



RE-SORT

Mobile metal separation unit for material recovery

For manufacturers and processors of plastics, loss of granules in production means a reduction in productivity in addition to the subsequent impact on the environment.

The RE-SORT metal separation unit reliably removes metal particles from plastic granules that have already been previously discharged from the production process. The processed product can be returned to the material stream.

Main benefits

- Recovery rate of up to 98%
- Resource conservation and cost efficiency

Main features

- Detects and separates magnetic and non-magnetic metal contaminants in heavily contaminated material
- Mobile stand-alone unit for rapid deployment throughout the production process

Typical applications

- Granulate production and compounding
- Plastics processing especially in in-house recycling
- Recycling industry
- Chemical industry



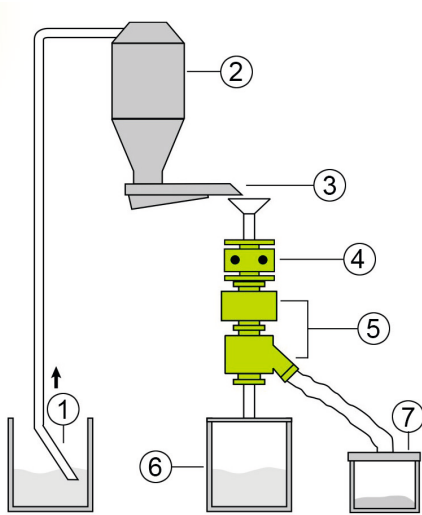
Principle of operation

The material is fed into the separating unit via a hopper. The material is separated by the vibrating chute. Then the granulate passes an EXTRACTOR-J magnet system, which separates ferrous metal parts.

Subsequently, the pre-cleaned material passes through the RAPID VARIO-FS metal separator, which discharges the remaining magnetic metal impurities, as well as non-magnetic impurities. The processed material is available for further processing.

Functional diagram using the stand-alone version as an example:

Always suitable: two device types for optimum integration



Stand-alone version: As a compact and mobile stand-alone device, the device is used in the entire area of production, quality assurance and material storage.

Integrated version: The RE-SORT metal separation unit can also be used within the central material handling system, where it acts as a metal pre-cleaning station.



The RE-SORT metal separation unit for post-cleaning of heavily contaminated material

- | | |
|----------------------------|--------------------------------------|
| 1 Octabin | 4 EXTRACTOR-J magnet system |
| 2 Material handling device | 5 Metal separator RAPID VARIO-FS |
| 3 Vibrating trough | 6 Collecting container good material |
| | 7 Collecting container bad material |

Scope of delivery of the standard version

RE-SORT basic unit consisting of:

- RAPID VARIO-FS
- Hopper with dosing slide
- Frame for wall mounting

Options

- Frame for floor mounting or the mobile version including swivel castors
- Vibratory trough
- Tower assembly
- Large hopper
- EXTRACTOR ER-J
- Collection hopper (60 l)
- Material conveying device (suction lance)
- RAPID PRO-SENSE 4/50 GO (for better tactile sensitivity)
- RAPID PRO-SENSE 5/50 GO (for better tactile sensitivity and powdery products)

- Parts in contact with product suitable for food contact
- Probe tube made of PVDF (for improved wear protection) NW 50
- US / UK power cable
- Signal light; fault and metal indicator
- Signal horn; fault and metal indicator
- Signal combination (light / horn); fault and metal indication
- Connect package (hardware connections for USB port and Ethernet interface on the control unit)
- Compressed air monitoring
- Function monitoring of the separating unit
- Filter control valve
- Easy Clean Swiveling device of the separating unit for easier cleaning (only in conjunction with RAPID PRO-SENSE)

Accessories

- Test body
- Insight.NET (visualization, logging, remote control and diagnostics)