



2026 Catalog

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MACHINIST CRAFTED

OUR PHILOSOPHY:

At Swarf Unlimited, everything we build is driven by one principle: solve real machining problems with practical, durable solutions. Our systems are designed and built by machinists who understand the daily challenges of coolant management, chip control, and shop efficiency. We focus on reliability, simplicity, and performance—delivering equipment that works as hard as the people who use it. No unnecessary complexity. Just engineered solutions that keep shops running cleaner, longer, and more profitably.

OUR GAURANTEE:

We stand behind every system we build. Swarf Unlimited products are engineered for long-term reliability and built with high-quality materials to perform in demanding shop environments. If something isn't right, our team is committed to supporting you with responsive service and practical solutions. Our goal is simple: ensure your equipment performs exactly as intended so you can focus on making parts—not managing coolant problems.

COME VISIT US!

We invite you to visit our facility and see Swarf Unlimited systems in action. Get a firsthand look at how our equipment is built, meet the team behind the designs, and see why manufacturers across the industry trust our solutions. Whether you're evaluating a system or looking for a custom approach, we're always happy to talk shop.

SAME DAY SHIPPING

ON IN-STOCK ORDERS BY 3PM (MST)

TERMS: All orders are subject to acceptance by Swarf Unlimited. Pricing, specifications, and availability may change without notice. Lead times are estimates only. Products are warranted against defects in materials and workmanship under normal use. Liability is limited to repair or replacement of the product. Full terms are available at www.swarf-unlimited.com/terms-of-service/.

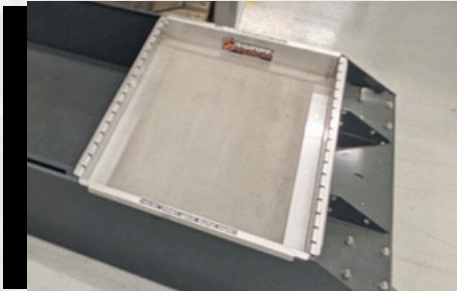
SWARF WASHDOWN SYSTEM



Automatically & Continuously washes interior of machine tool

See Page 5

HIGH CAPACITY SUMP FILTERS



Prevents sump overflow and allows continuous machine tool operations.

See Page 13

ALL IN ONE FILTRATION-CONVEYOR



Provides continuous automated, no touch, filtration and discharges dry chips.

See Page 25

CONTINUOUS COOLANT FILTRATION SYSTEM



Continuously filters coolant down to 10 microns without needing manual cleaning or filter changes.

See Page 33

COOLANT CHILLER



Holds coolant temperature within +/- 2 degrees.

See Page 40

COOLANT CONDITIONING SYSTEM



Continuously keeps your coolant concentrate within .10% Brix.

See Page 42

CORDLESS SWARF VAC ULTRA



Quickest, most efficient, sump cleaning vac in the industry.

See Page 48

MISCELLANEOUS PARTS AND UPGRADES



Never Clean Your Sump Again.

See Page 52

Swarf

Performance Package

HAAS EDITION



The Standard

Designed for every HAAS machine sold. Eliminates clogged sumps and coolant overflow while reducing service calls and increasing customer satisfaction.



The Efficiency Booster

Ideal for higher chip-volume applications. These systems eliminate cleaning shutdowns and return that time to productive machining.

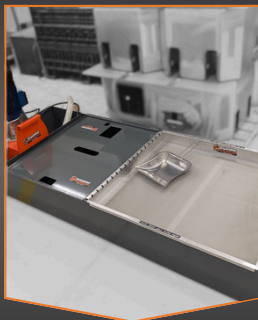


The “lights-Out” Solution

A complete chip and coolant management solution designed for reliable lights-out operation, guaranteed.

Control the Chips. Increase The Capacity.

- XL Sump Filter & Filler Panel
- Multiply Chip Capacity By 6x
- Fits 55 gal and 95 gal sumps
- **Zero Chip Escape = Clean Coolant**



- Washdown & XL Filter Kit
- Standard or XL Sizes
- Automatic Machine Interior Chip Removal
- **90% Reduction in manual cleaning**



- All In One Filtration Conveyor
- Includes washdown
- Complete Automation Solution
- **True Lights Out Operation - Guaranteed**



SWARF UNLIMITED

Complete Washdown Kits

Easy-to-install Complete Washdown System uses a high-volume pump to utilize a machine's existing coolant to washdown swarf to its intended location.

The pump comes pre-wired to plug into the back of your HAAS machine.

Available in Standard and XL versions. Refer to our machine compatibility chart to see which configuration is right for your machine.

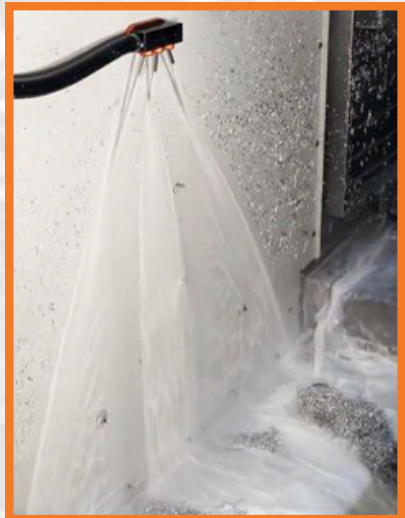


Key Features

- **Upgraded High-Performance Pump:** Delivers triple the standard flow with enhanced head pressure, ideal for handling demanding washdown tasks. The pump is plug-and-play, pre-wired for the machine tool flood plug.
- **Fully Adjustable Pump Manifold:** Includes five tunable outputs, such as the stock spindle ring, allowing for precise flow adjustments to meet each machine's specific cleaning needs.
- **Flexible Magnetic Nozzles and Hose System:** Equipped with magnetic spray nozzles and a highly flexible hose system, this feature enables easy repositioning, making the system adaptable for various jobs and setups.
- **Automation-Friendly Design:** Built for operations moving toward automation, unattended, and lights-out machining, the Washdown System minimizes manual maintenance and optimizes uptime.
- **Quick Installation:** Easily integrates with your existing machine coolant system, minimizing setup time and supporting rapid deployment.

Technical Specifications

- **Pump Capacity:** High flow rate with increased head pressure
- **Pump Manifold:** Fully adjustable with five tunable outputs, including the stock spindle ring
- **Connection:** Plug-and play, pre-wired for machine 1001
- **Magnetic Nozzles:** Adjustable for customized washdown
- **Hose System:** Ultra-flexible, with secure magnetic clamps for easy routing
- **Unit Weight:** 107 lbs
- **Dimensions:** 28" x 16" x 16"
- **Compatibility:** Available in Standard and XL versions, with configurations for HAAS and RoboDrill machines



Washdown Process

- **High-Performance Pump:** The upgraded pump delivers triple the standard flow with enhanced head pressure, making it ideal for demanding washdown tasks.
- **Adjustable Manifold:** A fully adjustable pump manifold features five tunable outputs, including the stock spindle ring, allowing for precise flow adjustments to meet specific cleaning needs.
- **Targeted Cleaning:** Coolant is directed through the ultra-flexible hose system to magnetic spray nozzles, which can be positioned anywhere inside the machine to effectively flush chips and swarf buildup

With Swarf Unlimited Washdown Kit

Without a Washdown Kit



(after 10 min cycle)

Cost Savings

- **Reduced Manual Maintenance:** Automates swart removal, cutting down on labor costs and reducing machine downtime.
- **Extended Component Life:** Regular swart management minimizes wear on critical machine components, lowering maintenance expenses over time.



Feature	Standard Washdown	XL washdown
Best for	VF-1 through VF-5 sized machines.	VF-6 and larger, horizontal mills, and machines with high-volume chip conveyors.
Hose Length	25 feet	50 feet
Primary Use	Provide a steady flow of coolant across the floor of the machine to carry chips towards the internal augers or conveyors for exit.	Provide a steady flow of coolant across the floor of the machine to carry chips towards the internal augers or conveyors for exit.
Spray Nozzles Included	2 Washdown Manifolds	4 Washdown Manifolds
SKU	SWD-2003	SWD-2004

Primary Application

- **High-Smart Generation Environments:** Perfect for CNC machine shops that require ongoing smart management to keep operations running without disruption.
- **Adaptable for Mixed Material Machining:** Suited for diverse machining environments, handling a variety of materials with ease
- **Automation-Ready Shops:** Ideal for shops transitioning to robotic cells, unattended, or lights-out operations.



Installation

- **Simple Integration:** The kit is easy to install and integrates with your existing machine coolant system, minimizing setup time. The high-performance pump comes pre-wired and is plug-and-play for the machine tool flood plug on HAAS machines.
- **Complete Kit:** The system includes a powerful, high-volume pump, all necessary hoses, fittings, and wiring, and durable, machinist-crafted spray manifolds.
- **Customizable Fitment:** A flexible hose system and magnetic spray nozzles allow for easy repositioning and targeted application from job to job.



HAAS COMPATIBILITY CHART

Model	Standard Washdown Kit	XL Washdown Kit
VF - 1	x	
VF - 2	x	
VF - 3	x	
VF - 4	x	
VF - 5	x	
VF - 6		x
VF - 7		x
VF - 8		x
VF - 9		x
VF - 10		x
VF - 11		x
VF - 12		x
VF - 14	Call	
UMC 500	x	
UMC 750	x	
UMC 1000	x	
UMC 1200		x
VR - 8		x
VR - 9		x
VR - 11		x
VR - 14	Call	
VC - 400	x	
VM - 2	x	
VM - 3	x	
VM - 6		x
DT - 1	x	
DT - 2	x	
DM - 1	x	
DM - 2	x	
TM - 0	x	
TM - 1	x	
TM - 2	x	
EC - 400	x	
EC - 500	x	

SWARF UNLIMITED

Sump Screen Filters

Swarf Unlimited's line of high-capacity sump filter screens provides a heavy-duty CNC filtration upgrade for your shop.

Our stainless steel sump filters serve as a premium solution for keeping your shop productive while making CNC machine cleaning simpler. When you upgrade to a Swarf Unlimited high-capacity filter, you protect your equipment from damage and ensure your coolant flood pump always draws clean fluid—a critical step in essential CNC preventive maintenance.



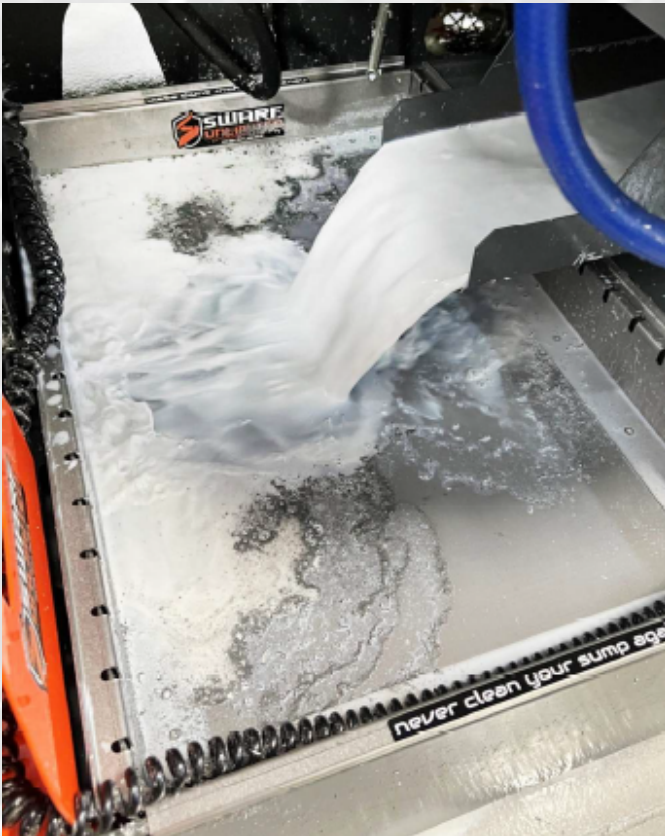
Key Features

- **High-Capacity Filtration:** Sump filters are designed to hold up to three times the capacity of standard baskets, with XL options available for even higher volumes.
- **Durable Stainless Steel Construction:** Constructed from 16ga 304 stainless steel frames and heavy-duty 316 stainless-steel low micron screens, the filters are built for longevity and easy cleaning.
- **User-Friendly Design:** The filters are easy to install and maintain, allowing operators to remove swarf without interrupting production, reducing manual maintenance significantly
- **Compatibility:** Available for Haas and RoboDrill machines, including models with and without conveyors, as well as pre-2008 Haas sump designs.

Filter	Chip Capacity	Size	SKU
XL	6x OEM	32' x 29" x 4"	SSFH - 1011
Standard	3x OEM	29" x 19" x 4"	SSFH-1010
HAAS Pre-2008	3x OEM	29" x 20" x 5"	SSFH-1005
DC-1	3x OEM	46" x 20" x 4"	SSFH-1012
Robodrill	3x OEM	58" x 24" x 4"	SSFR-1001

Filtration Process

- **Continuous Filtration:** The unit leverages the existing coolant flow generated by the machine's flood pump. As coolant passes through the filter, chips are pushed towards the edges of the filter creating up to 3x the chip capacity over the OEM Filter tray.



Technical Specifications

- **Capacity:** Holds up to three times the standard sump basket volume
- **Materials:** 16ga 304 stainless steel frame and 316 stainless steel screen
- **Weight:** 9 to 12 lbs, depending on model
- **Filter Options:** Standard and XL sizes compatible with Haas 55-gallon and 95 gallon sumps and RoboDrill models

Cost Savings

- **Downtime Reduction:** With improved swart capture, the filters reduce manual clean-up, allowing machines to operate longer without interruptions.
- **Annual Savings Potential:** Estimated industry average savings of \$8,000+ per machine annually due to reduced downtime and lower maintenance costs.

Installation

- **Simple Placement:** The filter unit is placed directly into the machine tools main sump, replacing the OEM filter tray.

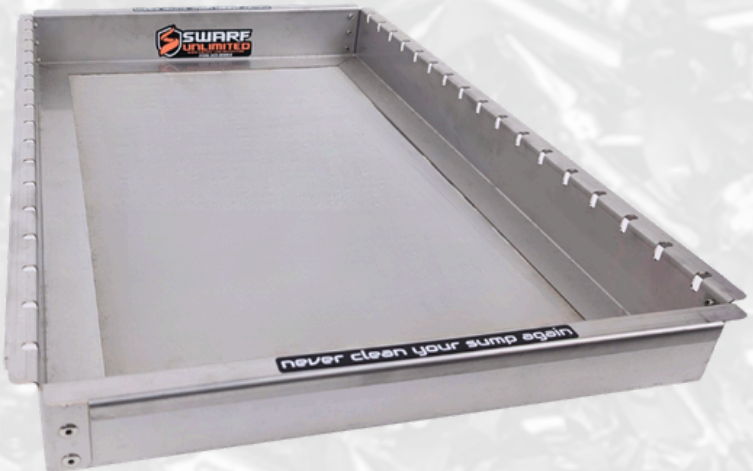


STANDARD FILTER

The Core Workhorse for HAAS Systems Designed as the definitive upgrade for standard HAAS 55 and 95-gallon coolant tanks, the Standard Sump Screen Filter provides a 3x increase in surface area compared to stock plastic baskets.

Constructed from heavy-duty 16-gauge stainless steel with a fine 316 stainless mesh, it captures fine chips before they reach your pumps.

This filter allows for "on-the-fly" cleaning, meaning your machine stays in the cut while you swap or clean the screen, eliminating the need for costly production stops for routine maintenance.



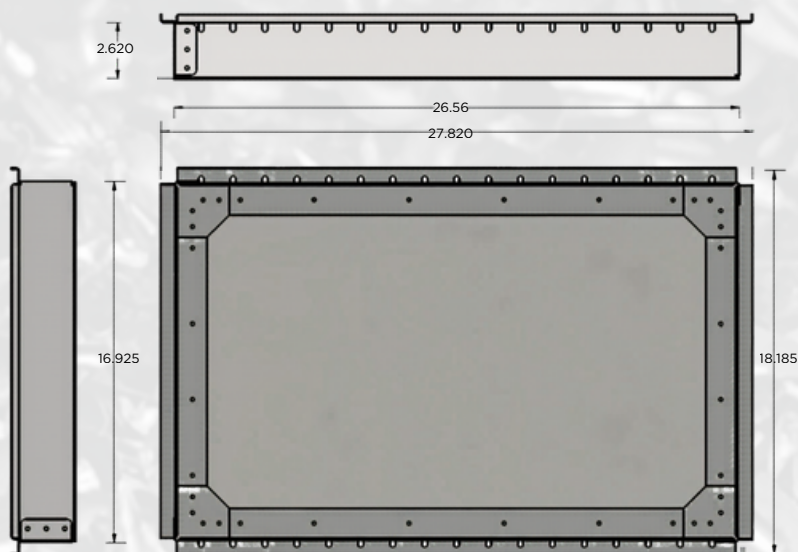
CALL FOR PRICING ON SKU **SSFH - 1010**

CNC Cleaning & Maintenance Pro Tip

To maintain a truly clean CNC machine, you must match your filtration to your production volume. While we recommend our standard swarf filter screen for most vertical machining centers, machines with chip conveyors require more capacity.

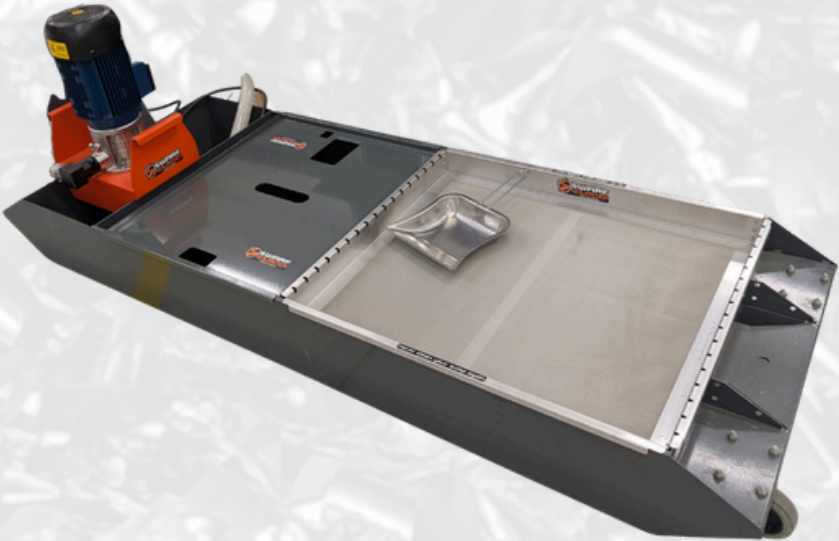
In those cases, you should upgrade to our XL Filter Kit. These units handle the heavier chip load and prevent metal chips from bypassing the filter during high-flow operations.

Standard Sump Filter Size



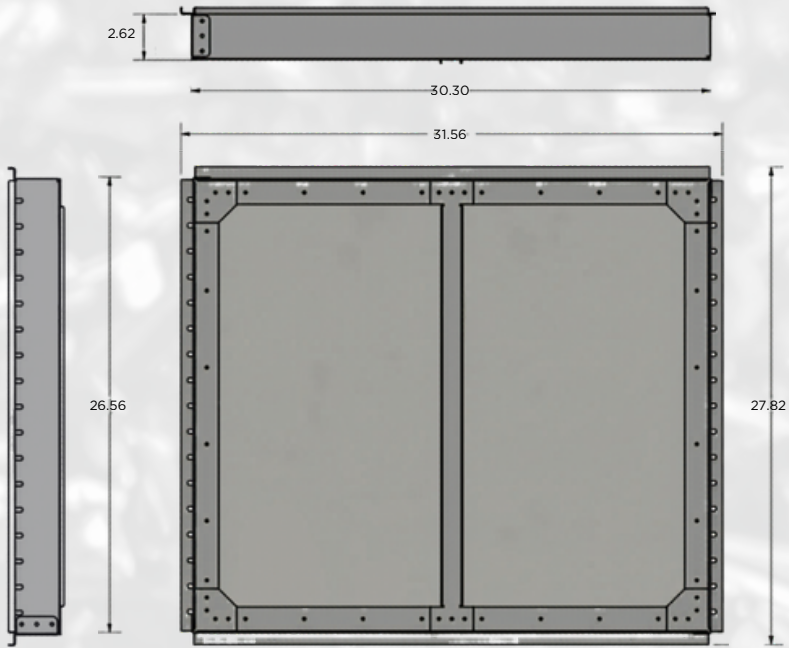
XL FILTER KIT

Maximum Capacity for High-Volume Production
 For shops running heavy chip loads or using high-speed conveyors, the XL Filter is the ultimate solution. Offering a massive 6x capacity increase over factory baskets, this model significantly extends the intervals between cleanings. The deep-draw design ensures that even during high-flow coolant operations, the filter won't bypass or overflow, keeping your coolant tank sludge-free and protecting your high-pressure coolant (HPC) systems from premature wear.



CALL FOR PRICING ON SKU SSFH - 1011

XL Sump Filter Size



SUMP FILTERS

XL Sump Filter KIT

When you pair the Filler Panel with the XL Sump Filter (which holds up to six times the capacity of the factory basket), the complete system delivers significant operational advantages

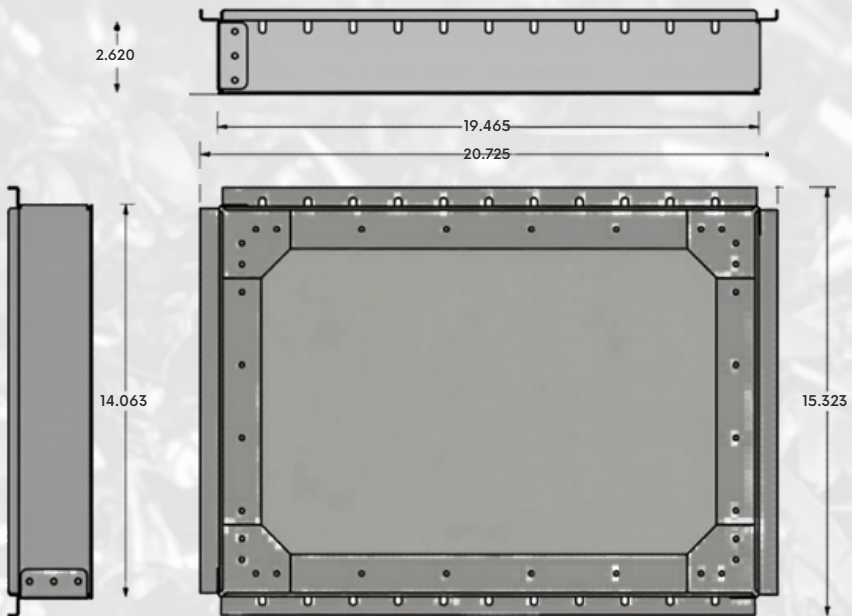
INCLUDES	SKU
XL Sump Filter	SSFH - 1011
Sump Filler Panel	SFPH - 1001

HAAS COMPATIBILITY CHART

Model	Standard Filter	XL Filter
VF - 1	x	x
VF - 2	x	x
VF - 3	x	x
VF - 4	x	x
VF - 5	x	x
VF - 6	x	x
VF - 7	x	x
VF - 8	x	x
VF - 9	x	x
VF - 10	x	x
VF - 11	x	x
VF - 12	x	x
VF - 14	x	x
UMC 500	x	x
UMC 750	x	x
UMC 1000	x	x
UMC 1200		x
VR - 8	x	x
VR - 9	x	x
VR - 11	x	x
VR - 14	x	x
VC - 400		x
VM - 2	x	
VM - 3	x	
VM - 6	x	
DT - 1	x	
DT - 2	x	
DM - 1	x	
DM - 2	x	
TM - 0	x	
TM - 1	x	
TM - 2	x	
EC - 400		x
EC - 500		x

PRE-2008 HAAS LEGACY FILTER

The Legacy Machine Solution Designed specifically for older HAAS coolant tanks, this model replaces brittle or missing factory baskets with a rugged, lifetime-guaranteed stainless steel assembly. It brings modern filtration standards to your proven legacy assets, preventing chip migration and extending the service life of your older pumps.



DC-1 SUMP SCREEN FILTER

Specialized for HAAS DC-1 Models Custom-engineered for the unique footprint of the HAAS DC-1, this filter maximizes filtration in a compact space. It is essential for high-speed drilling and tapping where fine aluminum or brass chips often bypass standard factory screens, ensuring your pumps stay protected without restricting coolant flow.

CALL FOR PRICING ON SKU **SSFH - 1012**



ROBODRILL SUMP FILTER

Precision Fit for Fanuc Platforms Tailored for the narrow sump constraints of the Fanuc RoboDrill, this filter manages the high-volume fines typical of small-part production. It ensures rapid drainage and a seamless fit, preventing coolant "nesting" and keeping your high-speed machine running at peak efficiency.

CALL FOR PRICING ON SKU **SSFH - 1005**



SWARF UNLIMITED

All In One Filtration-Conveyor

The Swarf Unlimited All-In-One Filtration & Conveyor (AIO) is the only true solution for lights out automation — Guaranteed.

The AIO replaces your machine's sump to combine efficient chip management with advanced coolant filtration. It features a continuous, self-cleaning stainless steel drum filter with a filtration surface 4x larger than competitors.

The AIO integrates seamlessly into robotic cell and lights-out machining operations, significantly reducing manual labor. The system uses our proven washdown capability to effectively direct all swarf from inside the machine to the filtration conveyor, ensuring a clean workspace with minimal downtime.



Primary Application

- **Machining Shops Transitioning to Automation:** The AIO is the ideal choice for automated setups like robotic cells and pallet pool systems, designed to support around-the-clock operations.
- **High-Volume Swart Production:** With Swart Unlimited's washdown system, the AIO effectively handles high levels of swart across various materials, ensuring uninterrupted workflow.



AIO

Technical Details

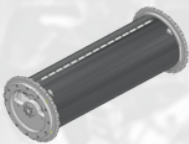
- **Filtration Capability:** Handles diverse materials and smart types
- **Flow Rate:** High capacity for continuous operation
- **System Voltage:** 240VAC, 3 Phase
- **Current:** 6 amps Full Load Amperage (FLA)
- **Connections:** Stock flood power outlet, IIOV wall outlet, machine e-stop
- **Unit Weight:** 350 lbs
- **Dimensions:** Compact footprint, ideal for flexible placement
- **Construction:** Durable, corrosion-resistant steel with powder coat finish
- **Safety Features:** Locking disconnect and integrated e-stop connection for secure operation



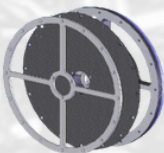
Filtration Process

- **Drum Filtration:** The core of the system is a continuous, self-cleaning stainless steel drum filter. This design provides a filtration surface area 4x larger than competitors, allowing for high-volume swarf removal.
- **Inline Coolant Return:** Clean coolant is returned to the machine, keeping the fluid healthy and breaking up foam in the coolant for maximum efficiency. The system effectively handles diverse materials and swarf types.
- **Automated Chip Removal:** Swarf and chips are separated by the drum filter and removed by an integrated, variable-speed conveyor and scrapper, which removes chips efficiently and with minimum coolant carryout. Conveyor speed can be adjusted on the fly.

Swarf Filter



Other Filters



Installation

- **Simple Integration:** The AIO streamlines installation with a compact footprint and no need for floor-mounted tanks or plumbing changes. It is designed to fit HAAS Milling Machine models.
- **Plug & Play Connections:** For easy integration, the system requires electronic connection into a machine tool cabinet, a 110V wall outlet, and a connection to the machine e-stop.
- **Integrated Coolant Delivery:** The system includes our proven washdown system with adjustable stainless steel nozzles to keep the machine interior clean. It also includes an automatic coolant refill system.

Model	SKU
VF - 3	AIOC - 3003
VF - 4	
VF - 5	
VF - 6	
UMC 500	AIOC - 3004
UMC 750	
UMC 1000	
DM	AIOC - 3005
DT	
VF-2	
EC	<i>Coming Soon</i>

Cost Savings

- **Downtime Reduction:** By combining chip and coolant management in one unit, the AIOC cuts down on downtime for manual handling, potentially saving around \$4,000 annually.
- **Extended Component and Tool Life:** Clean coolant prevents excessive wear on pumps, hoses, and tooling, extending lifespan and reducing the need for replacements



Application Comparison Chart

ITEM	VF Application	
	Chip Lift + Chip Auger	Quad Auger
Base Price	\$9,400	\$14,700
Interior Washdown System	\$4,350	\$4,350
Coolant Tank 95 Gal	\$3,400	\$3,400
3rd Party Support Package	\$800	\$800
Auxiliary Coolant Filter System	\$3,400	\$3,400
XL Filter Tray	\$828	\$828
Application TOTAL	\$21,378	\$26,678

nio

UMC Application			
Belt Conveyor	Filter Conveyor	CDF Conveyor	AIO Conveyor
\$8,400	\$12,600	\$19,600	\$31,980
\$4,350	\$4,350	\$4,350	INCLUDED
\$3,400	\$3,400	\$3,400	INCLUDED
\$800	\$800	\$800	NOT REQUIRED
\$3,400	\$3,400	\$3,400	NOT REQUIRED
\$828	\$828	\$828	NOT REQUIRED
\$21,178	\$25,378	\$32,378	\$31,980

AIO

SWARF UNLIMITED

Continuous Coolant Filtration System

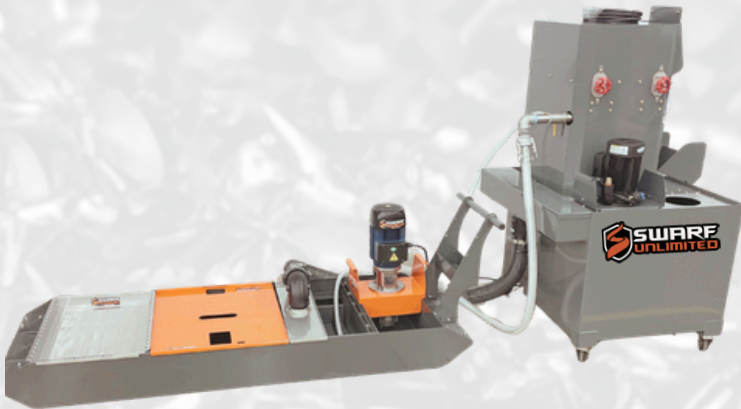
The Continuous Coolant Filtration System filters fine swarf from machine tool coolant down to 10 microns, without using any consumables. This system includes a clean sump for the machine tool to draw coolant from, insuring ongoing operation without interruption.

The CCFS doesn't just clean your coolant; it protects your investment. By removing the 'micro-dust' that standard systems leave behind, you extend the life of your pumps, your tools, and your coolant simultaneously—all while eliminating the cost of consumables.



Key Features

- **10-Micron Filtration:** Removes ultra-fine swarf, enhancing coolant quality.
- **25 GPM Flow Rate:** Provides a continuous supply of filtered coolant for high-demand environments.
- **Maintenance-Free Design:** Operates without replacement filters, reducing downtime.
- **Compact Design:** Footprint of 45" x 38", minimizing space requirements.
- **Enhanced Safety:** Includes a 20-amp 3-phase breaker and locking disconnect for secure maintenance access.



OSF

Technical Specifications

- **Filtration Capability:** Down to 10 microns
- **Flow Rate:** 25 gallons per minute (gpm)
- **Unit Weight:** 475 lbs
- **System Voltage:** 240VAC, 3 Phase
- **Current:** 8 amps Full Load Amperage (FLA)
- **Breaker Requirement:** 20 amps
- **Footprint:** 45" x 38"
- **Hose Routing:** Minimal additional space required for connecting hoses
- **Construction:** Laser-cut and formed cold-rolled steel
- **Coating:** Epoxy-based powder coat finish for durability
- **Safety Mechanisms:**
 - 20-amp 3-phase breaker installed in machine tool cabinet
 - Locking disconnect at the CCFS unit to ensure power is off before panel service access

Primary Applications

- **Manufacturing Facilities:** Machining cast iron and precision grinding.
- **Knife Grinding and Finishing:** Ideal for achieving high-quality finishes.
- **5-Axis Machining:** Ensures a smooth surface with ultra-clean coolant.
- **Swarf Management:** Designed for shops producing less than 100-micron swarf.



OSF

Sludge Removal Options

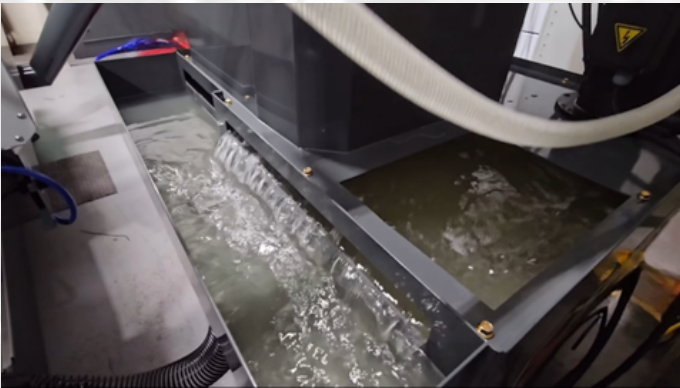
The standard unit offers simple, manual swarf removal for low-volume or non-valuable discharge, but we provide two flexible options to meet varying customer needs:

- **Standard:** Manual scraping on a handle pulls sludge up a sloped exit chute into provided tubs (ideal for weekly/monthly emptying and low-value discharge).
- **Optional: Collection Pod:** Captures discharge in a quart-sized container, which can be emptied manually via a valve or automatically on a timer with an air-valve (best for applications involving valuable metals).
- **Optional: Sludge Mini Conveyor:** Required for high-volume discharge and continuous sludge removal.



Filter Process:

- **Continuous Filtration:** Our 35 GPM pump provides agitation via a 3-nozzle magnetic spray manifold installed in the main sump and sends coolant through the filter at 30-35 GPM.
- **Extended Cycle:** The pump is set to continue running and filtering for one hour after the machine tool stops calling for coolant. This ensures continuous filtration throughout the workday and a thorough cleaning of the sump coolant at the end of a shift.



COSE

Cost Savings

- **Annual Savings:** High-demand shops save approximately \$6,500 annually in downtime and production loss.
- **Tool Life:** Expect a 20% increase in tool life due to cleaner coolant and reduced contamination.

Installation

- **Power & Control:** Power is drawn from the machine tool power cabinet via an installed breaker, connecting to our control box, which houses the PLC for system management.
- **Coolant Pump Integration:** Our system includes a high-flow flood pump (35 GPM) that replaces the machine tool's existing flood pump in the main sump, providing agitation and initial filtration flow.
- **Clean Coolant Supply:** The machine tool's existing flood or high-pressure pumps are relocated to the CCFS clean sump (post-filtration). This sump consistently delivers coolant at 10 micron or cleaner to the machine tool. A pressure sensor on the machine tool pump activates our system's filtration cycle.
- **Sludge Capture:** Discharge and sludge are captured in a separate sludge sump within the CCFS unit for later removal.

Optional Coolant Chiller

- The base CCFS unit is ported for an optional chiller unit Heat Exchanger (HE).
- We typically utilize a 12,000 BTU Chiller and custom-build the HE to match the specific application requirements.
- Pricing is dependent on the necessary size and complexity of the heat exchanger.
- See the Coolant Chiller product page for more information.



SWARF UNLIMITED

Coolant Chiller

Thermal stability is the secret to holding tight tolerances, and our Coolant Chiller provides the precision needed for high-accuracy machining and extended tool life. By maintaining a consistent coolant temperature, this unit prevents the thermal expansion of the workpiece and the machine casting itself. Essential for high-speed spindles and 5-axis work, the chiller also prevents coolant degradation caused by heat, keeping your chemistry stable and your tool life predictable.



Technical Details

- **Temperature Range:** Adjustable from 60°F to 85°F (15°C to 30°C).
- **Control Accuracy:** Differential tracking within +/- 2°F of desired temperature.
- **Refrigerant:** Eco-friendly R410A/R134a systems.
- **Heat Exchanger:** High-efficiency stainless steel plate or immersion coil.
- **Integration:** Digital PLC interface available for easy monitoring and alarms.



**COOLANT
CHILLER**

SWARF UNLIMITED

Coolant Conditioning System

The Coolant Conditioning System (CCS) is a revolutionary automated solution that manages coolant concentration in your machining operations, making it a breeze!

This advanced system combines an inline refractometer with automated dosing to constantly monitor and maintain optimal coolant concentration levels, eliminating the need for time-consuming manual measurements and adjustments.

By keeping your coolant mix consistently optimal, the CCS helps prevent machine wear, improve part finish, and reduce manual maintenance.



Features & Benefits

- **Simple Integration**
 - Simply installed within 30 minutes.
 - User-friendly interface.
 - Plug-and-play design.
- **Optimized Coolant Performance**
 - Maintains precise coolant concentration automatically.
 - High-accuracy inline refractometer continuously monitors the coolant mix.
 - Keeps coolant tanks fresh over weekends or holidays.
- **Machinist Crafted**
 - Brushless all-metal circulation pump for 24/7 operation.
 - Holds 5 gallons of raw coolant concentrate.
 - Low power consumption around 150 watts.
 - Runs on 110V AC.
- **Reduced Maintenance**
 - Reduces operator intervention and manual adjustments.
 - Automated mixing prevents costly coolant overuse or dilution.

Primary Applications

- **High-Precision Machining:** Ideal for shops needing consistent coolant quality to maintain accuracy.
- **Labor-Intensive Operations:** Reduces operator intervention, keeping machines running smoothly and consistently.

Cost Savings

- **Reduced Coolant Waste:** Automates mix adjustments, preventing costly overuse or dilution.
- **Labor Savings:** Lowers manual maintenance and inspection time, saving operational costs.



Conditioning Process

- **Continuous Monitoring:** An inline refractometer continuously monitors the coolant mix with high accuracy (+/- 0.1%) and a Brix resolution of 0.1%. A calibrated Brix index shows the actual coolant percentage.
- **Automated Dosing:** The system provides 24/7 concentration adjustment. When the refractometer detects an imbalance, the automated dosing system precisely adds coolant from the 5-gallon raw coolant concentrate tank to maintain the optimal mix.
- **Coolant Circulation:** A brushless circulation pump ensures the coolant is constantly moving to keep coolant fresh over weekends and holidays.



Installation

- **Simple Integration:** The system is a plug-and-play unit that can be installed in approximately 30 minutes and features a user-friendly interface.
- **Power & Compatibility:** The CCS runs on a standard 110V outlet and is compatible with most machine tools and coolant systems. It has low power consumption of around 150 watts.
- **Durable Components:** The system is machinist-crafted with a brushless all-metal circulation pump designed for 24/7 operation, a high-end dosing pump with a PVDF pump housing, and Viton seals.



Technical Specifications

- **Filtration Capability:** Down to 10 microns
- **Flow Rate:** 25 gallons per minute (gpm)
- **Unit Weight:** 475 lbs
- **System Voltage:** 240VAC, 3 Phase
- **Current:** 8 amps Full Load Amperage (FLA)
- **Breaker Requirement:** 20 amps
- **Footprint:** 45" x 38"
- **Hose Routing:** Minimal additional space required for connecting hoses
- **Construction:** Laser-cut and formed cold-rolled steel
- **Coating:** Epoxy-based powder coat finish for durability
- **Safety Mechanisms:**
 - 20-amp 3-phase breaker installed in machine tool cabinet
 - Locking disconnect at the CCFS unit to ensure power is off before panel service access

SWARF UNLIMITED

Cordless Swarf Vac Ultra

The Cordless Swarf Vac is a high-performance industrial vacuum system from Swarf Unlimited, specifically engineered for the rapid removal of coolant, sludge, and chips from CNC sumps. By allowing operators to clean tanks in minutes, it significantly reduces maintenance downtime and pump wear in harsh machine shop environments.



SWARF VAC



Technical Details

- **True Cordless Operation:** Powered by a high-capacity rechargeable lithium battery, the unit offers complete mobility and eliminates tripping hazards.
- **High-Volume Suction:** Utilizing two robust vacuum pumps, the system generates high air flow and pressure to lift heavy swarf and sludge mixed with coolant.
- **Precision Filtration:**
 - **Standard Filtration:** The integrated system separates solids from liquids, with swarf and chips captured in an internal basket that filters down to 100/115 microns.
 - **Optional Fine Filtration:** For more sensitive applications, optional filter bags are available to further reduce particulates down to 50 or 25 microns.
 - **Coolant Recovery:** Cleaned coolant is returned to the machine sump or collected for disposal.
- **Maneuverability:** The unit features all-directional wheels (not casters) for quick movement between multiple machines
- **Durable Construction:** Built with a stainless steel tank and materials resistant to industrial fluids, ensuring longevity in demanding shops.

Control Interface

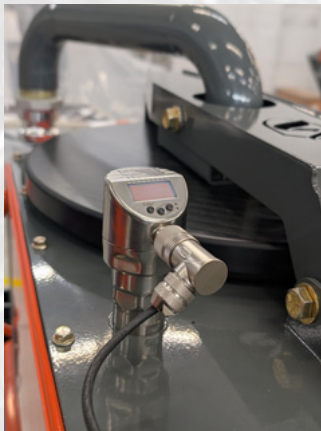
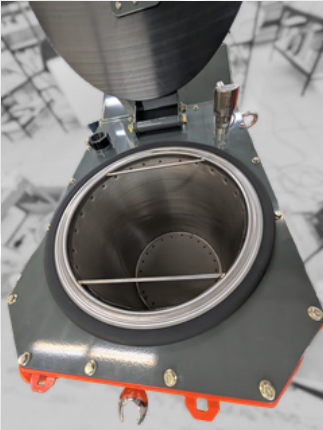
The Swarf Vac includes a comprehensive control panel featuring:

- **Battery Monitor:** A digital display for tracking power levels.
- **Stack Light Status:** Visual indicators for operational states.
- **Dual Mode Operation:** Dedicated "Auto/Off/On" switches for both the pump and vacuum systems.



Primary Applications

- Routine cleaning of machine sumps and preparation for coolant change-outs.
- Rapid removal of unexpected chip buildup, even while the machine tool continues to operate.
- General shop floor cleanup of coolant spills and chips near machine tools.



SWARF VAC

SWARF UNLIMITED

Upgrade Parts

At Swarf Unlimited, we specialize in the essential "missing pieces" that keep your shop running at its best. From high-quality filler panels to upgraded pumps, our collection of miscellaneous parts and upgrades are built for precision and long-lasting performance. Whether you're looking to improve your equipment's efficiency or replace worn components, our parts offer a perfect fit and a professional finish every time.

UPGRADE PARTS



SUMP FILLER PANEL



Complete your XL sump filter installation with this filler panel. Designed to fit 55 and 95 gal sumps

See Page 21

SUMP WASHDOWN UPGRADE



Upgrade your existing pump to the Swarf High Capacity Pump. Three phase or single phase

See Page 25

SWARF REMOVAL TOOL



Perfectly designed for scooping swarf from filters in one seamless action.

See Page 15

COOLANT AUTOFILL



Automatically & Dependently keeps your machine tool sump topped off.

See Page 19

PRODUCTIVITY NEVER SLEEPS



Full Shift Production Potential

CONTACT US

208.321.8083

www.swarf-unlimited.com