

Individual Machine Tool Stand Alone Filters



Automatic Operation

Simple to operate and maintain

Rugged, reliable stainless steel
wedgewire screens

Permanent or disposable
media

Up to 450 GPM

Small footprint

Can be portable - moves from
machine tool to machine tool



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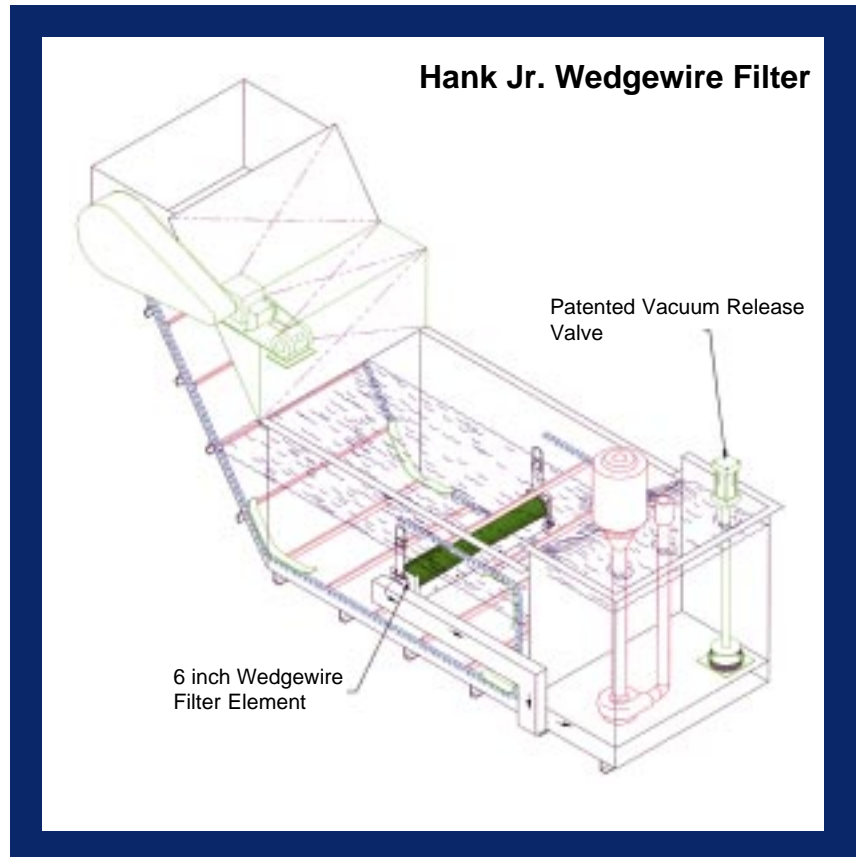
Basic Flow through a Stand Alone Unit during the Filter Cycle

1. Contaminated coolant enters the dirty tank and is pulled through the filter septum and the suction box by the pump.
2. The clean coolant is then sent directly out to the machine tool.
3. Excess coolant drawn by the pump is returned to the clean tank reservoir to keep it full and overflowing.

Sequence of Events during an Index Cycle

1. The filter senses that the vacuum or time on the filter septum has reached the pre-set point and signals the filter to index.
2. Vacuum Release Valve opens, allowing coolant from the clean tank to enter the suction box and break the vacuum, releasing the cake for easy removal.
3. The coolant is now drawn from the clean tank to provide continuous flow to the machine tools.
4. After a dwell time, the filter area is restored.
5. After the filter area has been restored, the Vacuum Release Valve closes and flow through the screen resumes as the filter enters a new filter cycle.

The sequence maintains a porous cake allowing in-depth filtration and extended cycles.



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