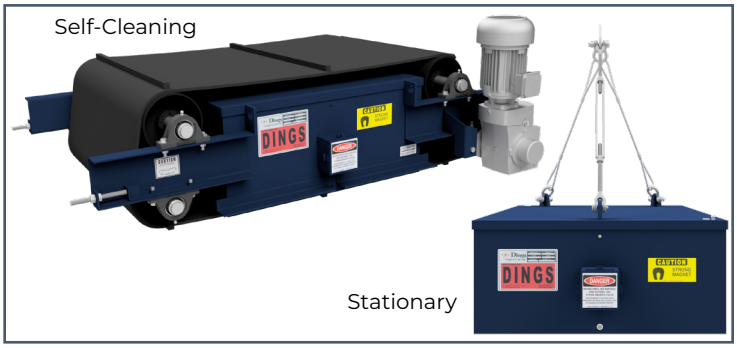
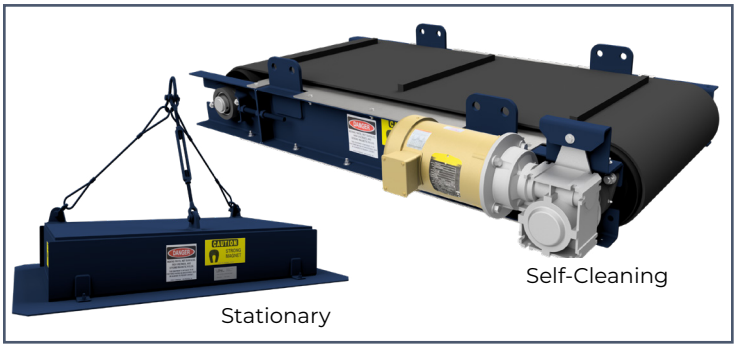
Dings magnetic group

Overhead Magnets
Electro and Permanent

Aggregate & Mining Applications

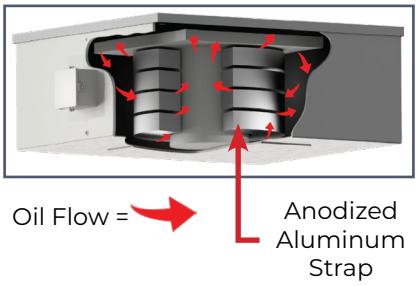
Dings overhead magnets provide the industry's best performance and the durability that's required to prevent damage to processing equipment and costly down-time





Dings Electromagnets

- 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 (Self-cleaning models)
- Severe Duty Model with stainless steel Durabelt pads and cleats to protect underlying rubber belt (Self-cleaning)
- Stationary Model is virtually maintenance-free with no moving parts. (except cooling oil changes as needed)
- Stainless steel bottom and center wear plate provides extra protection in the main impact area



WARRANTY 20 YEAR WARRANTY

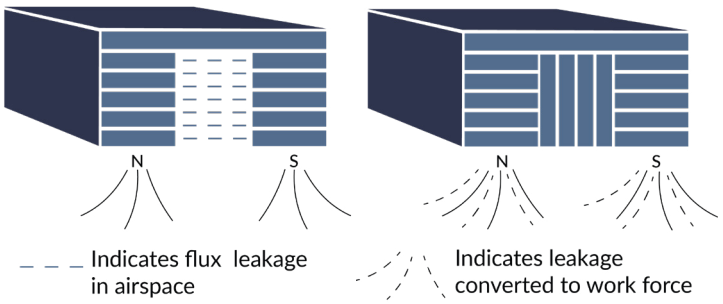
20-Year Warranty on Coil Burnout

Dings Permanent Magnets

- No power supply needed for magnet (Stationary Model)
- Maintenance-free design (Stationary Model)
- 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
- Full stainless steel bottom plate
- 8 point mounting lugs (self-cleaning models)

Conventional Magnetic Circuit
With "filler" between the poles

Dings Magnetic Circuit
with blocking magnets between the poles



Dings Electromagnetic Coils

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

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

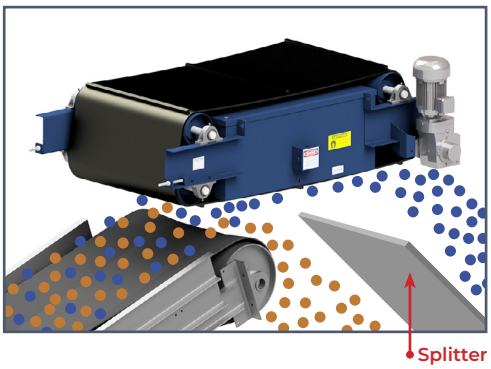
- The magnetic field is stronger
- The magnetic field extends deeper
- The magnetic field pattern is more uniform

WARRANTY LIFETIME WARRANTY

On Magnetism for Permanent Magnets

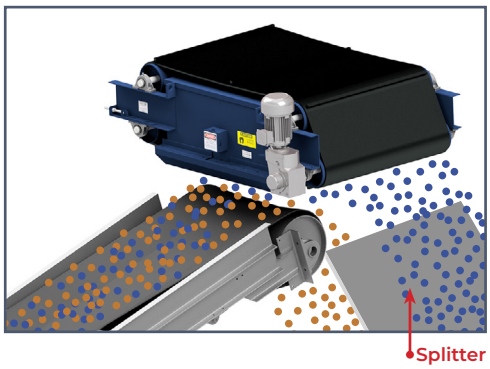
Call us for Expert Support of Dings Co. Equipment - Regardless of its Age

Inline Mounting Position



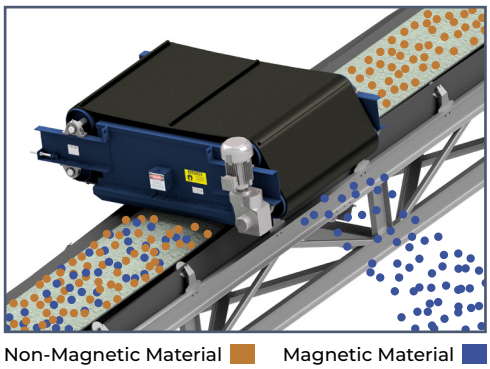
Inline orientation is a more efficient mounting position than Crossbelt over the conveyor belt. With an inline mounted magnet, ferrous metal is liberated from the material as it is discharged from the conveyor making it easier to separate. Inline orientation sometimes permits the use of a smaller more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

Crossbelt Over the Head Pulley



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.

Crossbelt Over the Conveyor Belt



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.

Dings Electromagnetic Rectifier

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

Note: 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.

Advanced Detection Systems Aggregate & Mining Equipment

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a Dings co. Magnetic Group sister company.

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Email: magsales@dingsco.com
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Engineering Driven - Customer Service Focused

Dings Co. magnetic group
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.

Dings magnetic group

Overhead Magnet Quote Request for Aggregate & Mining

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

Information for Aggregate Applications

Type of Material Being Conveyed: _____

Belt Width: _____ inches Belt Speed: _____ fpm Belt Capacity: _____ tph

Bulk Density: _____ lbs/ft³ Max Lump Size: _____ inches Max. Burden Depth: _____ inches (b)

Requested Magnet Suspension Height: _____ inches (a) Trough Depth (if known): _____ inches (b)

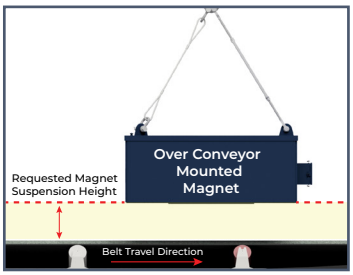
Conveyor Inclined? ☐ Yes ☐ No Inclined: _____ ° degrees

Trough Idlers: ☐ 0° degrees ☐ 20° degrees ☐ 35° degrees ☐ 45° degrees (b)

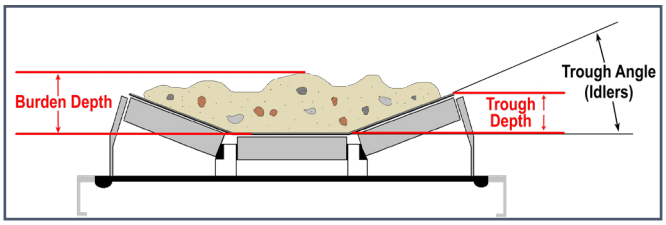
Supply Requirements: Volts: _____ Phase: _____ Cycles Per Second (Hz): _____

Description of Largest & Smallest Size of Metal to be Removed: _____

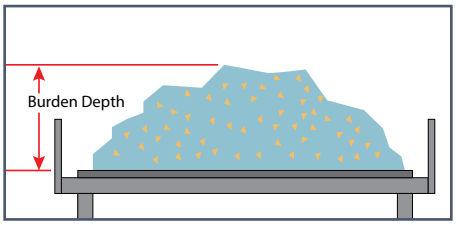
a) Description of magnet suspension height.



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

☐ Electromagnet ☐ Permanent

☐ Self-Cleaning ☐ Stationary

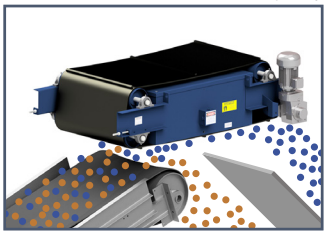
Overhead Mounting Selection:

☐ Inline

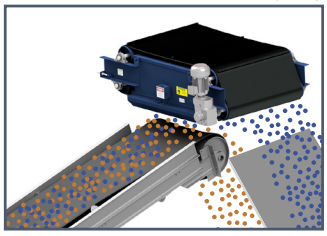
☐ Cross-Belt Over Head Pulley

☐ Cross-Belt Over Conveyor

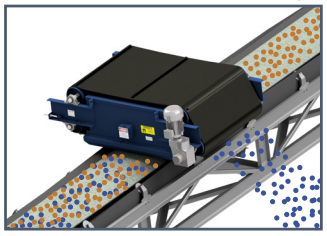
*Inline mounted over head pulley



*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 ☐ 4-Point Suspension System

*Stationary Model Only

☐ Armor-Clad Durabelt

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Special Requirements: _____

Rectifier Options

*Note: Electromagnets Require a Rectifier for Operation:

Rectifier:

Yes: ☐ No: ☐

☐ ETL Listed Model

☐ Hazardous Location

Call us for Expert Support of Dings Co. Equipment - Regardless of its Age