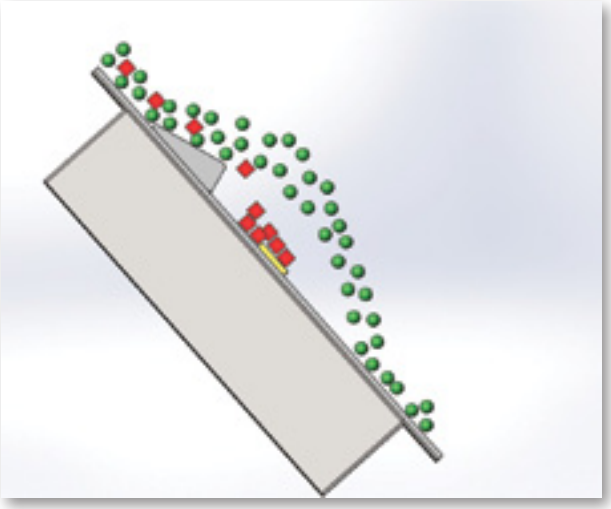
Plate Magnets

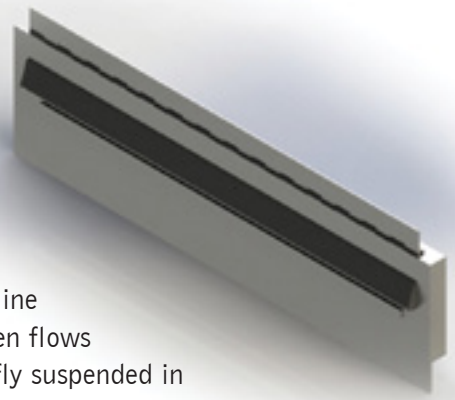
MSI manufactures a variety of plate magnets in any number of housing configurations to work in specific applications. Typically, plate magnets in their various forms, are used in higher volume applications where the constriction of other designs is not practical. Plate magnets are also used where the recovery of fine ferrous is less of a concern.

MATERIAL	▪ Ceramic ▪ Rare earth (N50 and N52 grades standard, high temperature, and others available) ▪ Alnico ▪ Hybrids and combinations
CONFIGURATIONS	▪ Flush ▪ Pole Intensifier ▪ Ramped ▪ Ramped with Pole Intensifier (most popular) ▪ Various magnetic circuits for burden depth
CLEANING	▪ Manual Clean ▪ EZ-Clean ▪ Self-Cleaning
OTHER OPTIONS	▪ Customized housings and transitions ▪ Various grades of finish, such as standard industrial or fully welded, ground smooth, and polished for food applications ▪ Fully sealed for fluid applications

RAMPED POLE PLATE MAGNET



Ferrous Non-Ferrous



The most common application of the plate magnet is the ramped pole plate design. This magnetic separator is installed on the underside of chutes, typically with an incline of 30 to 60 degree. As burden flows over the separator, it is briefly suspended in free fall by the ramp. The pole intensifier, strategically located at this point, then quickly pulls the tramp material out of the flow of burden. This combination is very effective for separation in high volume applications (provided that the burden depth is not too high) and is employed in the hump magnet, hammermill magnet, and chute separator designs. MSI's **FREE TESTING** allows our customers to make informed decisions and purchase with confidence.

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