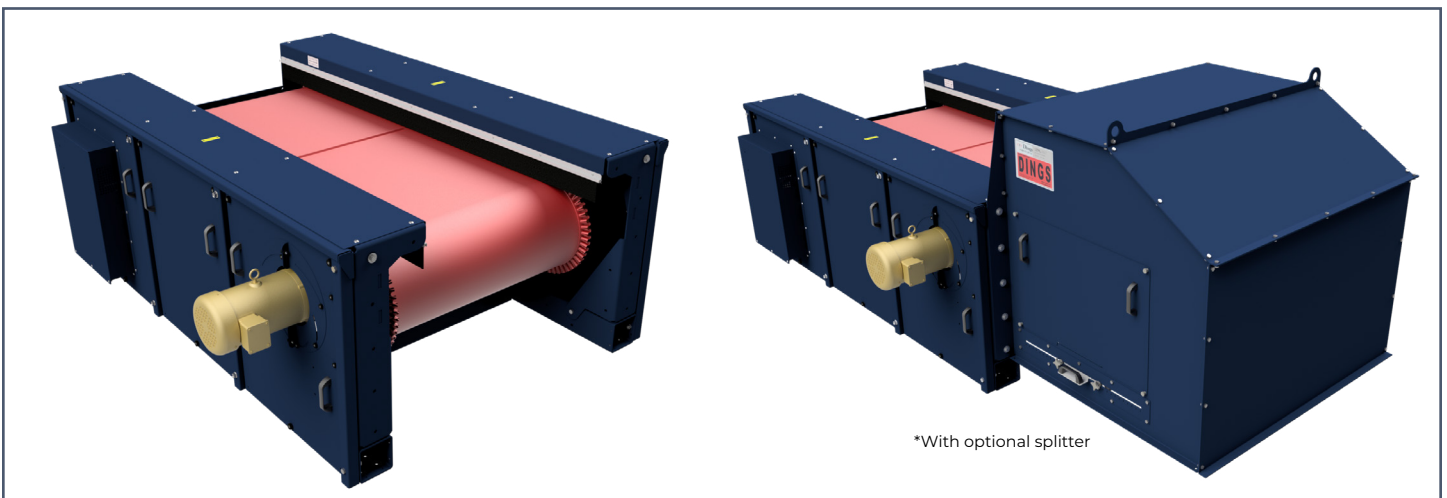


## Eddy Current Separator: Eccentric 9900 Model

- ◇ Polyurethane wear resistant belt with corrugated side walls for material containment and long life.
- ◇ Belt motor moves with take-up assembly for easy tracking and adjustment
- ◇ Easy to remove panels give access to bearings and makes endless belt replacement simple.
- ◇ Oversized, high speed rotor bearings & shaft
- ◇ Stainless steel rotor shell with fiberglass wear shield.



### Eddy Current Separators

An Eddy Current Separator is designed to recover non-ferrous metal from non-metallic material such as commingled recyclables, plastics, glass, material processed at composting or waste-to-energy facilities, auto shredder residue, and various other industries. Our Eddy Current Separators provide significant savings on labor costs by reducing the man hours required for manual sorting. They are engineered for dirty, dusty and severe outdoor surroundings found at many job sites. The permanent rare earth magnets used in our Eddy Current Separators provide larger and deeper magnetic fields that are well-suited for industrial applications. Dings' 9900 Eccentric Model's patented features and customer service and support separate us from the rest.

### Eddy Current Separation Operation

When a piece of non-ferrous metal such as aluminum, passes over the separator, the magnets inside the rotor rotate past the aluminum at high speed. This forms eddy currents in the aluminum, creating a magnetic field inside the piece of aluminum. The polarity of that magnetic field is the same as the rotating magnet, causing the aluminum to be repelled away from the magnet. This repulsion makes the trajectory of the aluminum greater

than that of the nonmetallic material, allowing the two material streams to be separated.

### Dings Current Eccentric Design

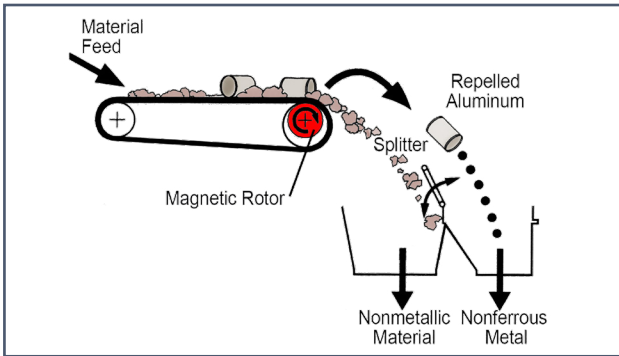
Ideal for separating non-ferrous from fractional sizes up to the size of aluminum cans from paper and plastic product streams. The off center "eccentric" magnet design of the rotor allows ferrous metal that made it past the upstream magnetic separator to be released from the belt as it leaves the magnetic area of the outer rotor shell. This reduces the likelihood that ferrous metal will cling to and damage the belt and shell, extending rotor life.

- ◇ Generate income by recovering non-ferrous metals.
- ◇ Save on costs of manual sorting.
- ◇ Fits easily into your existing line.
- ◇ Rare earth magnets provide high strength & long life.
- ◇ Heavy Duty Steel Cantilevered Frame makes endless belt replacement simple, 15 minutes or less.
- ◇ Easy to remove panels give access to bearings and belt reducing maintenance time.
- ◇ Optional integrated adjustable splitter with clear inspection doors provide access to the splitter.

## Eddy Current 9900 Eccentric Model Operation

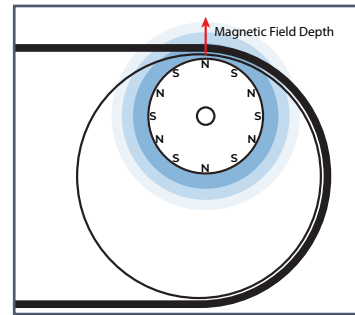
Separates non-ferrous from fractional sizes up to the size of aluminum cans from a paper and plastic product stream in a low to medium level throughput.

The off center "eccentric" magnet design of the rotor allows ferrous metal that made it past the upstream magnetic separator to be released from the belt as it leaves the magnetic area of the outer rotor shell. This reduces the likelihood that ferrous metal will cling to and damage the belt and shell, extending rotor life.



**9900 Eccentric Model Sizes**  
**Magnetic Pulley Diameter:** 16" (Rotor 8")  
**Belt Width:** up to 60"  
**Rotor Speed:** up to 3000 rpm

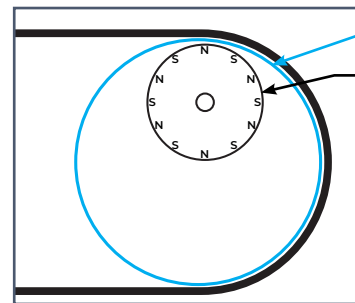
## Eddy Current Eccentric Design Magnetic Field



High frequency magnetic pole change & high magnetic strength provide superior product separation.

**Note:**  
 The 9900 Model's magnetic field is the same as the 9100 version. However, its off-center rotor design allows ferrous metal to be released rather than cling to the magnetic pulley causing damage.

## Dual Layer Shell Design



Fiberglass Wear Shield

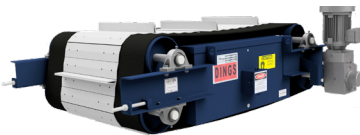
Heavy-Duty Stainless Steel Cover

This dual layer design provides maximum rotor protection that gives the equipment longer life, lower maintenance and repair costs and simplifies maintenance of the equipment.

## More Dings Company Magnetic Separation Equipment

### Severe Duty Overhead Self-Cleaning Electromagnet

"Durabelt" Stainless steel pads and cleats



### Overhead Self-Cleaning Electromagnet

20-year warranty on coil burnout



### Deep Drum Magnet



### Magnetic Head Pulley

Available in 3 different strength series



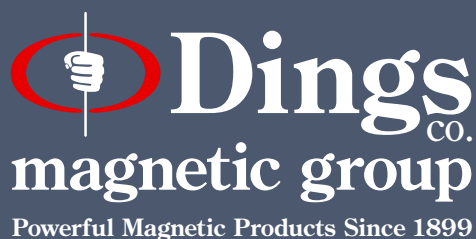
### MRF (Material Recovery Facility) Overhead Self-Cleaning Electromagnet

3" high cleats



ver.10/24

# Engineering Driven - Customer Service Focused



Dings Company Magnetic Group engineering and sales staff work together from our Milwaukee, WI factory to provide outstanding customer service from experts in magnetic separation. We listen to our customers to gain an understanding of their needs and apply our experience in their trade to provide magnetic separation equipment that is sized and positioned for the best possible performance in their specific application.



# Dings magnetic group

## Eccentric Eddy Current Request for Quote

Company: \_\_\_\_\_ Quote Required Date: \_\_\_\_\_

Address: \_\_\_\_\_ Contact Person: \_\_\_\_\_

City, State, ZIP: \_\_\_\_\_ Contact Email: \_\_\_\_\_

Phone/Cell: \_\_\_\_\_ Email Completed RFQ to: magsales@dingsco.com

Date Equipment Required by: \_\_\_\_\_ **\*You Must Select One to Print: Imperial Metric**

### Application Information

Application: \_\_\_\_\_

Type & Size of Non-Metallics to be Separated: \_\_\_\_\_

Type of Ferrous Removal Prior to Eddy Current: \_\_\_\_\_

Type & Size of Non-Ferrous Metals to be Separated: \_\_\_\_\_

Method of Feeding Eddy Current: \_\_\_\_\_

Feed Rate: \_\_\_\_\_ Feed Width: \_\_\_\_\_ Moisture Content: \_\_\_\_\_ % Percent

Burden Depth: \_\_\_\_\_ Tons Per Hour: \_\_\_\_\_

Location of Eddy Current: Indoor Outdoor Bulk Density: \_\_\_\_\_

Ambient Temperature: \_\_\_\_\_

Supply Requirements: Volts: \_\_\_\_\_ Phase: \_\_\_\_\_ Cycles Per Second (Hz): \_\_\_\_\_

Hours of operation: \_\_\_\_\_

Special Requirements: \_\_\_\_\_

### Eddy Current Belt Width Selection

Belt Width:

### Eddy Current Options

Fixed Speed Control Panel:

Belt Tracking Sensors: Splitter Assembly:

Standard Variable Speed Belt & Rotor Control Panel:

NON-Standard Variable Speed Belt & Rotor Control Panel: