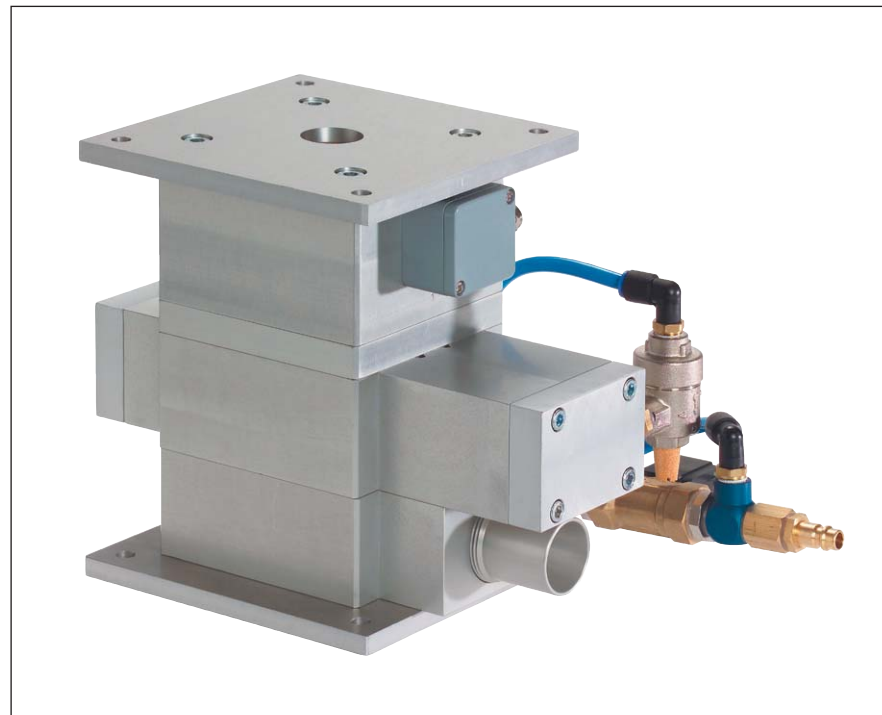




PROTECTOR

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

- Detection and separation of magnetic and non-magnetic metal impurities
- Separates smallest metal particles from ground, regenerated, and new material
- Reduces malfunctions and machine standstills
- Last Chance Control: Installed directly at the material input
- Guarantees continuous process parameters
- Available in nominal widths of up to 60 mm



The PROTECTOR metal separator is installed directly above the material inlet of an injection-moulding machine, an extruder, or a blow-moulding machine. An important performance feature, apart from properties such as high

sensitivity to all kinds of metals (starting from 0.3 mm) and extremely space-saving, compact system design, is the optimal function with all types of conveyor equipment (especially vacuum conveyors) and processing machines.



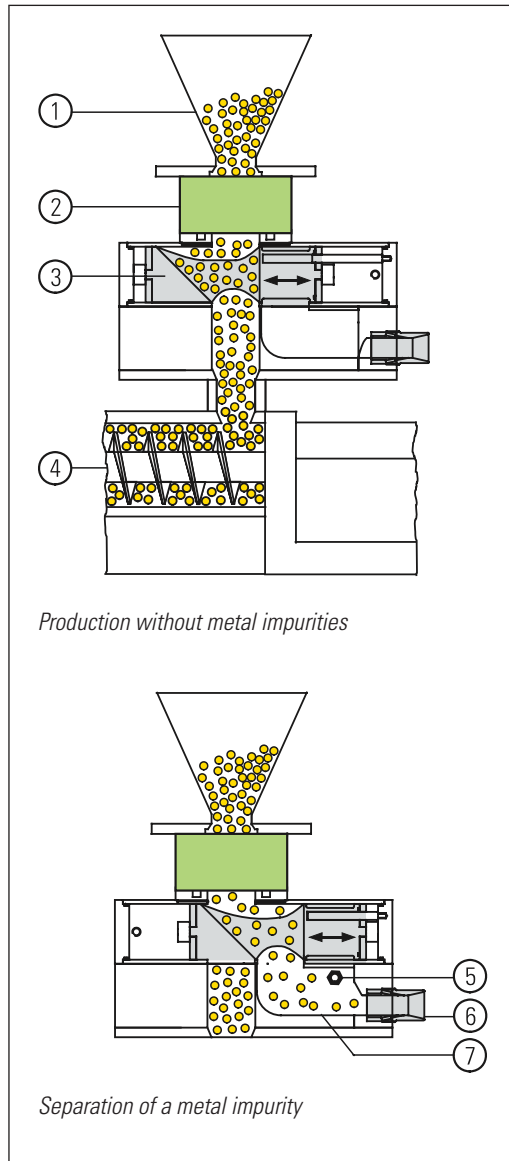
Frequently even smallest metal particles in the molten plastic are the cause of expensive malfunctions in injection-moulding, extruding, and blow-moulding. The content of such metal impurities increases with the growing use of regranulated and ground materials. Choked nozzles, filters, and hot-runner systems not only lead to production losses, downtimes, and delayed deliveries. Not infrequently, a single larger metal part even causes damage at the conveyor screw or at the cylinder. Save yourself much money and trouble.

PROTECTOR is the consistent further development of the previous metal separators for this application, with new performance features that were worked out in close cooperation with our customers.

The PROTECTOR metal separator increases machine availability and productivity, and is therefore amortised in a very short time.



PROTECTOR metal separator installed at the material inlet of an injection-moulding machine



Production without metal impurities

Separation of a metal impurity

- 1) Material funnel 2) Detection coil 3) Separating unit
 4) Processing machine 5) Metal impurity 6) Venturi nozzle
 7) Reject outlet

The PROTECTOR metal separator is characterised by the following performance features:

- The separating unit (patent pending) guarantees a reliable function, it absolutely won't get stuck even in case of high contents of ground materials (dust).
- Metal impurities are separated into a bad material container by means of a separating slide and a Venturi nozzle.
- Because of the compact design (aluminium block design), heavy conveyor, mixing, and dosing equipment can be attached to the detection and separating unit.
- The pneumatic separating slide operates with such high speed that metal particles in free falling granulate are also reliably separated during initial filling and re-filling.

Typical applications:

- Automobile industry: Bumpers
- Electronics industry: Connector parts
- Data media industry: Optical discs
- Household goods industry: Housing components
- Beverage industry: Bottle caps
- Construction industry: Profiles

The PROTECTOR metal separator is available in the following nominal widths: 30 mm, 40 mm, 50 mm, 60 mm

For detailed information please request our technical data sheet.