

MAGNAPOWER



magnetic processing technology

Maximise Recovery of Ferrous Metals

High performance magnet design to suit your application (ferrite, rare earth or electro magnets) to provide the most effective method of metal recovery.

Minimise Maintenance

Heavy-duty construction with no moving parts provides a unit with almost no maintenance requirement. Permanent magnet pulleys are built using high intensity non-deteriorating material, so not only is no power required to the magnet, but it will also provide maximum magnetic force for the lifetime of the machine.

High permeability iron circuit to minimise stray magnetic fields in shaft and outer bearings thus prolonging their life.

Optimise Throughput

Deep field magnet systems penetrate through the product burden and remove the maximum amount of ferrous metal. This allows for a higher throughput of material to be separated efficiently.

Magnet System

All magnet systems are designed to give maximum separation performance with either an alternating pole or continuous pole design depending on the application. Electro magnet systems are also available.



Built to Match Your Exact Size Requirements

The Magnapower Magnetic Head Pulley can be built to match your exact size requirements. It can usually replace your existing head pulley with no structural modifications.

Magnetic Strength

Standard Strength Ferrite Magnets:

suitable for separating general tramp iron and contamination such as nuts, bolts, nails, steel cans, wire etc.

High Intensity Rare Earth Magnets:

suitable for removing general tramp iron, weakly magnetic material, fine iron/wire and ferrous metal with inclusions such as wood, rubber, non-ferrous metal etc. The Rare Earth Magnet System is recommended when a maximum level of metal removal is required.



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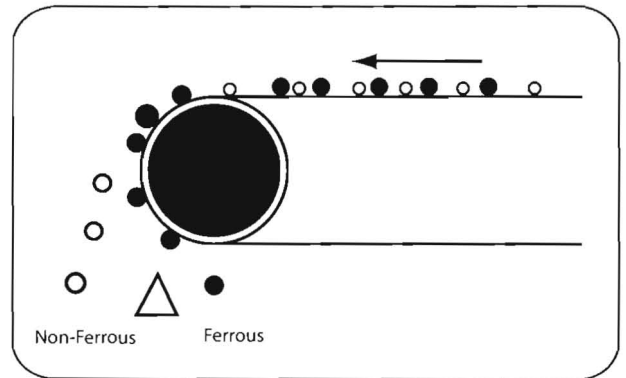
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Improved Belt Alignment

Where necessary or specified, the Magnapower pulley has a machined crowned face which assists with your conveyor belt alignment and prolongs belt life.

Operation

Material is carried along the conveyor in the normal way. The magnetic head pulley holds ferrous metal to its surface allowing the 'cleaned' product to follow its normal trajectory. Ferrous metal is held to the belt surface and carried round and under the pulley where it then discharges.



Magnetic Head Pulley

Typical Applications Include:

- Wood waste recovery
- 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 - Overband Magnets
Can Sorters - Drum Magnets

