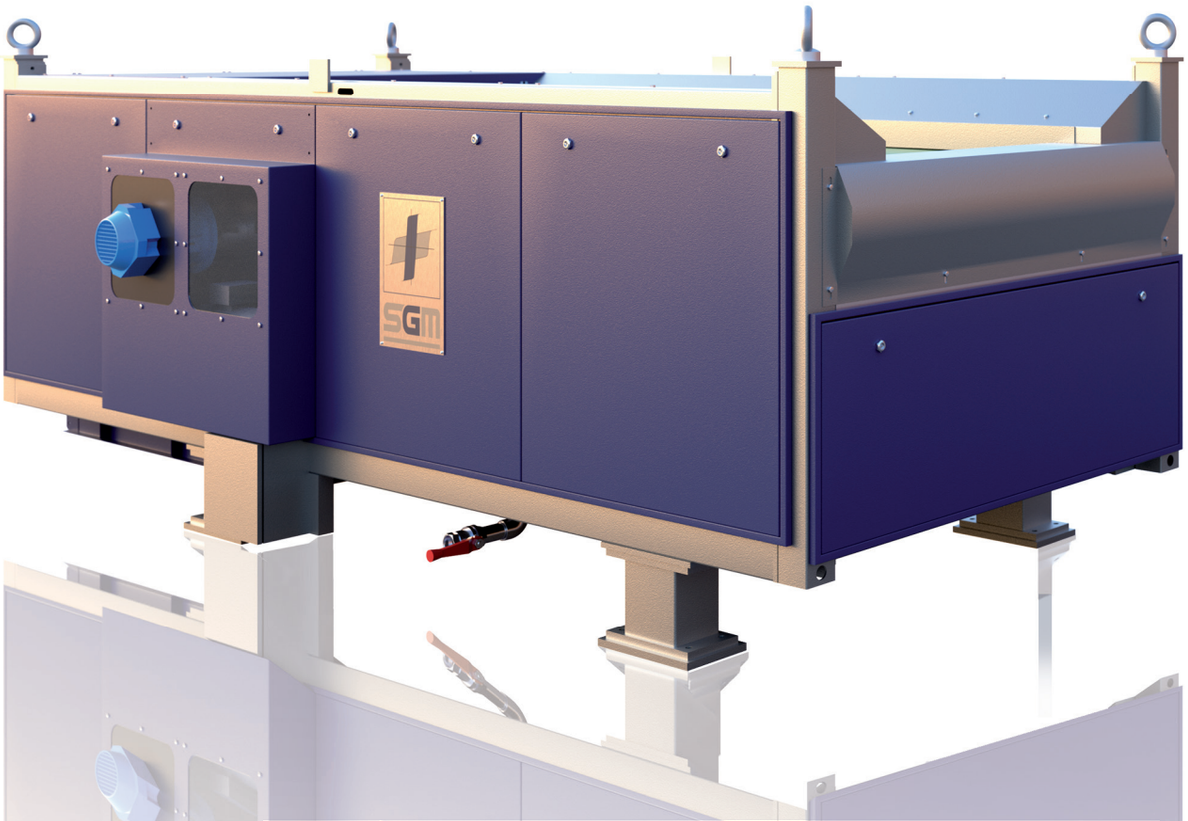
SGM Magnetics

High Frequency Eddy Current Separator

Model VIS



Typical Applications

- Auto Shredder Residue (ASR)
- Municipal solid waste incinerator ash (IBA)
- Waste of electrical and electronic equipment (WEEE)
- Wood waste
- Upgrade of aluminum scrap

Designed For

- Extra fine fraction <3/16” down to 1/32”
- Fine fraction <1/2”
- Medium fraction: from <1/2” to 1 3/4”

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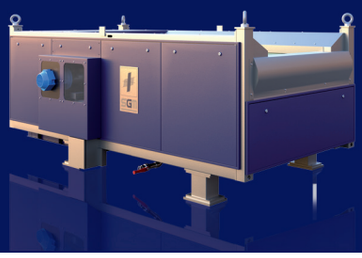
The high frequency ECS supplied by SGM is a multiple of the ones supplied by every other manufacturer put together!



Technical Specifications

Designed with a concentric rotor for maximum exposure of material to magnetic field. A concentric rotor design allows the use of large permanent magnet blocks and disposing of maximum magnetic energy. This combined with high speed rotor (from 3,000 up to 4,800 rpm) provides superior metal recovery and purity performance. Ideal to perform both an **instantaneous** and **progressive** separation on ultra fines metals.
The use of a ferrous separation before passing on the high frequency ECS is recommended in order to optimize non-ferrous metal recovery and protect the ECS against ferrous damage exposure.

Optional Features

- Roller splitter
- Brush cleaning system for belt
- Air knife for splitter and belt cleaning
- Automatic or manual splitter adjustment
- Ceramic shell for fiber glass drum
- Vibrating feeder

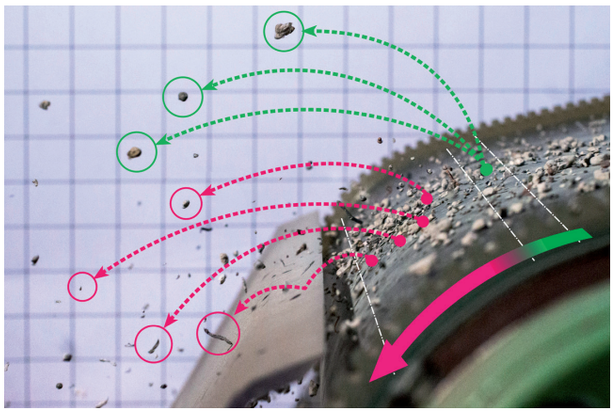
MODEL	RPM	NUMBER OF POLES	CAPACITY (*)	ADJUSTABLE BELT SPEED	MAGNETIC FREQUENCY
VIS 40 Extra Fine	4800	36	3-5 t/h	2 - 7 ft/sec	1440 Hz
VIS 40 Fine	4000	24	6 t/h	2-7 ft/sec	800 Hz
VIS 40 Medium	3000	24	8 t/h	2-7 ft/sec	600 Hz
VIS 60 Extra Fine	4400	36	5-8 t/h	3-10 ft/sec	1320 Hz
VIS 60 Fine	4000	30	10 t/h	3-10 ft/sec	933 Hz
VIS 60 Medium	3000	24	13 t/h	3-10 ft/sec	600 Hz
VIS 80 Extra Fine	4000	36	8-12 t/h	3-10 ft/sec	1200 Hz
VIS 80 Fine	4000	30	13 t/h	3-10 ft/sec	933 Hz
VIS 80 Medium	3000	28	17 t/h	3-10 ft/sec	700 Hz

MODEL	LENGTH	WIDTH	HEIGHT	WEIGHT
VIS 40	166”	78”	61 “	5,291 lbs
VIS 60	166”	98”	61”	6,173 lbs
VIS 80	166”	125”	64”	8,820 lbs

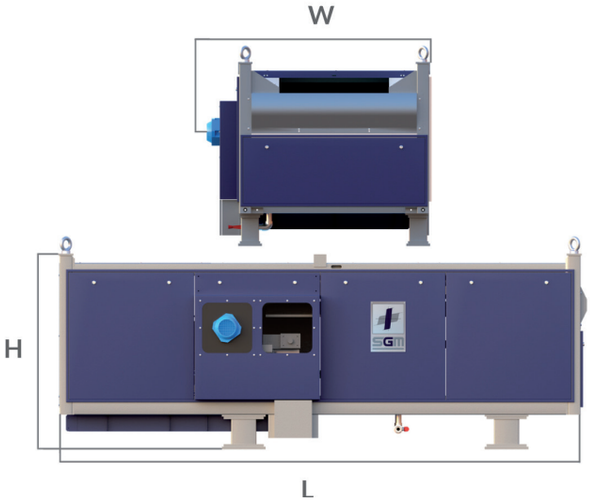
(*) Depending on application, material specific weight and metal content in material

Product Highlights

- Latest generation of performing neodymium permanent magnets.
- Stainless steel sleeve protection mounted on rotor for maximum safety protection against high speed centrifugal forces.
- Designed for easy access to the inside of the ECS for easy maintenance.
- Electronic emergency fast breaking system (no clamping)
- Splitter design can be manual or remote for easy and accurate setting.
- Variable frequency drive for possible adjustment of rotor and belt speeds.
- Robust structure for longstanding industrial use.



NOT EVERY PIECE OF NON-FERROUS METALS JUMP INSTANTANEOUSLY ON AN ECS, SOME REQUIRE MORE TIME. CONCENTRIC ROTOR DESIGN ALLOWS FOR PROGRESSIVE SEPARATION VERSUS ECCENTRIC ROTOR DESIGN THAT ONLY ALLOWS INSTANTANEOUS SEPARATION.



SGM Magnetics Corporation
Separation and Recycling
4521 19th Street Court East, Suite 101, Bradenton, FL 34203
866.693.4815 www. sgmmagnetics.com info@sgmmagnets.com