

# UNICON

## Metal detection system for conveyor belt applications

- highly flexible, complete integrated system (belt widths from 250 mm)
- For the total inspection of individually packaged product up to 130 kg
- High integrity metal detection and separation
- Meets all IFS and HACCP requirements
- Available in versions certified up to ATEX Zone 20
- Options for dry and wet applications
- Various reject options to meet customers' specific requirements



UNICON metal detection systems detect all ferrous and non-ferrous metals (steel, stainless steel, aluminium etc), even those which may be contained in the product. It is used for inspecting packaged and unpackaged items. The modular design concept provides flexible solutions which can be precisely tailored to the needs of different products and production environments.

Application-specific reject options (declining conveyor, retracting belt etc) can be supplied.

UNICON-D range is designed for applications in dry areas; UNICON-W is designed for wet, more hostile environments.

The standard version comprises the following main components:

- GLS tunnel metal detector
- Special belt conveyor
- "Stop-on-detect" control unit



Designed specifically to optimise detection sensitivity UNICON offers the best solution for a wide range of applications.

Additional performance features:

- RZ coil technology (very short metal-free zone) enables the length of the conveyor belt to be kept to a minimum
- Open, easily accessible, easily cleaned, hygienic design
- Manufactured in stainless steel and fully welded, guaranteeing years of high performance and reliability
- Glass bead-blasted to meet food industry hygiene standards
- Flexible, the conveyor belt can be adapted to suit many different product characteristics
- DUAL and QUATTRO multi-frequency technology capability (optional) for products with high product effect or special packaging



*UNICON metal detection system with reject unit (retracting belt)*



*Metal inspection of poultry in E1 containers*

Typical applications:

- Inspection of butter, cheese and deep-frozen blocks of meat
- Inspection of E1 and E2 containers in meat processing

UNICON metal detection systems are supplied with the SENSITY control unit as standard, however depending on the particular application the GENIUS control unit may be more appropriate.

Features common to both control units:

- Highest sensitivity to all metals (2 channel signal evaluation)
- Digital signal processing and quartz-stable search frequency
- Latest microprocessor technology with self-monitoring, auto-balancing and temperature adjustment
- Product effect compensation with auto-learn function
- Multi-product memory
- Password protection
- Special EMC combi-filter (resilient against electrical interference)



*UNICON metal detection system with reject unit (declining conveyor)*

For detailed information please request our technical data sheet.