

## Advanced recovery of non-ferrous metals from dry recyclables



### MagThro™ Eddy Current Separator System

The MagThro is a robust recycling solution designed to meet the rigorous demands of the metal and waste recycling industries.

#### Reliable and efficient metal recovery

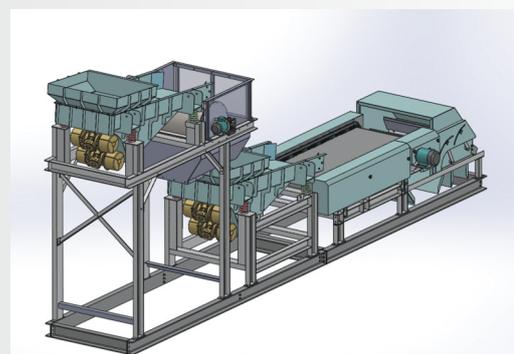
Made from high-grade components, the MagThro is fitted with 12-pole magnetic shafts. High performance Neodymium rare earth magnets create a continuous and strong magnetic force that reliably and efficiently separates non-ferrous metals from mixed materials. A three-way splitter sorts the outfall streams into waste, fine/smaller non-ferrous materials and larger non-ferrous materials.

Key sections of the framework are interchangeable, enabling walkways to be attached, while hinged panels provide quick access for routine maintenance. Standard belt widths are 300, 500, 750, 1000, 1250 and 1500mm. The main belt is fully adjustable and can be replaced without disturbing the rotor. The fully-adjustable eccentric rotor allows the separation and magnetic force to be altered as necessary to enhance recovery.

MagThro is handmade in the UK at BlakerTech's manufacturing facility in the South East of England. Full installation, training and support is all included as part of our support package.

#### MagThro - high recovery performance:

- Cost-effective with high recovery performance
- An environmentally-friendly, dry process with no contaminated effluent to treat
- Designed to operate in heavy industrial environments
- Multiple rotor options for tailored recovery applications



Watch a video 

[www.blakertech.com](http://www.blakertech.com)



## MagThro™ Eddy Current Separator System

### How does the MagThro work?

Non-ferrous materials are evenly distributed onto a conveyor, which passes over the MagThro. The spinning rotor throws the non-ferrous metals (further than waste materials) into a splitter target, sending the sorted waste and non-ferrous metals downstream to their respective destinations.

The MagThro has an eccentric rotor which can be adjusted to alter the separation/ magnetic force. Ideally, the non-ferrous metals are then further refined using our SandFlo™ product, which separates light from dense fragments, realising significant financial benefits.

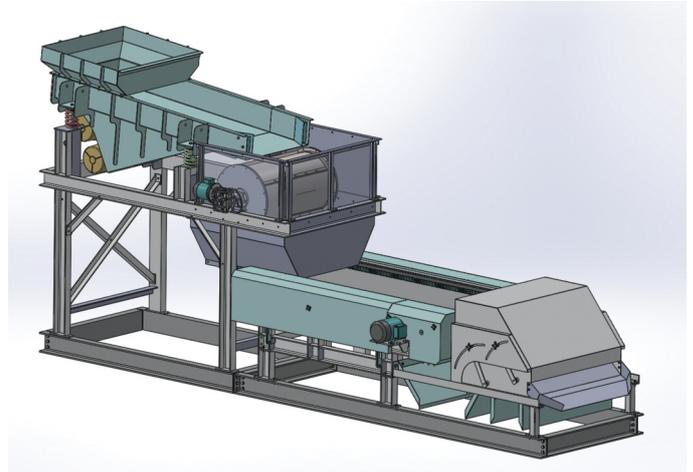
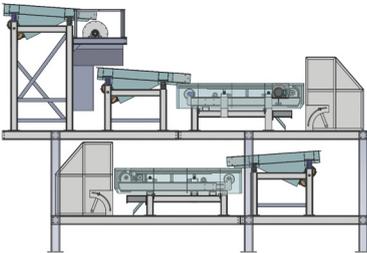


Diagram shows complete metal recovery process

### Key features

- A durable, hard wearing and robust framework
- Key sections of the framework are interchangeable enabling walkways to be attached - hinged panels provide quick access for routine maintenance checks
- Standard belt widths are: 500mm, 750mm, 1,000mm, 1250mm and 1500mm
- The main belt is fully adjustable and can be replaced without disturbing the rotor
- Our custom built E-glass rotor drums are machined to tight tolerances
- We use high performance Neodymium rare earth magnets as they are the strongest available on the market
- A sealed motorised drive drum protects the rotor from foreign objects
- The conveyor belt is driven by Van de Graaff geared drive drums
- Quality SKF or Nachi bearings used for high quality smooth performance
- Full installation, training and support provided by in-house experts
- The MagThro is hand made at our UK premises in West Sussex with an average lead time of between three to four weeks
- Our MagThro product and accessories range from a replacement rotor or drum, to a cascade system incorporating hopper, shaker, drum magnet, splitters, etc. We can supply conveyors, ECS's and targets as stand alone units or on a framework (standard or bespoke).

Environmentally-friendly, dry process with high recovery rates



Designed to operate in heavy industrial environments



Multiple rotor options for tailored recovery applications



For more information about MagThro metal recovery, call or email our team.

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 **BLAKER TECH**  
ADVANCED RECYCLING EQUIPMENT

## Magthro™ Eddy Current Separator System

### Technical specification

#### Overall Dimensions

Length	All Models	2756mm
Height	Std specification	1040mm

Width	Overall width including Motor	Belt working width
500mm	1593mm	520mm
750mm	1833mm	740mm
1000mm	1993mm	900mm
1250mm	2178mm	1085mm
1500mm	2428mm	1360mm

ECS Rotor	Manufactured in Blaker Tech workshops
	Driven by 4 Kw Crompton Greaves motor
	12-Pole configurations
	Rotor Drum E-Glass
	Eccentric configuration
	Rare Earth Neodymium Magnets

#### Conveyor

Drive Motor	Van der Graaf drive drum. V- 2.1 m/s U 230 - 440v at 50hz IP66 rated junction Box. Lagged with ETR8-70 Diamond back
Belt	Eco V4H with 30mm chevron side skirts

#### Electrical System

Control Cabinet	Control cabinet is made to order, tailored to customer requirements and incorporates all relevant stop start devices, warning lights and safety features
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#### Structural Details

Framework is robustly manufactured using Parallel flange channels 200mm x 75mm and 150mm x 75mm
Cantilever design enabling ease of belt change
Hinged side panels for ease of maintenance
Paint: One Coat semi-gloss RAL 7011 grey or customer can specify