



# Electronic Metal Separators

Removes both ferrous and non-ferrous metals from material flow at machine throat.

Machine-mounted all-metal separators elevate product and equipment protection to a new level for plastics processors. They can bolt directly above the throats of processing machinery and are specifically designed to reject both ferrous and non-ferrous metal contaminants in slow-moving "choke feed" applications.



## Effectively Removes All Metals, Even Non-Ferrous

Iron, stainless steel, aluminum, copper, brass, nickel, and even lead are detected and removed from material stream - including contaminated regrind.

## Specifically Engineered for the Plastics Industry

Highly sensitive electronics react to all conductive metals and reject particles as small as .02 inches (0.5 mm).

## Venturi-driven Vacuum Reject Mechanism

Features an extremely fast-acting pneumatically driven slide gate.

## No 'Blind Spot' in Rejection Cycle

Unique design prevents 'blind-spot' and results in superior rejection performance that boosts overall efficiency and reduces the risk of costly machine damage.

## Specifically Made to Work With Choked Feed Throats

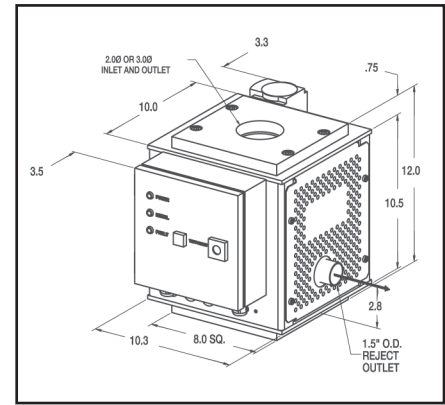
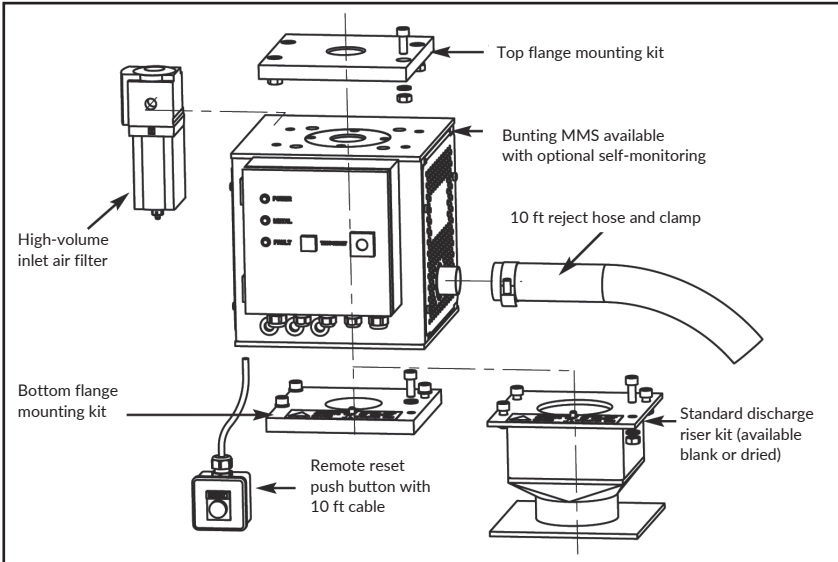
No interruption in material flow, other than rejection of the material surrounding the tramp metal.

### Plus

- › 100/120 VAC, 50/Hz
- › Rejection duration: .01 to 16 sec.
- › Material temperature up to 176° F
- › High-temperature model available
- › CE certified
- › 2-Year warranty

## Specifications:

	EMS-2T	EMS-3T
For throat diameter	2" (50 mm)	3" (75mm)
Detection/Rejection Size	Down to .02" (0.5mm)	Down to .032" (0.8 mm)



Shown with recommended air filter and top and bottom flange adapters.

### Notes:

Top and bottom adapter plates are included that may be drilled to match equipment above the EMS and to adapt the EMS to the machine throat.

Tubing is included to allow rejected material to be blown out of and down to a discard container.

A robust air supply is required to assure rejection of contaminated material and the optional high volume compressed air filter assures a supply of clean, compressed air.

## How to size EMS Metal Detectors

### Extruders:

EMS 2" unit will accommodate flow rates between 100 and 1000 lb/hr

EMS 3" unit will accommodate flow rates between 750 and 3200 lb/hr

### Injection or Blow Mold:

The same flow rates applies as above, except the shot size and cycle time is important to determine the material velocity in the column.

### Accessories:

**2" Top Flange Mounting Adapter Plate**

**2" Bottom Flange Mounting Adapter Plate**

**3" Top Flange Mounting Adapter Plate**

**3" Bottom Flange Mounting Adapter Plate**

**Reject Hose & Clamp Kit - 10 ft**

**Hi Volume Compressed Air Filter:** 200 scfm with 3/8" fitting

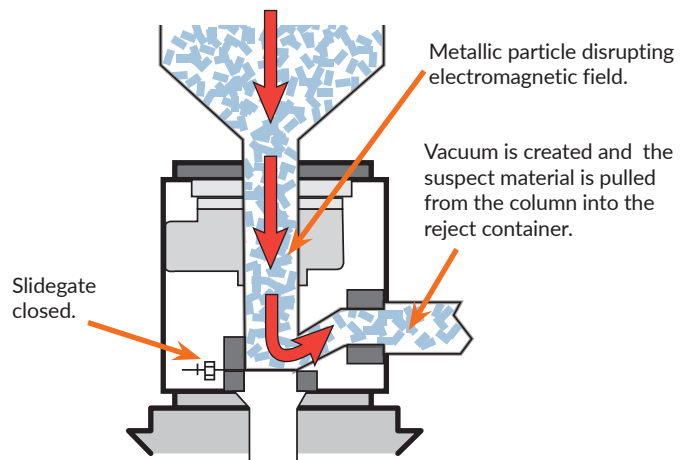
**Custom Drilling of Base Plate:** Detailed machine throat print required

**Custom Discharge Adapter/4" Riser:** Detailed machine throat print required

**10', Remote Control Evacuation/Fault Reset Button:**

Allows easy reset of unit after fault or use EMS to drain material

\*Detailed machine throat print required for fabrication.



### Machinery Protection:

- Material flow: slow moving material column
- Minimum conveying speed - 0.5in/sec. (12mm / sec.)
- Maximum top load capacity approximately 800 lbs..
- Mount throat of machine