

# EDDY CURRENT SEPARATOR MODEL VIS

The SGM VIS Model is a high-frequency Eddy Current Separator (ECS) specifically developed for the recovery of non-ferrous metals from ultra-fine and fine material fractions. Featuring a concentric rotor, the VIS Model ensures maximum exposure of the material to the magnetic field, significantly enhancing separation performance and purity. Designed for fine particle sizes, it is the ideal solution for applications requiring precise metal recovery from materials smaller than 20 mm.

## HOW IT WORKS

Operating at speeds ranging from 3,000 to 4,800 RPM, the VIS Model utilizes a concentric rotor to perform both instantaneous and progressive separation. This design is especially effective for recovering ultra-fine metals (smaller than 5 mm), which require longer interaction with the magnetic field to be properly repelled. Unlike eccentric rotors, the concentric configuration allows for extended exposure time, increasing recovery rates across fine and medium-size fractions. To ensure optimal efficiency and safeguard the rotor, it is recommended to pre-remove

ferrous contaminants with a dedicated ferrous separator before the ECS process.

To further boost its adaptability and performance, the SGM VIS Model can be equipped with a range of optional features:

- 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)
- Electronic scrap (WEEE)
- Wood waste
- Upgrade of aluminum scrap

MODEL mm - ft	RPM	NUMBER OF POLES	ADJUSTABLE BELT SPEED	CAPACITY*	MAGNETIC FREQUENCY	LENGTH	WIDTH	HEIGHT	WEIGHT
VIS 100 40 Extra Fine	4800	36	0.6-2.1 m/sec 2-7 ft/sec	3-5 t/h	1440 Hz	4215 mm 166"	1980 mm 78"	1550 mm 61"	2,400 Kg 5,291 lbs
VIS 100 40 Fine	4000	24	0.6-2.1 m/sec 2-7 ft/sec	6 t/h	800 Hz	4215 mm 166"	1980 mm 78"	1550 mm 61"	2,400 Kg 5,291 lbs
VIS 100 40 Medium	3000	24	0.6-2.1 m/sec 2-7 ft/sec	8 t/h	600 Hz	4215 mm 166"	1980 mm 78"	1550 mm 61"	2,400 Kg 5,291 lbs
VIS 150 60 Extra Fine	4400	36	1.0-3.0 m/sec 3-10 ft/sec	5-8 t/h	1320 Hz	4215 mm 166"	2490 mm 98"	1550 mm 61"	2,800 Kg 6,173 lbs
VIS 150 60 Fine	4000	28	1.0-3.0 m/sec 3-10 ft/sec	10 t/h	933 Hz	4215 mm 166"	2490 mm 98"	1550 mm 61"	2,800 Kg 6,173 lbs
VIS 150 60 Medium	3000	24	1.0-3.0 m/sec 3-10 ft/sec	13 t/h	600 Hz	4215 mm 166"	2490 mm 98"	1550 mm 61"	2,800 Kg 6,173 lbs
VIS 200 80 Fine	4000	28	1.0-3.0 m/sec 3-10 ft/sec	13 t/h	933 Hz	4215 mm 166"	3175 mm 125"	1626 mm 64"	4,000 Kg 8,820 lbs

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