

# Aggressive Machining Requires Hi-Performance Coolant

For Machining Centers with full enclosures only

## Hi-Performance Coolant Solutions 100-1000 PSI



The SHP nozzle delivers 10 Gallons of Coolant Per Minute at 100 PSI precisely to the cutting edge of each tool, regardless of length. No tool can hide from the 10 GPM coolant stream.



A high quality 100 PSI pump supplies 4-6 times the pressure, and more than twice the volume of coolant than your factory system.



A cleanable cartridge filter (top) separates fine debris from the coolant. The AirBlast solenoid assembly, shown at bottom, enables the SpiderCool to deliver compressed air as well as coolant.

# SpiderCool™



SpiderCool is Proudly Made in the USA by:

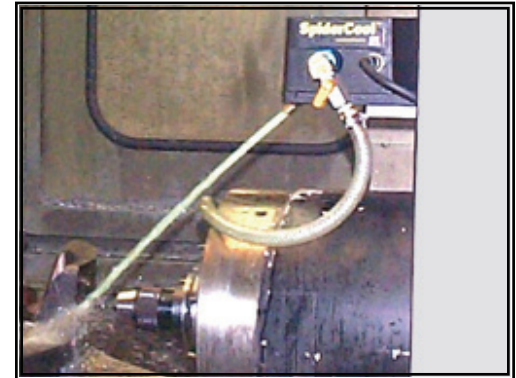
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*To request a demonstration or to order  
SpiderCool,  
Please contact your  
Authorized Reseller Below*

# SpiderCool™



**Increase  
Machining Center  
Productivity  
with  
Automated Directional  
Coolant**

## What exactly is SpiderCool?

SpiderCool is a closed loop servo controlled Automated Directional Coolant System for Machining Centers. SpiderCool memorizes where the coolant is aimed for each tool, then, once set, automatically positions the coolant stream for every tool while the machine is running. The system consists of a nozzle assembly, control unit, remote adjustment knob, cabling, and mounting hardware. The nozzle assembly is fastened to the machine's head and oriented so the coolant stream is aligned to the spindle centerline. Standard SpiderCool systems utilize the machine's existing coolant pump. Coolant ON/OFF commands are used normally. Coolant mediums include both water-soluble coolant and cutting oil.

## Who needs SpiderCool?

Companies interested in maximized productivity, unattended machining, minimized downtime, reduced tooling costs and improved safety should strongly consider adding SpiderCool(s).

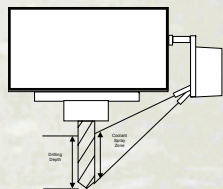


## How do you program SpiderCool?

No programming is required, the operator simply "teaches" SpiderCool by turning the servo adjustment knob, conveniently located on the machine's control panel, to precisely aim the coolant stream. This is done once for each tool, from that point on, all coolant adjustments are automatic. There are no M-Codes to write into your program and adjustments can be made and re-memorized at any time during the machining cycle.

## How does SpiderCool know which tool is in the spindle?

Transparent to the machine operator, SpiderCool uses a patented "Intelligent Interface" to monitor the tool changer. This interface supports carousel, double arm random pocket, single arm and pre-load pocket style automatic tool changers. A binary/parallel interface and RS-232 using DPRNT command are also available for special applications.



## AutoDrill Feature (optional)

The perfect solution for deep hole drilling. This feature allows you to set an upper and lower coolant position for any individual tool(s). The coolant stream will continuously sweep between the two set positions. This provides excellent coverage over the full cutting length of the tool rather than just a single point. Feature benefits range from side milling with long endmills to simply agitating the coolant to improve chip evacuation.

## Will SpiderCool save money?

Yes! You can expect SpiderCool to save money in the following ways: provide a higher degree of unattended machining – save at least 10 minutes per shift of valuable machine time by eliminating the need for continual adjustment and readjustment of coolant lines, feedrate optimization – feedrates can be increased a minimum of 10% due to a higher volume of coolant being precisely applied to the cutting edge of each tool "automatically", increased tool life – expect a 25% to 50% increase in tool life – cooler tools last longer and perform better. In conclusion; SpiderCool will pay for itself in 3 months on a single shift application. Do the math on what that could mean in terms of extra profit to your bottom line, especially if you are running a 2-3 shift operation.

## Have you considered your company's potential liability resulting from a coolant related injury?

OSHA has mandated door interlock switches preventing the machinist from opening the enclosure doors to reach inside the machine while the spindle is running. This is usually done to manually adjust and readjust coolant lines, which SpiderCool eliminates. You, as the shop owner, have a distinct potential liability in the event of injury to your machinist caused by this dangerous, avoidable practice.

## My Machining Center(s) have Through the Spindle Coolant (TSC), can I benefit from SpiderCool?

Most companies use (TSC) on operations where there are clear advantages, such as deep hole drilling. On many other operations, due to equal performance and the high cost of (TSC) tools, traditional flood coolant is used. SpiderCool can either be connected to your machines' flood coolant pump or the higher-pressure (TSC) pump, providing the machinist with the ability to select (TSC) or through the SpiderCool for any specific cut. The best of both worlds!

**In conclusion: You might say.... " SpiderCool Automates your Machining Center"**

**Specify SpiderCool on your next new Machining Center order!**

**OEMs and Distributors welcome!**

**Don't just take our word for it, listen to what SpiderCool users are saying:**

### Accellent Orthopaedics - 15 SpiderCool(s)

Brimfield, MA

Bob McCurry, Director of Operations

"Every machinist in this company, without exception, loves this product. I will continue to add SpiderCool(s) to every Machining Center until our remaining 21 spindles have a SpiderCool."

### Pratt & Whitney Aircraft - 38 SpiderCool(s)

Middletown, CT

Bob Selvidio, Mfg. Engineer

"SpiderCool is a low cost, extremely easy to use product that provides huge dollar benefits."

### Arland Tool & Mfg. - 5 SpiderCool(s)

Sturbridge, MA

Jerry Gagnon, Manufacturing Mgr.

"There's so many things I like about SpiderCool, I'm not sure where to begin. I never expected it to prove to be as valuable as it has!"

### Rose Industries - 4 SpiderCool(s)

Palmer, MA

Bob Lamb, Owner

"It took nearly a year to convince me to purchase a SpiderCool for my first Hurco VM-1. I now have 4 VM-1s, all with SpiderCool(s). The last three machines had SpiderCool(s) installed before they hit the floor."

### Shanklin Corporation - 8 SpiderCool(s)

Ayer, MA

Steve Tomasso, Plant Engineer

"I believe in running our machines "hard & fast", which demands ample and controlled coolant flow. SpiderCool's automatic coolant positioning insures that each tool, regardless of length, receives more than sufficient coolant available within the confines of the machine!"

### Major Corporations using SpiderCool(s)

Accellent Orthopaedics  
California Edison  
General Electric  
IBM Corporation  
Parker Hannifin  
Schick Wilkinson Sword  
Westinghouse

Barden Corporation  
Curtiss Wright  
Honda Transmission  
National Institute of Health  
Pratt & Whitney Aircraft  
Sikorsky Aircraft