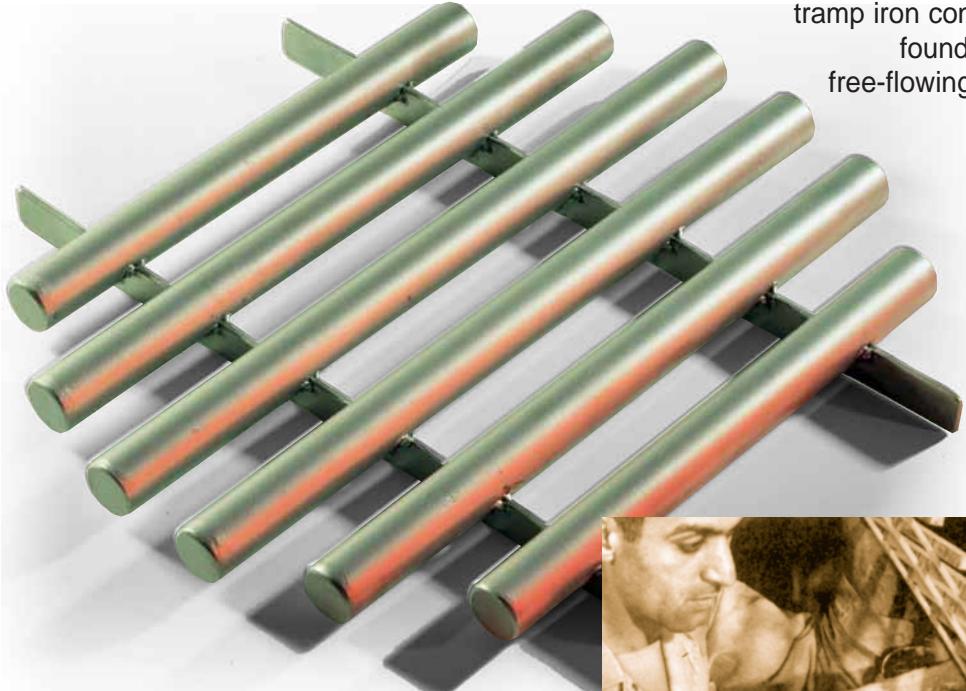


Permanent MAGNETIC GRATES



Complete range of powerful, permanent magnetic grates to protect against fine and tramp iron contamination found in dry and free-flowing materials.



Typical Applications

Sanitary and dust-tight models ensure suitability for industries such as:

- Food
- Chemicals
- Ceramics
- Pharmaceuticals
- Minerals

Benefits

- Preserve product purity by removing small particles of magnetic scale, rust and fine iron contamination
- Protect valuable machinery
- Eliminate downtime

Features

- Various magnet strengths: Ferrite, Standard and Megastrength Rare Earth magnetic materials
- Flexible design
- Sanitary options available
- Vibratory models for powdery materials
- Easy clean designs
- Low profile housings
- Simple installation

Model 'P'

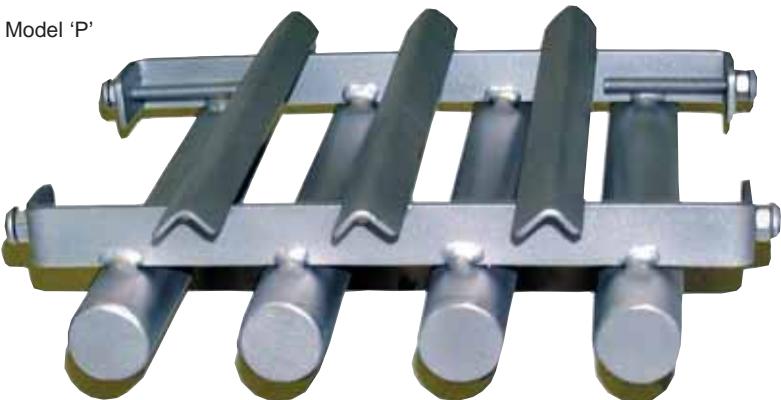
The Model 'P' magnetic grate is available in either rectangular, oval or round designs to fit any size or shape of hopper.

The flexible basic design consists of a series of parallel magnetic tubes welded to perpendicular stainless steel support bars. In most cases, angled deflectors are positioned above and between the magnets to ensure the product makes contact with the tubes. Deflectors are not fitted where the product is known to be powdery or liable to bridge.

Installation is simply a matter of placing the grate in the hopper until the ends of the tubes and supports rest against the walls. Small supports may be required for larger grates or steep sided hoppers.

As with all Eriez Grate Magnets, the Model 'P' is available in either Ferrite, Standard or Megastrength Rare Earth magnetic material.

Model 'P'



Model 'BA'

These units are the result of numerous requests for a portable grate magnet for use as a last chance separation, when materials are being packed in barrels or other types of large container.

The unit consists of between one and four banks of grates resting in a circular housing.

A collar is fitted to either the top or bottom of the housing, enabling the separator to fit into or on top of a barrel or container. Handles mounted on the collar make this unit fully portable.



Model 'BA'

Model 'D'

Available as either single or double bank units, the Eriez Model 'D' Drawer type magnet can be easily and quickly installed in closed, vertical chutes or ducts via an opening made in the side.

Runners fitted to the inside of the chute make cleaning simple, as the drawer simply slides into and out of position. The front plate of the grate magnet also acts as a seal.

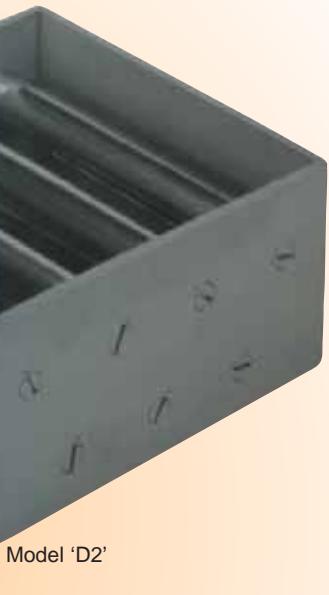
Special units, such as the Model CD, are available for installation in vertical or inclined round pipes.



Model 'D1'



Model 'CD'



Model 'D2'

Model 'GH' Grate in Housing

Situated in rectangular or circular ducts and pipes, the housings can include one, two, three or four banks of grates depending on the amount of ferrous contamination present and product purity expected.

The heavy duty housing is fitted with top and bottom flanges to allow immediate insertion into customers' existing chutework, whilst a front door panel provides easy access to the grates for cleaning purposes.

With this model, Ferrite and Rare Earth magnets can be installed in a common housing, recovering both tramp and fine iron contamination.

Reducing the distance between the tube magnets on individual banks can also help in the extraction of the fine iron. The standard spacing between the tubes is 25mm (tubes on 50mm centres), the designation of which is TGH. For fine iron recovery this is reduced to 13mm spacings (tubes on 38mm centres), designated FGH.



'GH' Grate in Housing

Vibratory design

In applications where the product is semi-free-flowing or liable to bridge across the tubes, an Eriez Unit Vibrator can be mounted on one side of the housing. The vibratory action, transmitted to the magnetic tubes, shakes loose the non-ferrous particles, preventing a build-up of material and promoting continuous flow.



Vibratory Design

Optional extras

- Lockable door and/or limit switch to prevent accidental opening during production.
- Catchment tray for extra safety during cleaning.
- Round to square or square to square adaptors for different pipe sizes.
- Megastrength (10,500 gauss) Rare Earth Grates.

PERMANENT MAGNETIC GRATES

Easy Clean and Self Cleaning Models

Where high levels of ferrous contamination are expected, the Easy Clean designs provide a quick and easy method of removing collected iron, thus reducing downtime.

With these models, the magnetic tubes are situated in a thin sheath to which the collected iron is attracted. During the cleaning cycle the magnets are simply withdrawn from the sheath and the ferrous particles fall off.

This design can be incorporated in both Drawer type and Grate in Housing models.



Automatic models

Based on the same principle as the manual design, the automatic version incorporates both pneumatic and electronic components to automatically discharge collected iron at timed intervals.

This is ideal when the unit needs to be situated in hard-to-reach or inaccessible areas, or where continuous operation is required and product flow cannot be stopped to allow for cleaning.



For advice on individual applications, contact Eriez engineers at:

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