EDDY CURRENT SEPARATOR
MODEL SIS

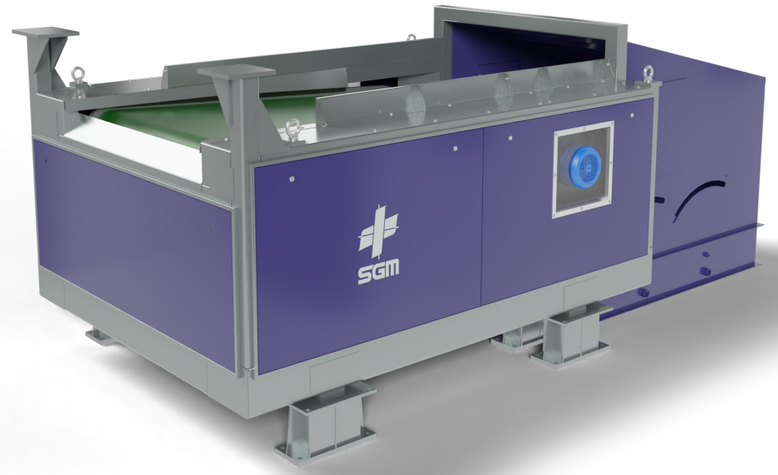
The SGM SIS Model is a robust and high-performance Eddy Current Separator (ECS) **specifically engineered for the recovery of non-ferrous metals from large-sized materials ranging from 20 to 130 mm.** With its oversized concentric rotor, the SIS ensures maximum exposure of the material flow to the magnetic field, significantly improving separation accuracy and purity. Ideal for demanding industrial applications, this sorter offers exceptional throughput and efficiency in recovering valuable non-ferrous metals such as aluminum, copper, and brass.

HOW IT WORKS

At the heart of the SIS Model is a high-speed rotating magnetic system, powered by advanced neodymium permanent magnets, capable of reaching speeds up to 3,000 RPM. As the material passes through the ECS, the rapidly changing magnetic field induces eddy currents in non-ferrous metals, causing them to be repelled from the main flow and diverted into a dedicated collection zone. Meanwhile, non-metallic materials such as glass, wood, or inert waste follow a natural trajectory, allowing for clean and effective separation. To further improve performance, the SIS can be equipped with a ferrous drum magnet (TMP) upstream, which removes ferrous contaminants and protects the ECS rotor.

The SGM SIS Model offers a range of optional features to boost performance and tailor the system to specific operational needs:

- Ferrous drum magnet (TMP) for upstream removal of ferrous materials.
- Roller splitter for precise separation control.
- Brush cleaning system for continuous belt maintenance.
- Air knife for cleaning the splitter and belt.
- Automatic or manual splitter adjustment for flexible operation.
- Ceramic shell for fiberglass drum to enhance durability.
- Vibrating feeder for optimized and even material distribution.



TYPICAL APPLICATIONS

- Automotive Shredder Residue (ASR)
- Ash from MSW incinerator (IBA)
- Wood waste
- Upgrade of aluminum scrap

MODEL mm - ft	RPM	NUMBER OF POLES	ADJUSTABLE BELT SPEED	CAPACITY*	MAGNETIC FREQUENCY	LENGTH	WIDTH	HEIGHT	WEIGHT
SIS 100 40	3000	24	1-3 m/s 3-10 ft/s	5-8 t/h	600 Hz	5190 mm 204”	2090 mm 82”	2825 mm 111”	4,500 Kg 9,920 lbs
SIS 150 60	3000	24	1-3 m/s 3-10 ft/s	8-12 t/h	600 Hz	5190 mm 204”	2591 mm 102”	2825 mm 111”	5,000 Kg 11,023 lbs
SIS 200 80	2400	24	1-3 m/s 3-10 ft/s	12-20 t/h	480 Hz	5190 mm 204”	3180 mm 125”	2825 mm 111”	6,000 Kg 13,227 lbs

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