

Baking Tray Handling & Palletising Systems





**ECLIPSE
MAGNETICS**
M30445
PNEUMATICALLY ACTUATED
BREAD TRAY LIFTING BEAM
SERIAL No. 301401/13/2
ECLIPSE MAGNETICS LTD.
ATLAS NORTH, ATLAS WAY
SHEFFIELD S4 7QQ
Tel No. 0114 2250600. Fax No. 0114 2250610

Did you know...
Eclipse Magnetics supplies magnetic handling
systems to many of the UK's leading bakeries

The Eclipse Magnetics Difference

Group buying power for raw materials.



Standard or made to order products (application specific).



Flexible approach for requirements from one off to multiple quantities.

Large stock holding / warehousing capability.



Scheduling orders for call-off (JIT).



Full in-house manufacturing facilities.

Multiple in-house testing facilities from factory to warehouse.

Bespoke UK centric Technical and Engineering teams.

Experienced staff with in-depth knowledge of material compositions.



Sector-wide application and industry experience.



Magnetic Tray Handling Systems

Increase the efficiency of your bakery tray handling systems and ladders & de-ladders by utilising our bakery magnetic handling solutions.

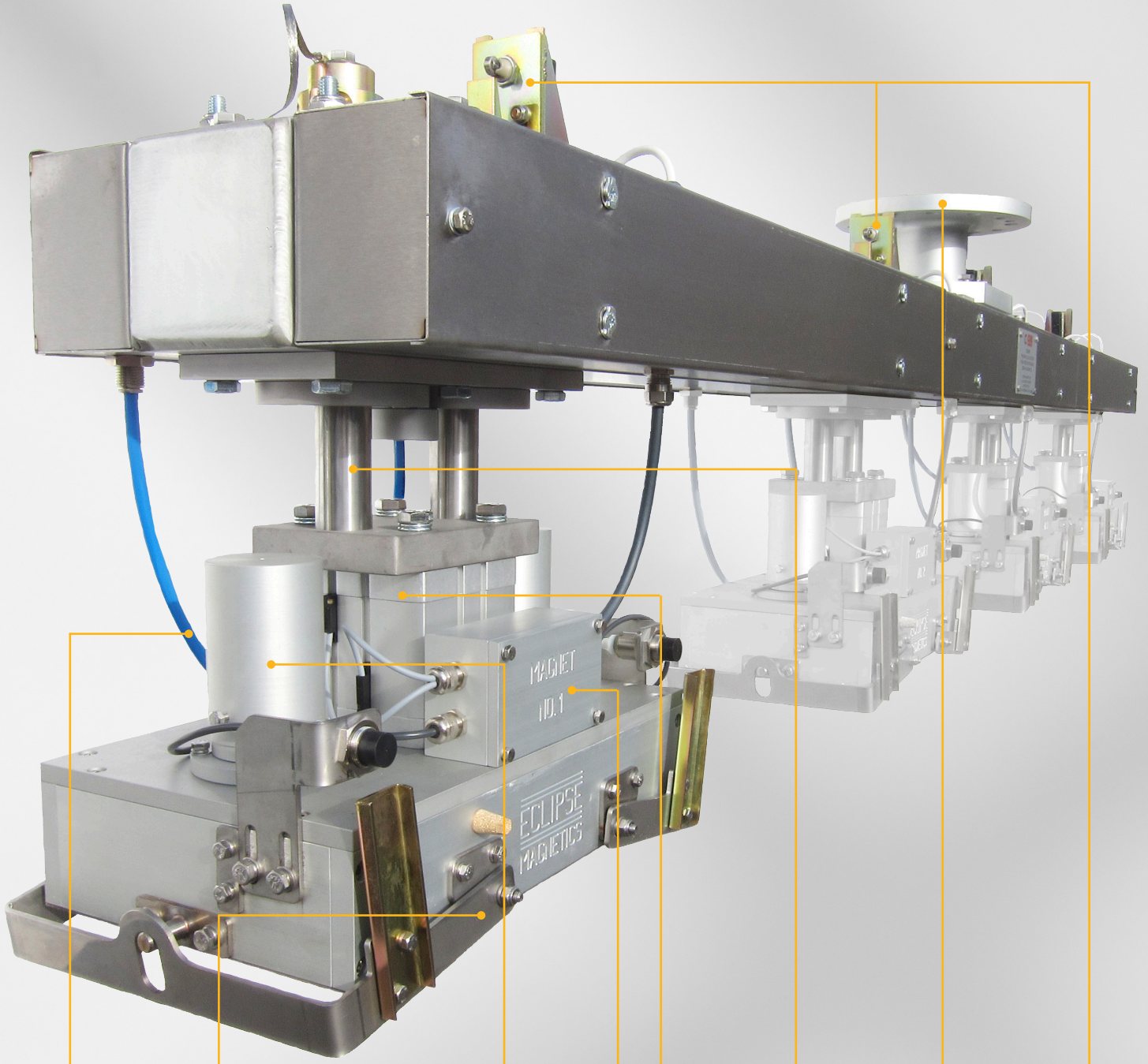
Many production lines use mechanical grippers to load and unload baking trays and bread tins from conveyors. This is time consuming and results in wear to the trays. Our magnetic tray handling systems can speed up this process and minimise tray damage, saving you both time and money.

Our automated handling system picks up trays from storage and deposits them onto the production line. When the trays are no longer required, they are returned to storage and the next tray type is brought to the production line.

The beams can handle singular tins, right up to 16 straps at the same time, making this system ideal for every size of business. Our magnetic bread tin beam systems are commonly used with bread tins, muffin tins and many other types of baking tray.



- Speed up your production line - Use magnetic systems to increase the efficiency of your plant
- Fail safe operation - Air required for switching only
- One Magnet size can be used for handling a variety of tin / lid sizes
- Minimal servicing or maintenance requirements
- Low energy consumption - No passive energy requirements
- Long life cycle - Fault free operation in many industrial bakeries for 10-12 years



Magnet Air Connections

Part Present Sensor

Linear Guide Shafts

Signal Connections

Air Cylinder Actuator

Compliance Assembly

Robot Mount (optional)

Crash Detection

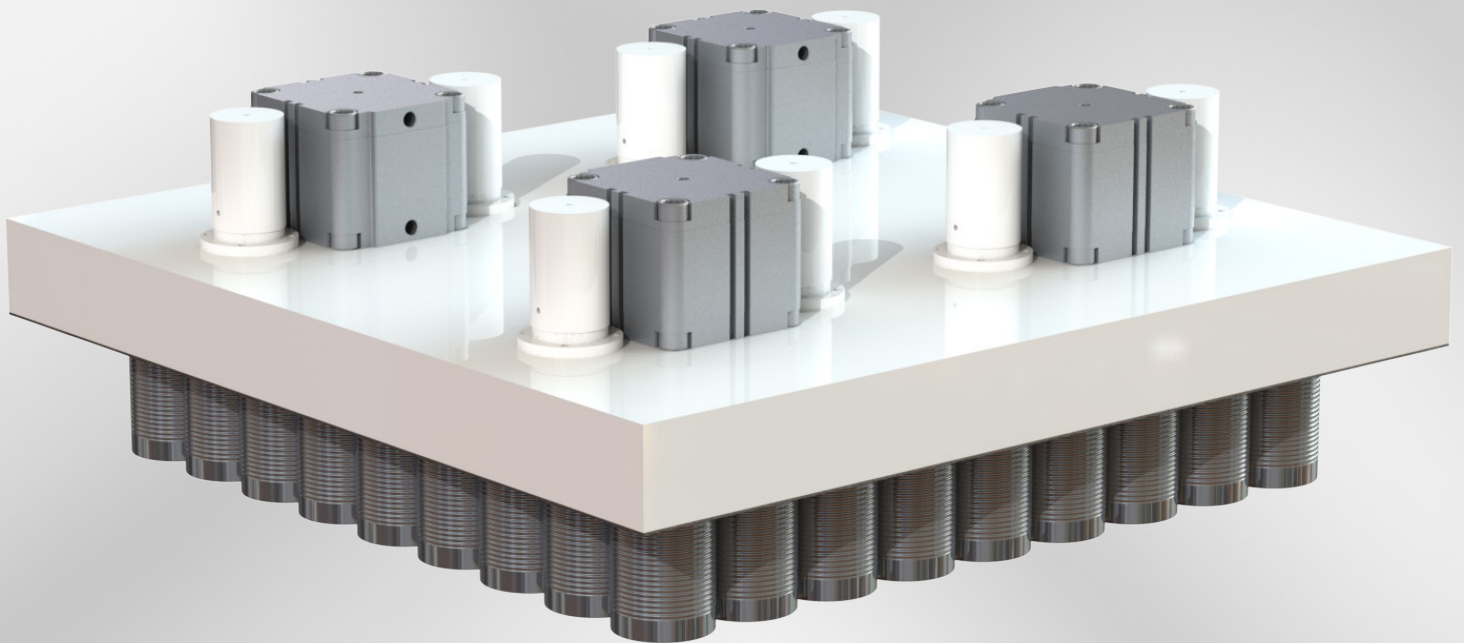
Magnetic Palletising and De-Palletising Systems

Cut your production time and optimise efficiency with our magnetic palletising / depalletising systems.

Manual unloading of tins, cans, jars and other metal packaging can be a time-consuming process. Our magnetic handling systems can automate and speed up this process, maximising your productivity.

A power supply is not required as the system uses pneumatics to switch the magnet on and off. This means that the system is fail safe – if the pneumatic system fails, the magnet will not drop the product. Even with an uneven load, such as lifting half a layer of products, the magnetic palletiser / depalletiser is safe, secure and effective.

The magnetic palletiser / depalletiser system quickly, safely and effectively removes metallic packaging from its pallet, before placing it onto your production line. This equipment has been designed to speed up the production and packaging process, increasing flexibility and efficiency.





- **Increased efficiency** - Optimise your production line by automating palletisation / depalletisation
- **Improved safety** - Reduction of manual handling minimises health and safety risks
- **Damage free** - Magnetic palletisation / depalletisation use magnetics to secure the load rather than grabs, preventing damage and enabling correct positioning
- **Reduced maintenance** - Magnets do not suffer wear or premature failure, downtime minimised

Our Other Magnetic Technology Products

In addition to our magnetic tray handling systems and depalletisers, we manufacture a wide range of products to optimise your production line and improve your product quality.

Pneumag Separators

High intensity magnetic separator for pneumatic conveying lines.



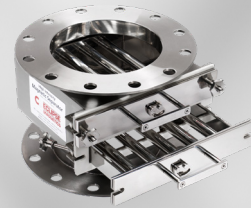
High-Intensity Magnetic Liquid Traps

Ideal for installing on pressurised transfer lines, providing protection against ferrous metal contamination.



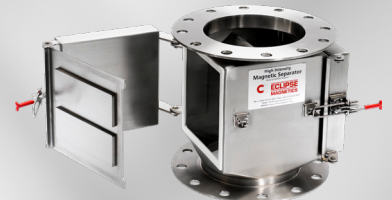
Housed Grids

Ideal for removing fine ferrous contamination from dry free flowing powders and granulates.



Chute Magnetic Separator

Easy clean, high-intensity magnetic separator



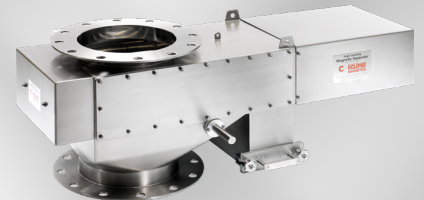
Rota-Grid Separator

Removes ferrous contamination from substances prone to bridging or caking



Auto-Shuttle Magnetic Separator

Automated cleaning magnetic separator for 24/7 processing



Atlas Way, Sheffield, S4 7QQ, England

T +44 (0)114 225 0600

F +44 (0)114 225 0610

W sales@eclipsemagnetics.com

