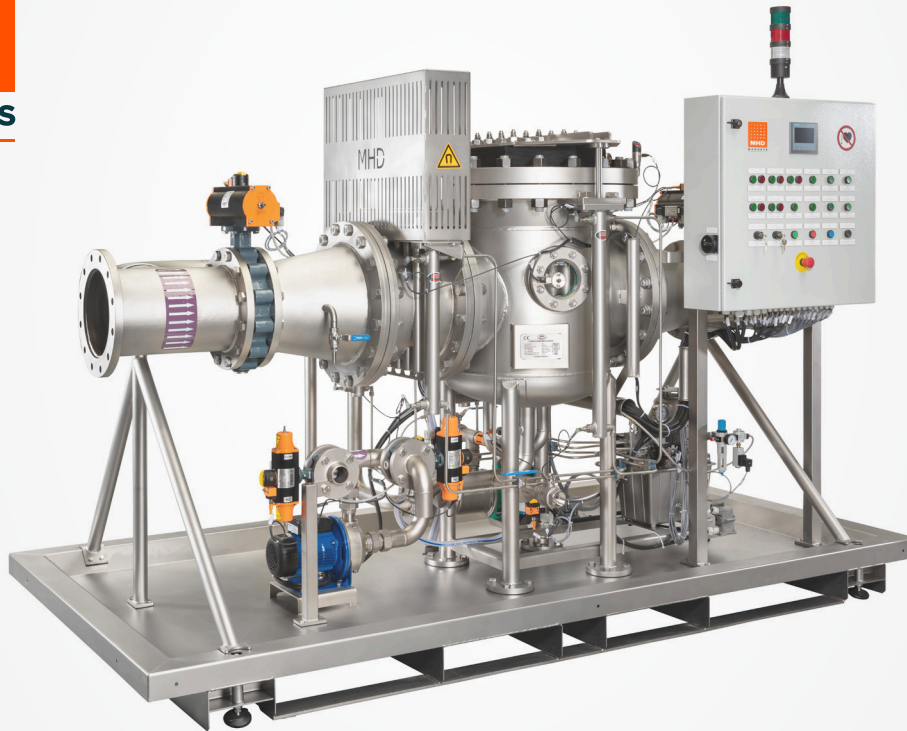




MHD

MAGNETS

*YOUR PARTNER
AND EXPERT IN
MAGNETIC SEPARATION*



AUTO-SELF-CLEANING MAGNETIC SEPARATOR

For more than 30 years, the magnetic separator PACMAN combines advanced magnetics and fluid dynamics to control the level of ferritic particle pollution in installations. With a fully automated self-cleaning program and permanent magnets, the PACMAN efficiently removes ferritic particles during its exceptionally long lifetime, with very little maintenance.

- **PACMAN efficiency**
Over 85% of ferritic particles down to 5 μm

The magnetic separator PACMAN is market leader in the automotive industry for more than 30 years and commonly used in various other industries. The very high magnetic field reaching throughout the whole filter housing in combination with the low flow velocity of the process fluid in the filter housing, result in four major benefits:

- **Reduced environmental impact**
 - Longer life-time of process fluid, lower water consumption
 - Less waste, zero discharge in combination with secondary filter system
- **Reduced maintenance efforts, less and shorter downtimes**
 - Fully automated removal of particles from process
 - Less wear in process equipment
- **Improved product quality**
 - Major reduction in defects
 - Significantly reduce probability of corrosion attack
- **Reduced costs**

PACMAN



MHD-MAGNETS.COM





MHD

MAGNETS

PREMAG

The continuous drive to decrease the layer thicknesses at the various stages in the paint line makes the separation of even the smallest particles from the pre-treatment stages increasingly more important. To meet this requirement MHD have developed and patented the PREMAG, a flocculation magnetic field located on the inlet side of the separator.

In the PREMAG the smallest particles will form larger aggregates with a much higher probability to be captured in the main magnetic field. The PREMAG flocculation module will significantly improve filtration efficiency for the finest particles (< 10 µm).

MODULAR DESIGN WITH OPTIONAL MODULES

In order to deliver solutions matching the various customer specific processes and requirements, MHD offer the PACMAN in a modular design, with the various options incorporated in the automatic program. This modular design enables MHD to offer our clients the best possible tailored solution.

- **PREMAG**
- **Transfer pump**

In case the MHD ROTOMAG/effluent treatment system is located higher and/or at a long distance, a transfer pump can be mounted in the drain pipeline to transfer the drained fluid to this effluent treatment system.

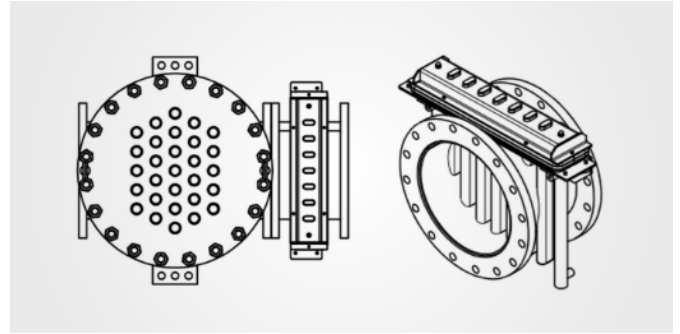
- **Clean drain**

Using a double drain allows for a two-step draining sequence, saving process fluid during draining:

- Drain with elements lowered > Drain of separated process fluid
- Drain with elements raised > Drain of highly polluted process fluid with captured particles

- **Control cabinet**

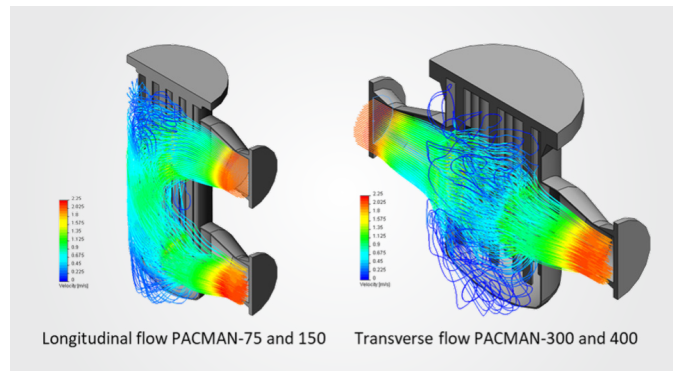
Delivery of control cabinet with various PLC platforms or only a terminal box.



PREMAG design drawings



Typical particle build-up around the poles of the PACMAN magnetic elements



SPECIFICATIONS

	Nom. capacity <i>m³/hr.</i>	Max. capacity <i>m³/hr.</i>	Magn. surface <i>m²</i>	Max. load <i>dry weight Fe in kg</i>	Dim. housing <i>mm</i>	Weight <i>kg</i>	Effective magnetic field <i>Tesla / Gauss</i>
PACMAN-75	75	110	0,8	24	Ø 250	750	0,6 / 6000
PREMAG-75						100	0,28 / 2800
PACMAN-150	150	185	1,1	33	Ø 350	950	0,6 / 6000
PREMAG-150						125	0,28 / 2800
PACMAN-300	300	360	1,8	54	Ø 450	1250	0,6 / 6000
PREMAG-300						175	0,28 / 2800
PACMAN-400	400	475	2,7	81	Ø 600	1750	0,6 / 6000
PREMAG-400						200	0,28 / 2800