



PERMANENT SUSPENSION MAGNETS

Automatically remove large amounts of ferrous from non-ferrous materials conveyed in heavy burden depths, on almost any type of conveyor or chute.



FEATURES & BENEFITS

- **No operating cost**
- **No electrical maintenance**
- **No costly shutdowns**
- **Simple installation**
- **Uninterrupted magnetic protection**

Erich Permanent Magnets, brings you this new line of Suspended Permanent Magnets with operating advantages never before available.

Suspended type Magnetic Separators, over the years, have proven to be the most effective for the removal of unwanted iron from heavy burdens of material being conveyed on fast moving belts. They are ideal for separation applications on wet or dry, fine or coarse

materials...large or small tonnages. Safe, sure, tramp iron removal protects costly processing machinery and assures the purity of the product. Previously, only electro magnets could deliver the highest level of performance. NOW, this performance is available to you in new compact, lighter, permanently magnetic assemblies that require no power source and operate virtually maintenance free!

The Erich circuit has been scientifically designed for the most efficient use of magnetic materials. The circuit assures a deep reaching field to grasp the most elusive tramp iron from fast moving belts. The Erich circuit has other advantages than just depth of field. Field shaping principles permit these magnets to solve many specific and difficult problems. The uniquely designed magnetic circuit is long and flat, providing a greater area of magnetic coverage with a maximum depth of field and with less head room required than with an electro magnet. Operating advantages are many, possibility of accidental shutdown and shutdown due to power failure is eliminated...strength never varies. The unit operates at peak efficiency at all times...no heat is generated. Elevated temperatures in the 38° to 100°C range have virtually no effect on these separators.



MC Models (Manual Cleaning)

The MC models are cleaned of accumulated tramp iron manually. They are recommended for use where only occasional pieces or small amounts of iron may be in the material flow.

Both models are available from 100mm to 300mm operating height and width up to 1800mm



SC Models (Self Cleaning)

The SC Models provide completely automatic iron removal and can be installed in an “in line” position (SC-1) or in a “cross belt” position (SC-2). Each of the two self-cleaning configurations is designed to suit specific conditions and requirements. Space and clearance, conveyor belt speed, burden depth, tramp iron size, etc., are factors that can dictate choice of style.

Both SC Models incorporate a short belt conveyor built around the magnet to effect automatic removal of trapped tramp iron from the magnet face. This system features a cleated rubber conveyor belt, square flange unit, robust channel frame with and belt tensioning device

Positions 1 and 2

(Manual Cleaning/MC-1 and MC-2)

This style unit consists of the magnet only. With manual cleaning magnets, it is necessary to periodically remove the accumulated tramp iron by hand picking or the optional mechanical stripper.

Position 1

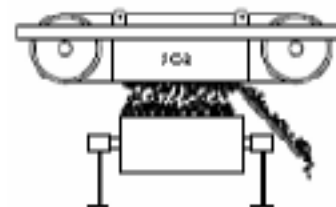
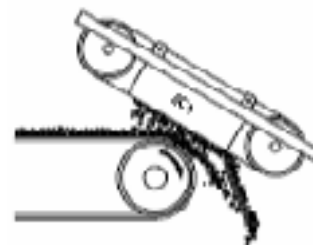
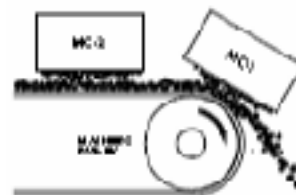
(Self-Cleaning/SC-1)

This unit consists of a short belt conveyor built around a magnet to provide self-cleaning. This unit is designed to be mounted in Position 1, as illustrated, at the head end of a conveyor either over the trajectory of the discharged material or over the head pulley. It provides automatic removal of tramp iron in the direction of the main conveyor travel.

Position 2

(Self-Cleaning/SC-2)

This separator is similar to the Position 1 Self-Cleaning unit except the self-cleaning belt travels across the magnet face at right angles to the main conveyor, providing automatic tramp iron discharge at right angles to the direction of the moving material burden. It is designed for mounting in Position 2, as illustrated, over a conveyor belt, picking table, vibrating screen etc.



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