

RAPID 4000

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



- 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
- Learn automatic or manual product compensation (*not* pre-adjusted) to improve adaption to product and conveyor belt conductivity
- Pre-installed parameters simplify operation
- High scanning sensitivity to all metals
- Minimal waste through „Quick-Flap“ rejection system
- Low installation height, the metal separator can be easily fitted into existing pipeline systems
- Standard adaptor system Jacob-Rohrbau (= Jacob pipe system) enables quick, hassle-free installation
- Increased signal-to-noise-ratio towards electromagnetic pollution and vibrations



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

Scope of delivery:

- Metal separator with separated detection and separation units (installation via Jacob fastener)
- Control Unit PRIMUS

Options/Accessories:

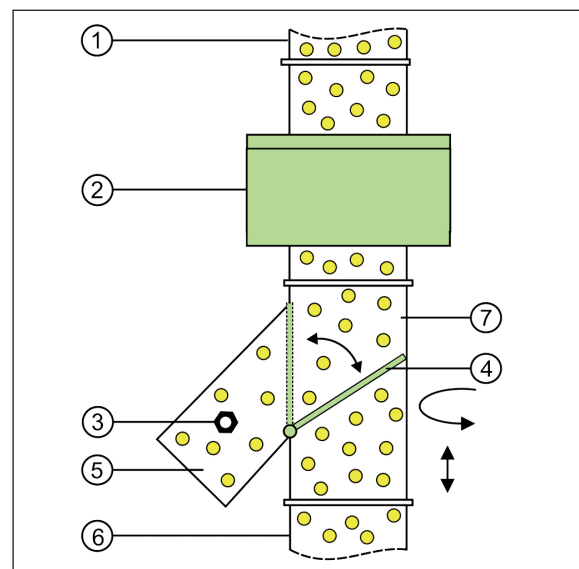
- Optical and acoustic signal system
- Feed hopper and filler neck
- Digital incident counter
- Air pressure monitoring
- Magnet system enables pre rejection of iron
- High temperatur resistant
- Special design for abrasive bulk goods
- Control unit GENIUS for higher scanning sensitivity
- ATEX design
- UL/CSA Certification
- Removable control unit

Product Description:

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

The metal separator RAPID 4000 is mainly used in industries with low hygienic requirements.

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)

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 dose units (rotary valve, vibro chamfer)
- Quality control e. g. for pre-delivery inspection of new goods, granulate, furnish, reclaim before octabins, big-bag stations, dryers and packing stations