



Accu-Lube[®]



SpiderCool[™]

Accu-Lube Minimum Quantity Lubricant
can now be **automatically** aimed with
laser precision in CNC Machining Centers
using SpiderCool Automated Nozzle Systems



Environmentally-Safe Lubricants and Minimum Quantity Lubrication Systems for Near-Dry Machining

For years the conventional thought on applying metalworking fluid was, “the more, the better.” If you wanted great finishes on your parts and your tools to last, then you needed to flood the entire machining area with vast amounts of cutting fluid.

Continual exposure to water-based flood coolants creates numerous problems, among these are the maintenance required to keep the cutting fluid from going rancid, as well as the formation of rust and corrosion on machine way surfaces and critical moving parts such as bearings and ballscrews. A variety of cutting fluids have been developed to address these problems but the fact remains that whenever you run your machine with traditional flood coolants it is going to be messy and dirty.

Today, cutting tool lubrication has evolved to meet the wants and demands of the industry. It is now possible to get all of the benefits of traditional flood coolant with none of the drawbacks using Minimum Quantity Lubrication (MQL).

MQL is exactly what the name implies, by focusing on quality instead of quantity it is possible to use ounces of Accu-Lube’s environmentally-safe lubricant to completely replace flood coolant. Accu-Lube MQL applicators use advanced technology to focus microdroplets of lubricant directly onto the cutting surface of a tool to provide lubrication and protection precisely where it is needed. With Accu-Lube MQL tools stay sharp, parts come out cleaner, machines last longer, and maintenance is eliminated.

We call it Near-Dry Machining.





Hi-Performance Automated Directional Coolant Nozzle Systems for CNC Machining Centers

SpiderCool is a precision servo-driven coolant nozzle system that has been developed for CNC machining centers to address the coolant delivery problem that many operators faced when running a machine with multiple tools of varying lengths and sizes. SpiderCool's intelligent interface tracks every tool independently to automatically recognize and adjust to the tool's specific coolant nozzle position when it is placed in the spindle. Programming the individual settings for each tool is as simple as turning an adjustment knob on the machine's control panel. SpiderCool also has the ability to perform oscillating coolant positions, known as AutoDrill sweep cycles, to provide greater tool coverage and improve chip evacuation.

The major limitation to using MQL in CNC Machining Center applications was the inability to aim the MQL nozzle at the cutting edge of multiple tools of varying lengths without operator intervention. By combining SpiderCool precision with Accu-Lube MQL technology this problem has been solved.

SpiderCool MQL systems work by atomizing Accu-Lube lubricant within the SpiderCool nozzle assembly and these microdroplets are then directed through an extended nozzle tube. A specially designed tip and integrated laser allow the operator to direct the nearly invisible stream of lubricant so that a concentrated spray pattern is accurately applied onto a cutting tool up to 6 inches away.

The innovative combination of Accu-Lube MQL systems and SpiderCool precision technology brings CNC machining to a whole new level. With their power it is now possible to realize all the advantages of near-dry machining and automated nozzle positioning; unattended operations, increased tool life, improved cycle time, better part quality, elimination of coolant disposal, corrosion free machines, and improved operator safety, all while promoting a cleaner, healthier environment. Cost savings begin immediately and rapidly accumulate. Return on investment is typically only a few months on a single shift application.



Pricing and Installation

SpiderCool systems can be installed on most machining centers. Plug & Play packages have been developed for simple installation on a variety of popular machines. These packages are specifically designed for ease of installation and come complete with all of the necessary components as well as detailed instructions.

PART NO.	DESCRIPTION			PRICE
SPC-7001MQL	SC/AL MQL System	Plug & Play	HURCO VM, MQL	\$4,500.00
SPC-7002MQL	SC/AL MQL System	Plug & Play	FADAL LEGACY ATC, MQL	\$4,500.00
SPC-7003MQL	SC/AL MQL System	Plug & Play	FADAL LEGACY DATC, MQL	\$4,500.00
SPC-7004MQL	SC/AL MQL System	Plug & Play	FANUC ROBODRILL, MQL	\$4,500.00
SPC-7005MQL	SC/AL MQL System	Plug & Play	HAAS MINIMILL, MQL	\$4,500.00
SPC-7006MQL	SC/AL MQL System	Plug & Play	YCI SUPERMAX 102 / 1020, MQL	\$4,500.00
SPC-7007MQL	SC/AL MQL System	Plug & Play	DOOSAN, MV 3016 / 4020, MQL	\$4,500.00
LB2000	Accu-Lube LB-2000 Lubricant, 1 Gallon		4 per Case (\$66.00/Gallon)	\$264.00/Case

Pricing subject to change without notice

Pricing on custom SpiderCool MQL systems for machining centers other than those listed above will be quoted on an individual basis.

Factory installation is available and will be quoted on an individual basis.

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