

NORDBERG 7 CRUSHER CASE STUDY

97% reduction of particles $\geq 4\mu\text{m}$ enabled 50% gearbox life increase in only 70 hours.

Test Results Summary

	Without FilterMag	With Filtermag	Reduction
ISO 4406 Rating	25/22/16	20/18/13	
> 4 micron	912,192	26,666	97%
> 6 micron	139,356	3,264	98%
> 14 micron	341	98	71%

Rotrode Filter Spectroscopy (course metals up to 40 microns)

Iron	1,374 ppm	290 ppm	79%
Copper	243 ppm	138 ppm	43%
Lead	1,064 ppm	555 ppm	48%
Tin	587 ppm	428 ppm	27%

PQ Index	109	5	96%
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These results are averages from two separate Nordberg 7 Crusher evaluations.

Reduction in nonmagnetic materials is primarily due to a large reduction in hardened steel particles. Remove these and the life of all material they encounter can be greatly extended.

Removing these particles directly increases reliability and longevity by reducing wear. Wear reduction is easily measurable using the ISO 4406 test standard. See these results for yourself. Contact FilterMag and ask for an evaluation. You will be surprised how easy it is. More importantly, you'll be impressed by how much more life and reliability you can get from your process equipment.

If you're not crushing, you're not making money.

Reliability and equipment life are everything when it comes to crushers, but you already know that. What you may not know is how easy it can be to improve both.

Installing FilterMags onto hydraulic, compressor, or pump filters will keep your fluids cleaner, proven by reduced particle counts. Cleaner fluids mean less wear. Less wear means longer component life, lower maintenance costs, and higher reliability.

FilterMag's powerful, focused magnetic field captures and holds the most damaging wear causing particles that would normally pass right through standard filters. Sure, there are higher priced, more invasive ways to clean your fluids, but nothing is easier to install and use than FilterMag. Did we mention FilterMag has no ongoing costs after installation?

CT for Spin-on Filters



Applications:

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

Order part # based on oil filter diameter

Part #	Fits Spin-on Filter Diameters		Dimensions			
	Minimum	Maximum	Height	Thickness	Arc (Max)	Weight
CT3.2	2.9 in (74 mm)	3.5 in (89 mm)	2.65 in (67 mm)	.34 in (8.6 mm)	180°	9 oz (.26 kg)
CT3.8	3.6 in (91 mm)	4.2 in (107 mm)	2.65 in (67 mm)	.35 in (8.9 mm)	180°	14 oz (.40 kg)
CT4.9	4.4 in (112 mm)	5.5 in (140 mm)	2.95 in (75 mm)	.36 in (9.1 mm)	180°	19 oz (.54 kg)

XT for Fixed Cartridge Filters



Applications:

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

Order part # based on outside diameter of filter housing

Part#	Fits Outside Housing Diameters			Dimensions		
	Minimum	Maximum*	Arc (Max)	Weight	Height: Faceplate/Endcap	Thickness: Faceplate/Endcap
XT4	3.8 in (96 mm)	4.8 in (122 mm)	165°	3.5 lb	2.7" (68mm)/3.24" (82mm)	.9" (23mm)/1.4" (36mm)
XT5	4.8 in (122 mm)	5.8 in (147 mm)	170°	4.5 lb	2.7" (68mm)/3.24" (82mm)	.9" (23mm)/1.4" (36mm)
XT6	5.8 in (147 mm)	6.8 in (173 mm)	172°	5.5 lb	2.7" (68mm)/3.24" (82mm)	.9" (23mm)/1.4" (36mm)
XT7	6.8 in (173 mm)	7.8 in (198 mm)	174°	6.5 lb	2.7" (68mm)/3.24" (82mm)	.9" (23mm)/1.4" (36mm)
XT8	7.8 in (198 mm)	8.8 in (224 mm)	175°	7.5 lb.	2.7" (68mm)/3.24" (82mm)	.9" (23mm)/1.4" (36mm)

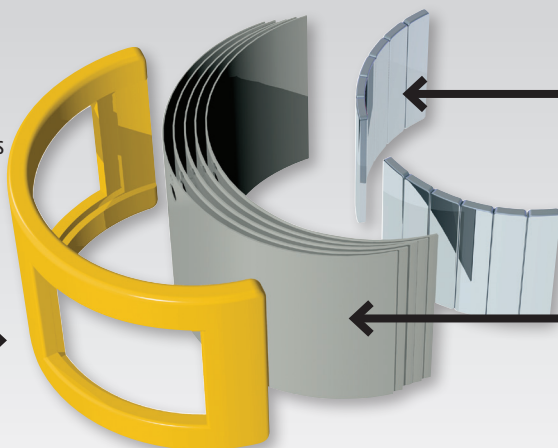
Operating Temperature Range: -40F to +302F (-40C to +150C) • Magnet Type: N42SH (High Temperature Nd-Fe-B alloy) with Ni-Cu-Ni plating

*Maximum size may be significantly less on Aluminum and Plastic Housings.

FilterMag CT: Powerful—Focused—Magnetic Field Technology

1. RUGGED FLEXIBLE FRAME

encases and protects the elements of a FilterMag while providing enough flexibility to fit a range of filter diameters. Our proprietary design and materials are rated for temperatures from -40°F to +300°F.



2. POWERFUL, HEAT-RESISTANT NEODYMIUM ALLOY

MAGNETS are engineered to focus a magnetic field inside your filter. 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.

3. PATENTED FLUXCON™ SHIELDING TECHNOLOGY stops magnetic flux which could damage electronic components. Not even a paper clip will stick to the outside of a FilterMag. Our FluxCon™ system also redirects a portion of that magnetic power back into the filter to increase filtration efficiency.

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