

Typical Applications

Magnetic waste in Auto shredder residue (ASR) below 40 mm typically represents approximately 20 to 40% in weight with 5 to 15% good ferrous content that ends up lost in this fraction. The SGM DSRP is designed to recover those valuable pieces of ferrous.

Maximum material size 40 mm



Dynamic Ferrous Separator Model DSRP



Technical Specifications

Unlike a traditional head pulley magnet, the magnetic head pulley of the Dynamic SRP does not drive directly the belt of the separator but rather rotates inside a shell that rotates at a slightly higher speed than the magnetic pulley. Variable Frequency Drives (VDFs) allow to control the speed difference between the magnetic head pulley and belt.

Non-magnetic material travels at the speed of the belt, while magnetic material is subjected to a breaking action resulting from the slower speed of the floating magnetic pulley.

The result is a liberation action of the magnetic material from the non-magnetic one, in a much wider and open flow with respect to a traditional head pulley magnet with the lightly magnetic material (waste) dropping first and the good ferrous dropping last. In order to further clean the valuable fraction of ferrous that drops last, this fraction is passed on a permanent drum magnet that will recover from the distance the valuable ferrous. Both the inclination of the slide to the permanent magnet drum and the position of the drum are adjustable in order to accommodate for material size and purity required for the ferrous recovery.

The use of the SGM Dynamic SRP has some limitations in case of wet material.

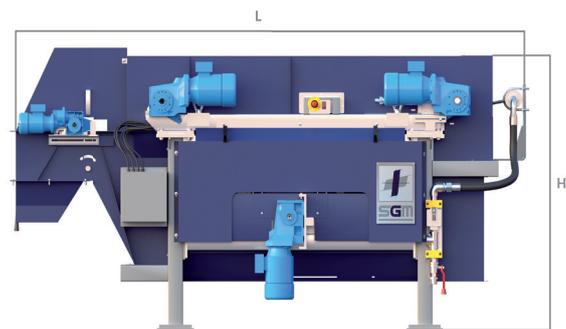
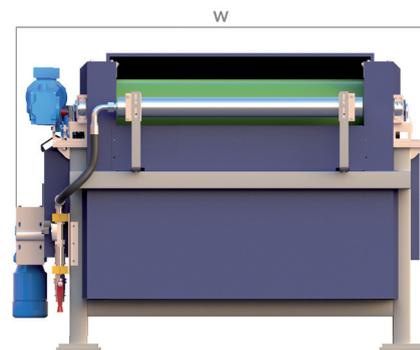
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Product Highlights

- Variable frequency drive for both belt and floating pulley.
- Possible by-pass of ferrous process in case material is too wet.
- Shaker on slide drum magnet to avoid material sticking on.

Optional Features

- Air knife for splitter and belt cleaning
- Brush cleaning system for belt



MODEL	FLOATING PULLEY MAGNET	DRUM MAGNET	BELT SPEED	CAPACITY (*)
DSRP 100	Ø 300	Ø 400	0.9-3.0 m/sec	5 - 8t/h
DSRP 150	Ø 300	Ø 400	0.9-3.0 m/sec	10 - 13 t/h
DSRP 200	Ø 300	Ø 400	0.9-3.0 m/sec	12 - 17 t/h

MODEL	LENGTH	HEIGHT	WIDTH	WEIGHT
DSRP 100	3478 mm	1714 mm	1736 mm	Kg 2,200
DSRP 150	3478 mm	1714 mm	2237 mm	Kg 2,650
DSRP 200	4400 mm	2315 mm	3243 mm	Kg 4,400

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

