

EDDY CURRENT SEPARATOR MODEL EIS

The SGM EIS Model is a cost-effective, easy-to-operate, and highly reliable Eddy Current Separator (ECS), specifically designed for the **recovery of non-ferrous metals from municipal solid waste (MSW) and a wide range of recycling applications**. Engineered for durability and consistent performance, the EIS is equipped with a concentric rotor that maximizes the exposure of materials to the magnetic field, ensuring efficient separation and improving non-ferrous recovery rates.

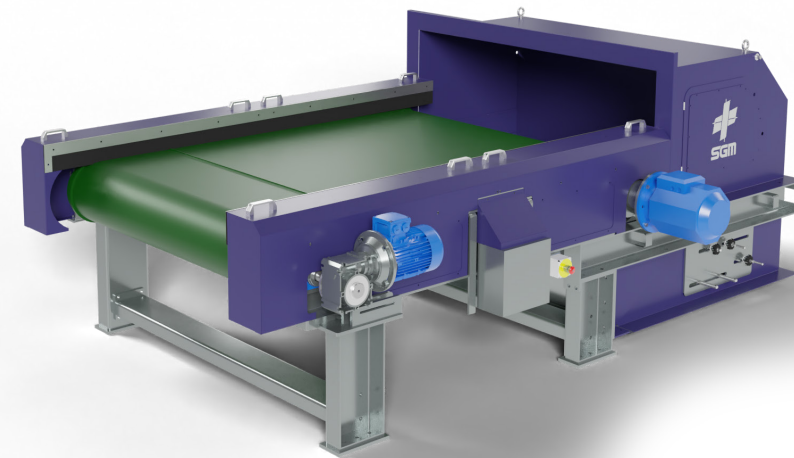
HOW IT WORKS

At the core of the system is a concentric rotor configuration, which ensures maximum exposure of the material stream to the magnetic field. This design improves separation efficiency by inducing strong eddy currents in non-ferrous metals such as aluminum, copper, and brass, which are then repelled and ejected into a separate collection zone. Non-metallic materials, such as plastic, wood, and glass, are unaffected by the magnetic field and follow their natural trajectory along the conveyor.

The EIS is equipped with latest-generation neodymium permanent magnets, delivering strong and consistent magnetic fields over time. Its adjustable belt speed (ranging from 0.6 to 2.1 m/s) allows operators to fine-tune the separation process based on material composition and throughput requirements. The compact and durable frame, combined with an easy-access design, ensures simplified maintenance and long-term reliability.

The SGM EIS Model offers various optional features to enhance separation efficiency and equipment durability:

- Latest-generation neodymium permanent magnets for enhanced performance.
- Concentric rotor design for optimized material exposure to the magnetic field.
- Easy-access design for simplified maintenance and servicing.
- Adjustable belt speed (0.6 – 2.1 m/sec) for customizable separation efficiency.



TYPICAL APPLICATIONS

- Municipal solid waste

MODEL mm - ft	RPM	NUMBER OF POLES	ADJUSTABLE BELT SPEED	CAPACITY*	MAGNETIC FREQUENCY	LENGTH	WIDTH	HEIGHT	WEIGHT
EIS 100/150 40/60	1500	24	0,6-2,1 m/sec 1.9-6.8 ft/sec	8 t/h	300 Hz	3160 mm 124"	1825 mm 72"	1390 mm 55"	1,500 Kg 3,307 lb
EIS 100/200 40/80	1500	24	0,6-2,1 m/sec 1.9-6.8 ft/sec	8 t/h	300 Hz	3660 mm 144"	1825 mm 72"	1390 mm 55"	1,650 Kg 3,637 lb
EIS 130/150 50/60	1500	24	0,6-2,1 m/sec 1.9-6.8 ft/sec	13 t/h	300 Hz	3160 mm 124"	2215 mm 87"	1100 mm 43"	1,600 Kg 3,527 lb
EIS 130/200 50/80	1500	24	0,6-2,1 m/sec 1.9-6.8 ft/sec	13 t/h	300 Hz	3660 mm 144"	2215 mm 87"	1100 mm 43"	1,750 Kg 3,858 lb
EIS 150/200 60/80	1500	24	0,6-2,1 m/sec 1.9-6.8 ft/sec	18 t/h	300 Hz	3190 mm 126"	2410 mm 95"	1390 mm 55"	2,050 Kg 4,519 lb
EIS 150/250 60/100	1500	24	0,6-2,1 m/sec 1.9-6.8 ft/sec	18 t/h	300 Hz	3683 mm 145"	2410 mm 95"	1390 mm 55"	2,100 Kg 4,629 lb

(*) Depending on application, material specific weight and metal content in material