

Magnetic Products, Inc.

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Reciprocating Drawer Magnet

"Type A" magnet circuits, typically used in drawer-style magnets, are the best choice to effectively capture metallic fines and weakly magnetic metals such as stainless steel. For this reason, drawer magnets are the preferred solution for applications involving free-flowing products (whole grains, pellets, etc.) transported in gravity-fed material handling systems, such as vertical chutes.

Often, this favored solution is not suitable due to product flow characteristics. Difficult-flowing products can bridge as they pass through magnetic tubes located inside a traditional drawer magnet. This issue generally is resolved by increasing the distance between magnetic tubes which form the core of the drawer magnet's performance potential. An increase in distance, however, means an increase in the amount of product that travels outside the reach of the magnetic field. As a result, tramp metals could slip by and contaminate final product or damage processing equipment. While some manufacturers can accept this risk, others cannot.

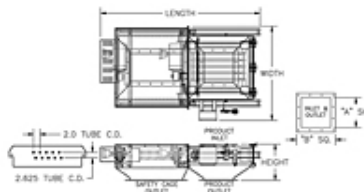
Eager to eliminate the trade-off between effective magnet coverage and potential product bridging, MPI developed the patented reciprocating drawer magnet (RDM). MPI's RDM boasts reciprocating tube magnets which act as knives to break up product as it flows through the tubes, allowing it to travel freely through the drawer magnet. Continuous horizontal movement of the magnetic tubes prevents product bridging and choking. The reciprocating action of the RDM series drawer magnet also significantly improves the unit's ability to capture unwanted metals, resulting in greater performance.

Standard features:

- Rare earth neodymium-iron-boron magnet material
- Two (2) rows of 1" diameter magnetic tubes on 2" centers for maximum magnetic filtration
- Operating temperatures up to 176° F
- UHMW stripper seals for effective metal removal in a sanitary design
- Stainless steel construction
- Variable speed control for reciprocating action
- Complete stripping action of magnetic tubes ensures tramp iron release
- Custom sizes and configurations available

Optional features:

- Nonstandard alloy stainless steel construction
- Tramp metal collection trays
- Inlet and outlet transition adapters sized to customer specifications
- Nonstandard inlet/outlet flange sizing
- High-temperature rare earth magnet material available
- Economical ceramic 8 magnetic material for less severe tramp iron applications
- Nonstandard electrical interface
- Explosion-proof components
- Mechanical valve switch to eliminate electrical requirements
- Abrasive-resistant and low-friction material for magnetic tubes
- Nonstandard material stripper seals for applications not suited for UHMW
- Variable rows of magnetic tubes in three, four or more tiers
- Varied grades of stainless steel available upon request



Results 1 - 7 of 7

Item #	List Price	Chute max. area sq. in.	Dim. "A" square	Dim. "B" square	Length	Width	Height	No. of Magnetic Tubes
RDM-212-SC	QUOTE	144	12.00 in	16.25 in	68.00 in	44.00 in	7.00 in	8
RDM-214-SC	QUOTE	196	14.00 in	18.25 in	70.00 in	46.00 in	7.00 in	10

RDM-216-SC	QUOTE	256	16.00 in	20.25 in	72.00 in	48.00 in	7.00 in	12
RDM-218-SC	QUOTE	324	18.00 in	22.25 in	74.00 in	50.00 in	7.00 in	14
RDM-220-SC	QUOTE	400	20.00 in	24.25 in	76.00 in	52.00 in	7.00 in	16
RDM-222-SC	QUOTE	484	22.00 in	26.25 in	78.00 in	54.00 in	7.00 in	18
RDM-224-SC	QUOTE	576	24.00 in	28.25 in	80.00 in	56.00 in	7.00 in	20

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