

# GTEK

## Eddy Current Separator

### Brochure

#### Description

The Eddy Current Separator is an advanced metal sorting unit that is capable of separating non-ferrous metals such as aluminum and copper from dry recyclables

Eddy current separation is based on the use of a magnetic rotor with alternating polarity, spinning rapidly inside a non-metallic drum driving by a conveyor belt. Material is fed on to the conveyor belt of the eddy current separator, which moves it across the magnetic rotor where separation occurs. As nonferrous metals pass over the drum, the alternating magnetic field creates eddy current in the non-ferrous metal particles repelling the material away from the conveyor. While other materials drop off at the end of conveyor, the non-ferrous metals are propelled forward over a splitter for separation.



#### Applications

Eddy current separation equipment can be used to remove non-ferrous metals from municipal solid waste, auto shredding residue operations, glass cullet, electric scrap, UBC reclamation, etc.

- Separation of non-ferrous metals in auto shredder residue;
- Separation of non-ferrous metals from solid waste incinerator ash;
- Sorting of aluminum beverage cans from non-magnetic recyclables;
- Removal of non-ferrous contamination from crushed glass cullet;
- Separation of non-ferrous dross from foundry sand;
- Non-ferrous metal removal in WEEE recycling plants;
- Removal of aluminum components in UPVC window recycling;
- Separation of non-ferrous metals from plastics;
- Separation of non-ferrous metals from electronic scrap;
- Separation of non-ferrous metals from car recycling applications.

## Features&Benefits

- 1.Excellent recovery of heavy non ferrous metals;
- 2.Designed with top grade rare-earth magnetic material;
- 3.Adopt Intelligent touching control,VFD technology;
- 4.Use high quality components to ensure reliable in long-term operating;
- 5.Designed for minimal and easy maintenance;
- 6.Special magnets system protection mechanism preventing dropping off of magnets;
- 7.Designed for lower noise and minimal vibration

## Technical Specification

Type	Belt				Power	Weight	Size		
	Feeding width (mm)	Feeding length (mm)	Feeding	Capacity (m3/h)	Power (kw)	Weight (kg)	Length (mm)	Width (mm)	Height (mm)
GTFX-4	400	1500	$\geq$ 1mm <sup>2</sup>	4	7	600	4600	1660	1700
GTFX-5	500			6		730		1760	
GTFX-6	600			10		895		1860	
GTFX-6.5	650			15		950		1910	
GTFX-8	810			20		1225		2060	
GTFX-10	1015			25		1555		2260	
GTFX-12	1215			30		1875		2460	
GTFX-14	1420	1800	35	2275	4900	2660			
GTFX-16	1600	2000	40	2850	5100	2860			