

# Recycling Industry Guide



## OVERBAND MAGNETS

Overbands are designed for the continuous separation of general tramp iron from various recyclable materials.

The self-cleaning Overband Magnets are available with either Permanent or Electro magnet systems depending on the specific application requirements.

Typical applications include separation and recovery of ferrous metals from MSW, Shredded Wood, C&D waste and shredded PVC. With models to suit all conveyor widths, the Bunting range of Overbands are manufactured to be of solid and robust construction in order to withstand the most arduous conditions.



## SUSPENSION MAGNETS

Suspension Magnets are used for the extraction of occasional tramp iron from deep product burdens.



Suspension Magnets are used for the extraction of occasional tramp iron from deep product burdens. These magnetic separators are available with either a permanent magnet system or as an air-cooled or oil-cooled

electro magnet, depending on a client's application. Suspension Magnets are typically installed over conveyors but can also be used to extract ferrous materials from above vibratory feeders or gravity chutes.

## PULLEY MAGNETS

The Pulley Magnet is installed as a direct replacement for the existing head drum of a belt conveyor for the continuous extraction of iron contamination.



The 360° magnet system retains extracted iron, discharging it behind the centre line of the pulley, whilst the clean product follows its natural trajectory. All units are available with either ferrite or rare earth magnet systems, depending on specific extraction requirements.

Electro magnet systems are also available and are typically used for heavyduty applications.

## DRUM MAGNETS

Often used in applications where the extraction of very small ferrous materials is required.

Typically supplied with a permanent magnet system, the drums can be used for a wide range of applications within the mining and quarrying industries.

The Drums can be fitted into totally enclosed housings where product must be kept from external contamination and for more demanding applications, the Drum Magnet is also available with a Rare Earth or Electro magnet system.



## EDDY CURRENT SEPARATORS

The High Intensity ECS units are specifically designed for the separation of small and difficult particles, which require high repulsive forces

High Intensity Units can be manufactured to operate on belt widths up to 2000mm enabling them to handle very large throughputs.



## ECCENTRIC EDDY CURRENT SEPARATORS

For applications that require separation of finer nonferrous particles, Eccentric ECS units can be supplied.

The Eccentric rotor differs in that the magnet system is of a smaller diameter and is located in an eccentric position to the outer rotor drum. The magnet system is positioned close to the surface, giving maximum repulsion where the conveyed materials discharge from the rotor.



## R TYPE

The 'R Type' fits into the Master Magnets ECS range between the Can Sorter and the High Intensity units.

Incorporating features of both machines. Fitted with a 12 pole rotor, the 'R Type' is designed for sorting non-ferrous metals from dry recyclables.



## CAN SORTER

The Can Sorter is specifically designed for the separation of non-ferrous beverage cans from dry recyclable materials.



The Can Sorter ECS is a low-cost alternative to larger Eddy Current unit, for applications that do not require high specification machines.

The Can Sorter is a simplistic and cost effective unit with pre-set belt and rotor type setting to provide optimum can separation.

## STAINLESS STEEL SEPARATORS

Our extensive range of metal sorting solutions is complemented by our newly developed Stainless Steel Separators.

With models specifically designed for small or large stainless steel fractions and available in widths up to 1800m wide, we can offer the most cost-effective machine for a client's specific application.



## CLIENT SAMPLE TESTING FACILITY

Bunting has a sample testing facility and a mineral testing laboratory based in the UK, with experienced staff to ensure that the most suitable and cost-effective machinery is recommended for each application. Our testing facility houses a range of equipment, representing smaller scaled versions of our industrial product range allowing accurate scale up to industrial capacities.



*Bunting has over sixty 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 Bunting range of systems are known for their high performance and reliable operations.*

*Please visit our Website at [www.mastermagnets.com](http://www.mastermagnets.com) to view our full range of Equipment where brochure and video downloads are available.*

For more information on our full range of products please contact us on the contact details below.

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## REPAIR AND REFURBISHMENT SERVICE

**We offer a full repair and refurbishment service for all types of magnetic equipment.**

**The range of services offered includes:**

**Appraisal:** Site Visit and preliminary report.

**Inspect and Report:** Equipment stripped down and inspected in our works facility and a detailed quotation of refurbishment or repair.

**Repair Service:** Mechanical, electrical and fabrication repairs carried out in our comprehensive workshops.

