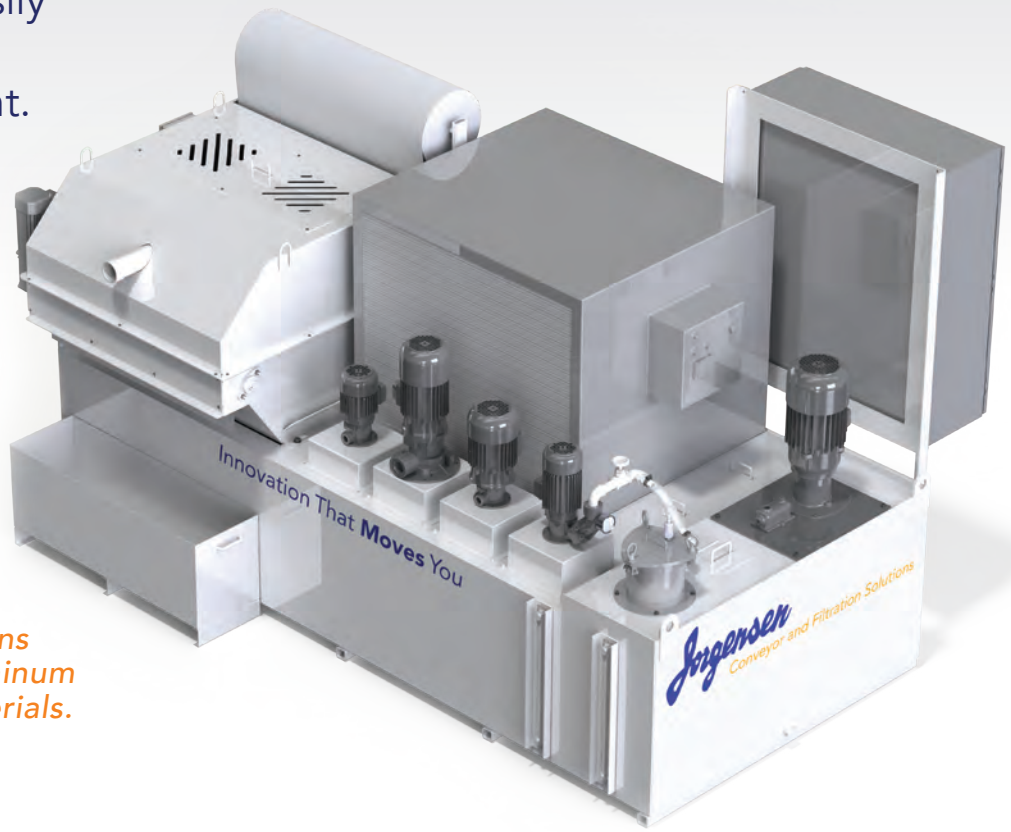
Gravity Roll Media Filtration

Utilized in applications where filtration of fine particulate is required. A very modular gravity roll media system allowing a unit to be easily configured to each application's requirement.



Efficiently removes fine chips and grinding sludge to achieve coolant clarity down to 10 microns or less. Provides positive filtration in a variety of difficult applications from cast iron, steel, and aluminum to composite and plastic materials.

FEATURES

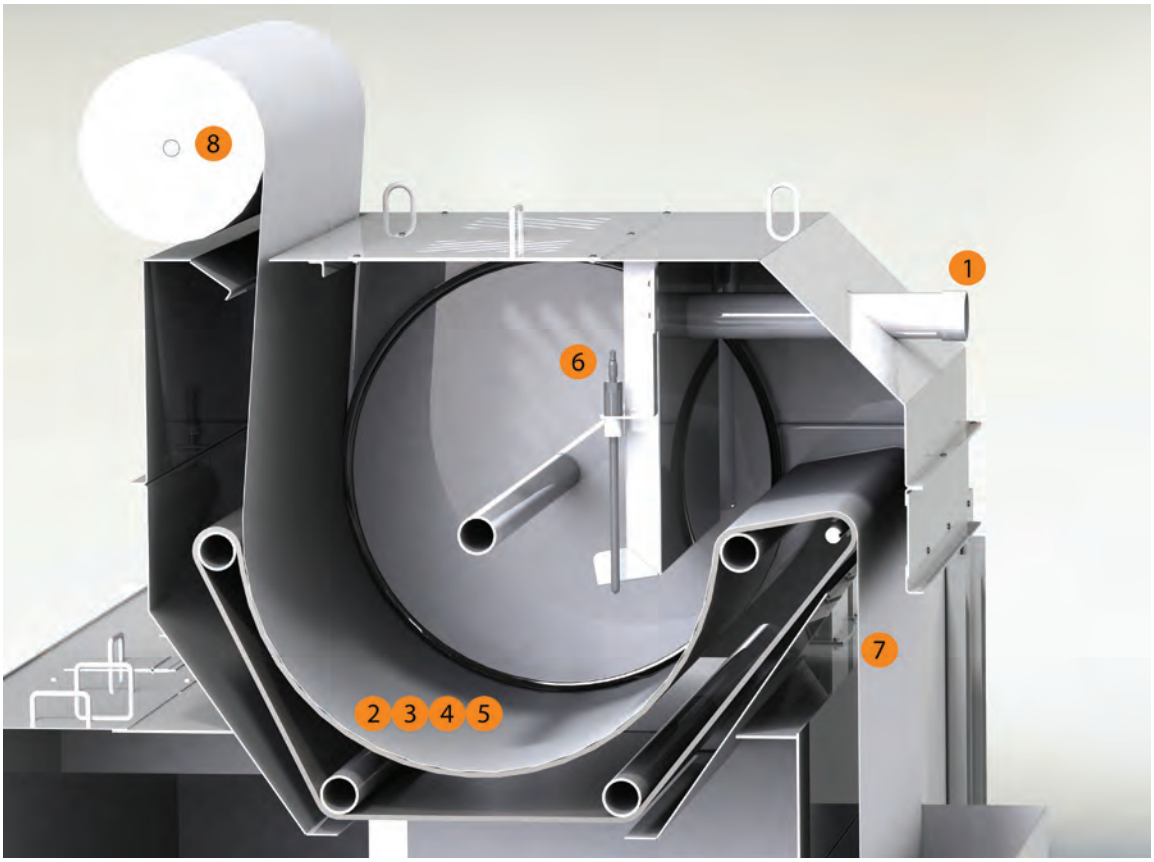
- Fabricated with modular filter and tank components to meet your changing filtration requirements
- Filter Sizes 30 GPM, 60 GPM & 90 GPM
- Standard Tank Sizes* (Clean & Ultra-Clean Version)
  30 GPM - 1250L & 1550L
  60 GPM - 1675L & 2025L
  90 GPM - 2040L & 2415L
  **The tank size is based on volume request and amount of components required - other sizes can be designed upon request.*
- Uses a variety of different disposable cloth medias, which are selected based on the specific application
- Standard Automatic Media Advance
- "Low Media Roll" detection switch to provide pre-warning to machine
- "No media" alarm sensor to provide fault condition to machine

BENEFITS

- Fine filtration to 10 microns or less
- Positive seal design used to eliminate fines migration
- Deep filter cakes for efficient cost saving coolant use
- Can be mounted to existing coolant tanks
- 30 GPM has low profile tank for grinding applications
- Media Tray included

APPLICATIONS

- Coolant Filtration
- Central Systems
- Oil Filtration
- Water Filtration
- Fluid Filtration



HOW IT WORKS

1. Dirty coolant is either pumped from the machine or gravity flows to the inlet of the Gravity Media Filter, dependent on size.
2. After entering the inlet, dirty coolant is directed to a sealed chamber inside the filter where it is allowed to puddle while it filters through the media.
3. Particulate remains on the surface of the media after the coolant has filtered through and drained into the clean tank below the filter.
4. As particulate builds on the media, it creates a cake or film on top the media, which further enhances the filtration level.
5. As the cake builds, the coolant percolation rate through the media will gradually decrease, increasing the coolant level inside the filter chamber.
6. The rising coolant level eventually contacts the liquid level sensor which initiates the paper indexing cycle.
7. The paper index gearmotor turns on for a set time period, cycles the dirty media out of the chamber area and introduces new, clean media into the chamber area, which drops the coolant level within the chamber.
8. With new media now in the chamber, the filtering and index process starts over and repeats.

OPTIONS

- Options to control or interface with pumps and other auxiliary equipment
- High pressure coolant system
- Tramp oil skimmers
- Low profile tanks available on all filter sizes for grinding applications
- Coolant chillers/heat exchangers
- Tank autofill plumbing assembly
- Various electronic sensors including liquid level monitoring, coolant temperature, etc.
- Full stainless-steel option available

The flexibility of Jorgensen's modular Gravity Roll Media System insures a cost effective solution for many challenging filtration applications.

Jorgensen Conveyor and Filtration Solutions

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