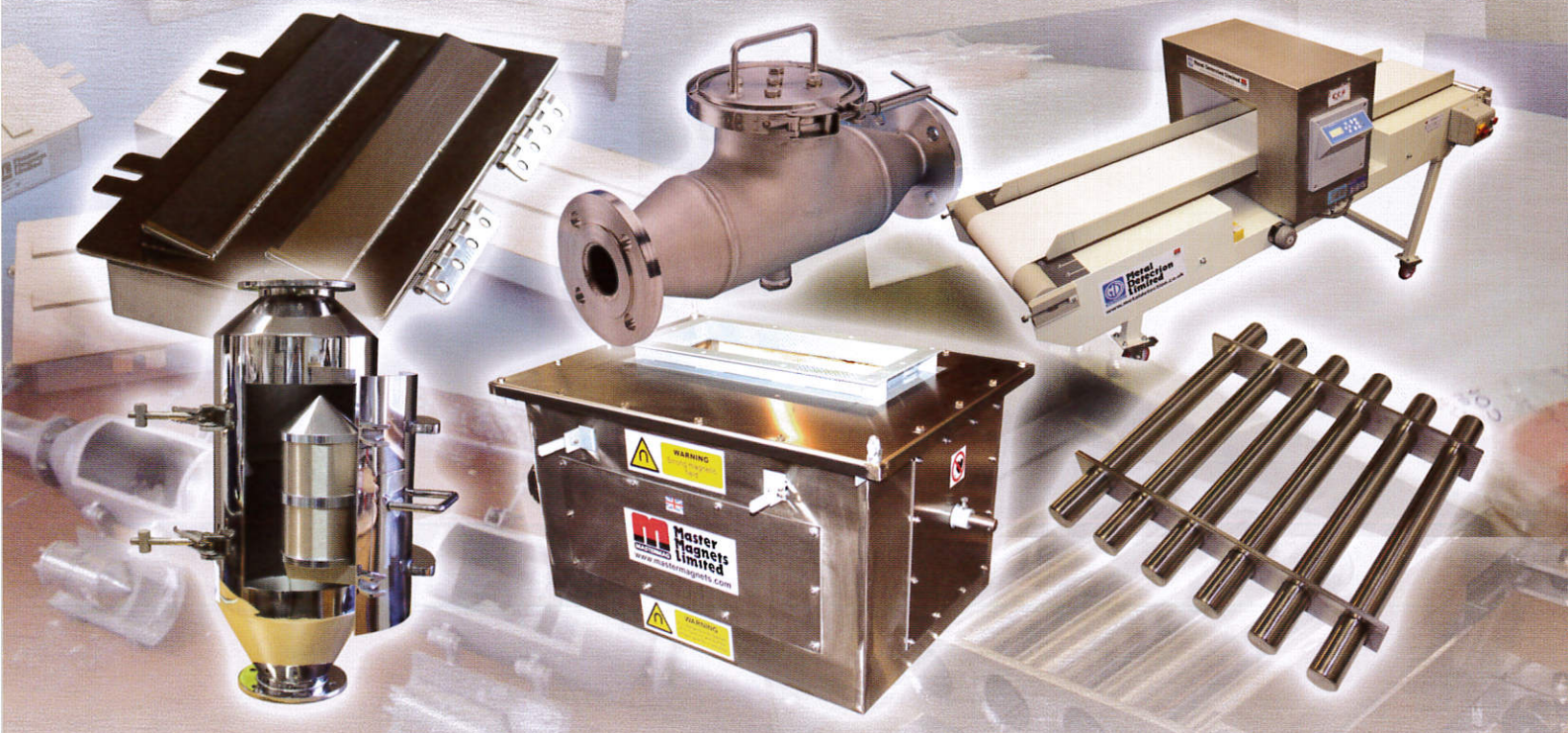




FOOD PROCESSING & SAFETY INDUSTRY GUIDE



Master Magnets manufacture a wide range of food-grade magnetic separation and metal detection equipment for the efficient removal of metallic contaminants.

Many types of metal contamination can enter a food processing line and magnetic separators are often utilised to protect the product stream from nuts, bolts and other machinery parts that inadvertently fall from upstream processing equipment.

Designed to suit conventional process lines, the Mastermag food-grade magnets can be fitted to conveyors, chutes, ducts and pipelines in pressurised or gravity feeds and to suit wet or dry products. All magnets are available in standardised ranges to suit common specifications or can be designed bespoke to suit a client's specific plant system.

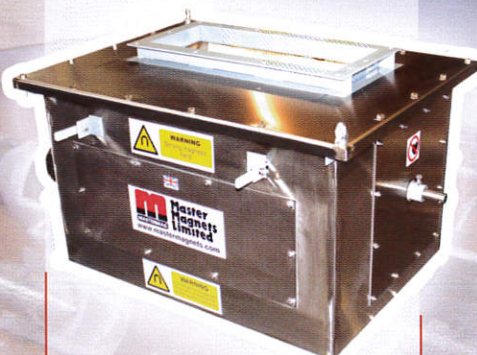
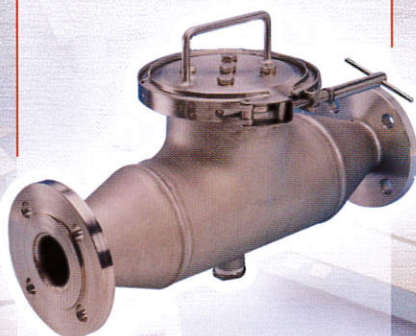
All permanent magnetic systems can be constructed with either Strontium Ferrite or Neodymium Iron Boron magnetic material depending on the application and the size of the contamination to be removed. Permanent magnets have the benefit of requiring no power source, providing continual protection against ferrous contamination.

For the detection and removal of various fine metal contaminants, including non-ferrous and stainless steels, High-Sensitivity Metal Detectors can be incorporated into the process. Detectors can be supplied for the inspection of ingredients in a pipeline or for final packaged products on a conveyor.

FOOD PROCESSING & SAFETY

LIQUID PIPELINE MAGNETS

Used for the removal of ferrous particles from liquid or viscous product. Contaminants are attracted and held by high strength permanent magnetic tubes inserted into the flow line.

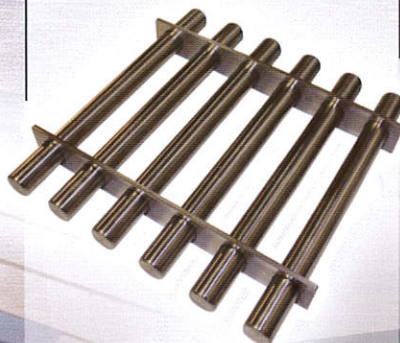


For use in high volume separation and where the product is to be kept free from external contamination or where dust may be given off during processing. Totally enclosed drum magnets allow material to flow directly over the surface of the rotating drum. Ferrous contaminants adhere to the drum surface until they are discharged behind the centre line, whilst non-metallic product free-falls at its normal trajectory.

TOTALLY ENCLOSED DRUM SEPARATORS

GRID MAGNETS

Constructed with either Ferrite or Rare Earth magnetic tubes, permanent magnetic grids are most commonly installed within hoppers or chutes and are available with a retractable drawer-type magnet system for easy cleaning



Designed for gravity feed and pressurised pipeline systems, the bullet magnet allows material to flow directly over an internal conical-shaped magnet system. The magnetic system is mounted to the quick-release doors for easy cleaning.

BULLET MAGNETS

PLATE MAGNETS

Used for the removal of ferrous contaminants from shallow burden depths of material, magnetic plates can be installed either above the product stream or fitted within chutes to allow free-flowing material to run over the magnetic surface.



For the detection of much finer metallic particles, including non-ferrous metals and stainless steel, high-sensitivity food grade metal detectors can be installed into conveyor lines. Detectors can be supplied for the inspection of ingredients in a pipeline or to check the final packaged product on conveyors.

HIGH SENSITIVITY METAL DETECTORS

Master Magnets have over thirty years experience providing innovative magnetic solutions to industries involved in recycling, demolition and reclamation, mining and quarrying, food processing, ceramics production and powders and minerals processing. The MasterMag range of systems are known for their high performance and reliable operations.

Please visit our Website at www.mastermagnets.com to view the entire range of Master Magnets Equipment where brochure and video downloads are available.



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