

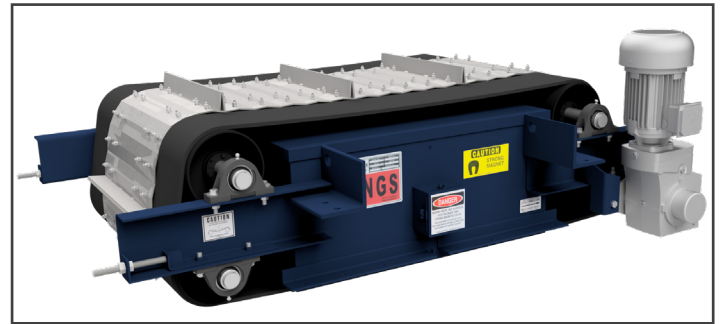
## Overhead Self-Cleaning Electromagnets: Crossbelt or Inline Mount

- ◇ Balanced Magnetic Circuit for maximum efficiency and equal distribution of length, width and depth of magnetic circuit
- ◇ Multi-ply rubber belt with hot vulcanized 1" cleats for superior adhesion
- ◇ Terminal connection box is NEMA 4 weather tight
- ◇ Stainless steel bottom and center wear plate provides extra protection in the main impact area



### Dings Self-Cleaning Electromagnet

Dings Self-Cleaning Models' belt continuously travels across the face of the magnet to automatically discharge tramp iron. It comes equipped with a multi-ply rubber belt with 1 inch hot vulcanized cleats.

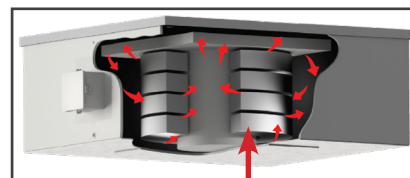


### Dings Severe Duty Self-Cleaning Electromagnet

The Severe Duty Model is specifically designed for tough applications. It is built to withstand the harshest environments and comes equipped with a Dings 'Durabelt' that prevents the rubber belt from being pierced by sharp tramp metal. A heavy duty drive assembly, lagging on the drive pulley and reinforced suspension/mounting hardware are included.

## 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



Oil Flow = 

Anodized  
Aluminum  
Strap



**20-Year Warranty  
on Coil Burnout**

## Anodized Aluminum Strap Coils

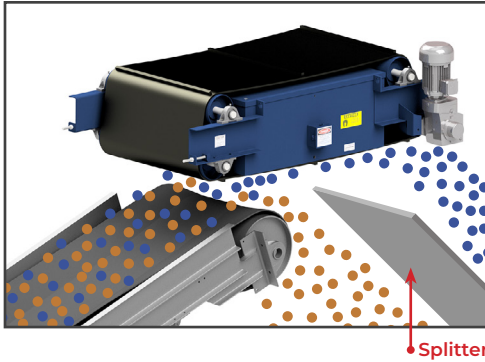
Dings electromagnetic coils are wound with an anodized aluminum strap— an exclusive design that generates more magnetism than any other on the market and exceeds Class H insulation rating! This design outlasts and out-performs copper wire with polymer insulation or bare aluminum with Nomex® insulation.

## Dings Electromagnetic Rectifiers

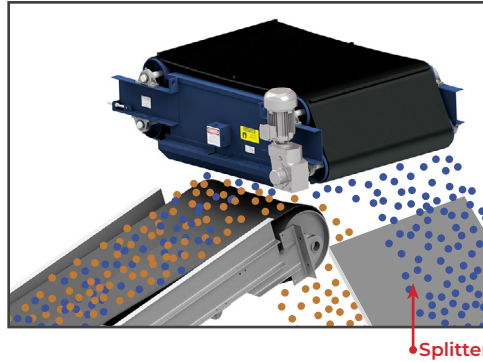


- ◇ Maintenance-free
- ◇ Overload capacity for short infrequent periods
- ◇ Corrosion protection in extreme environments

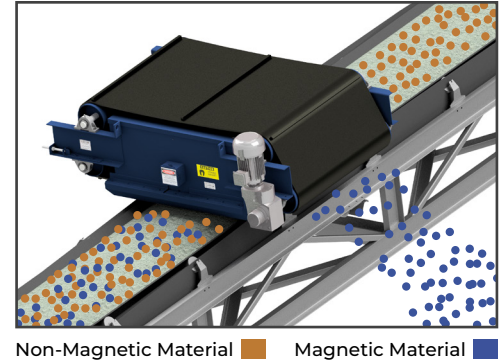
### Inline Mounting Position



### 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



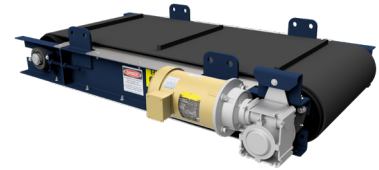
#### MRF (Material Recovery Facility) Overhead Self-Cleaning Electromagnet

3" high cleats



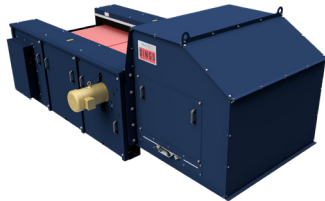
#### Overhead Self-Cleaning Permanent Magnet

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.

## Overhead Self-Cleaning Electromagnet Quote Request

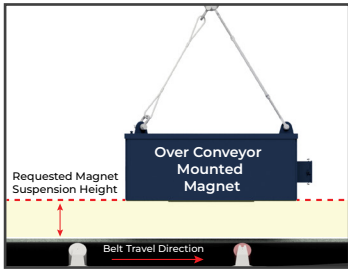
Company: \_\_\_\_\_ Quote Required Date: \_\_\_\_\_  
 Address: \_\_\_\_\_ Contact Person: \_\_\_\_\_  
 City, State, ZIP: \_\_\_\_\_ Contact Email: \_\_\_\_\_  
 Phone/Cell: \_\_\_\_\_ Email Completed RFQ to: magsales@dingsco.com  
 Date Equipment Required by: \_\_\_\_\_

### Information for Aggregate Applications

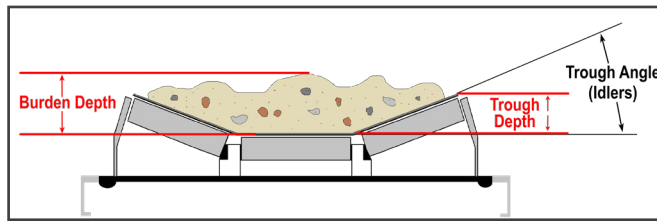
Type of Material Being Conveyed: \_\_\_\_\_

Belt Width: \_\_\_\_\_ inches      Belt Speed: \_\_\_\_\_ fpm      Belt Capacity: \_\_\_\_\_ tph  
 Bulk Density: \_\_\_\_\_ lbs/ft<sup>3</sup>      Max Lump Size: \_\_\_\_\_ inches      Max. Burden Depth: \_\_\_\_\_ inches <sup>(b)</sup>  
 Requested Magnet Suspension Height: \_\_\_\_\_ inches <sup>(a)</sup>      Trough Depth (if known): \_\_\_\_\_ inches <sup>(b)</sup>  
 Conveyor Inclined?      Yes      No      Inclined: \_\_\_\_\_ ° degrees  
 Trough Idlers:      0° degrees      20° degrees      35° degrees      45° degrees <sup>(b)</sup>  
 Supply Requirements:      Volts: \_\_\_\_\_      Phase: \_\_\_\_\_      Cycles Per Second (Hz): \_\_\_\_\_  
 Description of Largest & Smallest Size of Metal to be Removed: \_\_\_\_\_

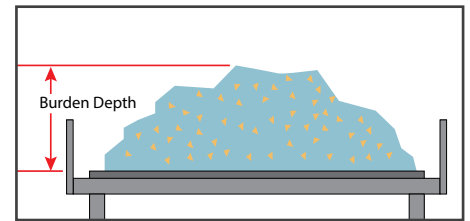
a) Description of magnet suspension height.



b) Description burden depth for troughed belt (idler angle and trough depth indicated).



b) Description of burden depth for flat belts (no idler angle/trough depth entries needed)

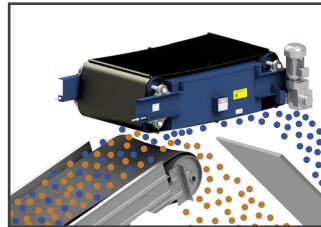


### Overhead Magnet Selection

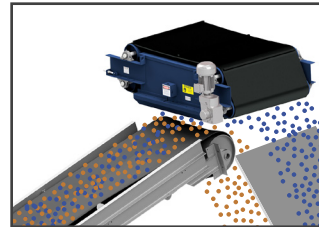
Overhead Mounting Selection:

- Inline
- Cross-Belt Over Conveyor
- Cross-Belt Over Head Pulley

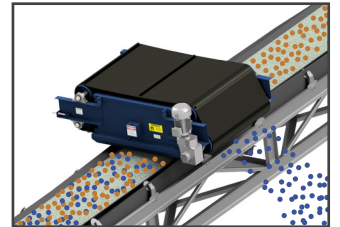
\*Inline mounted over head pulley



\*Cross-belt mounted over head pulley



\*Cross-belt mounted over the conveyor



Non-Magnetic Material ■      Magnetic Material ■

### Overhead Magnet Options

1" Rubber Cleats (STD)	Dust Cover	Hazardous Location
3" Rubber Cleats	Pulley Guard	CSA Approved Model
High Temp. Belt	Zero Speed Switch	
Armor-Clad Durabelt		
Special Requirements: _____		

### Rectifier Options

\*Note: Electromagnets Require a Rectifier for Operation:

Rectifier:  
Yes:                      No:

ETL Listed Model

Hazardous Location