



Filtramag

High intensity magnetic filter



Filtramag magnetic filter

The Filtramag magnetic filter removes ferrous, carbide, stainless steel and grinding media contamination from the coolants used in cutting and grinding.

Filtramag removes particles as small as sub-micron size, smaller than can be extracted by traditional filters.

The removal of these particles results in longer fluid life, improves the surface finish of your products, increases component accuracy and reduces wear on your machinery and tools.

Filtramag uses permanent magnets so does not require power to operate and is always working. It has no moving parts and does not require maintenance.

No consumables are used – contamination is quickly and easily removed as a semi dry 'cake' that can be easily disposed of as scrap without losing expensive fluid.

The Filtramag is available in 2 sizes with a core of either three or six high-intensity 'rare earth' magnetic rods with 11,000 Gauss magnetic performance.

Cut costs

- Eliminate disposal costs
- Extend the life of other filters
- Extend the life of your fluids

Improve quality

- Increase part accuracy
- Improve part finish

Reduce maintenance

- Reduce part and machinery wear

Applications

- Inline pressure feed lines
- Gravity fed systems
- Grinding
- Honing
- Milling
- Turning
- Fine detail machining

Filtramag in use

Contaminated fluid enters the Filtramag via the inlet port and travels through the matrix of rods which attract and hold the contamination. Clean fluid leaves the Filtramag at the outlet port.

The configuration of the rods means that pressure is always maintained even when the Filtramag is full of contamination.

Back pressure, which causes burst socks or cartridges, does not occur.

To clean the Filtramag simply lift out the cartridge and remove the contamination from the rods using the supplied tool.





“I would recommend the Filtramag to any company that hones or grinds.”

Bob Hill, Production Director, Elite Tooling

Special applications

For processes with high levels of contamination, high fluid flow rates, high viscosity fluids or operate continuously, multiple Filtramag filters can be installed in parallel using a manifold.

Each Filtramag can be isolated, using a manual valve, and cleaned, without stopping the process.

For fully-automated continuous filtration we supply the Automag self-purging magnetic filter.

Removed contamination is purged from the Automag on a timed cycle. The contamination and fluid are collected by a secondary separator which leaves contamination as a recyclable 'semi-dry cake' and allows fluid to be reused.

Please contact us for further details.



Product data

Higher flow, higher contamination. Applications with less magnetic contamination e.g. grinding medium, para-magnetic steel, carbide. Harsh chemical environments.

Inline/offline filtration
 Manually cleaned
 Full stainless steel construction
 11000 Gauss high-intensity magnet
 Temp range: 5°C to 70°C
 Stock item



Product number	Number of cores	Maximum flow rate* (see table below)		Max. Contaminant kgs	Max. Operating pressure bar
		Litres/min.	m³/hour		
FM1.5M	3	250	15	3	10
FM2.5	6	500	30	6	10

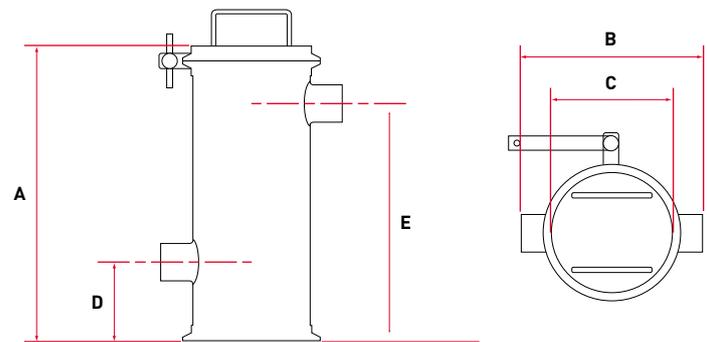
* Maximum flow rates for different fluids and contaminants Litres/min.

*Flow rates are based on the FM2.5 with 2½" inlet/outlet ports. Maximum flow rate capability will be reduced in the other options.

		Contamination			
		Mild steel	Cast iron	Stainless steel	Carbide
Fluid type	Water based	500	400	250	200
	Oil fluids	450	350	200	150

Dimensions in mm unless stated

Product number	A	B	C	D	E	Port size " BSP
FM1.5M	320	119	82	82	267	1½
FM2.5	480	180	120	130	365	2½



Other Eclipse Magnetics filters



Compact, general purpose magnetic filter. Most machining 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

Eclipse Magnetics Ltd

Atlas Way, Atlas North, Sheffield, S4 7QQ, England

T +44 (0)114 281 4319 F +44 (0)114 225 0525

enquiries@eclipse-magnetics.co.uk www.eclipse-magnetics.co.uk

