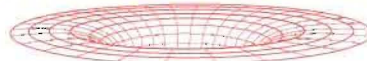
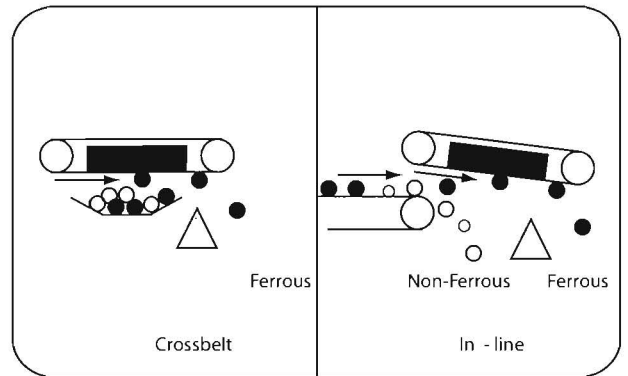


# MAGNAPOWER



magnetic processing technology



Overband Magnet Separator

## Operation

Material on the conveyor passes underneath the overband magnet. Ferrous metal is attracted to its surface allowing the 'cleaned' product to continue along the conveyor as normal. The overband magnet has a continuously moving belt which wipes its surface clean of the ferrous metal attracted to it. The ferrous metal then discharges away from the overband as shown above.

## Electro Magnet Overband (shown without guards)



## Permanent Magnet Overband with Standard Guards



## Permanent Magnet Overband with Full Mesh Guards



## Typical Applications Include:

- Wood waste processing
- Mobile screens and shredders
- Fragmentiser metal recovery
- MSW metal recovery
- Aluminium extrusion recycling
- Incinerator Bottom Ash recovery
- Glass cullet recycling
- Kerbside collection separation
- Fridge Recycling Plant metal recovery
- Tyre Wire Separation

We offer a complete range of magnetic separation equipment including:

**Eddy Current Separators - Can Sorters**  
**Magnetic Head Pulleys - Drum Magnets**





# MAGNAPOWER



magnetic processing technology

## Maximise Recovery of Ferrous Metals

High performance magnet system from an extensive range of designs to suit your application and provide the most effective and efficient method of metal recovery.

## Optimise Throughput

Deep field magnet system, which penetrates through the product burden and removes the maximum amount of ferrous metal.

## Minimise Maintenance



## Magnet System

High Intensity Permanent Magnet System (guaranteed non-deteriorating) is suitable for most applications. This has the advantage of minimum running costs / maintenance and maximum safety. We also offer a complete range of electro magnet systems where an even deeper magnetic field is required or where it is necessary that the magnetic force can be switched off.

## Magnet Steel Circuit

Full 'tri-polar' iron circuit magnet design minimises stray magnetic flux in the framework and pulleys of the overband. This reduces maintenance and prolongs the life of the machine.

## Guards

Full width folded guards to meet stringent safety standards and also help to prevent ferrous metal from being trapped between belt and magnet/pulleys.



## Motor

A hydraulic or electric geared motor unit is fitted to the shaft of the drive pulley through a flexible coupling. This prolongs the life of the gearbox, bearings and drive pulley shaft.

## Belt

A vulcanised belt is usually fitted with either hot bonded / vulcanised or moulded cleats to prolong the life of the belt. It helps prevent ferrous material from reaching between the magnet and the belt and assists with tracking.

## Belt Changing

Simple framework allows for new endless belts to be fitted without dismantling the complete separator.



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