

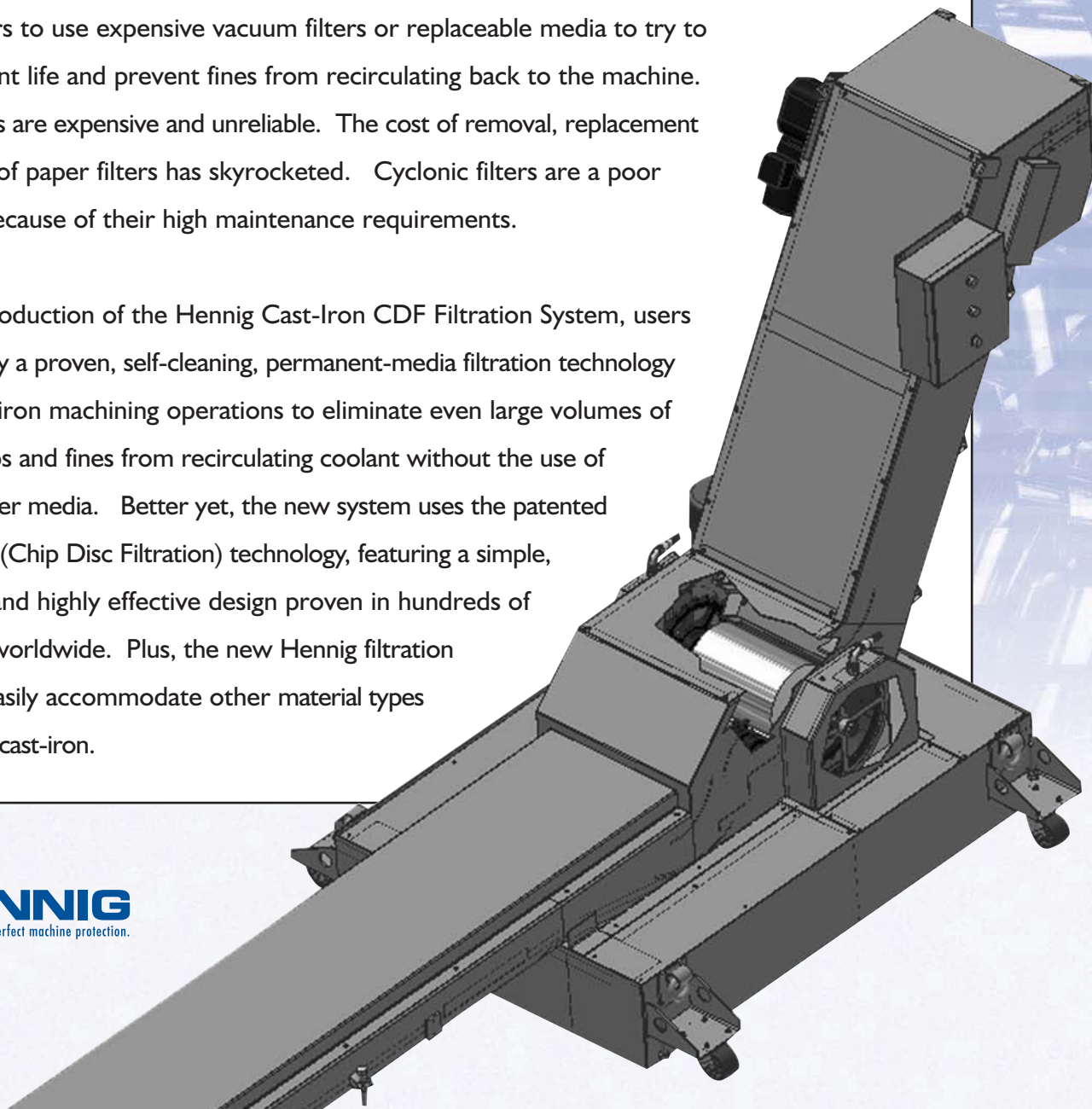
Hennig Cast-Iron CDF Filtration System

New Hennig Cast Iron CDF Filtration System makes efficient, economical filtration for cast-iron machining operations as easy as 1...2...3.

Until now, there's simply never been a reliable, economical and effective way to filter cast-iron chips and 'fines' from coolant. Cast-iron fines are notoriously hard to remove, requiring manufacturers to use expensive vacuum filters or replaceable media to try to extend coolant life and prevent fines from recirculating back to the machine. Vacuum filters are expensive and unreliable. The cost of removal, replacement and disposal of paper filters has skyrocketed. Cyclonic filters are a poor alternative because of their high maintenance requirements.

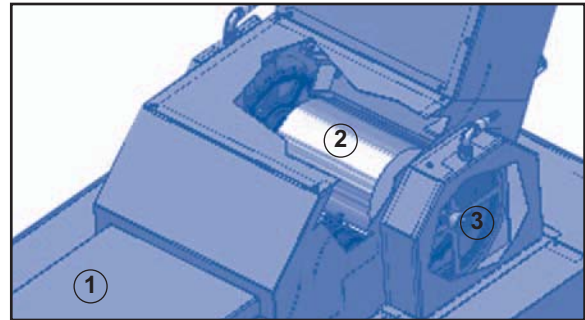
With the introduction of the Hennig Cast-Iron CDF Filtration System, users now can apply a proven, self-cleaning, permanent-media filtration technology to their cast-iron machining operations to eliminate even large volumes of cast-iron chips and fines from recirculating coolant without the use of disposable filter media. Better yet, the new system uses the patented Hennig CDF (Chip Disc Filtration) technology, featuring a simple, economical, and highly effective design proven in hundreds of installations worldwide. Plus, the new Hennig filtration system can easily accommodate other material types in addition to cast-iron.

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Compare the Hennig Cast-Iron CDF Filtration System with any other competitive product used for cast-iron applications:

- **Lower Cost:** Hennig eliminates the hazardous waste disposal costs of paper media, and greatly extends the useful life of the coolant by filtering fines as small as 25 microns before recirculating the coolant back to the machine. In addition, the Hennig system can cost as much as 50% less than the vacuum systems often used for the job.
- **Less Downtime:** Poor filtration can play havoc with machine tool performance downstream. The Hennig system ensures that recirculated coolant is ultra-clean and free of the cast-iron fines that can quickly clog coolant supply lines and cause machines to go down for long and expensive periods.
- **Easier Maintenance:** The Hennig CDF technology is renowned for simplicity and ease of maintenance. The filter media discs are made of rugged stainless steel mesh which are much more tear and puncture resistant than the nylon mesh drums of other systems, and they can be removed or replaced in 10 minutes or less if required. In addition, improved filtration means that preventive maintenance required to clean out the coolant tank reservoir is far less frequent than with competitive products.
- **Faster Payback:** The Hennig system pays you back faster too, since it costs less and works better at reducing disposal and machine downtime costs. In many applications, 100% payback is a matter of just a few months.



Here's how it works, in three easy stages.

Stage 1: Dirty coolant flows into the conveyor trough where large chips and particles settle out and are removed by the scraper belt, which continuously transports the material up the conveyor incline and dumps them in the chip hopper.

Stage 2: Smaller particles in solution are collected by a rotating magnetic drum, which indexes against a stainless steel blade that scrapes the particles off the drum. Once enough particles have collected to form a heavy sludge, the sludge drops onto the dry chip conveyor incline to be dragged along with the larger chips and fines, into the chip hopper.

Stage 3: Smaller particles that escape the magnetic field of the drum naturally migrate with the coolant flow toward Hennig's disc filter media, which uses a micron weave stainless steel mesh screen to intercept particles as small as 25 microns. As this filtration disc rotates past the 12:00 position, a continuous backwash spray of clean coolant blasts the particles that have been collected on the disc towards the rotating magnetic drum, where they magnetically adhere and are scraped off as sludge.

As a result, only ultra-clean coolant is allowed to flow through the screens in the third stage to the clean coolant reservoir, where it is recirculated back to the machine tool or used in the unit's self-cleaning spray cycle.

The end result of this simple, 1-2-3 process is the first truly cost-efficient system for effectively removing cast-iron chips and fines from coolant. End users now can take considerable cost out of their cast-iron machining processes, and improve workpiece quality, with a unit that will pay for itself in a just a matter of months.

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