

Metal Detecting Separators

SMS series metal detecting separators are highly sensitive and accurate in detecting and separating metal grains, such as steel, iron, copper, aluminium, lead, tin, and so on. Its principle is when metal impurities pass through it, electrical detector can send a signal to control board to start valve to discharge the impurity materials. Pneumatic discharging system takes little space and ensure good performance. It can be installed directly on injection moulding machine or (extruders) hoppers to protect the screw of machine from the damage caused by hard metals. There are four models of the series: SMS - 35 ~ 100, processing capacity can reach up to 400L / hr~12,000L / hr to meet any specific requirement.

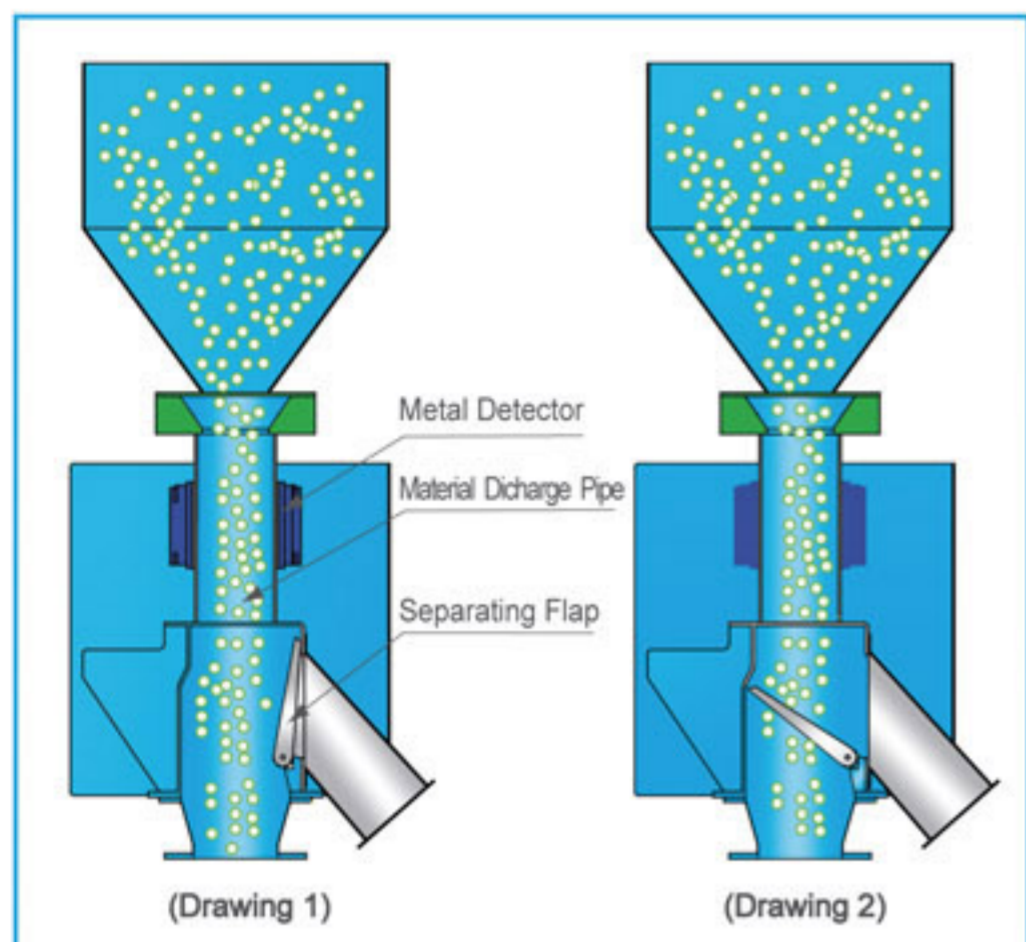


SMS-70

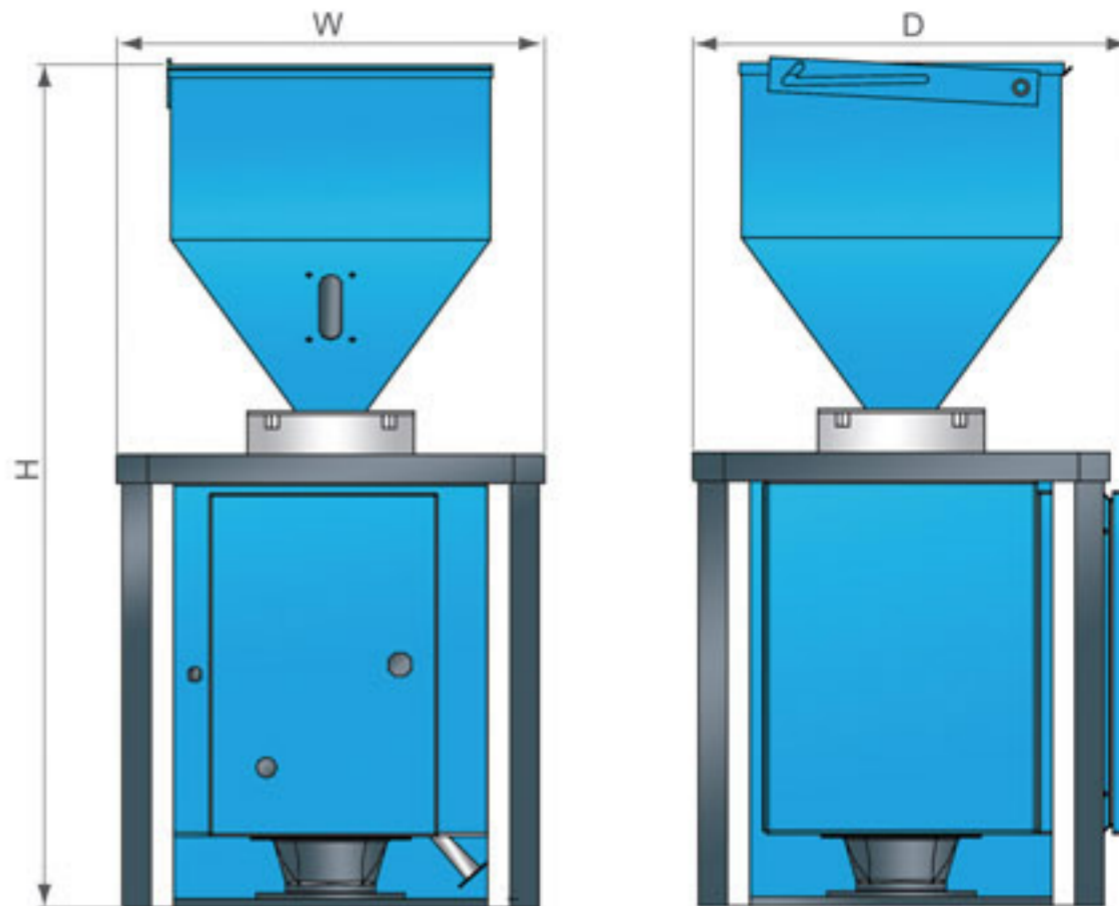
Features

- Fast separating all the metals from the material.
- The minimum detectable diameter of the metals can be as small as 0.4 mm. The accuracy is adjustable according to the actual needs.
- Compact design, easy to install and simple to operate.
- Mount directly on injection moulding machine or extruder hoppers to protect facilities from the damage caused by hard metals.
- Standard equipped with a 12 litres hopper and horse.
- Specific size of hoppers and stands can be customized to meet any requirement.
- Upon request, it can be built to comply with worldwide electrical safety standards (For example : CE, UL, CSA, JIS etc.).

Working Principle



Outline Drawings



Material discharge pipe has a ring - type metal detector sleeved on and when material with no metal comes through it, no signal will be sent out from the detector to activate the separating flap from its standby position. Thus material will flow out via the passage showed in drawing 1.

However when material with metal comes through it, signal will be sent out from the detector to move the separating flap to the right position. Thus material will flow out via the passage showed in drawing 2.

Specifications

| Model | SMS-35 | SMS-50 | SMS-70 | SMS-100 |
|------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Maximum Throughput (L / hr) | 400 | 2000 | 5000 | 12000 |
| Minimum Detectable Diameter (mm) | 0.4 | 0.5 | 0.7 | 0.8 |
| Diameter of Detecting Passage (mm) | 35 | 50 | 70 | 100 |
| Dimensions (mm) H × W × D | 740 X 375 X 390 | 740 X 375 X 390 | 740 X 375 X 390 | 740 X 375 X 390 |
| Weight (kg) | 37 | 37 | 37 | 37 |

- Notes: 1) Testing result of maximum throughput is based on particles of 0.8 in density and 2 - 3 mm in size.
 2) The minimum metal diameter is detected based on ferrous metal testing standard.
 3) Power 1Φ, 115 / 230V, 50 / 60Hz.

We reserve the right to change specifications without prior notice.

SHINI PLASTICS TECHNOLOGIES, INC.

Corporate Strategic Center
 Overseas Business Department:
 Dalang, Dongguan, Guangdong, China
 Tel: (0769) 8111 6600
 Fax: (0769) 8111 6611
 Email: shini@shini.com