

# Micromag

## Compact magnetic filter

Removes ferrous contamination from all industrial fluids

**E**nvironmentally responsible – waste can be recycled

**E**fficient – collects all ferrous contamination

**E**conomical – no consumables



# Micromag compact magnetic filter

## Highly efficient filtration

Sub-micron filtration efficiency: if the particle is magnetic, even partially, the Micromag will remove it.

Capable of removing abrasives and non-magnetic material by means of entrapment.

Visual inspection of fluid being filtered and contamination collected.

## Cost cutting

No consumables required, ever.

No loss of fluid due to changing oil sodden cartridges.

Minimal pressure drop, even when fully loaded with contamination thanks to patented magnetic circuit design.

No maintenance required, only operator intervention to clean.

Reduced downtime, increased productivity.

## Environmentally responsible

Contamination removed as material which can be recycled – no need to dispose of dirty cartridges.

Fluids remain effective for longer, so fluid use is reduced.

## Micromag magnetic filters are used effectively in these applications:

- Grinding, honing & lapping machines
- Manual & CNC machinery
- Fine finishing operations
- Wire & EDM processes
- Laser cutting operations
- Injection moulding cooling & heating systems
- Industrial part washing
- Press brake lubricant
- Transmission
- Engines
- Post drill head operations
- Saw sharpening
- Pump protection
- Pre-filtration
- Quenching operations

## in the following industry sectors:

- Machine tools
- Manufacturing
- Automotive
- Construction
- Aerospace
- Defence
- Recycling
- Hydraulic
- Marine
- Oil
- Transport
- Power generation
- Water
- Yellow & white goods
- Mining

## HOW MICROMAG WORKS

Contaminated fluid enters the inlet port where it is equally dispersed by the unique tapered radial flow channels. These channels slow the fluid down.

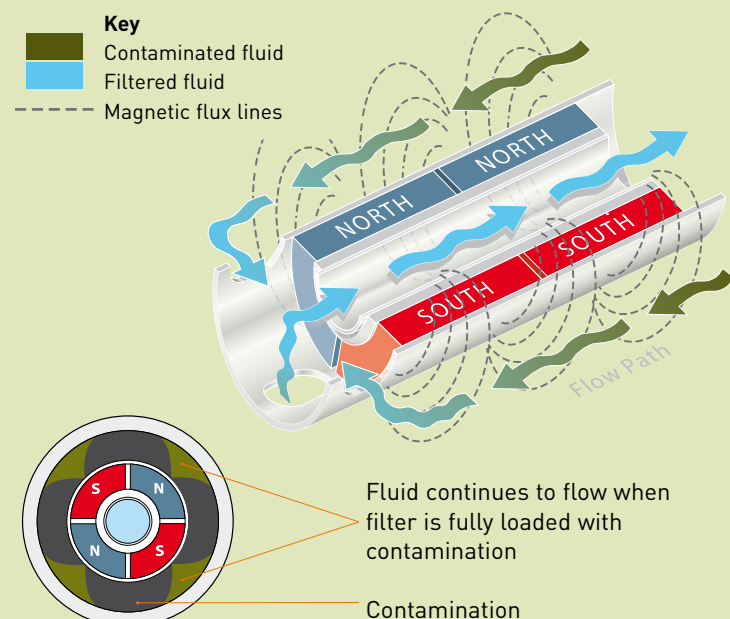
Fluid then passes up the outside of the centrally mounted 'rare earth' magnetic core where contamination particles are attracted and retained.

The geometry of the magnetic flux circuit ensures a controlled build up of contamination so the filter can never block.

The filtered fluid then flows through return slots at the top of the magnetic core and down through the centre, exiting through the outlet port.

### Unmatched capacity

Micromag is compact in size but has massive holding capacity. No filter can match its capability, with the units holding 1kg, 2kg and 4kg of contamination respectively, resulting in less downtime and increased productivity.



Clean fluid return slots

'Rare earth' high-intensity magnetic core with stainless steel cover

Anodised aluminium lid

Styrene Acrylo Nitrile (SAN) filter housing



Filtered fluid central return



Tapered radial flow channels

## CLEANED IN SECONDS

Using the supplied cleaning tool, a fully contaminated core can be cleaned in under 30 seconds leaving only metallic particles, which can be easily disposed of or recycled.



Contaminated core



Cleaning the core



Clean core

# Product data

## MICROMAG

Standard machine filtration. smaller wash stations. Non-chemical environments.

Inline/offline  
Manually cleaned  
SAN bowl  
Temp range: 5° to 50°C.  
Stock item

Product number	Flow rate ltrs/min.	Contam. capacity kgs	Max. operating pressure bar	Connection " BSP
MM5	70	1	12	1
MM10	100	2	12	1
MM20	150	4	12	1½

## MICROMAG HP

Micromag for high pressure applications – up to 80 bar.

Stainless steel construction  
Temp range: 5°C to 70°C.  
Stock item

Product number	Flow rate ltrs/min.	Contam. capacity kgs	Max. operating pressure bar	Connection " BSP
MM5HP	70	1	80	1
MM10HP	100	2	80	1
MM20HP	150	4	80	1½



# Ancillary equipment



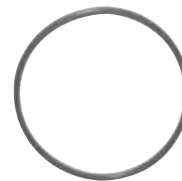
Core cleaning post



Bowl spanner



Mounting bracket



Viton 'O' ring



Adaptors

# Other Eclipse Magnetics filters



Larger filter for higher contamination capacity and flow rates. Precision grinding machines and fine finishing operations. Arduous environments. Inline applications.



Automated self-cleaning filter requiring no user intervention. In-line or off-line applications. Purging actuated by machine control.



Self contained filtration and fluid recovery system for higher flow, higher contamination applications. 24/7 automated operation.

[www.magneticfiltration.co.uk](http://www.magneticfiltration.co.uk)

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