

Semi- Automatic Easy-Clean Magnetic Grid Box



DESCRIPTION

The Greenwood Semi-Automatic Easy Clean Magnetic Grid Box is an inline magnetic separator for use in vertical chutes for the efficient extraction of ferrous particles in powder or granular materials being processed.



This equipment is manufactured with rare-earth magnetic material, tested and certified to 12000 Gauss on the contact surface. It has powerful magnetic forces and is commonly used in the food and pharmaceutical industries.

The standard design has a double row of magnetic rods which are offset for maximum effectiveness. However, the unit can also be specified with a single row of magnetic rods to suit the customer's requirements.

This Magnetic Grid Box has a semi-automatic feature which makes the cleaning process of removing ferrous contamination from the magnetic rods both faster and easier due to the "scraper plate" design technology.

Once the safety nuts or stainless star knobs have been removed and the quick release clamps opened, the encased springs will automatically push the scraper plate forward to a set distance. From that point, the drawer can be pulled to the maximum distance, without fully removing it from the main housing. As the magnetic rods slide forward, the scraper plate traps the ferrous material which automatically falls into the catch chamber below. The catch chamber which has collected the metal contamination can then be easily removed, and the metal retained for analysis.

This process means that the drawer does not have to be completely removed from the main housing. This ensures a safer and more efficient method of cleaning, thus removing the risk of accidents and reducing cleaning operative down time.

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Features

- Easily installed
- Semi automatic easy-clean facility
- Rear access door - optional
- Catch chamber for contamination retention and analysis
- High intensity Rare Earth magnets
- Available with either single row of double row of magnetic rods
- Full spares parts list
- Safety switches fitted to front and rear doors
- Magnetic strength tested and certified
- Supplied with full documentation and material certificates
- Fully bespoke design for client approval prior to manufacture

Specification

- Standard height 250mm
- Inlet /outlet connections manufactured specifically to customer requirements
- Contact parts : all 316 stainless steel
- Fully welded and crack and crevice free to food or pharmaceutical standards
- Food quality non self adhesive seals
- Manufactured specifically to customer requirements
- Tube spacing set according to your product being processed and rate of flow
- Magnet strength - standard up to 12000 Gauss
- Bead Blast or polished finish (0.4 microns / mirror) as required
- Suitable for use in ATEX zone 20 internal environment

Options

- Safety switches.
- Double Row or Single Row
- Inlet and outlet connections are designed to suit our client requirements. Additional adapters are not required.

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