

# PROTECTOR-MF

## Metal separator for extruders, injection moulding and blow moulding machines

- Detects and separates magnetic and non-magnetic metal contamination, even when enclosed in product
- Reduces costly tool and machinery damage and prevents machinery downtimes
- Ensures product quality
- Prevents customer complaints
- Breaks even within a short period of time



- High scanning sensitivity for all metals and highest possible immunity against vibration and electromagnetic interference.
- Proven separating unit (separating slide) guarantees safe and reliable operation even in applications with high material throughput rates or with a high content of flakes or regrind.
- Fast-acting separating slide ensures that for initial filling and re-filling processes metal particles in free-falling granulate are safely separated, and the loss of good material is kept to an absolute minimum.
- Compact design facilitates the mounting of heavy conveying, mixing, and dosing units.
- Auto-Set (auto-teach function) or manual product compensation (no fixed setting) for improved adaptation to the intrinsic conductivity of the product to be inspected
- Preset operating parameters provide outstanding ease of operation

## Function:

Even small metal particles in molten plastic can cause expensive and time-consuming damage to extruders, injection and blow moulding machinery. As the use of plastic regranulate increases so does the probability of metal contamination, potentially causing blockages in nozzles and filters. However, machine breakdowns, loss of production and delivery delays are not the only consequence; the cost of repairing an extruder spiral or cylinder damaged by just one single larger piece of metal is many times more expensive than the cost of a PROTECTOR-MF system.

In the production of plastics, compounds, composites, etc. the PROTECTOR-MF metal separator ensures product quality.

PROTECTOR-MF metal separators increase machine availability and productivity providing a fast return on investment.

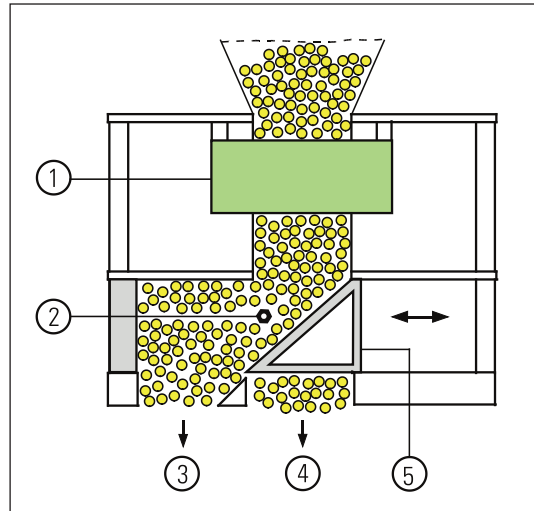


*Installation example: Metal separator installed at the material infeed. (old version)*

## Scope of Delivery:

Metal separator with remote Control Unit PRIMUS+

## Function chart:



1) Detection coil 2) Metal contaminant 3) Reject outlet  
 4) Good material outlet 5) Separating slide

## Accessories / options:

- Visual and audible alarms
- Digital detection counter
- Compressed-air monitor
- High temperature variants
- Inlet connections and adaptors specific to customer needs
- Magnet systems for the pre-separation of ferrous metals

## Typical applications:

- Plastic industry, Inhouse Recycling
- Chemical industry
- Recycling industry

## Used for:

- Mould and machine protection for extruders, injection-moulding and blow-moulding machines
- Quality assurance