



Plate-In-Chute Separators (Hump Magnets) Designed For Corrosive And/Or Destructive Product

TOP: Customer had a problem while unloading a product that is highly corrosive and abrasive and an unpredictable flow rate with a tendency to surge. Product often contains various types of metal (i.e. nuts, bolts, grinder teeth, etc.). The magnet section the customer previously used would clog under normal operating conditions.

The IMI solution consisted of a 500 series Half-Hump Plate-In-Chute magnet with a highly custom 6" reach-out, rugged & heavy duty parts and major wear areas that are removable & replaceable (i.e. inlet transition and magnet). The housing has quick & easy access doors on top & bottom for cleaning and is made with heavy duty 3/8" T316 stainless steel to protect against abuse & corrosion.

MIDDLE/BOTTOM: Customer required a unique magnet solution that would be used for barge unloading. The unit needed to be able to capture ferrous metal from highly unpredictable product material and flow rates with potential to be highly corrosive and/or destructive.

The IMI solution was a large Self-Cleaning Spout Magnet in a chute. The entire inside exposed surface area was given a ceramic lining that is abrasion and corrosion resistant. Pneumatic cylinders open and close the cleaning section and limit switches were incorporated to verify that the magnet opened and closed correctly. Inlets & outlets designed to customer's installation requirements.

For More Information On Plate-In-Chute Magnets See Techsheets **TG-01A**, **TG-01C** and **TG-01D**.

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