

# Foreign Body Removal

Protecting your brand

- Vibratory sieves
- Magnetic separators
- Metal detectors
- Site audits



# Total protection from all types of foreign body contamination

## Applications for all products and process lines

---



Magnetic separation  
Metal detection  
Sieving  
Expertise

Eclipse Magnetics is one of the most well known companies associated with Foreign Body Removal (FBR) equipment within the food, pharmaceutical and chemical industries.

Food and product safety is at the centre of everything we do. It shapes the way we communicate with our customers and partners, and helps us develop the leading products that have been tried and tested in every conceivable application all over the world.

We understand the challenges faced by manufacturers so we develop solutions that can be relied upon every minute of every day. It's one of the reasons why we are chosen by so many businesses, from globally recognised multi-site internationals to SMEs, to ensure even the most stringent audit requirements are achieved.

We believe that prevention is better than cure. That's why, as part of our product offering, we provide site surveys, auditing your site and testing existing FBR equipment to ensure you have the information you need to protect your business from the threat of foreign body contamination.



# Magnetic separation



The use of magnetic technology to effectively remove ferrous and para-magnetic contamination from liquids, oils, pastes, powders and granulates.

## HOUSED EASY-CLEAN GRID

A double row of magnetic grids increases separation efficiency. The easy-clean configuration means removing collected contamination is quick and easy.



## LIQUID FILTER

Contamination removal from all types of free-flowing liquids.



## PNEUMAG

Housed grid unit specifically designed for the highest efficiency separation on air-blown process lines.



## AUTO-SHUTTLE

Fully automated self-cleaning housed grid. Non-stop operation with minimal intervention.



# Metal detection

Universally accepted as the primary type of equipment to detect and remove all types of metal contamination.



## interact<sup>+</sup>



### INTERACT+ CONTROLLER

The latest in metal detector control

# Artemis



### ARTEMIS TMD METAL DETECTOR

Product is passed through the detector head on a conveyor. Can detect contamination in packaged product.



### ARTEMIS GFR METAL DETECTOR

Designed for gravity-fed lines. Contaminated product is removed from the product flow.

# Sieving

Removes all types of foreign objects from free-flowing powders, granulates and liquids, and ensures product is graded for processing.

## SieveGuard



**SIEVE SCREENS**  
Both screen and seal are made from metal-detectable materials.



**GRID MAGNET**  
The optional integral grid magnet sits below the screen removing smaller ferrous items – down to sub-micron size – that can pass through the screen.



### VIBRATORY SIEVE

As well as grading product, sieves ensure that larger foreign body contamination, such as glass, plastic, fibres etc., is not introduced into process lines with ingredients.



## Multi-sector discipline

Servicing all major food processing sectors including allied industries.

### Multi-site strategies

Capable of providing group wide support, specialising in final product improvement and risk management initiatives.

### Bespoke design

Utilising the latest 3D design software, bespoke systems can be designed and produced against short lead times.

### Total FBR solution

Eclipse Magnetics are the only company to offer a true FBR (Foreign Body Removal) solution with the incorporation of metal detectors, and sieving equipment.

In addition, we provide a pre-audit inspection service to ensure that the magnetic equipment is thoroughly tested and performs to the required standards.

## Consumer expectation

With an ever increasing choice of products and brands to choose from, consumers are becoming more demanding. Subjects such as GM have heightened consumers' awareness of food safety, resulting in increased safety expectation.

### Standards/Approvals

Eclipse Magnetics are fully conversant with all major government food safety policies such as the FSA, FDA and IFS etc. plus other separate institutes such as BRC and GFSI etc.

Many of our products can be supplied with ATEX certification direct from our factory.



### Due diligence

Manufacturers must prove that they have taken all reasonable and available steps to prevent the incident occurring.



# Expertise



## Experience

With over 20 years experience of dealing with modern food processing techniques, Eclipse Magnetics is uniquely positioned to offer an in-depth service.

## Knowledge

We not only understand our own business very well, we pride ourselves in understanding the business of our customers, the risks they face and changing market requirements.

## Flexibility

We offer a reflexive and responsive solution, with short lead times, to reactive requirements, ensuring food safety is never compromised.

## Advancement

From simple manually cleaned units to fully automated touch-screen PLC controlled systems, Eclipse Magnetics strive for continual improvement, offering our customers the latest technology available.

## Service contracts

Why not benefit from the security and convenience of one of our service contract packages? Different packages are available to suit a variety of requirements. Take the opportunity to protect your investment. Please contact us to discuss your needs.

### Typical process line protection

▼ **GOODS INWARDS**  
Essential screening of all materials entering the process line.



▼ **BEFORE KEY MACHINERY**  
Protect machinery from damage by contamination. Remove contamination from ingredient before it is processed.



▼ **AFTER KEY MACHINERY**  
Protect subsequent machinery from damage by contamination caused by wear, loosened parts etc. Receive timely warning of impending machine failure.



▼ **END OF LINE**  
Final check for contaminated product and packaging.



▶ **DESPATCH**  
Peace of mind as goods leave your premises, contamination free.

# CD missing?

Please call  
**+44 (0)114 281 4305**  
or email  
**info@eclipsemagnetics.com**  
for a replacement



# Eclipse Magnetics Worldwide



## Europe

Atlas Way  
Sheffield  
S4 7QQ  
England

**T** 0044 (0)114 225 0600  
**F** 0044 (0)114 225 0525  
europe@eclipsemagnetics.com

## Americas

442 Millen Road, Unit 9,  
Stoney Creek  
Ontario, L8E 6H2,  
Canada

**T** 001 905-664-5585  
**F** 001 905-664-7090  
americas@eclipsemagnetics.com

## China

No. 168 Chengjian Road  
Minhang District  
Shanghai  
PR China

**T** (0086) 21 6434 8600 \*150  
**F** (0086) 21 6434 6488  
asia@eclipsemagneics.com

Representative:

[www.eclipsemagnetics.com](http://www.eclipsemagnetics.com)

### Eclipse Magnetics Ltd

Atlas Way, Atlas North, Sheffield, S4 7QQ, England  
T +44 (0)114 225 0600 F +44 (0)114 225 0610  
info@eclipsemagnetics.com www.eclipsemagnetics.com



While every effort has been made to ensure the accuracy of the information in this publication please note that specifications may change without notice.