

MAGNAPOWER



magnetic processing technology

Steel Separation

An overband magnet will usually be used to lift the steel material away from the flow of non-metals and non-ferrous metals. A magnetic head pulley or drum magnet may also be used.

Non-ferrous metal Separator

The non-ferrous metal is usually empty aluminium drinks cans and occasional other aluminium, copper and brass items. We manufacture a complete range of Eddy Current Separators and the right machine will be recommended depending on material size, throughput and quantity of non-ferrous metals.

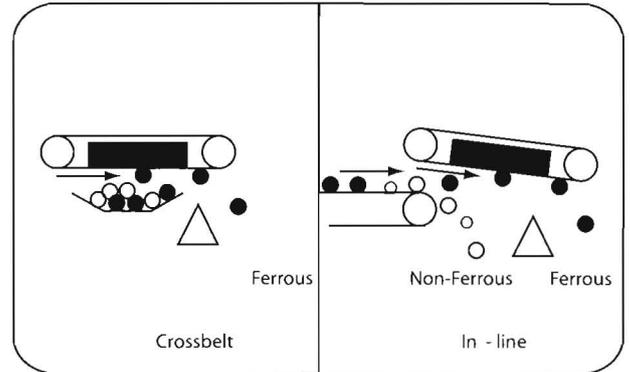


Can Flattener / Baler

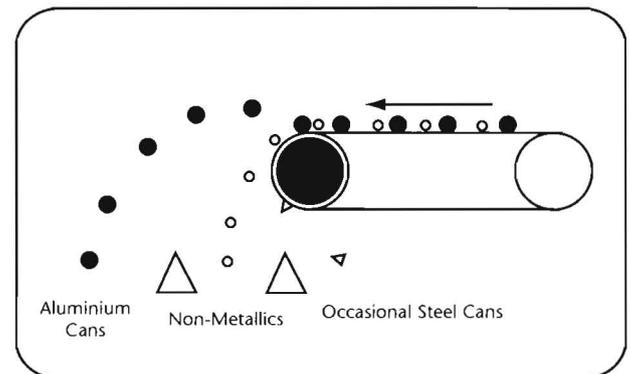
To reduce the volume of empty drinks cans and to increase logistics efficiency, it is recommended that empty cans are either flattened or baled. We manufacture a complete range of can flatteners and we can also supply can balers if required.

Discharge area

A critical aspect of any MRF plant design is the discharge area. If you know what size of stillage, skip or discharge area the material is to discharge into then we will design the plant so that each item discharges at the correct height and position.



Overband Magnet Separator



Eddy Current Can Separator

Complete Plant Design, Manufacture and Installation

We pride ourselves on offering a complete service from plant design through to final commissioning. Our equipment is proven to be highly efficient and reliable in the most arduous recycling industry applications. We are confident that we will be able to provide a cost effective reliable solution to your recycling requirements.



We offer a complete range of magnetic separation equipment including:
Can Sorters - Overband Magnets - Eddy Current Separators
Magnetic Head Pulleys - Drum Magnets - Can Flatteners



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Maximise the Recovery of Dry Recyclables (e.g. food/drink cans, plastic bottles)

The Magnapower Mini-MRF (Material Recycling Facility) is designed to suit each individual user's requirements. It is a compact and efficient plant which will provide reliable separation of recyclable materials such as kerbside collected cans and plastics.

MRF requirements

Typically this includes:

In-feed hopper to distribute the material at an even rate onto the in-feed conveyor. This **in-feed conveyor** can be suitable for hand picking / bag opening if necessary.

Steel separation – to separate such items as empty food/drink cans.

Non-ferrous metal separation – to separate such items as empty aluminium food / drink cans.

The metals can then be **flattened** or **baled**.

The remaining material will be the non-metallics such as plastic / paper / glass.

**Minimise Maintenance**

All magnet systems are from non-deteriorating permanent magnets and the machines are designed to give a prolonged working life in the most difficult conditions. Any wear parts are easily accessible and unique features such as the 'lid seal' system help to prevent any small/thin items from being trapped under the belt.

**Hopper**

The In-Feed Hopper is designed to match each plant requirement. The following factors determine its size and shape:

- Loading device (e.g. shovel, manual, conveyor)
- Capacity
- Material type and size
- Feed rate

In-feed Conveyor (Hand Picking –optional)

It may be beneficial to include a hand picking station at any stage within the facility. The In-feed conveyor takes the material from the hopper to the first stage of separation.

If material may be bagged then this is the stage at which the bags will be opened / removed.

Throughput

This depends on the material to be separated. We can offer up to a 5 tonnes per hour can sorting facility but this would have a lower throughput for less dense material.

