

TMD Tunnel Metal Detector

Metal detector for integration in conveyor belt systems

Artemis



- Detects magnetic and non-magnetic metal contaminants
- Inspects packaged goods and bulk materials
- Enclosed coil system with more than 200 different standard sizes
- Complete systems to meet customer's specific requirements (with conveyor and integral reject device)
- For quality assurance and machine protection
- High immunity to electromagnetic interference and mechanical vibration
- Very simple to operate, even for non-technical staff
- Meets all HACCP and IFS requirements

TMD metal detectors with closed rectangular apertures are primarily used for inspecting packaged goods and bulk materials on belt conveyors and material slides.

They will detect all magnetic and non-magnetic metal contaminants (steel, stainless steel, aluminium etc.), even when contained in the product.

When metal is detected either a reject unit is activated or a signal is sent to the process controller.

Typical applications are quality control of incoming material and final end of line inspection of the finished product.

The enclosed type of construction of the TMD ensures that very high sensitivity is achieved throughout the entire aperture area. This makes the TMD particularly suitable for high-precision applications (e.g. in the food industry).

The size of the detector is specifically chosen for the particular application, the product type and dimensions and working width of the mechanical transport system. Even tall products, bulk materials or individually packaged items, can be accurately inspected. Over 200 standard aperture sizes means that detector head selection can be optimised.

TMD metal detectors can be combined with a wide variety of separation systems (e.g. air blast units, pushers, reject flaps, retracting belts etc.).



TMD metal detectors integrated in two production lines inspecting poultry products

TMD metal detectors offer the following performance features:

- Optimal selection to meet specific requirements
- Highest levels of detection accuracy throughout the entire aperture area
- Can be installed in any position
- High mechanical reliability space required after bullet point
- Highly reliable and resistant to interference: maximum immunity to vibration, shocks and temperature variation
- Construction: stainless steel (bead blasted)
- Protection rating IP 65 (higher protection ratings on request)

If you have any more questions, require technical assistance or would like a quotation, please contact us.

www.eclipsemagnetics.com

Eclipse Magnetics Ltd, Atlas Way, Sheffield, S4 7QQ, England

T +44 (0)114 225 0600 **F** +44 (0)114 225 0610 **E** info@eclipsemagnetics.com **W** 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.



TMD metal detector inspecting potato chips

TMDR and TMDS complete systems, metal detector, conveyor belt and reject unit, can be easily integrated into existing production lines. The individual components are optimally combined to ensure the highest levels of reliability and sensitivity.

Typical applications:

- Food industry
- Chemical industry
- Pharmaceuticals industry
- Packaging industry



TMD metal detector: final inspection of biscuits