

MAGNETIC TECHNOLOGY

AIR MAG SEPARATOR Model AMS-40"

TECHNICAL SPECIFICATIONS

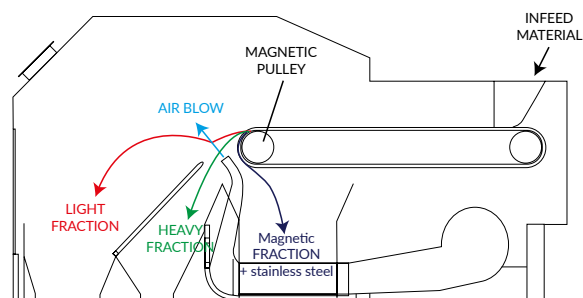
Magnetic separator combined with aeraulic technology. The magnetic part is made of an ultra-high gradient permanent magnet head pulley.

The aeraulic one consists in a bottom up blowing fan positioned underneath the magnetic head pulley blowing the light non-magnetic fraction over the separator splitter.

The discharging hopper is provided with an air suction piping to balance the air pressure generated by the blowing fan.

Infeed material is processed and separated in 3 fractions: 1° magnetic material, 2° heavies non magnetic (mainly made of solid pieces of heavy metals that can be sold as such) and, 3° light non magnetic.

Working principal of the SGM proprietary Air Mag separator.



The high gradient magnetic head pulley mounted on the AMS-40 is suitable to attract lightly magnetic pieces of stainless steel that are discharged together with the

other ferro-magnetic pieces. The powerful air knife of the aeraulic separation is positioned right under the trajectory of the material being processed. The air flow can be regulated through fan inverter allowing a proper set-up according to the type and humidity of material.

TECHNICAL FEATURES

- Magnet pulley Ø310 mm - 12"
- Neodymium grade N50
- Magnetic Circuit Design UHG - Ultra High Gradient
- Belt speed 1 - 2 m/s
- Overall length 4000 mm - 157"
- Overall width 1500 mm - 59"
- Overall height 1800 mm - 71"
- Overall weight 2500 kg
- Belt thickness 6,9 mm - 0,27" 3-ply spondaflex
- Machine table width 1000 mm - 39"
- Belt installed power 3 kW
- Ventilator installed power 15 kW
- Inverters for both head pulley magnet speed and fan.

PRODUCT HIGHLIGHTS

- Laser cut frame for maximum stability and accurate assembly.
- Air suction piping inlet installed on discharging hopper.
- Loading hopper reinforced with manganese steel.
- Side cladding realized with perforated sheet, 3 mm thickness

Design Standards:

Directive 2006/42/EC as well as Directive "Low Voltage" 2014/35/UE and Directive "Electromagnetic Compatibility" 2014/30/UE.

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TYPICAL APPLICATIONS

Wire and cable processing
Glass cullets
Wood recycling
Plastic recycling
Cans recycling



Heavy fraction



Light fraction



Magnetic fraction

