

**TRAMP METAL** GROUP

P.O. #:

Order #:

Part #:

**INSTALLATION MANUAL**  
Suspended Permanent Magnet  
(SPM) Manual Clean



Sold to:

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**MAG-MATE™** 888-582-0822

**TRAMP METAL** 888-582-0821

# Installation Manual

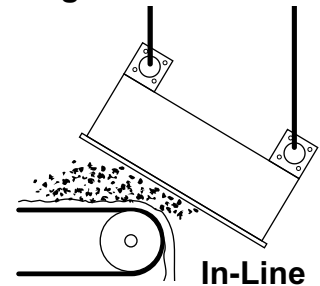
When determining the location for the installation of a suspended permanent magnet, consider the fact that any ferrous material within the field of the magnet will become magnetic and may attract other ferrous materials. When the magnet is located directly over the conveyor belt, conveyor sections below the magnet need to be made of non-ferrous material 18 to 24 inches on all sides of the magnet.

Turnbuckles are strongly recommended for mounting of the magnet. They allow for the proper adjustment of height and angle once the magnet is suspended. The magnet face and the product should be parallel. This normally eliminates the need for heavy equipment after the initial hanging of the magnet. The closer the face of the magnet is to the burden the stronger the magnet will be.

## In-Line Installation

When the conveyor belt speed is greater than 350 FPM, use the in-line installation method for the best possible results. The magnet should be located so that the material being conveyed passes approximately 2 inches from the face of the magnet towards the center of the magnet. If the belt speed is changed the magnet location may have to be adjusted to maintain proper clearance between the face of the magnet and the material being conveyed. For the best magnetic performance, a non-ferrous pulley should be used under the magnet.

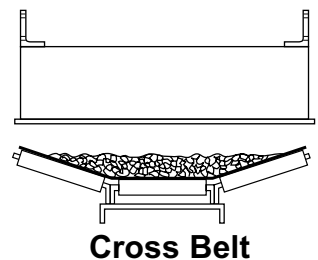
### Magnet Orientation



## Cross Belt Installation

The magnet should be located as close to the conveyed material as possible, but clearance must always be maintained between the conveyed material and the tramp metal that accumulates on the magnet's belt. The most efficient separation is accomplished by controlling the burden depth. Using a leveler ahead of the magnet will limit any irregularities. An SPM should be located no more than 10" above the conveyor belt.

### Magnet Orientation



## Comments or Concerns?

We believe Industrial Magnetics, Inc. offers the finest Self-Cleaning Suspended Overhead Magnet available today. Great pride has gone into the design and manufacture of this unit. Any comments or concerns should be directed to our Customer Service Department at 1-888-582-0821.

**We appreciate the opportunity of serving you!**

## Maintenance

Clean magnet face to avoid excessive tramp metal buildup. Tramp metal may be removed by hand or with a stainless steel hoe or scraper. Use gloves while cleaning to prevent injury.

## Trouble Shooting Guide

### MAGNET WILL NOT ATTRACT METAL

#### POSSIBLE CAUSE

- A. Burden depth is too deep.
- B. Magnet is too far from burden.
- C. Metal is non-ferrous

#### SOLUTION

- A. Check depth of burden and use leveling bar to reduce if possible.
- B. Check distance of magnet from burden and determine that it is within the recommended height.
- C. Check with another permanent magnet to determine whether part is magnetic

## Illustrations

Side Views

