

Ronningen-Petter®

Filtration solutions for metal working fluids.

MECHANICALLY CLEANED FILTER SOLUTION

✓ Eliminate Consumable Costs

- Eliminate the purchase of bags/cartridges
- Reduce solid waste
- Eliminate inventory
- Reduce the amount of purchase orders

✓ Improve Efficiency

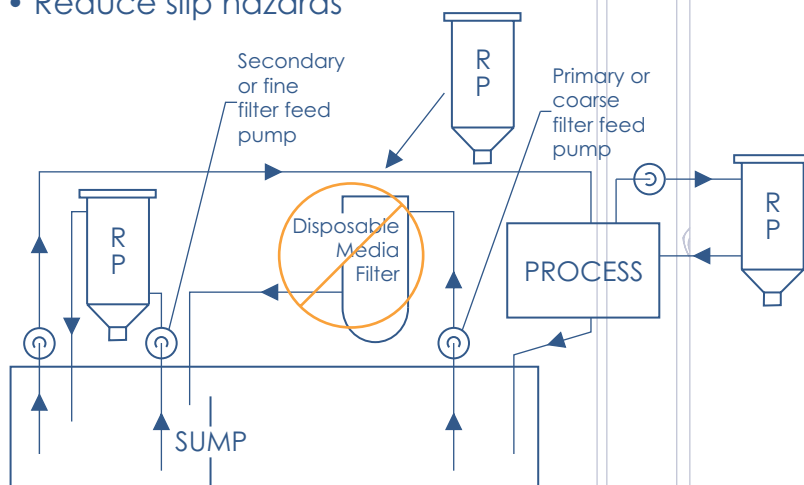
- Reduce direct labor cost
- Reduce downtime
24/7 continuous operation
- Maintain integrity of tooling
permanent stainless steel media
- Remove human interaction
every function controllable

✓ Reduce Environmental Impact

- Concentrate discharge
- Reclaim chips/metal as scrap
recycle vs. landfill
- Reduce hazardous waste

✓ Reduce Operator Interaction

- Reduce direct contact with fluid
- Reduce slip hazards



 = Mechanically Cleaned Filter with Permanent Media

ROI in 88 days covering 3 CNC's

METAL WORKING FLUIDS

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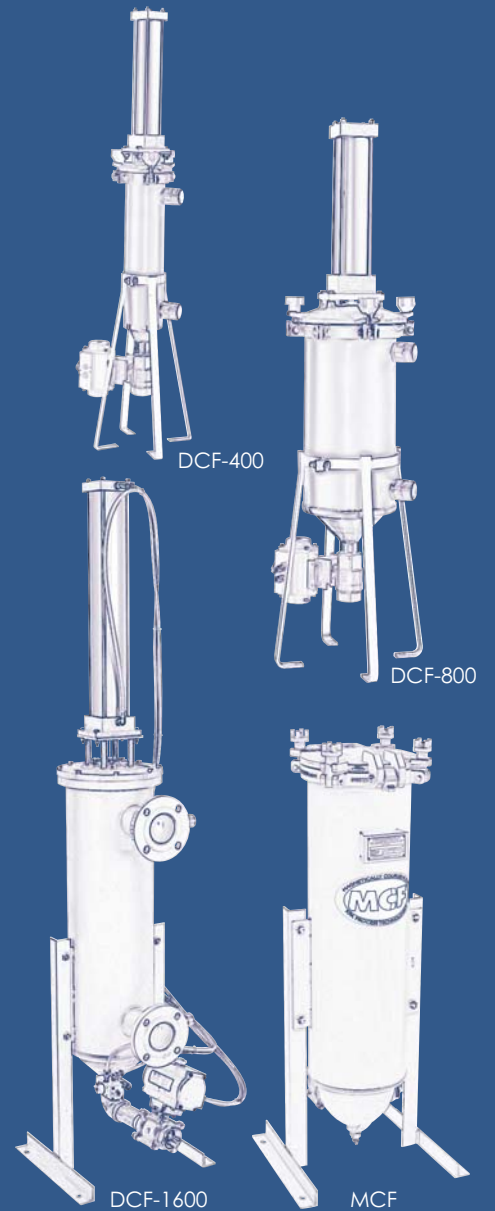
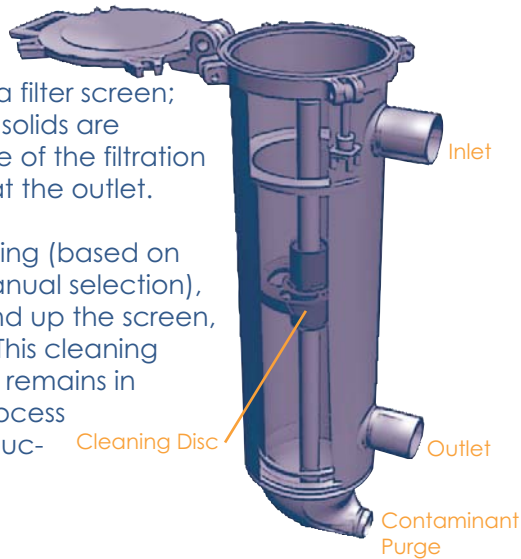
In an effort to reduce the costs associated with consumable and replaceable media, a large machining center explored the possibilities of clean-in-place filter technology. The idea was simple - reduce bag filter usage, landfill waste and downtime. Upon installation, the filter impacted the process immediately. The permanent media maintained a high level of quality and concentrated the waste stream. The continuously operated, fully automatic filter also improved efficiency and reduced human interaction.

The application was an aluminum machining center that was currently using two bag filter housings. The filters were responsible for removing aluminum chips and fines from the coolant before it returned to the machining center.

Mechanically Cleaned Filters

Ronningen-Petter mechanically cleaned filters are based on a simple concept: A cylindrical stainless steel housing contains a filter screen; unfiltered liquids enter the inlet; solids are deposited on the interior surface of the filtration media; and filtered liquid exits at the outlet.

When the media requires cleaning (based on time, pressure differential, or manual selection), a cleaning disc travels down and up the screen, removing concentrated solids. This cleaning process happens while the filter remains in service, thereby maintaining process efficiency and dramatically reducing loss of valuable product



ROI Calculator

	Flow (gpm)										ROI (in months)			
	20	40	60	80	100	120	140	160	180	200	DCF-400	DCF-800	DCF-1600	MCF
2	400	400	800								8	12		
3	400	400	800								5	9		
4	400	400	800	1600							4	6	12	
5	400	400	800	1600	1600	1600	1600	1600	1600	1600	3	5	10	
6	400	400	800	1600	1600	1600	1600	1600	1600	1600	3	4	9	11
8	800	800	800	1600 MCF	1600 MCF	1600 MCF	1600 MCF	1600 MCF	1600 MCF	1600 MCF	2	3	7	8
10	1600	1600 MCF	1600 MCF	1600 MCF	1600 MCF	1600 MCF	1600 MCF	1600 MCF	1600 MCF	1600 MCF	2	2	5	7
12	1600 MCF	1600 MCF	1600 MCF	1600 MCF	1600 MCF	1600 MCF	1600 MCF	1600 MCF	1600 MCF	1600 MCF	1	2	4	6

ROI values are based on a 5 day work week. Divide ROI values by 1.4 for a 7 day work week.

For more information on how these filters can save you money, how they work and how to contact us, please visit www.rpaprocess.com/coolantroi.

RPA Process Technologies
9151 Shaver Road
Portage, Michigan, USA 49024
Toll Free: 800 656 3344