 2.8 m/sec 2300 mm 6.5-9 ft/sec 90"	5250 mm 207"	3300 mm 87"	2400 mm 95"	3,900 Kg 8,598 lbs

(\*) Depending on application, material specific weight and metal content in material

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### TYPICAL APPLICATIONS

Auto shredder residue (ASR)  
Municipal solid waste incinerator ash (IBA)  
Wood waste  
Copper wires (insulated and bare)  
Zurik (mainly stainless steel)

EMSEF-R for fines and mid-size fractions:  
15 to 40 mm - 1/16" to 1 1/2"  
EMS-R for large size fraction:  
40 to 130 mm - 1 1/2" to 4"

