

T E C H N I C A L S E R I E S

Hydraulic Systems

Proven Results

- Cleaner Fluids
- Lower Costs
- Ease of Installation

FILTERMAG[®]
INDUSTRIAL PRODUCTS DIVISION

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MERLIN[®]

SLFMHYG-050815

Proven in the Laboratory

In the hydraulic testing laboratories of a major equipment manufacturer, FilterMag was proven to quickly reduce particle counts.

Equipment: Hydraulic Power Unit

Filtration: Two spin-on filters rated at 10µm

FilterMags: CT4.9s snapped onto the outside of each filter

Run Time: Two hours after FilterMag installation

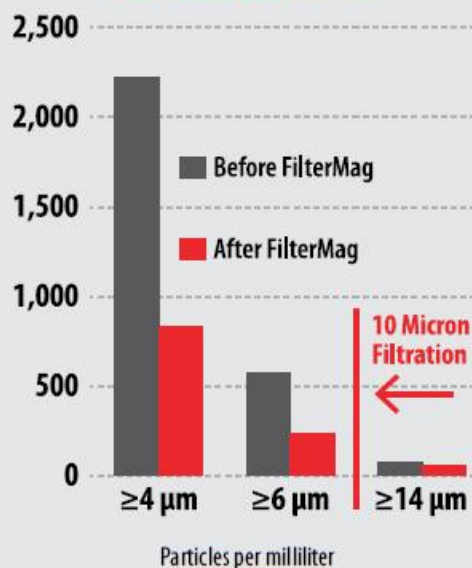
Results: 62% reduction in particles from baseline



FilterMag Results:

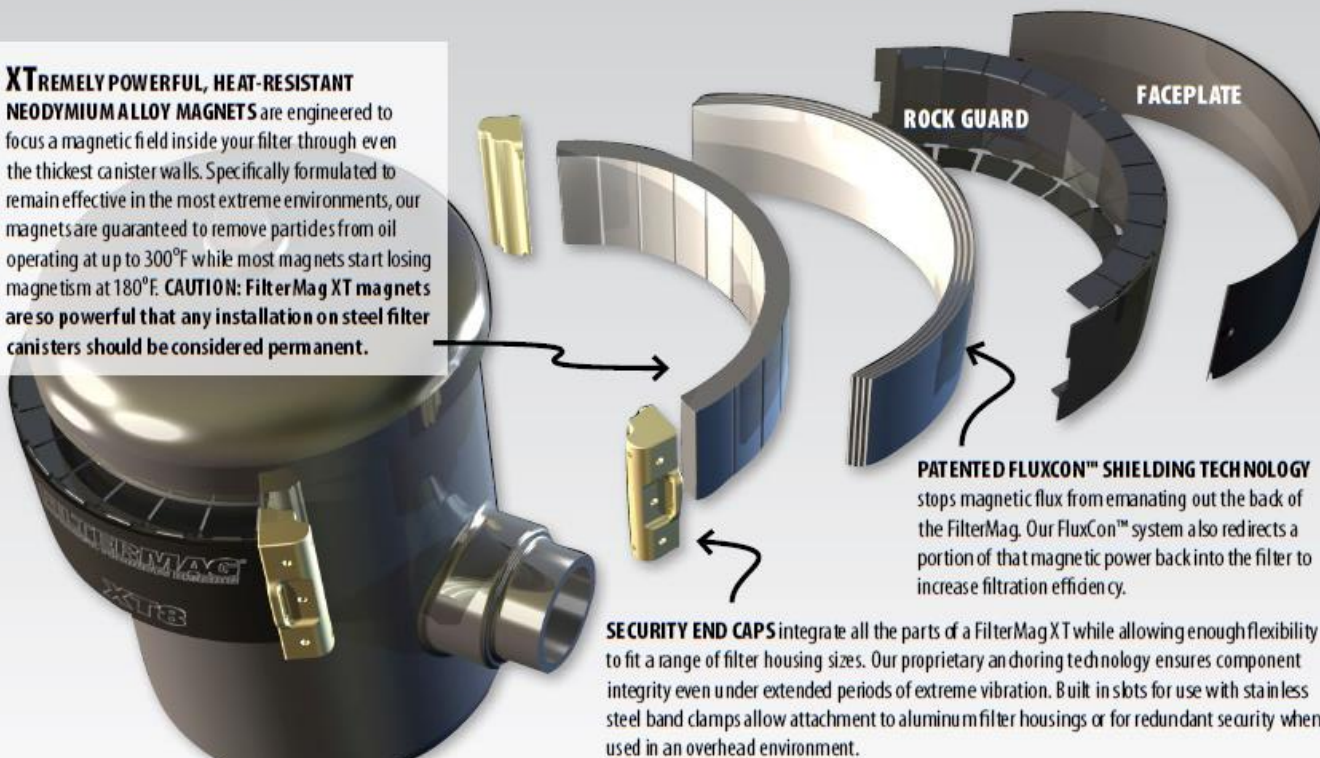
	≥4µm	≥6µm	≥14µm	ISO Code
Before FilterMag	2255	520	35	18/16/12
After FilterMag	863	232	31	17/15/12
Reduction %	62%	55%	11%	

62% Particle Reduction in Just 2 hours!



FilterMag XT: Powerful—Focused—Magnetic Field Technology

XTREMELY POWERFUL, HEAT-RESISTANT NEODYMIUM ALLOY MAGNETS are engineered to focus a magnetic field inside your filter through even the thickest canister walls. Specifically formulated to remain effective in the most extreme environments, our magnets are guaranteed to remove particles from oil operating at up to 300°F while most magnets start losing magnetism at 180°F. **CAUTION: FilterMag XT magnets are so powerful that any installation on steel filter canisters should be considered permanent.**



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Proven in the Field

Inside, outside, fixed or mobile—FilterMag works where your hydraulics work.

Here are a variety of real world results from our customers:

Fixed

Five Spin-on filters
Four CT4.9s on each filter

91% Reduction

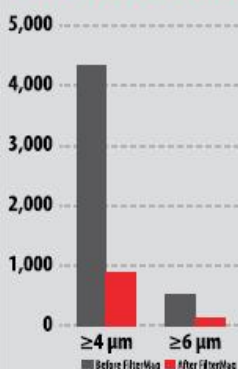


Conveyor

Mobile

Two Spin-on filters
Four CT3.8s on each filter

77% Reduction

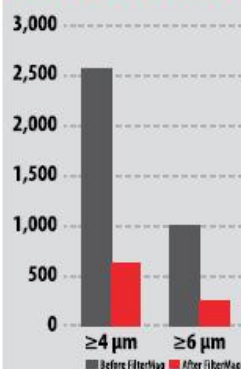


Haul Truck

Manufacturing

Two Spin-on filters
Four CT4.9s on each filter

76% Reduction

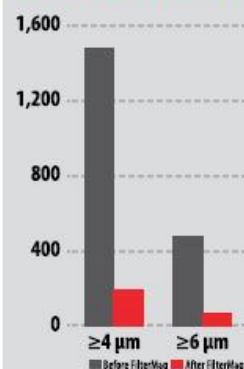


Press

Manufacturing

Two Spin-on filters
Four CT4.9s on each filter

84% Reduction

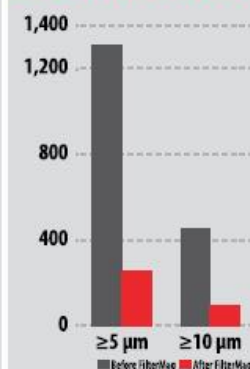


Press

Multi-Function

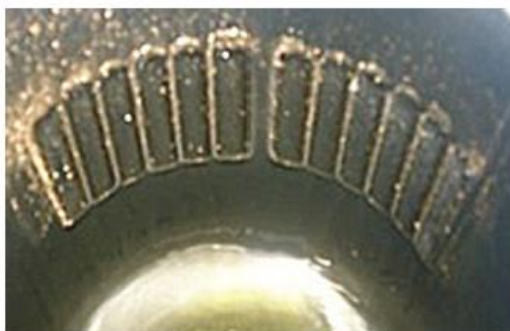
Four Cartridge filters
Four XT4s on each filter

80% Reduction



Drill

Proven to Save Money



Cut open high pressure hydraulic filter showing tens of millions of particles captured during a hydraulic pump failure. Most particles are smaller than 10μm.

Faster repairs mean less downtime.

When a hydraulic pump fails, the downstream debris can wreak havoc with your system. FilterMags installed on your high pressure filters can capture most of the damaging debris too small for your filters to stop. This can significantly reduce the amount of time and labor required to get up and running again.

Customers with large critical path hydraulics have reported **savings in excess of \$3 million** as a result of FilterMag. What is a day of downtime worth to you?

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Also Proven in Engines, Gearboxes, and Rotating Equipment

CT for Spin-on Filters



Order part # based on oil filter diameter

Applications:

- Gas & Diesel Engines • Rotating Equipment
- Hydraulic Systems • Diesel Fuel Filtration
- For most spin-on filter applications

Pairs		Fits Spin-on Filter Diameters		Dimensions			
Part #	Qty.	Minimum	Maximum*	Height	Thickness	Arc (Max)	Weight
CT3.2PR	2-ea.	2.9 in (74 mm)	3.5 in (89 mm)	2.65 in (67 mm)	.34 in (8.6 mm)	360°	18 oz (.52 kg)
CT3.8PR	2-ea.	3.6 in (91 mm)	4.3 in (109 mm)	2.65 in (67 mm)	.35 in (8.9 mm)	360°	28 oz (.80 kg)
CT4.9PR	2-ea.	4.4 in (112 mm)	5.5 in (140 mm)	2.95 in (75 mm)	.36 in (9.1 mm)	360°	38 oz (1.08 kg)

XT for Cartridge Filters



Order part # based on outside diameter of filter housing

Applications:

- Rotating Equipment • Hydraulic Systems
- Gas & Diesel Engines • For most cartridge filters

Pairs		Fits Outside Housing Diameters		Dimensions			
Part #	Qty.	Minimum	Maximum*	Height: Faceplate/Endcap	Thickness: Faceplate/Endcap	Arc (Max)	Weight
XT4PR	2-ea.	3.8 in (96 mm)	4.8 in (122 mm)	2.7" (68mm)/3.24" (82mm)	.9" (23mm)/1.4" (36mm)	330°	7.0 lb (3.2 kg)
XT5PR	2-ea.	4.8 in (122 mm)	5.8 in (147 mm)	2.7" (68mm)/3.24" (82mm)	.9" (23mm)/1.4" (36mm)	340°	9.0 lb (4.1 kg)
XT6PR	2-ea.	5.8 in (147 mm)	6.8 in (173 mm)	2.7" (68mm)/3.24" (82mm)	.9" (23mm)/1.4" (36mm)	344°	11.0 lb (5.0 kg)
XT7PR	2-ea.	6.8 in (173 mm)	7.8 in (198 mm)	2.7" (68mm)/3.24" (82mm)	.9" (23mm)/1.4" (36mm)	348°	13.0 lb (5.9 kg)
XT8PR	2-ea.	7.8 in (198 mm)	8.8 in (224 mm)	2.7" (68mm)/3.24" (82mm)	.9" (23mm)/1.4" (36mm)	350°	15.0 lb (6.8 kg)

Operating Temperature Range: -40F to +302F (-40C to +150C) • Magnet Type: N42SH (High Temperature Nd-Fe-B Alloy) with Ni-Cu-Ni plating*Maximum size may be significantly less on Aluminum and Plastic Housings.

Ease of Installation: SNAP ON, SLIDE OFF, REUSE



1. Install two or more FilterMags on each spin-on filter opposite each other near the threaded end.
2. Reuse FilterMags by sliding them off the old filter and snapping them on a new one when the filter is changed.



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