MAGQUIP

MAGNETIC SEPARATION TECHNOLOGY

RECYCLING RANGE

X-SORT EDDY CURRENT SEPARATOR

The X-SORT Eddy Current Separator (Non-ferrous Metal Separator) is engineered for high-performance non-ferrous metal recovery in recycling and resource recovery plants. Its advanced eccentric rotor system, including a dedicated “fines” rotor option, delivers powerful and stable repulsive forces across a wide particle size range, from coarse fractions down to fine materials. Available in multiple widths, the X-SORT can be configured with an integrated vibrating feeder for even material presentation, a high-strength ferrous drum separator for ferrous removal, and precision splitter modules for clean product discharge. Built for heavy-duty operation, it offers high throughput, reliable separation efficiency, and long service life. Ideally suited for recycling and resource recovery plants, the X-SORT provides a versatile solution for maximising valuable metal recovery.

SSS STAINLESS STEEL SORTER

The MAGQUIP “SSS” Separator is purpose-built with a high-gradient magnetic system to recover weakly magnetic stainless steels and other fine metallics often missed by conventional metal recycling equipment equipment. It incorporates a precision belt tracking system for stable operation, with adjustable splitter assemblies to ensure clean product separation. Available in various widths, the unit can be supplied with integrated feeders and tailored magnetic circuits to suit different residue streams (FERROSORT). Compact and rugged, the SSS delivers reliable performance and high recovery efficiency, particularly in scrap, residue, and waste-to-energy processing plants.

OVERBAND / SUSPENSION MAGNETS

MAGQUIP “Overband” and Suspension Belt Magnets provide continuous removal of tramp iron from conveyed bulk materials. Mounted over conveyor belts or vibratory feeders, they automatically extract ferrous contaminants, protecting downstream crushers, screens, and process equipment from costly damage or for ferrous metal recovery.

Available in permanent (PERMABAND) or self-air-cooled electromagnetic models (POWERSMART), these magnets are suited to quarries, mining, recycling, and cement plants for conveyor belts 450-2400 mm wide.

Available options include Manual or Self Cleaning, Cross belt or In-line, Armour Plated Belt, ATEX certified.

DRUM MAGNETIC SEPARATORS

MAGQUIP Drum Magnetic Separators provide efficient separation of ferrous contaminants in recycling, mining, and mineral processing applications.

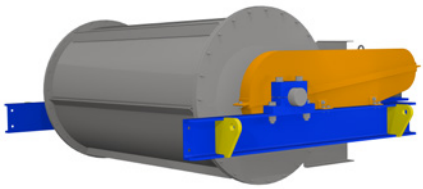
In recycling plants, they are commonly used for recovering steel from shredded scrap, municipal waste, bottom ash, and construction debris. Using either Ferrite or Rare Earth magnet elements, the drums capture and separate ferromagnetic and paramagnetic particles.

Available in diameters from 300–900 mm and widths from 300–3000 mm, they can be configured for tramp iron removal, product upgrading, or final cleaning stages. Robust construction, adjustable splitter systems, and high separation efficiency make them reliable for continuous, high-throughput operations.

MAGNETIC HEAD PULLEYS

MAGQUIP Magnetic Head Pulleys are a compact, cost-effective solution for continuous ferrous removal in recycling, aggregate, and mineral processing plants. Replacing a standard conveyor head pulley, they automatically capture tramp iron and steel from the material stream at discharge, delivering cleaner product flow and protecting downstream equipment. Available with rare earth or ferrite magnetic circuits in axial or radial pole designs, they can be tailored to the application and material size. Suitable for conveyors from 300 mm up to 1800 mm wide, these pulleys provide durable, low-maintenance, and energy-free separation. Their simple installation and reliable operation make them a practical choice for recycling facilities handling waste, wood, glass, and other bulk materials.

FRAG DRUM SEPARATOR



The MAGQUIP ROTOFRAG “Frag Drum” Separator is purpose-built for heavy-duty recycling, particularly the recovery of large ferrous metals from shredded automotive scrap, white goods, and demolition waste. Its large-diameter, high-intensity drum captures iron and steel efficiently, even from coarse or bulky feed material.

Designed for demanding operations, it features wear-resistant housings, heavy-duty bearings, and adjustable splitters for clean separation.

The Frag Drum maximizes ferrous recovery, improves downstream non-ferrous separation efficiency, and reduces waste volumes.

Available in permanent or electromagnet designs depending on application.

LIFTING & SCRAP HANDLING MAGNETS

MAGQUIP Lifting and Scrap Handling Magnets provide a safe, efficient way to move ferrous materials in recycling yards, steelworks, foundries, and ports.

Available in circular, rectangular, or custom designs, they can lift loose scrap, billets, plates, or rails with ease.

Options include permanent, electromagnetic, or battery-powered models, many with quick-release systems for faster handling. Built for heavy-duty environments, they reduce manual handling risks, improve loading speed, and ensure reliable operation.

Equally suited to recycling and industrial manufacturing, these magnets deliver strength, safety, and productivity in demanding material-handling applications.

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