



RAPID 4000-FS

Metal separator for free-fall applications

- Detects and separates magnetic and non-magnetic metal contamination, even when enclosed in product
- Reduces expensive machinery failure and minimises production downtime
- Ensures product quality
- Prevents customer complaints
- Break-even within a very short period of time



(Design Example)

- Separation unit and product-contacting metal parts completely made of stainless steel 1.4301 (AISI 304)
- Low installation height; the metal separator can be easily fitted into existing pipeline systems
- Separated detection and separation units:
 - Free-fall height can be individually adjusted on site
 - Position of waste reject unit can be turned to match position of collecting tray
- Standard Jacobs adaptors for inlet and outlet ensure quick, hassle-free installation
- Learn automatic or manual product compensation allow flexible adaption to product conductivity
- Pre-installed parameters for simplified operation
- Enhanced signal-to-noise-ratio minimises electro-magnetic pollution and vibrations
- High scanning sensitivity to all metals



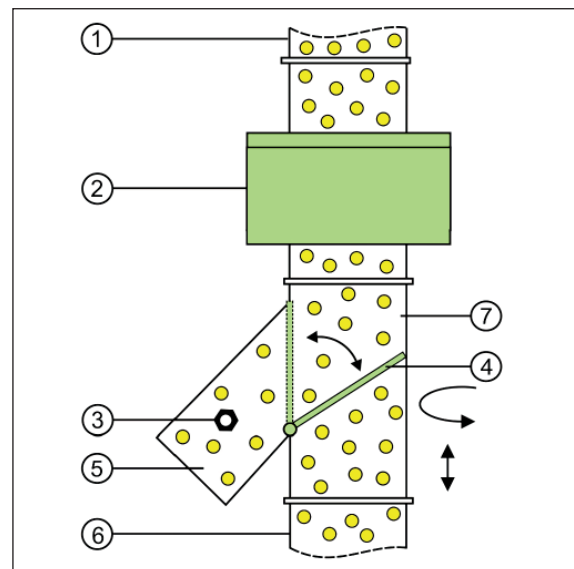
Metal separator RAPID 4000-FS used for quality control at a filling station for dried vegetable.

Product Description:

The RAPID 4000-FS metal separator is used to inspect bulk goods under free-fall conditions. It detects all magnetic and non-magnetic metal contaminations (steel, stainless steel, aluminium) – even when enclosed in the product. Metal contaminations are rejected through the “Quick Flap” reject unit.

The RAPID 4000-FS is used mainly in industries with low hygiene applications.

Function Chart:



1) Infeed 2) Detection coil 3) Metal contamination
 4) Separation flap 5) Waste rejection 6) Material outlet
 7) Separation unit (turn able, removable)

Scope of delivery:

- Metal separator with separated detection and separation units (mounted via standard Jacobs adaptors)
- Control Unit SENSITY

Options/Accessories:

- Audible and visual alarm systems
- Feed hopper and filler inlet
- Digital incident counter
- Air pressure monitor
- Magnet system to remove Fe contaminants
- High temperature resistant
- Special design for abrasive bulk goods
- Control unit GENIUS+ for higher scanning sensitivity
- UL/CSA Certification
- Removable control unit
- ATEX design



Typical Application Areas:

- Plastics industry, In-house recycling
- Recycling industry
- Wood industry
- Chemical industry
- Food industry
- Feedingstuff industry

Application:

- Machinery protection for extruders, blow moulding machines, fine grinding mills, after dosing (rotary valve, vibratory feed chutes)
- Quality control e.g. for final inspection of new goods, granulate, furnish, reclaim before octabins, big-bag stations, dryers and packing stations