

RE80® MAG-RAM®

Automatic Self-Cleaning Magnet

Patented

A Revolution in the Magnetic Separation World!

For continuous extraction of physical metal fragments in dry product lines



CERTIFIED
TO
**+11,000
GAUSS**



USDA Dairy Accepted
models available



- ✓ **POWERFUL**
- ✓ **ROBUST**
- ✓ **VERSATILE**

The RE80® Mag-Ram® Magnetic Separator is a robust and versatile self-cleaning grate magnet that provides superior foreign metal fragment control in dry food product lines.

The Mag-Ram® is engineered to not only reduce risks to final product security, but also to prevent damage to critical processing equipment, save operator cleaning schedules and safety risks, reduce downtime, and provide a more sanitary means of magnetic separation.

The system has developed over the years to become an essential safeguard against metal contamination in many industries, including meat rendering, dairy, powder, pharmaceuticals, grain, flour, pet food, and so on. The Mag-Ram® is gaining attention around the globe for its unique and robust design, which provides solutions to long-standing mechanical problems experienced with conventional self-cleaning magnets.

**Designed to protect your
product, brand & equipment.**

ATTRACT
▼
RETAIN
▼
COLLECT
▼
ASSESS
▼
PROTECT

Appreciated by
world-leading food
manufacturers in North
America, Oceania,
and Europe.

Hygienic, safe and
efficient magnetic
separation

Key Benefits & Advantages

- Increased product security
- Improves the purity and value of your product
- Reduces WHS issues caused from cleaning heavy magnets
- Eliminates risk of metal fragment issues caused by magnets not being cleaned properly (reduces operator cleaning errors)
- Machinery and plant protection
- Risk reduction
- Customer satisfaction
- Low, economical, and simple maintenance.
- Single Ram cleaning method provides much higher product security and metal fragment control as opposed to magnet designs which clean whole rows of magnets at once.
- Limits leakage/wastage of product.
- Continuous extraction of Rams ensures zero downtime during production for cleaning.
- Easy collection of metal contaminants for analysis
- Minimal material build-up and blockage achieved with unique incremental rotation of Rams.
- Extremely hygienic due to the absence of sleeves, which inherently build-up with unclean product residual.
- In-built abrasive wear contingency.
- Powered by proven ultra-high energy RE80® and RE80®HT Magnetics
- Conformance with HACCP International 0909MAGSEP 1-2010 Standard



RE80® Magnetic Separation Solutions for
Foreign Metal Fragment Control & Food Safety

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Installation & Applications

- Incoming raw material and bulk intakes following initial screening
- Prior to critical and expensive processing equipment
- Prior to metal detectors
- Prior to packing and bulk out-loading applications
- Install in difficult to access locations
- ICEX/ATEX options available for intrinsically safe and hazardous areas.

Units can be sized to suit existing chutes/hoppers and replace existing low strength or inefficient grate magnet configurations.

PROVEN EFFECTIVE IN

- | | |
|-----------------------|----------------------------------|
| ✓ Bulk Products | ✓ Meat Rendering / Protein Meals |
| ✓ Grain Processing | ✓ Pet Food Products |
| ✓ Breweries | ✓ Dry Products & Powders |
| ✓ Cereals Manufacture | ✓ Dairy & Pharmaceuticals |

CLEANING OPERATION

Each magnet is the Ram of a pneumatic cylinder which, when retracted, wipes the magnetics to the end of the Ram and into a magnetics chamber at the back of the magnet housing.

The Mag-Ram® can be automatically cleaned before, during, and after production runs...providing continuous protection of your product.

The unit can be supplied with stand-alone automatic controls in an IP-rated stainless-steel enclosure, or the unit can utilize in-house PLC pneumatic controls.

MAGNETICS

Powerful RE80® and RE80®HT High-Intensity Magnetics; uniquely resin encapsulated under high vacuum to maximize strength life and efficiency over time.

DURA-SLIK® ABRASION-REDUCTION TECHNOLOGY

Dura-Slik® is a special hard densified embedded molecular magnet surfacing designed for abrasive applications. The technology prevents rapid and excessive wear to the surface of the magnets and also prevents product sticking to the magnet. This results in a longer lifespan and reduced maintenance.

TESTS AND CERTIFICATIONS

Calibrated gauss meter certificate. Magnetics and documentation certified by HACCP International. RE80® Mag-Ram® Self-Cleaning Magnetic Separators fully conform to current industry standards and are designed to HACCP International Food Safety Standard 0909MAGSEP 1-2010.

MATERIALS

Product contact area 316 or 304 stainless steel. The RE80® Mag-Ram® Separator is designed and manufactured using only the highest grades of material, for use in food industry applications worldwide.

SERVICE TEMPERATURES

Product temperatures to 302°F (150°C).



USDA Dairy Accepted models available

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"We have been working with Magnattack for the past decade and have installed multiple Mag-Ram Self-Cleaning Grate Magnets throughout our plants...This method has proved more efficient to other magnetic separators because a clean magnet is constantly being presented to the products being processed."

- BRENDAN BREUST, CARGILL MALT

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"I have only got good things to say about how the Mag-Ram performs".

- WADE PHILLIPS, JBS BORDERTOWN.

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"Magnattack offered to trial one of their Mag-Ram Self-Cleaning Systems and as a result, we have changed most of our dry powder units for their solution. The leakage problem is resolved, and we have a more ideal means of collection of metal fragments."

- PROCESS ENGINEER AT A NORTH AMERICAN PHARMACEUTICAL COMPANY



FIND OUT MORE FROM OUR WEBSITE

More on the Mag-Ram® Magnetic Separator-

<https://www.magnattackglobal.com/magram-self-cleaning-separator>



WHEN RELIABILITY MATTERS

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Foreign Metal Fragment Control & Food Safety

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