

# AGGREGATE - OVERHEAD MAGNETS

## Electromagnets

Dings Overhead Stationary Electromagnet



shown with 3 point suspension sling

Dings Overhead Self-Cleaning Electromagnet



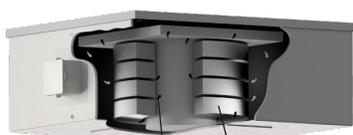
- **20 Year Warranty** on coil burnout
- Oil Expansion takes place internally
- Additional wear plate
- IP56 AGMA Class II motor
- 9 different strength levels available

### Electromagnet Coils

Dings Electromagnet coils are wound with an anodized aluminum strap, an exclusive design that generates more magnetism than any other on the market! This design outlasts and outperforms "conventional" round wire (copper, bare or anodized aluminum) coils that can lead to burnouts.

1. No insulation needed-eliminating the major cause of coil failure (insulation breakdown)
2. More magnetism and separating power
3. Each turn is exposed to oil-cooling-ensuring a stronger more efficient magnet
4. Eliminates the need for external oil expansion tank
5. Exceeds Class "H" insulation rating

Dings Electromagnetic Coil



Oil flow  
Anodized aluminum strap



**20 Year Warranty**  
on coil burnout for  
Electromagnetic coils

## Permanent Magnets

Dings Overhead Stationary Permanent Magnet



shown with 3 point suspension sling

Dings Overhead Self-Cleaning Permanent Magnet



- **Lifetime Guarantee** on magnetism
- Stainless steel construction extends belt life
- Designed for high-volume separation
- IP56 AGMA Class II motor
- 5 different strength levels available

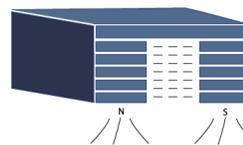
### Lifetime Guarantee on Magnetism

Dings Flux Control (DFC) circuit was a breakthrough in the design of Overhead Permanent Magnets. It 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 leak out and be wasted. In the DFC design, blocking magnets are strategically positioned in the spaces between the magnetic poles. These blocks redirect the flux outward, into your product, converting the wasted flux lines to working force, which makes the magnet more efficient.

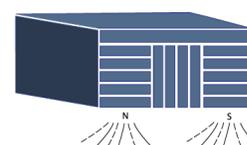
The overall strength of the magnet is improved in three ways:

1. The magnetic field is stronger
2. The magnetic field extends deeper
3. The magnetic field pattern is more uniform

"Conventional" Magnet Circuit



Dings Magnet Circuit



DFC Flux Control Diagram

--- Indicates Flux leakage in airspace

--- Indicates leakage converted to work force

### Stainless Steel Frame

Dings® Overhead Permanent Magnets have a non-magnetic laser cut stainless steel frame. This prevents ferrous metal from collecting on the frame.

- Dings Overhead Magnets have penetrating, deep magnetic fields that remove more metal contaminants before they can cause damage to your belts, crushers, conveyors, screens, pulverizers, grinders and other expensive equipment. Dings magnets are engineered with optimum performance reliability and manufactured with rugged construction ensuring reduction in production downtime and significant decreases in costs for repairs and maintenance. Our quality magnetic separators are built to meet the specific needs when crushing concrete and/or excavating aggregate.

● **Call Us For Expert Support of Dings Co. Magnetic Group Equipment - Regardless of Its Age**

## ENGINEERING DRIVEN - CUSTOMER SERVICE FOCUS

### CUSTOMER FOCUSED SERVICES

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.

### HEAVY-DUTY CONSTRUCTION

Dings Company Magnetic Group has been providing aggregate operations with high quality magnetic separators for over 120 years. Our reputation for robust, reliable equipment has been earned as a result of long term operation in tough mining and quarry environments.

### REPLACEMENT PARTS

We offer replacement parts and spare parts for your magnetic separators. Our staff is available to assist in indentifying parts needed. Many parts are currently in stock and available for same day shipment. Ask us about developing a spare parts list for your specific magnetic separators to prevent costly downtime.

### ON-SITE SUPPORT

Our factory sales staff and local representatives are available to provide on-site support. Expert advice regarding the positioning, suspension height and maintenance ensures that your magnetic separators are providing optimum performance.

## MORE AGGREGATE MAGNETIC SEPARATION EQUIPMENT

Magnetic Head Pulley



**Lifetime Guarantee  
on Magnetims**

Magnetic Head Pulleys are permanent separators that operate on belt conveyors. These self-cleaning magnets remove tramp iron and purify material conveyed in bulk form. Head pulleys operate continuously at no cost.

## METAL DETECTORS FROM ADVANCED DETECTION SYSTEMS

Advanced Detection Systems' SurroundScan Protector HD



**Rugged, Heavy-  
Duty & Reliable**

A sister company of Dings Co. Magnetic Group

Advanced Detection Systems' SurroundScan Protector HD is a modern metal detector that defends crushers, screens and other downstream equipment from tramp metal that can cause damage and downtime. The Protector HD has optional splice sensor and metal marker accessories to meet the needs of quarry and mining operations.



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