

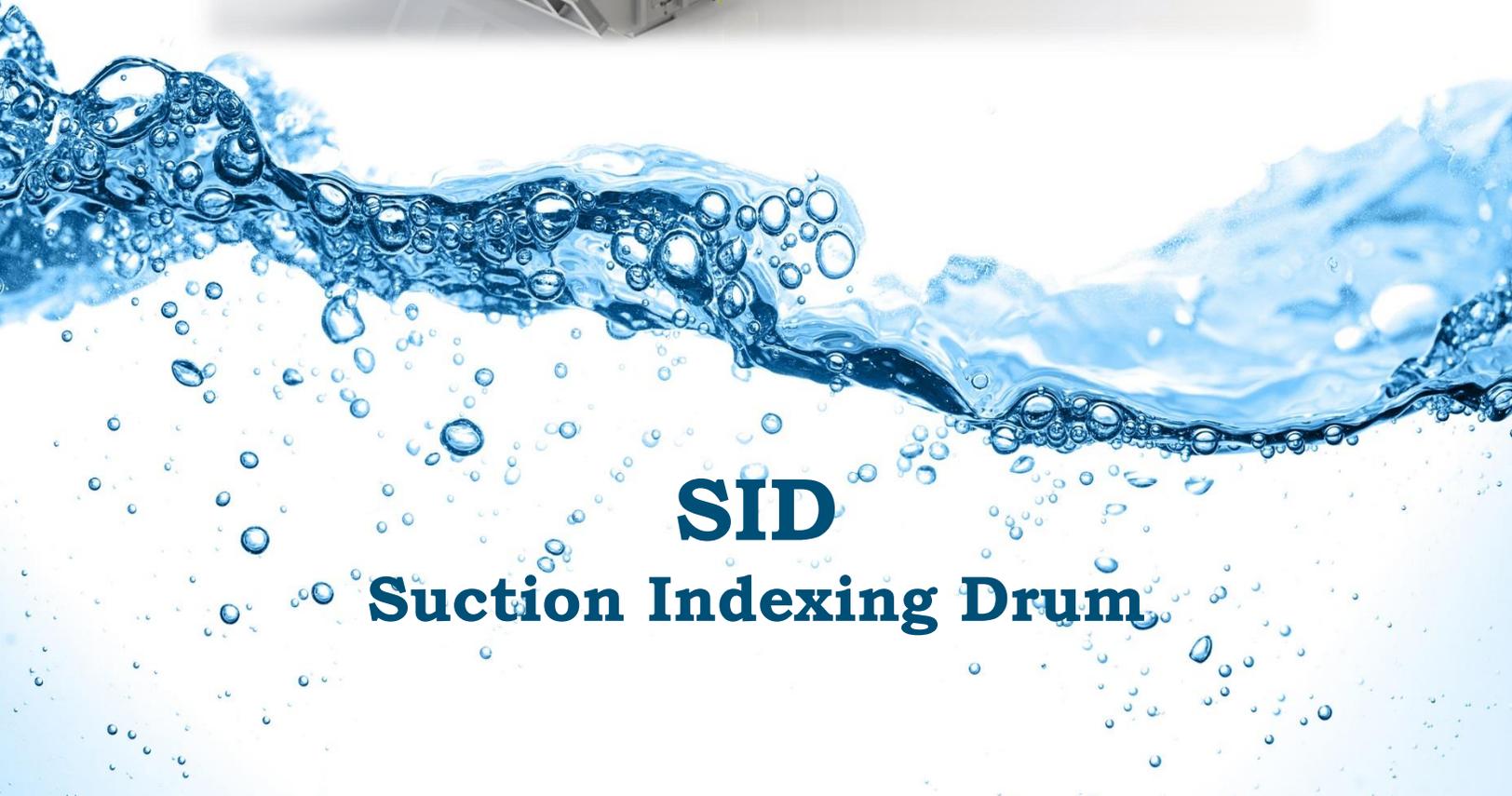
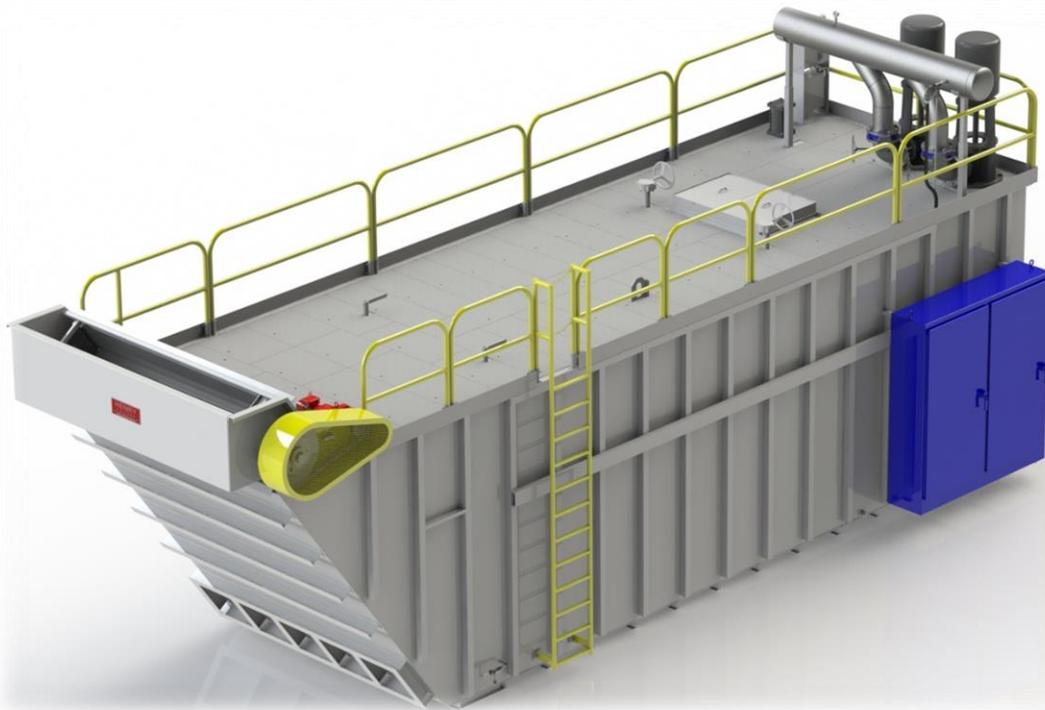
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HENRY FILTERS  
**Henry**®



**SID**  
**Suction Indexing Drum**

# Superior Filtration

## Technology

The Henry SID filtration system, fitted with the "lifetime" 304 stainless steel wedge wire drum modules, provides excellent coolant clarity using permanent media. Many applications using SID filtration include machining and grinding of steel, iron, aluminum, titanium and other materials. The SID filter allows the filter module(s) to be removed for inspection or maintenance without draining the tank. All filters also include a full width bottom drag conveyor, which allows for the removal of all settled chips and fines.



## Process

Contaminated fluid enters the rear of the SID filter (dirty tank) where heavy particulate settles to the full width drag conveyor. The drag conveyor can be running continuously or intermittently to remove chips from the filter tank. Intermittent operation causes the least amount of wear and allows for optimal drying of chips/ sludge. The fine particulate is drawn to the suspended SID filter modules, by the suction of the filter/ system pump, and sent back to the machines. The filter/ system pump also provides a small portion of fluid to the filter's clean tank to keep it full and overflowing. This provides clean fluid to the process during filter indexing.

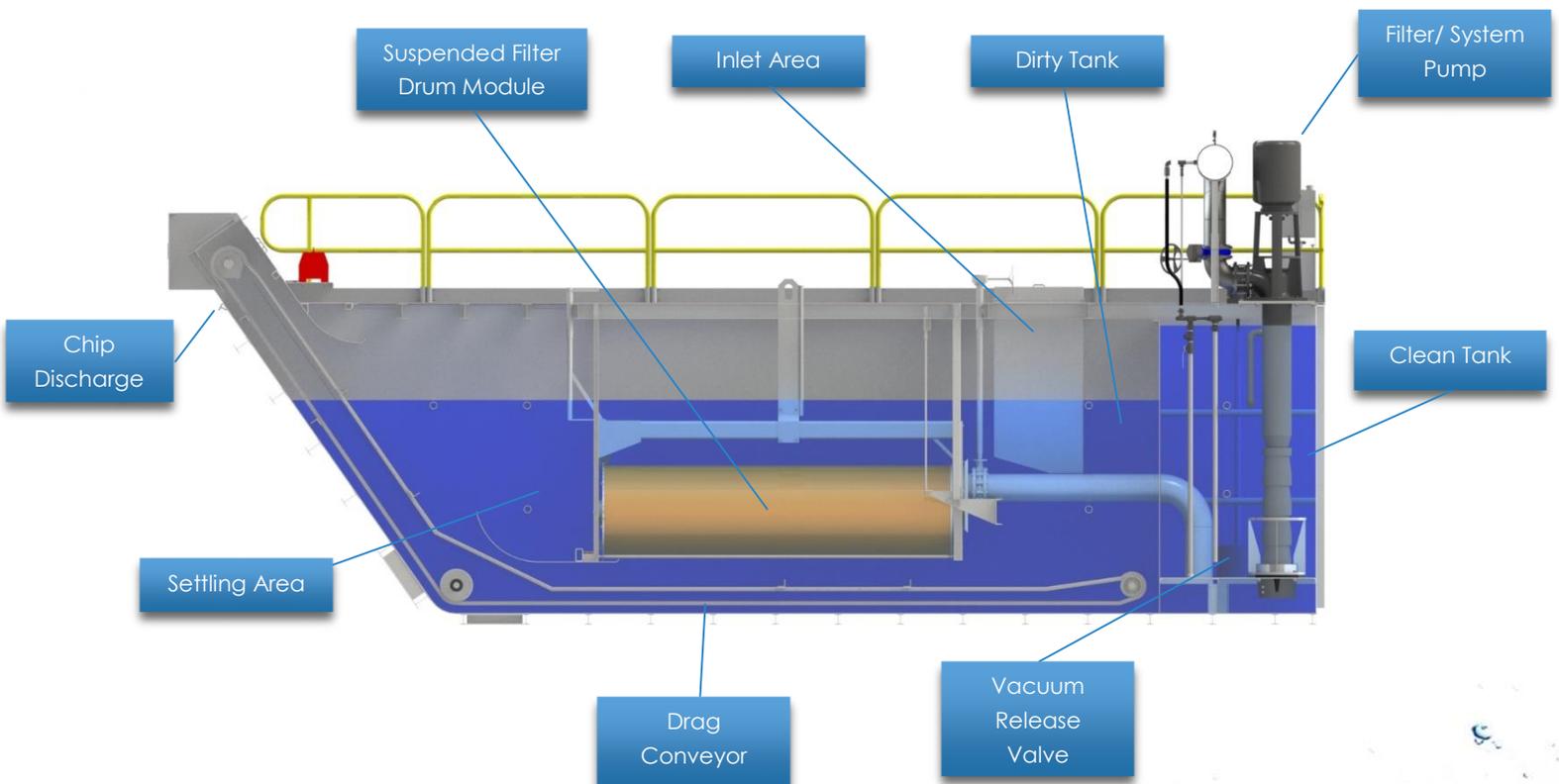
Capacity	
<b>Flowrate</b>	200 - 10000 GPM
<b>Filtration Area</b>	30- 600 Sq. Ft. per Unit (Many standard sizes available, all fully customizable.)
Applications	
<b>Metal Cutting Industry</b> Filtration of Water and Oil Based Coolants Steel and Stainless Steel Machining (Stringy Chips that generate balls and bundles)	



# SID Filtration

## Index Cycle

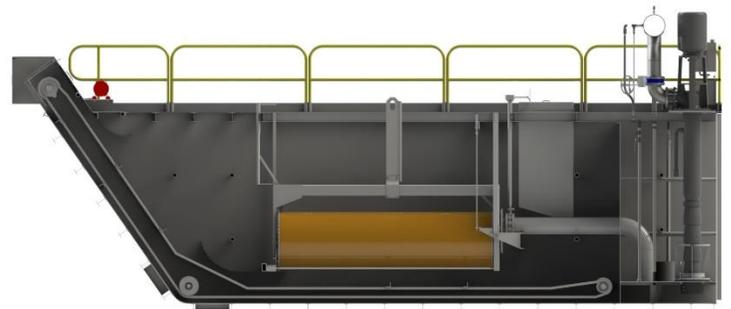
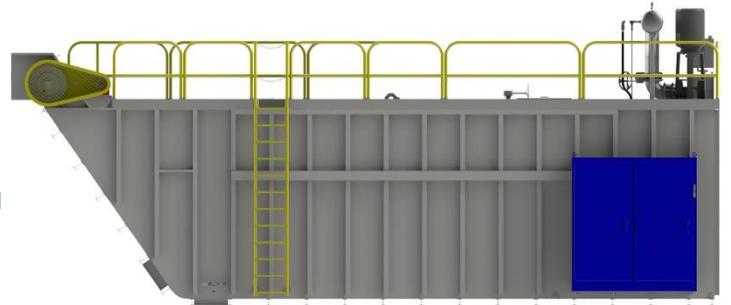
1. As the filter operates, the fine particulate is drawn to the suspended SID filter drum modules. A filter cake is formed on the outside surface of the SID modules.
2. As the filter cake increases, the flow to the filter/system pump is restricted, causing the filter to index. This is sensed by a vacuum switch (resistance to flow) or a timer.
3. The vacuum release valve opens, allowing the filter/system pump to draw from the clean tank, while maintaining a continuous flow to the process
4. With the pump now drawing from the clean tank the vacuum on the SID modules is released
5. The SID modules are indexed (rotated) a short distance clearing a section of the filter surface
6. After indexing of the filter drum modules the vacuum release valve closes and the filter goes back to normal operation.



# SID

## System Benefits

- Automatic operation
- Permanent stainless wedge wire filter drum modules
- No disposable media required on most applications-  
can be added on fine grinding applications
- Modular design for inspection or maintenance
- Suspended filter modules that can be easily removed
- Full width bottom tank drag conveyor  
(intermittent or continuous)
- Easy adjustment for minimal maintenance
- Cylindrical filter module allows less filter tank for more  
filter area than conventional bottom screen style filters



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