

# RAPID 6000

## Metal separator for free-fall applications

- Metal separator for the inspection of coarse-grained, flaky, light, fibrous, crumbly, and moist bulk materials
- Detects magnetic and non-magnetic metal contaminations
- Separation by way of swivel hopper
- Hygienic design for easy cleaning
- Complies with IFS and HACCP



- Separation unit and product-contacting metal parts completely made of stainless steel 1.4301 (AISI 304)
- Low mounting height guarantees easy integration of the metal separator in existing pipe systems
- Separation unit with large cleaning opening
- Auto-learn function with product compensation for optimal adaptation to the intrinsic conductivity of the product to be inspected
- Increased interference immunity to electromagnetic pollution and vibration
- Highest scanning sensitivity for all metals

## Function:

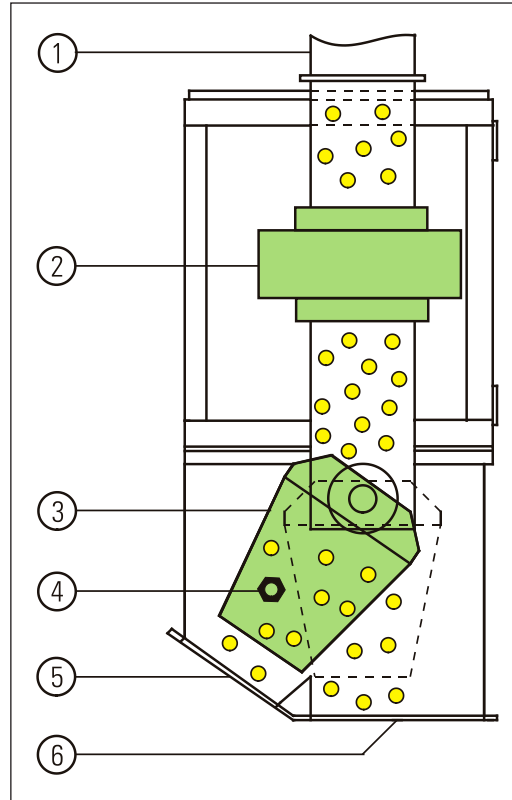
The RAPID 6000 metal separator is used for the inspection of bulk materials in free-fall conveyor pipes. It detects all magnetic and non-magnetic metal contaminations (steel, stainless steel, aluminium, ...) - even if such contaminations are embedded in the product. Metal contaminations are rejected by means of a swivel hopper.

The RAPID 6000 metal separator primarily is used in industries with high hygienic demands.



Separation unit with opened cleaning flap.

## Function diagram:



1) Inlet 2) Detection coil 3) Swivel hopper  
 4) Metal contaminant 5) Reject outlet 6) Material outlet

## Application:

- Incoming inspection (product purity and machine protection) of spices, ingredients, raw materials, etc. prior to the processing machine (e.g. mill).
- Quality inspection (product purity) of herbs, tea, fibres, etc. directly before filling in bigbags and cartons.
- Quality inspection of breakfast cereals, noodles, chips, directly before a bag-forming, filling, and sealing machine.

## Typical fields of application:

- Chemical industry
- Pharmaceutical industry
- Food industry

## GENIUS ONE control unit:

- Highest sensitivity for all metals (2-channel technology)
- Digital signal processing and quartz-stable search frequency
- State-of-the-art microprocessor technology with self-monitoring, auto-balancing, and temperature compensation
- Product compensation with auto-learn function
- Multi-product memory
- Password protection / access protection
- Special EMC combifilter for suppressing external interference

(For further information please refer to the "Control Unit" GENIUS ONE brochure).