

CHIP-DISC FILTRATION (CDF)

PATENTED DISC FILTRATION DESIGN

Our innovative design provides a direct coolant flow path into the coolant tank reservoir, and filters a wide variety of materials both in water and oil based coolants.

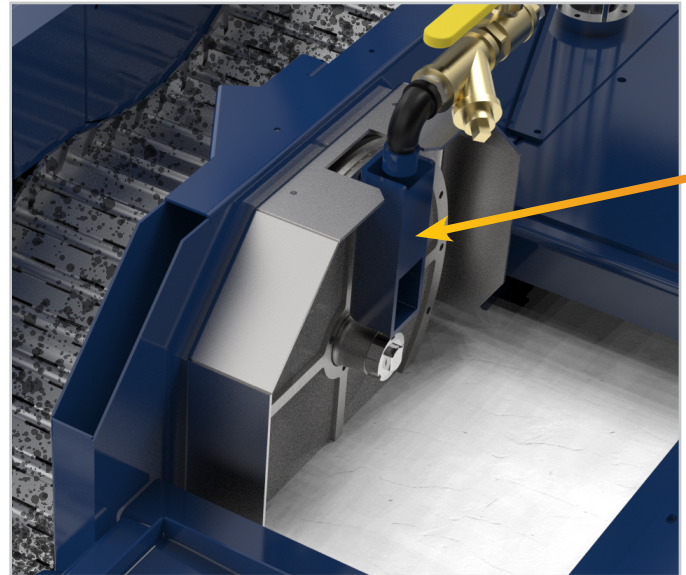
DUAL STAGE FILTRATION WITH A SINGLE BELT



Our CDF technology achieves high levels of filtration without two separate belts. Our patented disc design provides a direct coolant flow path into the coolant reservoir and can filter a wide variety of materials, both in water and oil based coolant, down to 25 microns nominal, using a hinge OR a scraper belt.

Other drum filter designs use a hinge belt AND a scraper belt for fines.

CONTINUOUS SELF CLEANING OPERATION



Self-cleaning permanent media with easy-to-access spray nozzles provide a continuous backwash spray that removes fines and chips, keeping the disc free from gunky build-up. No outside source such as air or steam is used.

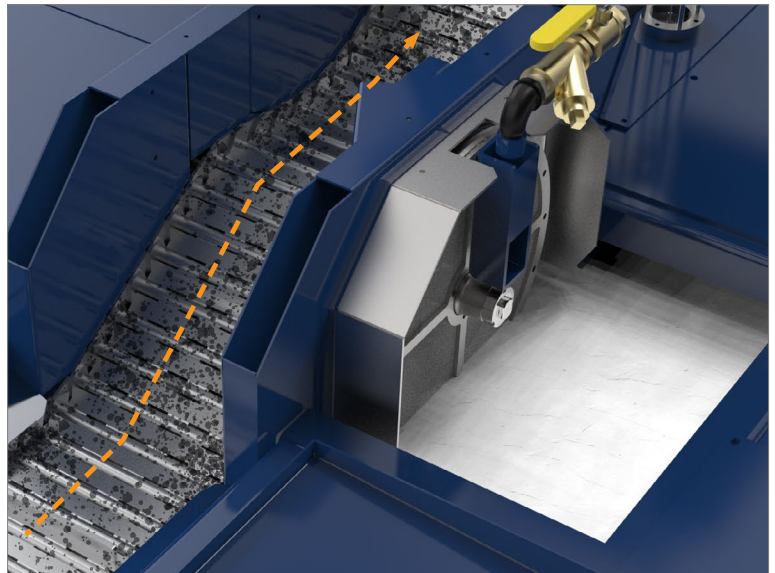
Drum filters typically have nozzles mounted on a pipe inside the drum which makes them difficult to access.

CHIP-DISC FILTRATION: HOW IT WORKS

COARSE CHIP REMOVAL

The hinge (or scraper) belt collects larger chips and particles for discharge into the chip hopper.

Removing coarse chips before they reach disc filter keeps them from bundling and jamming the system, which fosters extremely efficient fine particle filtration.



FINE PARTICLE FILTRATION

- 1 Small particles that escape the belt naturally migrate with the coolant flow to the rotating disc filter.
- 2 There, particles are collected and the cleaned coolant flows back into your tank. The collected particles rotate with the disc filter and are lifted out of the coolant, towards the backwash spray.
- 3 There, the particles are blasted onto the belt with a backwash spray and removed along with the coarse chips.

