



168 MANUFACTURING
Simply More CNC Production

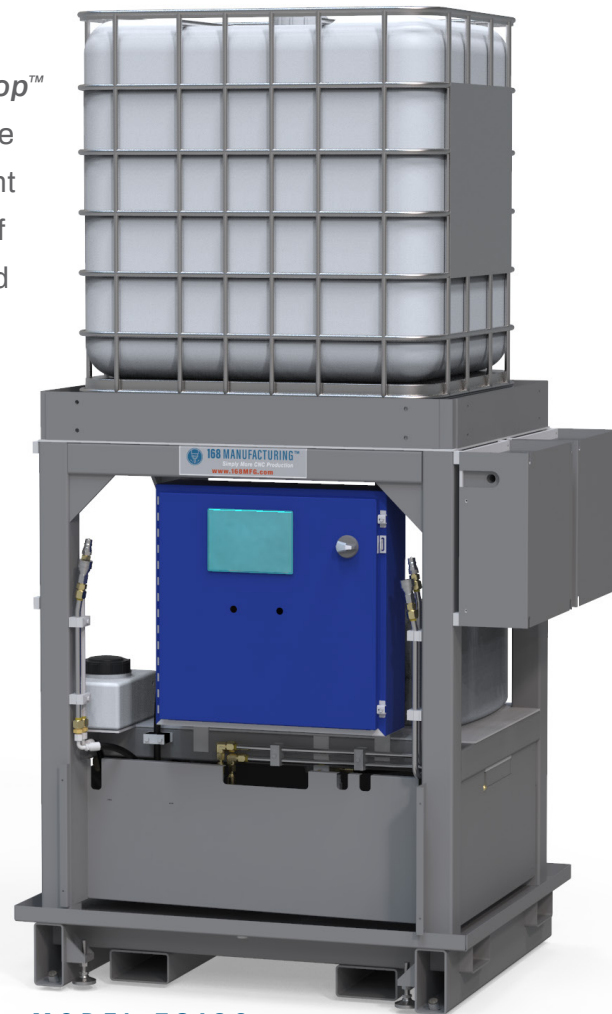
Profitability Solutions

COOLANT MANAGEMENT SYSTEMS FOR CNCs

If you're still using buckets, barrels and hoses to manually get coolant into your CNC machines, there's a better way. The **FullShop™ Automated Coolant Management System** monitors coolant usage at the machine tool sump and automatically replenishes the coolant before it runs low. These easy-to-install turnkey systems consist of a centralized pumping station, controller, distribution manifolds and a small sensor that drops into any machine tool sump. With its modular design, our FS120 model can automate shops with 15 to 120 CNC machines. You can also select our smaller FS40 model, which can automate shops with up to 40 CNC machines.

FEATURES & BENEFITS

- Engineered to pump from totes or barrels.
- Passive—operates in the background.
- Effective for shops that run attended and unattended.
- Per-machine concentrations.
- Data reporting integrated for profit optimization.
- Small footprint—similar to the footprint of a tote.
- Remote distribution nodes for clean installation.



MODEL FS120

PROFITABILITY

Better utilization of your capital will drive business profitability. What if automating coolant management resulted in four hours a week of more production per machine? What is this worth?

LABOR

You are well aware of the tight labor market for skilled CNC machinists. What if these skilled employees could stay focused on their craft and not be the typical bucket brigade? Where do they produce the most value?

UNATTENDED

When you run unattended over nights and weekends, the bucket brigade bites you. Automating coolant management eliminates mistakes and in doing so, your spindles run more.

TECHNICAL SUPPORT

Precision Tool Technologies also runs a high efficiency CNC shop. We know sales support from living it. We are here to help 24/7.

ZERO DOWNTIME

Robust design built for rugged use. Expect years of hands-off service. Built-in telesupport and remote connection.

TURNKEY SOLUTIONS

Our systems are designed to be up and running quickly, and the short learning curve means effective hands-off coolant management. We have pre-engineered a complete solution.

CONTACT US

For more information about any of our products or services, please visit us at 168mfg.com.

LIGHTS-OUT CNC MACHINING

Unattended or *lights-out* operation of a machine tool can transform the economics of your machine shop. Instead of operating one or two shifts a day with a shop full of operators, you can run high-volume jobs unattended overnight and keep your spindles spinning 24/7. With bar stock feeders, robotics and take-away conveyors in common use, a barrier to unattended CNC machining has been the need to replenish coolant in unattended machines. In the majority of shops, coolant management is still a manual operation. And without operators to keep the coolant sumps filled, most machine tools simply won't run around the clock. The *FullShop™ Automated Coolant Management System* solves that problem—by automatically distributing properly mixed coolant to multiple machine tools without any human intervention. No man with a bucket required.



**MODEL
FS40**

TECHNICAL DETAILS

MODEL	FS120	FS40
System Services	≤120 CNC	≤40 CNC
Each Distribution Node Services	≤24 CNC	≤8 CNC
Max. Distribution Nodes	5	5
Concentrations, percent	0.5 to 20	0.5 to 20
Footprint, inches	50 x 60	30 x 30
Power Requirement, VAC	460	460
Water	RO, DI, Municipal, Well*	RO, DI, Municipal, Well*
Remote Operation	Yes	Yes
Remote Teleservice	Yes	Yes
Tubing Run Length, feet	Up to 2,700	Up to 2,700
Sump Sensor	Level and Temp	Level
Inlet Water Sensor	Temp and Quality	Temp and Quality
Compatible with FullShop App	Yes	Yes
Screen Size, inches	10.1 TFT	7.0 TFT

*Consult factory for water quality discussion.



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