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GRID / GRATE MAGNETS

Description

Grid / grate magnets are efficient separation systems designed to remove ferrous contaminants from dry, free-flowing materials such as powders, granules, flakes and bulk solids. Installed in hoppers, chutes, bins, or housings, they use multiple high-strength magnetic rods arranged in a grid formation to maximize product contact and contaminant capture.

Their open design minimizes restriction to material flow while ensuring effective separation and protection of downstream equipment. Constructed from stainless steel, grid grate magnets are suitable for both industrial and hygienic applications, including food-grade environments. Simple yet robust, they deliver long service life, low maintenance, and easy integration into existing systems.

Widely used in food processing, plastics, recycling, chemicals, pharmaceuticals, and mining, grid grate magnets provide dependable contaminant removal across diverse industries.

Available in many forms and shapes, supplied as loose tubes, grid magnets in frames or with Housings to suit each application perfectly.

Key features:

- High-strength magnetic rods in grid formation
- Captures fine particles and larger ferrous contaminants
- Minimal restriction to material flow
- Suitable for powders, granules, and bulk solids
- Stainless steel construction for durability and hygiene
- Easy installation in hoppers, chutes, and bins
- Low maintenance, simple design
- Single, double, or multi-layer grid configurations available
- Enhances product purity and protects equipment
- Custom sizes and configurations available



Specifications

Magnet Type	Permanent grid grate magnet system (multi-rod assembly)
Magnetic Strength	Up to 12,000 Gauss (depending on configuration)
Construction	Stainless steel frame, Housing and Tube with high-intensity magnetic rods
Design	Grid formation allowing material to pass through multiple magnetic fields.
Installation	Mounted In or on hoppers, chutes, bins, pipes and existing lines
Material Flow	Free-flowing materials pass through grid with minimal restriction
Cleaning System	Manual cleaning and self cleaning options available
Operating Temperature	Up to 80°C standard (higher temperatures available on request)
Application	Removal of ferrous contaminants from powders, granules, and bulk solids
Suitable Materials	Powders, granules, pellets, chips, and other free-flowing bulk materials
Rod Configuration	Available in single layer, double layer, or multi-layer grid configurations
Standard Materials	Stainless steel (304/316 / 316L options) with high-intensity rare earth or ferrite magnets
Frame Finish	Polished or brushed stainless steel finish to suit industrial or food-grade applications
Customisation	Available in various sizes, rod diameters, spacings, and magnetic strengths
Benefits	Enhances product purity, protects processing equipment, and reduces downtime and maintenance costs
Hygienic Options	Food-grade and sanitary designs available for hygienic processing environments

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