

PROTECTOR

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



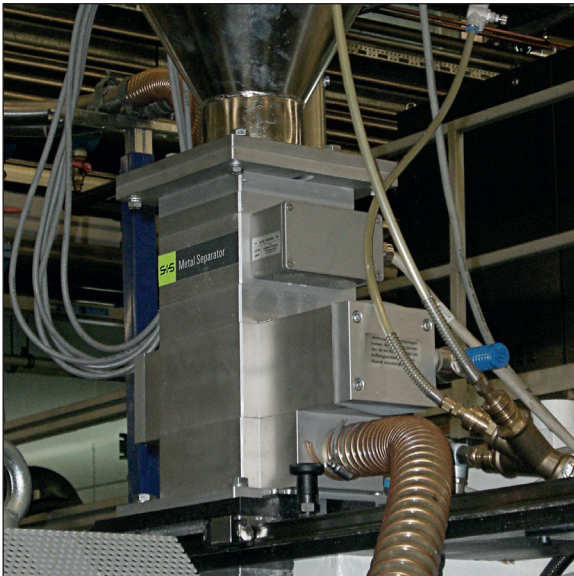
- Highest sensitivity for all metals with high noise immunity against vibrations and electric smog
- Patent-registered metal separator guarantees secure, reproducible operation, even when dealing with high quantities of grinding stock (dust)
- Space-saving, compact design guarantees quick installation
- Adapter plates for different models of conveyors and machines available (optional)
- 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
- Easy operation through pre-set parameters
- Minimal loss of good material through „Quick-Valve” separation unit and venturi nozzle
- Metal contaminates are rejected through a closed system with collecting tray and spiral coiled tube (2 m, optional)

Function:

Small metal particles in the plastic melting process often result in costly breakdowns of injection moulders, extruders and blow moulders. The quantity of such metal contaminants increases throughout the processing of regranulates and grinding stock. As a result, clogged nozzles, filters and hot channel systems can lead to production downtime and delayed delivery.

The metal separator PROTECTOR is installed directly over the feeder of an injection moulder, an extruder or a blow moulder.

It detects all magnetic and non-magnetic metal contaminants (steel, stainless steel, aluminium, etc.) – even when they are enclosed in the product. Metal contaminants are ejected via the “Quick-Flap” separation unit.



Installation example: Metal separator PROTECTOR installed over the feeder of an injection moulding machine (old version)

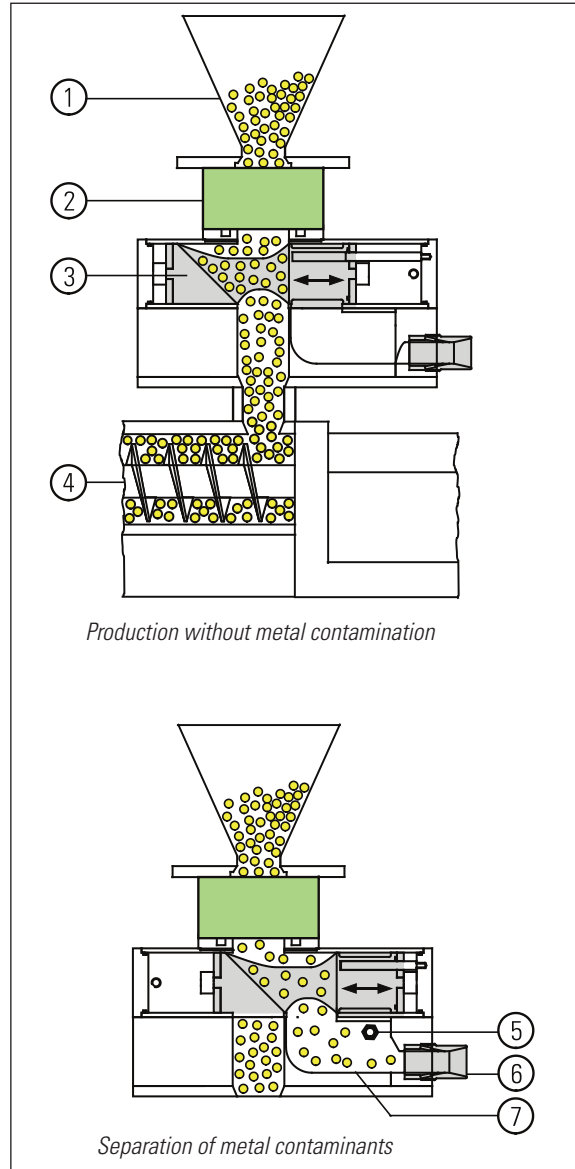
Scope of Delivery:

- Metal separator with remote Control Unit PRIMUS+

Options/Accessories:

- Optical and audible signal
- Digital incident counter
- Air pressure monitoring
- Design for bulk material temperature of up to 140° C
- Collecting tray for reject material
- Adapter plate system
- Magnetic separator SAFEMAG
- UL/CSA Certificate

Function chart:



Production without metal contamination

Separation of metal contaminants

- | | |
|------------------------|-----------------------|
| 1) Material hopper | 2) Detection coil |
| 3) Separation unit | 4) Converting machine |
| 5) Metal contamination | 6) Venturi nozzle |
| 7) Reject outle | |

Typical Application Areas:

- Plastics industry

Application:

- Tool and machinery protection for extruders, injection moulding and blow moulding machines