

Artemis GF GRAVITY FREE FALL METAL DETECTOR



For free-fall applications and pneumatic conveyor sections

- For all bulk materials, fibres and pasty products that are conveyed in pipes
- Closed coil system with highest metal detection accuracy
- More than 20 different coil sizes
- Requires little space due to GF technology



Fields of application

GF series closed tunnel metal detector, with round passage opening, detect magnetic and non-magnetic metal impurities in bulk and piece materials, fibres and pasty products. The coil size can be selected as desired and depends on the respective application. If metal is detected a customer specific or Eclipse Magnetics separating system can be activated or a signal can be sent to the process control system.

Typical applications

Outgoing inspection in the food industry e.g. examination of milk powder in free-fall section or pneumatic conveyor pipe.
Machine protection in the plastics industry e.g. examination of granulate in a pipe for the protection of an injection moulding machine or extruder.
Machine protection in the ceramics industry e.g. examination of a clay column before an extruder.

Performance features:

- Require a minimum of space due to extremely reduced metal-free zone (GF technology).
- Optimum adaption to customer specific requirements: more than 20 coil sizes with different passage openings available as a standard; can be installed in any position.
- Optimum detection in the complete tunnel area.
- High mechanical stability.
- High noise immunity: to a large extent insensitive to vibration, impact and temperature variation.
- Design: high-grade steel (glass bead blasted), steel and aluminium (varnished); type of protection: IP 65.
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Control Units

The GF tunnel metal detector is equipped with the Interact+ control unit. Sophisticated microprocessor technology allows consistent digital signal processing with optimum noise immunity.

Compact systems

- The GF tunnel metal detector is part of the following compact systems with control unit and separating unit.
- GFR metal separators for free-fall sections without material backjamming.
- MFE-FF metal separator for material columns or for free-fall columns with material backjamming.
- GF metal separator for suction pipes and pressure conveyor pipes.
- PL metal detector for pasty and viscous materials.



GF tunnel metal detector. Examination of milk powder during bag filling



GF tunnel metal detector integrated in the GFR compact system for the examination of bulk materials in free fall