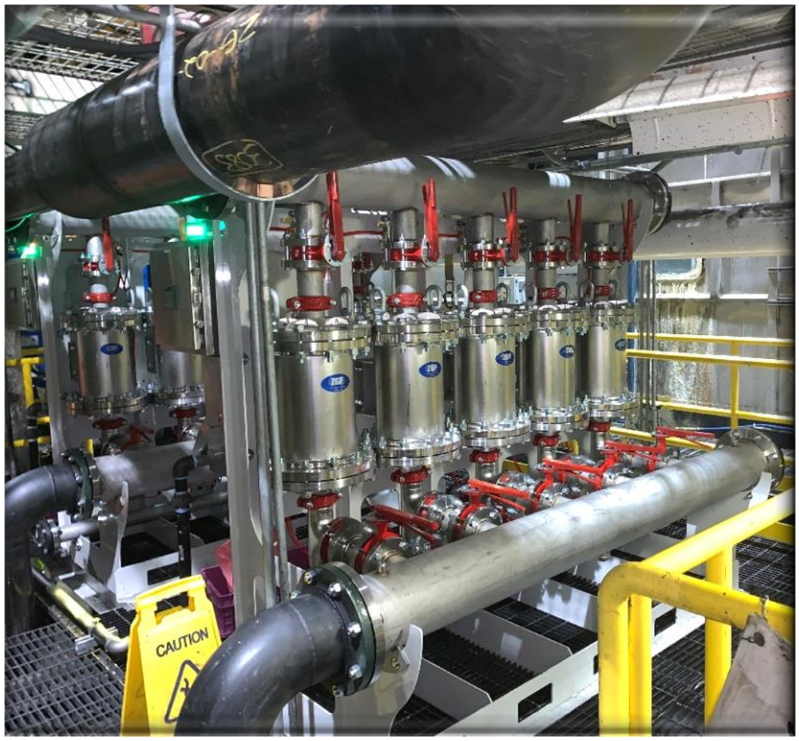
ZGF Maggie
Product Data Sheet

The Most Advanced, Automatic, Non-Disposable Liquid Filtration System

ZERO GRAVITY FILTERS

Maggie is the Premier Magnetic Separation Technology for Removal of Ferrous Contaminants & Particles
Performance, Simplicity, Consistency, Reliability, and the Lowest Cost of Ownership



ZGF Maggie technology is a fully automatic, in-line, high intensity, self-cleaning magnetic separator. The innovative and patented Maggie is the best available technology for separating magnetic contaminants from process fluids. **Maggie removes most ferrous particles 5 micron and larger and will also remove sub-micron particles without damaging critical process fluids** such as machining coolants, cleaning / degreasing solutions and polymer quench fluids.

ZGF's Maggie is an effective, efficient and environmentally responsible solution that can optimize life-cycle cost and minimize the environmental footprint of industrial operations.

Maggie has the lowest 10-year lifecycle cost in the industry. The annual total cost for a 250 gpm system is <$5,000 / year, including Annualized Capital Cost and Refurbishment after 10 years.

- ✓ Spare Parts: < $150 per
- ✓ Operating Costs (power & air): < $5 per year
- ✓ Maintenance: < $200 per year
- ✓ Annual O & M cost: < $350 per year

Our patented Maggie magnetic separation systems are the ultimate in filtration technology, providing cost, quality, health & safety, and environmental benefits. Maggie is the Premier Magnetic Separation Technology for the Capture and Removal of Ferrous Contaminants and Particles from Liquids.

ZGF provides a full range of Maggie systems to meet all your requirements.

Model	Product	Flow Rate (gpm)		Inlet / Outlet / Purge
		Water-based	Oil	
MG100	Maggie 1-core	12	8	0.75"/ 0.75"/ 0.75"
MG300	Maggie 3-core	35	25	1"/ 1"/ 1"
MG600	Maggie 6-core	70	50	1.25"/ 1.25"/ 1.25"
MG1200	Maggie 12-core	125	85	2"/ 2"/ 1.5"
MG2600	Maggie 26-core	250	175	3"/ 3"/ 1.5"
Manifold Arrangement	MG1200 or MG2600	unlimited	unlimited	user determined
Mini Smart Drum	Fluid Recovery	Batch Process		1" / 1"
Smart Drum	Fluid Recovery	Batch Process		1.5"/ 1.5"
Smart Drum PLUS	Fluid Recovery	Batch Process		1.5"/ 1.5"

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MAGGIE FEATURE	YOUR BENEFIT
High intensity magnets generating >10,000 gauss	Capable of capturing sub-micron particles that pass through conventional filters, Lower operating costs
Selective contaminant removal	Will not strip any components from the process fluid, consistent process performance & reliability
Consistent and reliable performance	Improved quality and lower operating costs
Full 1-year warranty on Maggie assembly	Reduced operating and maintenance costs
Fully automatic, self-cleaning operation	Reduced maintenance and operating costs, Labor is now available for other value-added plant services
Pressure fed, zero by-pass design	Better particle capture efficiency – Improved product finish and less wear to machine components
In-line design	Eliminates need for additional pumps, motors and controls reducing maintenance and operating costs
Compact design	Saves valuable floor space. Four times smaller than conventional media-based filtration systems
Virtually No Maintenance	Improved Health & Safety due to reduced Worker Exposure. Reduced operating & maintenance costs.
Efficient and environmentally responsible design, Low energy requirement	Creates no additional waste (i.e. no disposable media, no packaging). It uses less energy than a light bulb.
Secondary batch processing system (Smart Drum)	Allows for recovery of valuable process fluids and reduces waste. Reduced operating costs.
Permanent media, stainless steel body and cores	Media-free, Replacement not required, No waste, No disposal, Improved Productivity
Minimal moving parts through simplicity of design	Increased reliability, Reduced maintenance and operating costs

Maggie – Filter Mode

- Dirty fluid flows into Maggie at the top
- Clean fluid is discharged through the bottom / outlet port
- Purge port closed
- Magnetic shuttle assembly is in the lower position

Maggie – Purge Mode

- Dirty fluid flows into Maggie at the top
- Solids laden fluid exits through the bottom / purge port
- Outlet port closed
- Magnetic shuttle assembly is in the upper position