

EDDY CURRENT SEPARATOR MODEL BVIS

The SGM BVIS Model is an ultra-high frequency Eddy Current Separator (ECS) **specifically designed for the efficient recovery of ultra-fine non-ferrous metals**. With its concentric rotor configuration, the BVIS Model maximizes material exposure to the magnetic field, significantly improving metal recovery rates and end-product purity. This advanced ECS is ideal for applications dealing with extremely small particle sizes where precision separation is critical.

HOW IT WORKS

The BVIS Model operates using high-speed rotors that range from 3,000 to 4,800 RPM, in combination with large neodymium permanent magnet blocks. This powerful setup generates intense magnetic energy, enabling both instantaneous and progressive separation. While eccentric rotor ECS designs allow only for immediate repulsion, the concentric design of the BVIS provides extended exposure to the magnetic field, essential for separating ultra-fine non-ferrous particles that require more time to react. For optimal performance and to protect the

ECS rotor, it is strongly recommended to pre-remove ferrous contaminants with a dedicated ferrous separator.

To tailor performance to specific operational needs, the SGM BVIS Model offers the following optional features:

- Brush cleaning system for continuous belt maintenance.
- 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)
- Electronic scrap (WEEE)
- Wood waste

MODEL	RPM	NUMBER OF POLES	ADJUSTABLE BELT SPEED	CAPACITY*	MAGNETIC FREQUENCY	LENGTH	WIDTH	HEIGHT	WEIGHT
BVIS 55 Extra Fine Fine	4,800	36	0.8-1.8 m/sec 2.5-6 ft/sec	0.5 - 2 t/h	1440 Hz	2300 mm 90"	1170 mm 40"	1380 mm 54"	1,500 Kg 3,307 lbs
BVIS 100 Extra Fine Fine	4,800	36	0.8-1.8 m/sec 2.5-6 ft/sec	1.5 - 4 t/h	1440 Hz	2300 mm 90"	1560 mm 61"	1380 mm 54"	2,000 Kg 4,409 lbs
BVIS 100 Medium	3,000	24	0.8-1.8 m/sec 2.5-6 ft/sec	1.5 - 4 t/h	600 Hz	2300 mm 90"	1560 mm 61"	1380 mm 54"	2,000 Kg 4,409 lbs
BVIS 150 Extra Fine Fine	4,400	36	0.8-1.8 m/sec 2.5-6 ft/sec	2 - 6 t/h	1320 Hz	3490 mm 137"	2300 mm 90"	1700 mm - 67"	3,000 Kg 6,614 lbs
BVIS 150 Medium	3,000	24	0.8-1.8 m/sec 2.5-6 ft/sec	2 - 6 t/h	600 Hz	3490 mm 137"	2300 mm 90"	1700 mm - 67"	3,000 Kg 6,614 lbs

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