

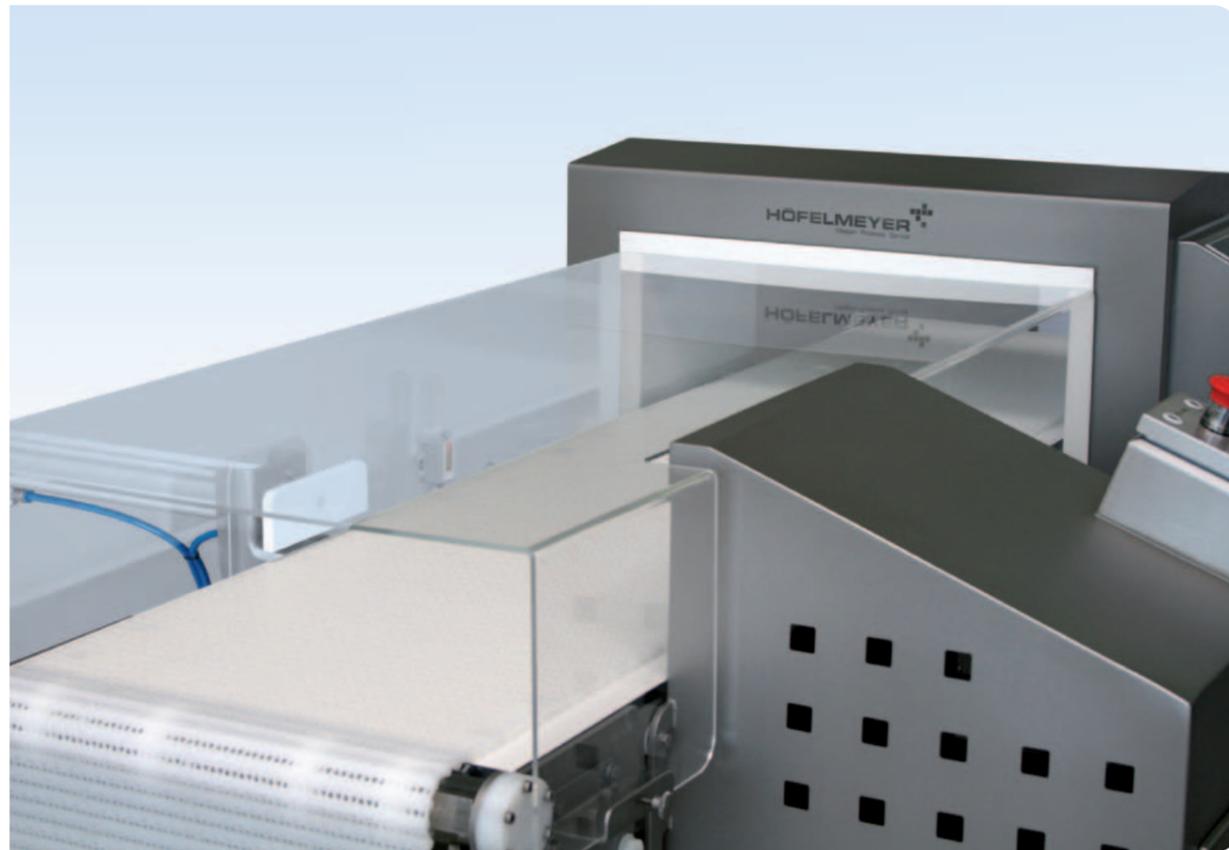
Metal Detection System

precise | quick | suitable for production processes



Safety in the production process

- Ensures your product quality
- Protects against complaints
- Quickly pays for itself



The Höfelmeyer detection system analyses all magnetic and non-magnetic metallic impurities (steel, stainless steel, aluminum etc.) even if enclosed in the product. It is used to inspect packaged and un-packaged units.

As its design is exactly matched to what is required to detect metal the complete system has the maximum detection sensitivity. The system is characterized by its high flexibility and can thus be individually adapted to the circumstances for particular products and production methods.

The Höfelmeyer metal detection system is primarily used in the food, chemical, packaging, cosmetics and textile industries. Typical applications include the inspection of butter, cheese and deep frozen blocks of meat, inspecting E1 and E2 containers in meat processing and inspecting goods in sacks up to 50 kg.

Advantages

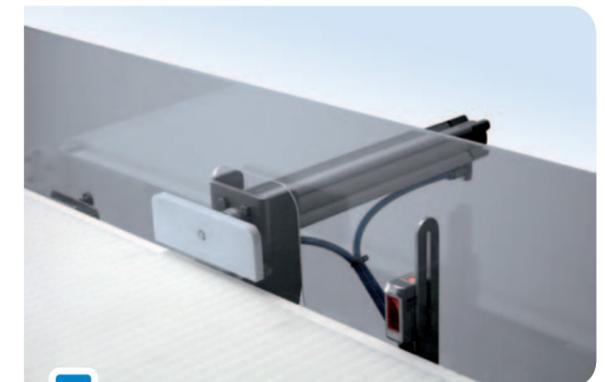
- Flexible complete system with conveyor belt
- Variety of application-specific separation systems
- New hygienic design is easy to clean
- Interference resistant, reliable inline metal detection due to an extremely short metal-free zone (MZ)
- Conforms to BRC, IFS and HACCP
- Version for dry and for wet areas
- Universal use due to new HML technology (for the C-SCAN-GHF)

Flexible detection system

The robust conveyor belt design in stainless steel guarantees highest detection sensitivity, even for long term operation. The Höfelmeyer metal detection system can be used flexibly in the production environment due to the adaptability of its conveyor belt. Above all, the food industry profits from this system owing to its hygienic design and material properties. For products which are particularly conductive and for special packaging, the DUAL multi-frequency technology can optionally be used.

To determine the ideal, product-specific sampling sensitivity, we would be happy to help with a test using original products.

If metal is detected, a signaling mechanism or a separating system can be driven or a signal can be sent to the process control system. The closed construction of the metal detector has the advantage that a very high sensitivity to metal is guaranteed in the entire area where material passes through.



Pneumatic pusher as a possible ejection unit for the detection system.



Precise detection combined with robust construction.

The characteristics and options for the Höfelmeyer metal detection system

Safety factors

- Plastic covering hood
- Signal lamp
- Horn
- Guide strips
- Compressed air monitor
- Ejector monitor
- Level check

Separating systems

- Pusher
- Blow nozzles
- Separating gates
- Ejection unit adapted for the product

Collection baskets

- For faulty products
- For products contaminated with metal
- To BRC standard
- Lockable

Display

- Menu controlled
- Evaluation logic with optimization for stainless steel
- Intuitive and easy operation



Conveyor belt

- Tilting conveyor belt
- Telescopic conveyor belt
- Easy to clean
- Belts easy to change

Frame

- To hygienic design principles
- With modular structure
- Material in stainless steel or powder-coated

Interfaces

- With integrated WS food interface (on the touch display) and optional Ethernet, WLAN or serial interface
- RS 232, RS 485, Ethernet, WLAN, Profibus

Features

- Highest sensitivity to all metals (2 channel signal evaluation)
- Digital signal processing and quartz crystal stabilized search frequency
- The most modern microprocessor equipment with self monitoring, self adjustment and temperature compensation
- Product compensation with automated learning
- Multiple product memory
- Password-protected system log and menu-controlled validation system to conform to HACCP, IFS, BRC quality monitoring.
- Special EMC combination filter (making it extremely insensitive to electro-smog)
- Very mechanically robust and high resistance to interference
- Largely insensitive to vibration, bumps and temperature variations.
- Hygienic design is easy to clean with no edges for dirt to collect
- Complete system consisting of metal detector, conveyor belt and separation unit
- Two channel metal detection coil made of stainless steel with closed rectangular opening for material to pass through
- Integrated control unit Genius + Touch with USB interface possible
- Housing with protection category IP65 (optionally IP 66/IP 69k)
- Available with GLS or C-SCAN GHF search coils



Easy to use touch panel can be simply integrated into the system on request.

Variants of the Höfelmeyer metal detection system

The combination system Höfelmeyer checkweigher with a detection system

As required, the Höfelmeyer checkweigher system will produce both legally required statistics as well as time-related statistics about products, batches, shifts and alarm messages. In this way, processes can not only be ideally documented but changes in the process can also be recognized more quickly. Costly over-filling can be reduced by optimizing the control process. This maximum level of transparency reduces your costs and leads to less downtime. This doesn't just increase your profit, it also increases your customer satisfaction.



The entire inspection to BRC-standard is guaranteed in a combined system including a metal detector. In addition, covering the belts prevents access to the products.

The basic system

The basic system contains a tunnel metal detector (passage size of 400 x 400 mm) on a stainless steel subframe. The conveyor belt is driven by a 400 V drum motor and a plastic module chain. The speed of the conveyor belt can be variably adjusted. The visible and audible signals when metal is detected are produced by a combination of a signal lamp and a horn. The conveyor belt stops if metal is detected.





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