

DeDuster | max series



Bulkmatology™ fact: Products without fines and streamers lead to higher customer satisfaction

Discover **Bulkmatology™**
*The Art and Science of Bulk
Material Handling*

The Situation

Fines and streamers are generated in pneumatic conveying systems, creating customer complaints and housekeeping problems for plastic manufacturing plants.

Fines and streamers accumulated in silos, railcars and packaging systems increase maintenance.

Fines and streamers reduce product quality and create costly rejects.

The Solution

Remove fines and streamers with Pelletron's max series DeDusters.

Low height and horizontal mobility make the DeDuster an easy fit for new plants and retrofits. The preferred location for installing these DeDusters is in the loading and packaging area.

The DeDuster removes dust particles as small as 1 micron and as clean as 5 ppm.

DeDuster Features

- Patented air wash decks
- Patented venturi chamber
- Patented magnetic flux field coil
- Open or closed loop systems
- Various arrangements with bag house dust collector systems available
- DeDuster all stainless steel construction
- Easy access through sight window
- Metal detector available

DeDuster Benefits

- Reduces off-spec material
- Reduces customer complaints and rejects
- Improves product quality
- Reduces maintenance
- Improves production with a fast ROI
- Increases logistics flexibility in loading and unloading areas

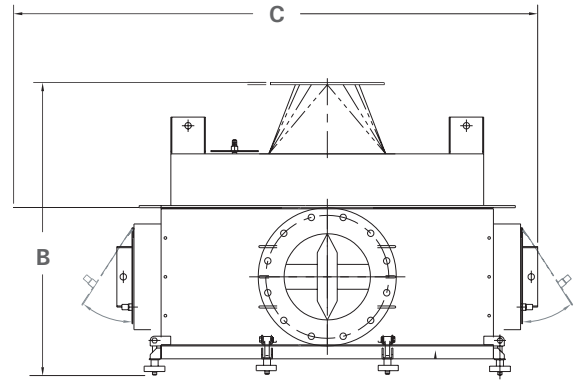
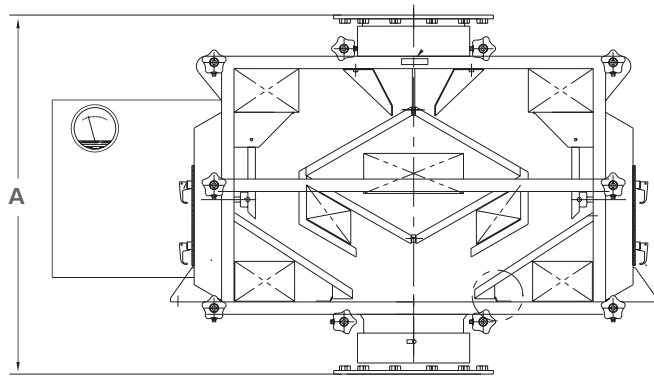
For cleaning of all types of plastics:

Polyester	Polycarbonate
Acrylic	Styrene
HDPE	LDPE
Polypropylene	PTT
Nylon	

Pelletron Corporation
499 Running Pump Road
Lancaster, PA 17601

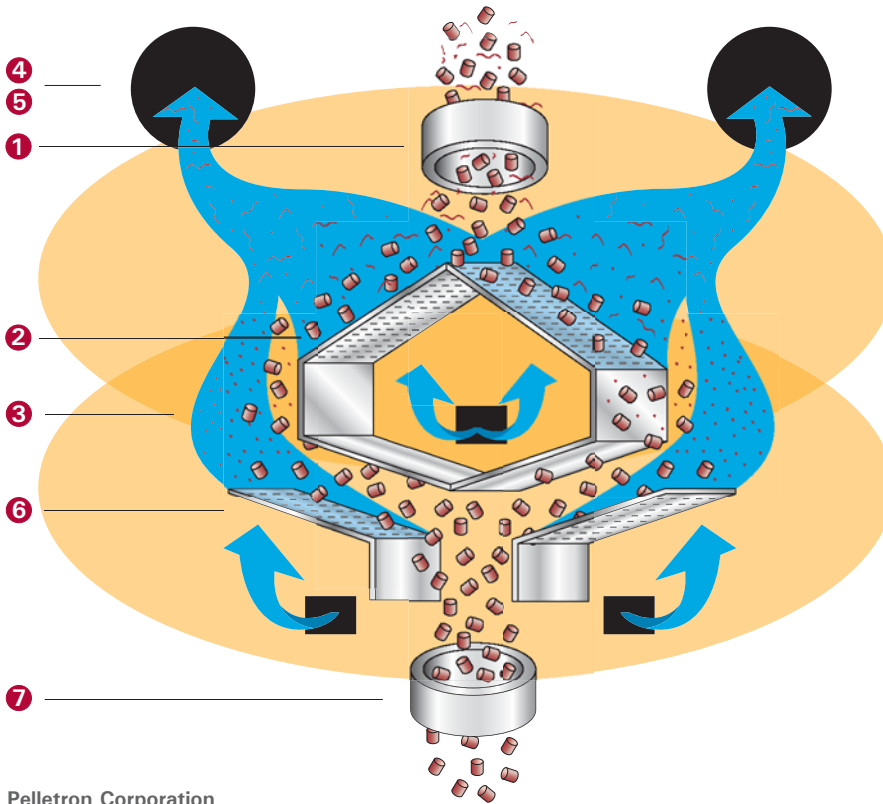
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(all weights and measures are approximate. Capacity is based on 35 lbs/cft or 560 kg/m³ bulk density)

Model	(A) Height	(B) Depth	(C) Width	Weight	Materials	Electrical Power	Capacity/hr
P400	48 in 1220 mm	40 in 1015 mm	59 in 1500 mm	450 lbs 205 kg	All Stainless	230-460VAC / 3PH / 50-60 Hz	40000 lbs 18000 kg
P600	48 in 1220 mm	42 in 1065 mm	59 in 1500 mm	750 lbs 340 kg	All Stainless	230-460VAC / 3PH / 50-60 Hz	60000 lbs 27000 kg
P800	58 in 1475 mm	43 in 1090 mm	70 in 1780 mm	1100 lbs 500 kg	All Stainless	230-460VAC / 3PH / 50-60 Hz	80000 lbs 36000 kg
P1200	71 in 1805 mm	70 in 1780 mm	96 in 2440 mm	1450 lbs 655 kg	All Stainless	230-460VAC / 3PH / 50-60 Hz	120000 lbs 55000 kg
P2000	80 in 2030 mm	83 in 2110 mm	78 in 1980 mm	1650 lbs 750 kg	All Stainless	230-460VAC / 3PH / 50-60 Hz	200000 lbs 90000 kg



Principles of Operation

1. When product enters the DeDuster, a **Primary Magnetic Flux Field Generator** (located at the inlet) disrupts the electrostatic bond between dust and pellets.
2. The pellets and contaminants fall to the surface of the **Primary Air Wash Deck**, where they are washed by pressurized air which lifts the lighter contaminants above the main product stream.
3. Pellets pass through the **Venturi Chamber** with regulated updraft air velocity at a sufficient level to remove dust and large stringy contaminants.
4. Fines, fluff and streamers are now drawn by vacuum to a **Dust filter separator** which collects the contaminants in the dust box.
5. The wash air is cleaned by a filter and either recirculated or discharged.
6. As the pellets drop to the **Secondary Air Wash Deck**, they receive a final wash to insure complete cleaning.
7. The cleaned pellets are then discharged through the outlet at the base of the DeDuster.

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