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# HENRY FILTERS **Henry**



**Henry  
Trough**

# Engineered transport of fluid & chips

## Technology

Henry troughing systems are engineered to transport all fluid, machining chips and grinding swarf from the machines to either the pumpback sump system or filtration unit. Designs include above-ground installations that are either free-standing or through-machine, while in-ground installations can be cast in concrete tunnels. Each design is engineered to be the most efficient and cost-effective method based on the specific application.

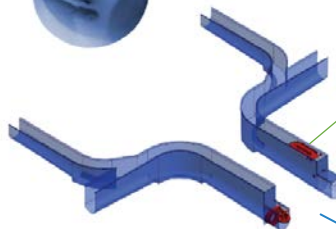
## Process

Chips and grinding swarf from each machine are deposited along with all flushing and tooling fluid into a collection trough. As this mixture of fluid and material is deposited, nozzles flush the mixture down the trough. This flushing moves the fluid and material at a specific velocity to keep all the material in motion, eliminating build-up or blockage within the troughs.

Drop-in flush nozzle



Air lock through gate



Circle style trough gate



# System benefits

## Customization

- Henry produces multiple widths and several trough configurations
- Several wall thicknesses are available
- Multiple styles of cover plate are available
- Start-up supervision included for all troughing installations
- Special contouring for wet decks, foundations and machine bases

## Flush nozzle types

### Single-point flush nozzle

- One nozzle at the beginning of the trough run
- Single-point flushing dramatically reduces misting in plant environment and energy consumption

### Understanding flush nozzle

- Nozzle located beneath fluid flow
- Used for stringy chips which may get caught on drop-in nozzle designs

### Drop-in flush nozzle

- Staggered along through approximately every 25 feet
- Used for grinding and small chip applications

### Stepless nozzle (above-ground nozzle)

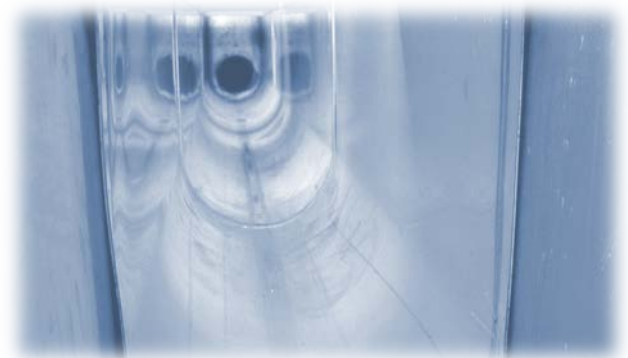
- Nozzle located beneath fluid flow
- Used for all types of machining and grinding applications

## Standards & Customization

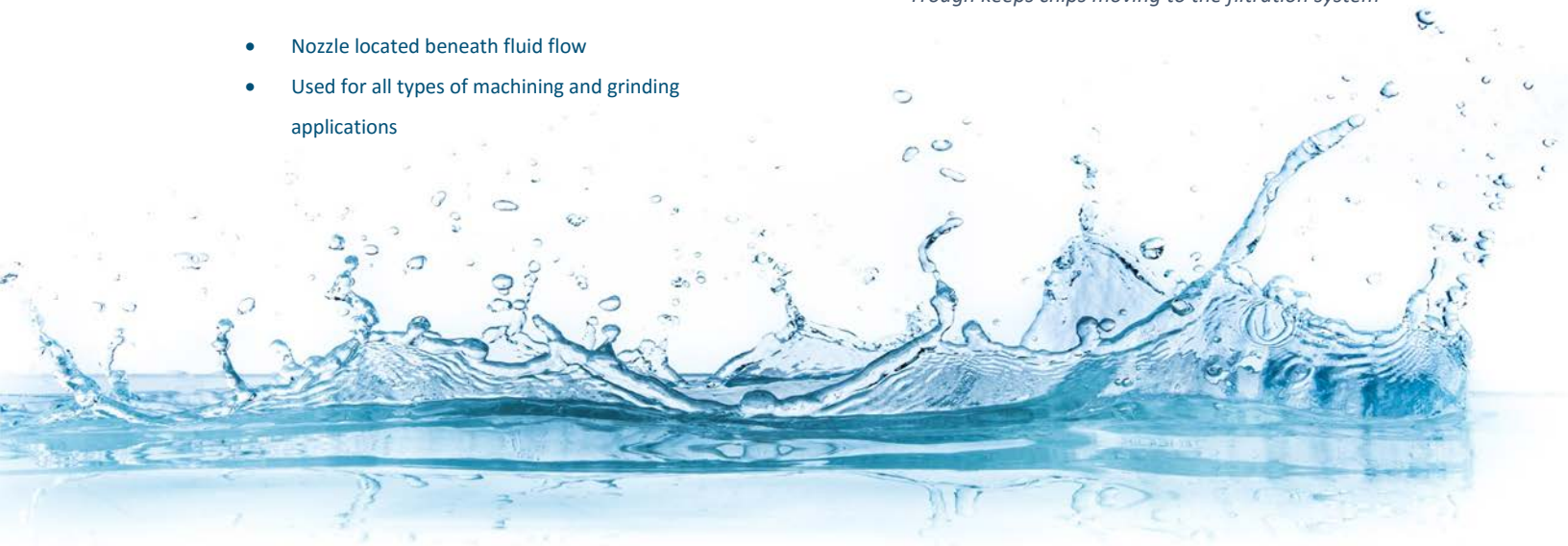
- Available in standard widths from 6" to 36" wide
- One-piece fabricated depths up to 12 ft. deep
- Wall thicknesses from 14 gauge to ¼" plate
- Preassembled sections shipped in lengths up to 40 ft. (based upon handling weights)
- Available with internal machine/flush supply piping or side mounted pipe chase to erase overall installations

## Options

- Air lock trough gate
- Circle style trough gate
- Radius turns:
  - "Straight Wall"
  - "Armadillo"
- Mitered turns
- Double containment
- Various flush nozzle designs
- Reinforced aisle covers



*Trough keeps chips moving to the filtration system*



# Troughing Systems

## Features

- In-ground or above-ground systems designed to meet customer needs
- Multiple design standards for variety or applications
- Engineered to keep chips moving towards filtration system or sump systems
- Maintenance free
- Specialized software for trough design to improve and optimize performance
- Various trough flushing designs ranging from conventional velocity flushing (under-slung and drop-in) to high volume, low pressure single point flushing, to combinations of both for specific applications
- Double containment, fluid storage gates, and cover plate options available

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