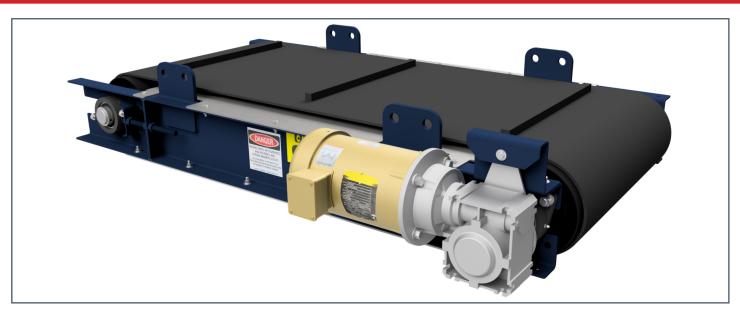


Overhead Self-Cleaning Permanent Magnets

- Unique construction the best ratio of field strength produced per size & weight of any in the industry!
- Magnet housing filled with Ceramic VIII magnet material.
- Multi-ply rubber belt with hot vulcanized
 1" cleats for superior adhesion
- Non-magnetic stainless steel construction that prevents collection of ferrous metals on the magnet frame.



Dings Self-Cleaning Permanent Magnet

Dings Self-Cleaning Models' belt continuously travels across the face of the magnet to automatically discharge tramp iron. This save time and labor costs.

The Self Cleaning Permanent Model comes equipped with a standard multi-ply rubber belt with 1 inch vulcanized cleats. A material recovery facilities (MRF) model is also available with a belt That has 3 inch cleats. For more severe applications, an armor clad "Durabelt" made of stainless steel pads and cleats is also available.

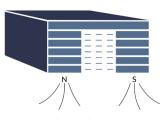
Dings Flux Control (DFC) Circuit

Dings Flux Control (DFC) Circuit design eliminates internal leakage between magnetic poles and improves separating performance. Other 'conventional' magnetic circuits contain air or filler material between the magnetic poles; this allows flux (magnetism) to escape (leak out) and be wasted. In Dings DFC design - blocking magnets are strategically positioned in the spaces between the magnetic poles. These redirect the flux outward, into your product, converting the wasted flux into working force - making the magnet more efficient.

Dings DFC Design improves the overall performance of the magnet in 3 ways

- ♦ The magnetic field is stronger
- The magnetic field extends deeper
- The magnetic field pattern is more uniform

Conventional Magnetic Circuit With "filler" between the poles



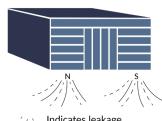
_ _ _ Indicates flux leakage in airspace

Dings Magnetic Circuit with blocking magnets between the poles

On Magnetism

for all Permanent

Magnets

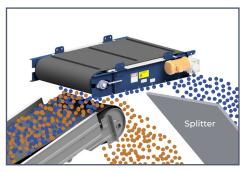


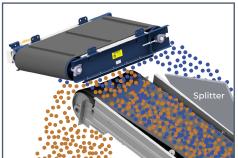
Indicates leakage converted to work force

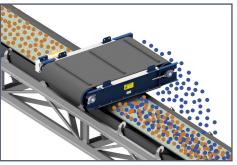
Inline Mounting Position

Crossbelt Over the Head Pulley

Crossbelt Over the Conveyor Belt







Non-Magnetic Material Magnetic Material

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

Available in 3 different strength series

Magnetic Head Pulley

MRF (Material Recovery Facility) Overhead Self-Cleaning Electromagnet 3" high cleats



Overhead Self-Cleaning Electromagnet



Deep Draw Drum Magnet



Eddy Current Separator



ver 10/24

Engineering Driven - Customer Service Focused



Powerful Magnetic Products Since 1899

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 Permanent Magnet 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:			*You Must Select One to Print: Imperial Metric			
Application Inform	nation					
Application:						
Type of Material Being C	Conveyed:					
Belt Width: Belt Speed:			Belt Capacity:			
Bulk Density: Max Lump Size:		Max. Burden Depth:				
Requested Magnet Suspension Height:			Trough Depth (if known):			
Conveyor Inclined?	Yes No	Inclined:	° degrees			
Trough Idlers:	0° degrees	20° degrees	35° degrees	45° degrees ^{(k}	o)	
Supply Requirements:	Volts:	_ Phase:		Cycles Per Secon	d (Hz):	
a) Description of magnet suspension height.	Descrip Siz	otion of Largest & S e of Metal to be Re	Smallest emoved:			
Requested Magnet Suspension Height Belt Travel Direction		n depth for troughed belt bugh depth indicated).	Trou		burden depth for flat belts /trough depth entries needed)	
Overhead Magnet	Mounting Sel	ection				
Inline Over the Head Crossbelt Over the Head Crossbelt over the Co	lead Pulley		Splitter	Splitter		
Overhead Magnet Options						
	Dura Belt		Hazardous Locat	ion		
	Dust Cov	er	CSA Approved M	odel		
High Temp. Belt	Pulley Gu	ıard	Zero Speed Swite	ch	ver. 10/24	
Special Requirements					VC1. 10/24	