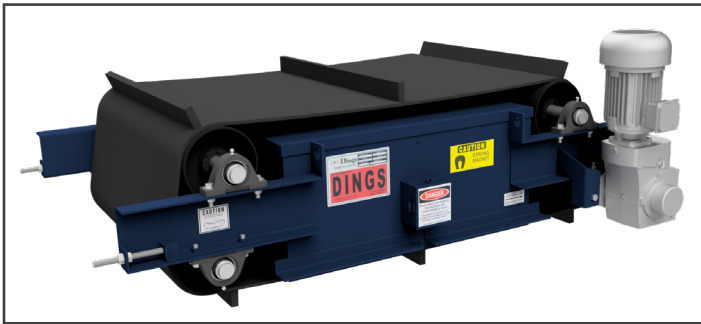


## Overhead Self-Cleaning Electromagnets: Material Recovery Facility Model

- ◇ Balanced Magnetic Circuit for maximum efficiency and equal distribution of length, width and depth of magnetic field.
- ◇ Multi-ply rubber belt with hot vulcanized 3" cleats to sweep away large diameter cans
- ◇ Stainless steel bottom and center wear plate provides extra protection in the main impact area.



### Dings Self-Cleaning Electromagnet Material Recovery Facility

The MRF (Material Recovery Facilities) self-cleaning model features 3 inch tall rubber vulcanized cleats on a tough belt. This model has the ability to sweep away large diameter cans that roll over the standard 1 inch cleat, ensuring that they get included in the separation process. This model is commonly used in material recovery facilities.

### Dings Electromagnetic Coils

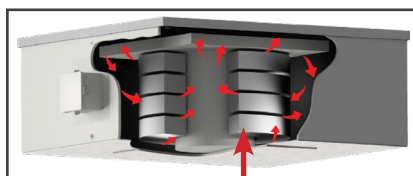
- ◇ No insulation is needed with anodized aluminum straps—eliminating the major cause of coil failure (insulation breakdown)
- ◇ More magnetism and separating power - generated by extra turns
- ◇ Each turn is exposed to cooling oil - assuring a stronger, more efficient magnet
- ◇ Eliminates the need for external oil expansion pipes or tanks that require maintenance and can be damaged

### MRF Typical Application

The MRF design is often used in applications such as: commingled recyclables at material recovery facilities (MRFs) to obtain separate material streams. Presorted recyclables at intermediate processing facilities (IPFs) for ensuring quality materials. Mixed waste processing facilities to recover recyclable ferrous materials. As well as for organic materials at composting locations and shredded tires at tire recycling processing sites.

### Anodized Aluminum Strap Coils

Dings electromagnetic coils are wound with an anodized aluminum strap— an exclusive design that generates more magnetism than any other on the market and exceeds Class H insulation rating! This design outlasts and out-performs copper wire with polymer insulation or bare aluminum with Nomex® insulation.



Oil Flow =  Anodized Aluminum Strap



20-Year Warranty on Coil Burnout

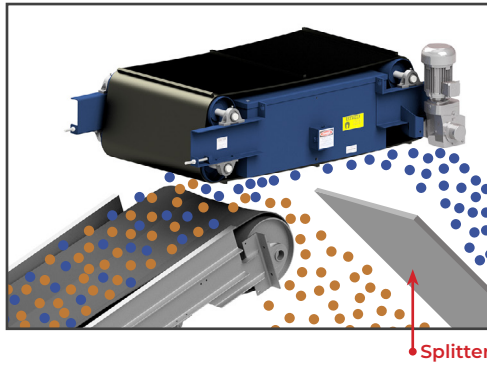
### Dings Electromagnetic Rectifiers



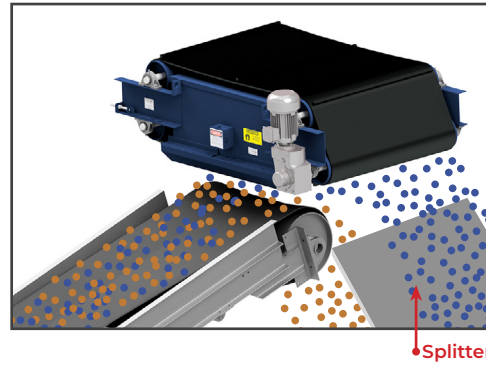
- ◇ Maintenance-free
- ◇ Overload capacity for short infrequent periods
- ◇ Corrosion protection in extreme environments

All electromagnets require a DC power supply. Rectifiers converts alternating current (AC) from your local power source to the necessary direct current (DC) needed by electromagnets.

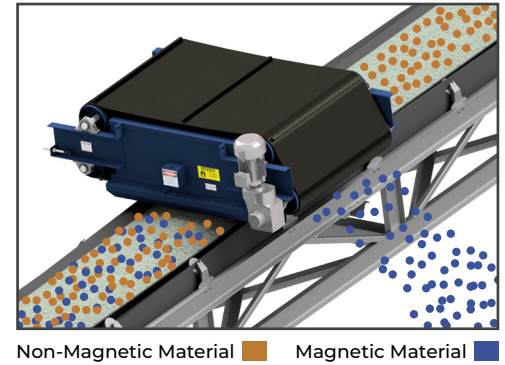
### Inline Mounting Position



### Crossbelt Over the Head Pulley



### Crossbelt Over the Conveyor Belt



Inline orientation is a more efficient mounting position than Crossbelt over the conveyor belt. With an inline mounted magnet, ferrous metal is liberated from the material as it is discharged from the conveyor making it easier to separate. Inline orientation sometimes permits the use of a smaller more economic magnet compared to cross-belt over the conveyor belt because the suspension height is reduced.

Cross-belt over the head pulley orientation is a more efficient option than mounting over the belt. One reason for this is the conveyor belt flattens as it reaches the pulley allowing for a reduced suspension height. Another is as the material leaves the conveyor it becomes airborne liberating the tramp metal and making it easier to separate. This orientation may permit the use of a smaller more economic magnet.

In a cross-belt over the conveyor belt mounting position the magnet is installed at a right angle to the travel direction of the material on the belt. Tramp metal is collected by the magnet and discharged by the magnet's self-cleaning belt into a collection bin along side the conveyor. This orientation is commonly used when the magnet is being installed on an existing conveyor.

## More Dings Company Magnetic Separation Equipment

#### Magnetic Head Pulley

Available in 3 different strength series



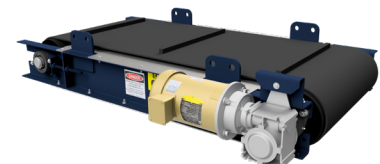
#### Overhead Self-Cleaning Electromagnet

20 year warranty on coil burnout



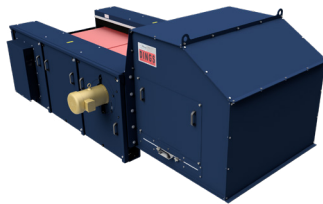
#### Overhead Self-Cleaning Permanent Magnet

Lifetime warranty on magnetism



#### Eddy Current Separator

Separate non-ferrous metal



#### Deep Draw Drum Magnet



## 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.