

# 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



Installation example: Metal separator RAPID 4000 used for quality control at a filling station for dried vegetable. (old version)

### Scope of delivery:

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

### 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+ Touch
- UL/CSA Certification
- Removable control unit
- ATEX design

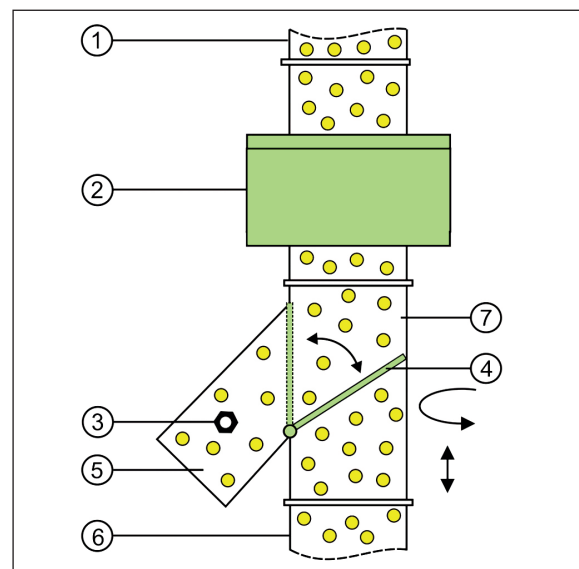


### Product Description:

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