

EDDY CURRENT SEPARATOR MODEL GVIS

The SGM GVIS Model is a high-efficiency Eddy Current Separator (ECS) engineered specifically for glass waste recycling. Designed to ensure the effective removal of non-ferrous metal contaminants from glass cullet, the GVIS enhances glass purity and reduces contamination levels, significantly improving downstream processing and product quality.

HOW IT WORKS

At the heart of the GVIS is a concentric rotor system equipped with large neodymium permanent magnet blocks that generate a powerful, high-intensity magnetic field. Operating at 3,000 RPM, this configuration maximizes the exposure of material to the magnetic field, ensuring optimal separation efficiency, even with highly abrasive materials typical in glass processing applications. The separation process is based on the generation of eddy currents within conductive non-ferrous metals, such as aluminum, copper, and brass, which are repelled from the glass stream and ejected into a dedicated collection area. The clean glass cullet, unaffected by the magnetic field, follows its

natural trajectory and continues along the conveyor, achieving high levels of material purity.

To further improve performance, the GVIS can be combined with a suspended permanent magnet for the pre-removal of ferrous metals, thereby enhancing the efficiency of the ECS stage. All material-contact components are constructed from durable metallic materials, ensuring wear resistance and long-term reliability under abrasive operating conditions. The machine is also equipped with an electronic emergency fast-braking system for enhanced safety and features an easy-access design to simplify routine maintenance.

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

- Ferrous suspended permanent magnet for pre-removal of ferrous metals.
- Brush cleaning system for continuous belt maintenance.
- Automatic or manual splitter adjustment for precise separation control.
- Ceramic shell for fiberglass drum for increased wear resistance.
- Vibrating feeder for consistent material distribution.



TYPICAL APPLICATIONS

- Glass waste

MODEL mm - ft	RPM	NUMBER OF POLES	ADJUSTABLE BELT SPEED	CAPACITY*	MAGNETIC FREQUENCY	LENGTH	WIDTH	HEIGHT	WEIGHT
GVIS 100 40	3000	24	1-3 m/sec 3-10 ft/sec	8 t/h	600 Hz	4222 mm 166"	1900 mm 75"	1691 mm 66"	2,400 Kg 5,291 lbs
GVIS 130 50	3000	24	1-3 m/sec 3-10 ft/sec	11 t/h	600 Hz	4222 mm 166"	2200 mm 86"	1691 mm 66"	2,626 Kg 5,791 lbs
GVIS 150 60	3000	24	1-3 m/sec 3-10 ft/sec	13 t/h	600 Hz	4222 mm 166"	2500 mm 98"	1691 mm 66"	2,800 Kg 6,173 lbs
GVIS 175 70	3000	24	1-3 m/sec 3-10 ft/sec	15 t/h	600 Hz	4222 mm 166"	2750 mm 108"	1691 mm 66"	3,300 Kg 7,275 lbs

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