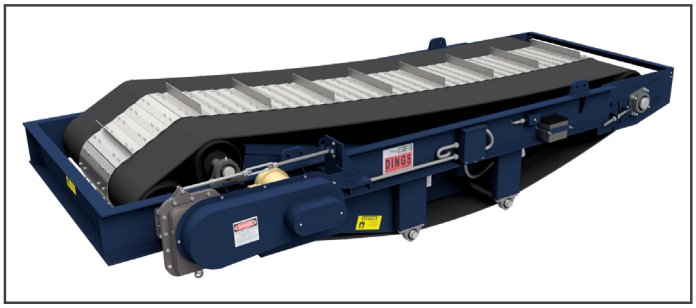
Dings magnetic group

Overhead Self-Cleaning Electromagnets:

Solid Waste Management Systems Model

- SWMS Model has 2 electromagnets plus a built-in cleanup conveyor system for extra cleaning action on the steel it separates
- Balanced Magnetic Circuit for maximum efficiency and equal distribution of length, width and depth of magnetic field.
- Dings 'Durabelt'– stainless steel pads and cleats protect the entire impact area and are easy to replace in the field.
- Stainless steel bottom and center wear plate provides extra protection in the main impact area.



Dings Self-Cleaning Electromagnet: Solid Waste Management System Model

Dings Co. Magnetic Group Patented Overhead SWMS (Solid Waste Management System) Electromagnet is a powerful, highly selective magnetic separator that features a Dings Armor-Clad 'Durabelt' (thick plates of steel cleats protect the entire impact area and are easy to replace in field). The 2 Stage Standard SWMS Model has 2 electromagnets plus a built-in cleanup conveyor system for extra cleaning action on the steel it separates. The 3 Stage Standard SWMS Model has 3 electromagnets that include a pickup magnet, transfer magnet and a discharge magnet.

Dings Electromagnetic Coils

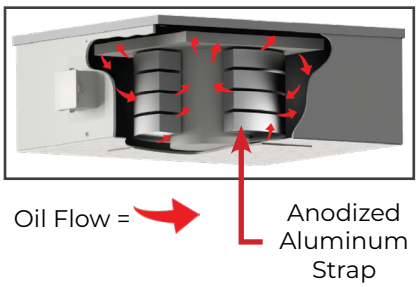
- No insulation is needed with anodized aluminum straps–eliminating the major cause of coil failure (insulation breakdown)
- More magnetism and separating power - generated by extra turns
- Each turn is exposed to cooling oil - assuring a stronger, more efficient magnet
- Eliminates the need for external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

SWMS Typical Application

Dings Co. Magnetic Group Patented SWMS (Solid Waste Management System) Overhead Self-Cleaning Electromagnet is designed to separate and produce clean steel from shredded solid waste. They are used in plants that reclaim steel and produce refuse derived fuel. The SWMS Model reduces cost of transporting refuse to landfill sites, extends landfill life and improves the quality of refuse fuel in power plants.

Anodized Aluminum Strap Coils

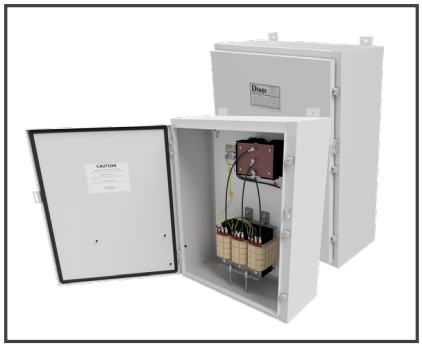
Dings electromagnetic coils are wound with an anodized aluminum strap— an exclusive design that generates more magnetism than any other on the market and exceeds Class H insulation rating! This design outlasts and out-performs copper wire with polymer insulation or bare aluminum with Nomex® insulation.



WARRANTY 20 YEAR WARRANTY

20-Year Warranty on Coil Burnout

Dings Electromagnetic Rectifiers

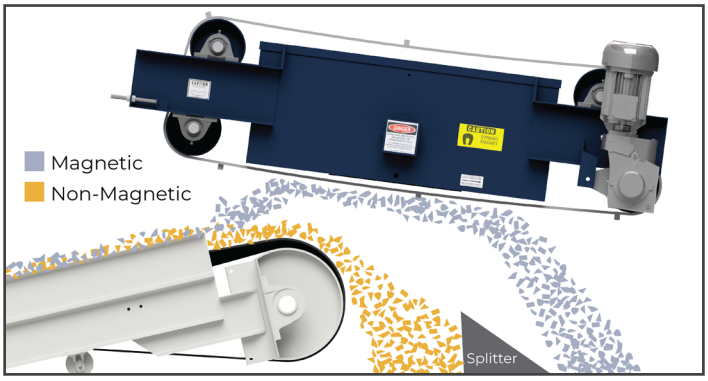


- Maintenance-free
- Overload capacity for short infrequent periods
- Corrosion protection in extreme environments

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.

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

Inline Mounting Position



* Showing material flow and separation

Note: Inline over the head pulley orientation produces the best magnet performance because the material becomes airborne liberating the tramp metal making it easier to separate. Inline orientation sometimes allows for a smaller magnet to be used as compared to crossbelt positioning.

Crossbelt Mounting Position

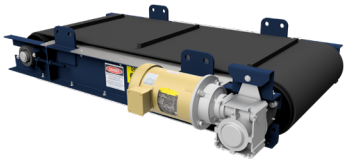
Note: Crossbelt orientation is commonly used when inline over the head pulley isn't feasible due to the process. Self-cleaning crossbelt magnets discharge tramp metal into a collection bin along side of the conveyor.

More Dings Company Magnetic Separation Equipment

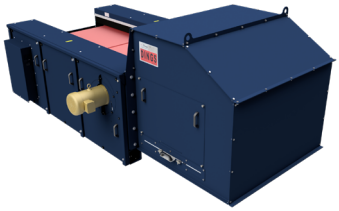
Deep Draw Drum Magnet

Overhead Self-Cleaning Electromagnet
20 year warranty on coil burnout

Overhead Self-Cleaning Permanent Magnet
Lifetime warranty on magnetism

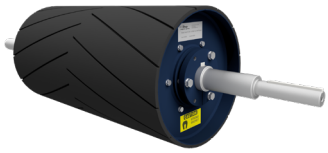


Eddy Current Separator
Separate non-ferrous metal



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

Magnetic Head Pulley
Available in 3 different strength series



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.