Microscreen Suction Indexing (SID) Filters

Automatic Operation

Controlled microscreen hole diameter for finer filtration

Disk filter allows more filter area

Interchangeable with any Henry element

Module design for inspection or maintenance on-the-fly

Permanent stainless steel and high alloy microscreens

Spring-loaded radius arm allows large objects to pass without jamming conveyors

Easy adjustment - minimal maintenance

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Microscreen Suction Indexing Drum (SID) Filters Operation

Basic Flow through a SID Filter during a Filter Cycle

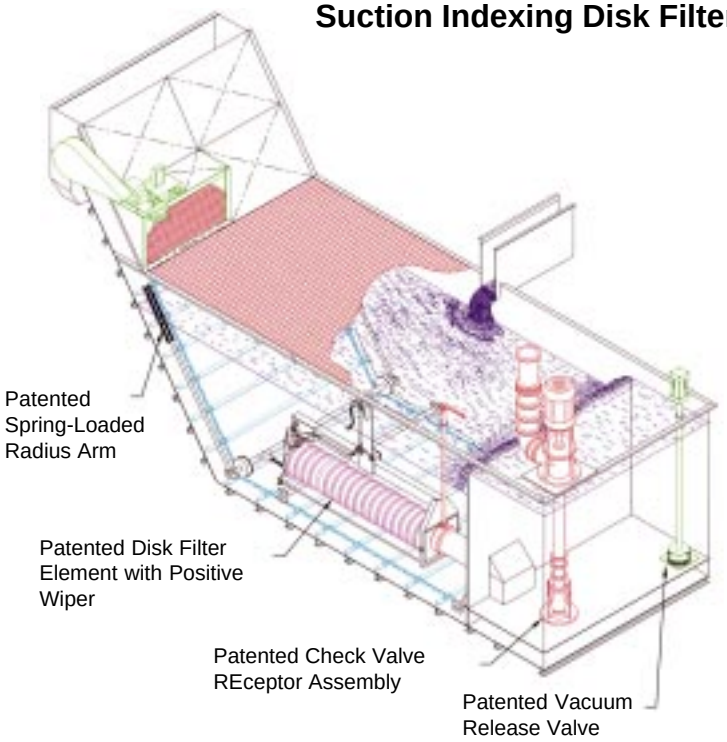
1. Contaminated coolant enters the dirty tank and is pulled through the filter drum. It then enters the suction bulkhead and goes into the suction box.
2. The pump draws clean coolant from the suction box and sends it out to the machine tool.
3. Excess coolant drawn by the pump is returned to the clean 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 element 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 reservoir to provide continuous flow to the machine tools.
4. After a dwell time, the filter drum rotates a pre-set number of strokes, removing chips with a positive wiper.
5. After the drum has rotated, the Vacuum Release Valve closes and flow through the screen resumes as the filter enters a new filter cycle.

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

Microscreen
Suction Indexing Disk Filter



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