

# EcoFilter®

With Patent-Pending CleanCleaT® Technology

**An innovative two stage  
chip removal and coolant  
filtration design!**



The **EcoFilter®** is the first competitively priced conveyor and filtration system for all levels of machine tools.

## FEATURES

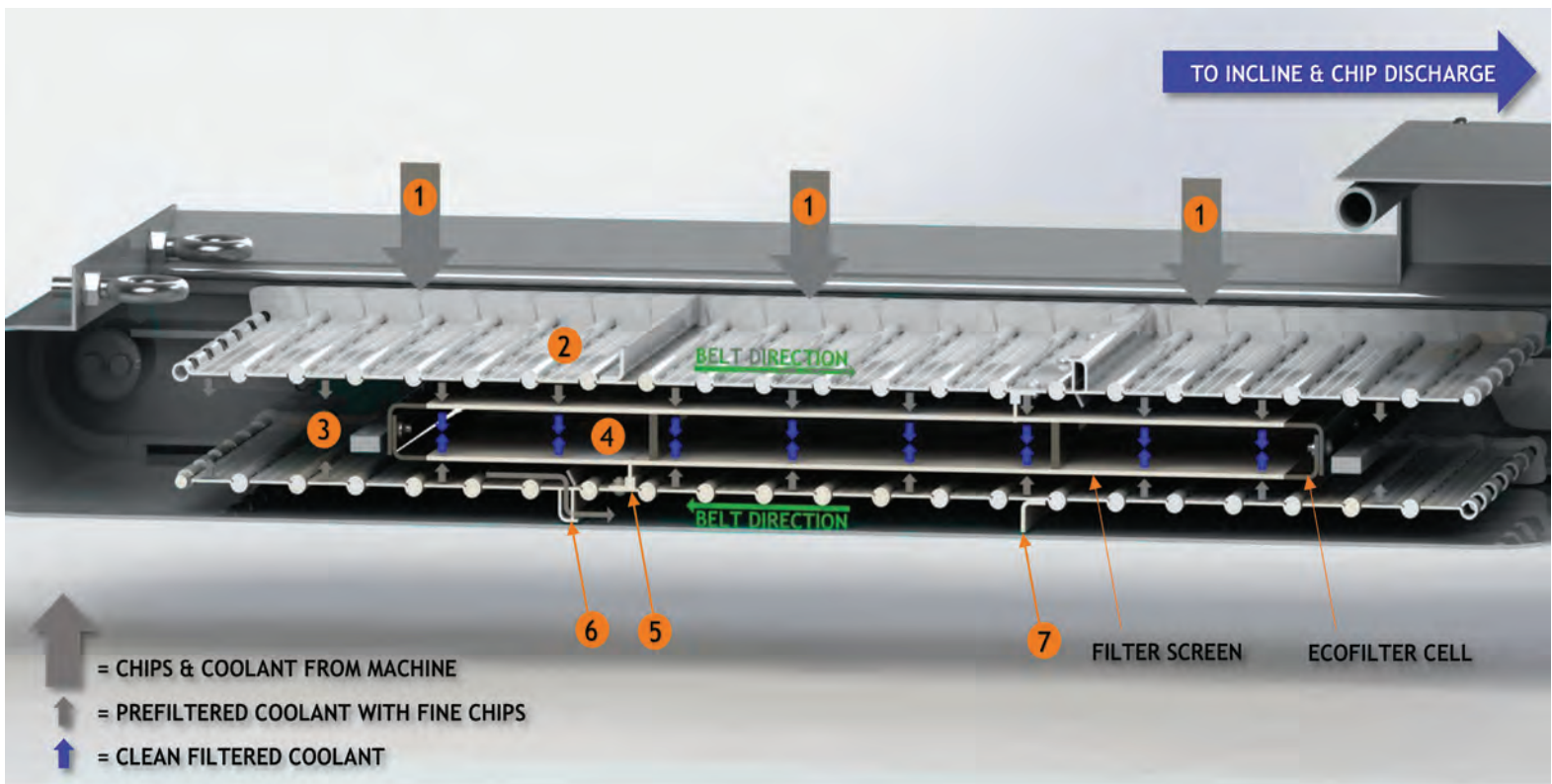
- Primary chip removal via hinged belt or scraper belt conveyor
- Secondary fine chip removal via internal filter cell(s) located between the primary conveyor belt
- Filter cells are easily removable for periodic preventive maintenance (see note below)
- Accommodates a broad coolant flow rate range via flexible filter cell sizing and media options
- Self-cleaning system – no consumables
- Fits existing small to midsize machining center and lathe envelopes easily
- “EcoFilter®-Ready” conveyor is field-convertible to EcoFilter® with simple field retrofit kit

*Note: While the Jorgensen EcoFilter® system employs brushes for on-going automatic filter cell cleaning during normal operation, periodic removal of the filter cell(s) for manual cleaning of entrapped chips on the filter element is recommended. Frequency of cleaning will vary depending on your specific application. See the EcoFilter® Operator Manual for suggested cleaning methods.*

## BENEFITS

- Less chip migration to clean coolant supply tank means less machine downtime to clean tank
- Improved pump, tooling and coolant life
- Improved part finish/part accuracy
- No consumables in the system – environmentally friendly
- Patent-pending self-cleaning system for separated fine chip removal means more machine uptime productivity
- Single drive for reduced energy consumption
- Can provide efficient filtration of fine chips to 50 micron nominal (see note below)

*Note: Filtration performance is dependent on many factors and can vary based on specific application characteristics. Please contact Jorgensen Conveyors to discuss what EcoFilter® design will best meet your application needs.*



## HOW IT WORKS

1. Chips and coolant enter the conveyor's load section.
2. Large chips and/or stringers are carried out by the hinged or scraper belt.
3. Coolant and fine chips flow to the section in between the runs of belt, where the EcoFilter® cell is located.
4. Fine chips are separated as the coolant passes through the filter cell. Clean filtered coolant flows from the inside of the filter cell, out of the side of the conveyor and into the coolant tank.
5. Brushes continuously wipe fine chips from the surface of the filtration cell, keeping the cell clean for coolant to pass through.
6. Filtered chips are able to exit in between the runs of belt through the bottom run via patent-pending CleanClear® system, finding their way to the bottom of the conveyor casing.
7. Fines that migrate to the bottom of the casing are scraped up and around to the top run of belt, where they are finally discharged.



*Did you know that Jorgensen can also provide an EcoFilter® enhanced full coolant filtration system?*