

# PRECISION DRILLING



**SpindleSHOT<sup>®</sup>**  
HIGH PRESSURE COOLANT SYSTEM

COOLANT THROUGH SPINDLE (CTS) SYSTEM FOR CLEANER CUTTING

# PERFORMANCE



## SELF-CLEANING

With a built-in cyclonic system and control, the SpindleSHOT self-monitors its own filter requirements and will do an automatic reverse purge to clean itself. Any contamination pulled into the pump is spun out of the coolant and directed to the drain port.



## CLOG-FREE

Using centrifugal force coupled with turbulence, the coolant pump separates and removes contaminants through a mesh filter. The centrifugal filter system is designed to be clog-free, ensuring a steady flow rate and minimizing maintenance.

## LOW MAINTENANCE

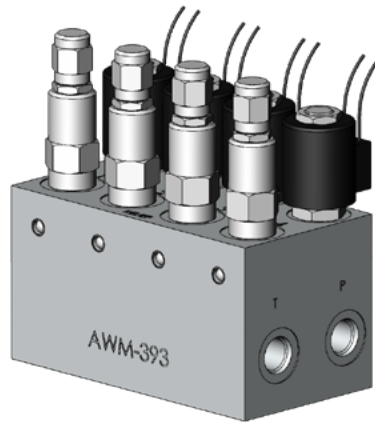
The automatic self-cleaning Turbulence™ filter eliminates the need for traditional bag filters. Whereas traditional CTS systems often require monthly bag filter replacements, the self-cleaning filter only requires a tank wipe down after around six months to a year, saving money and time.

# SUPERIOR CONTROL



## TEMPERATURE CONTROL

Ensure temperature consistency with optional chillers. Maintain fluid temperature to within one-half of a degree celcius and keep it stable. Three chiller options are available, depending on the cooling capacity required.



## PRESSURE CONTROL

Experience unparalleled control with versatile pressure settings which can be fine-tuned to your application's precise needs. Choose from customizable pressure settings ranging from 200 to 1,000 psi.

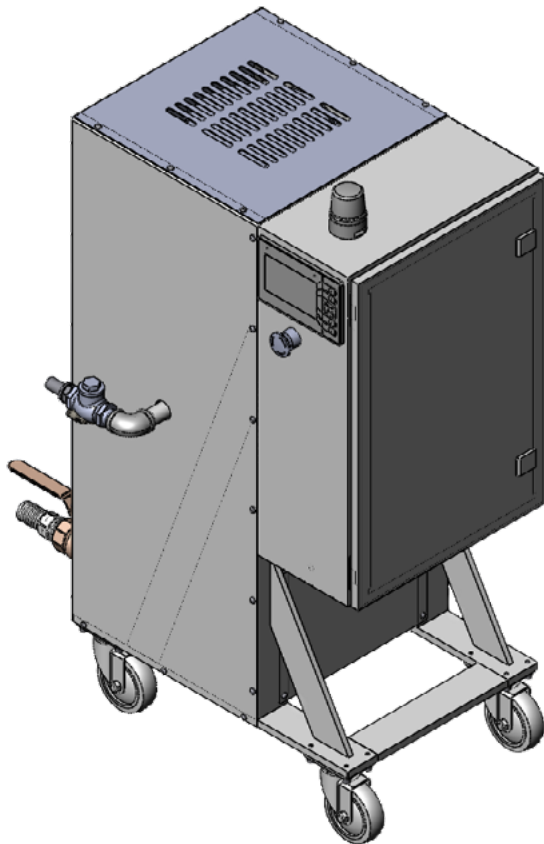


## SYSTEM MONITORING

Monitor coolant temperature, pressure, and levels thanks to an ifm control package with a user-friendly human machine interface (HMI).



# CONNECTIVITY

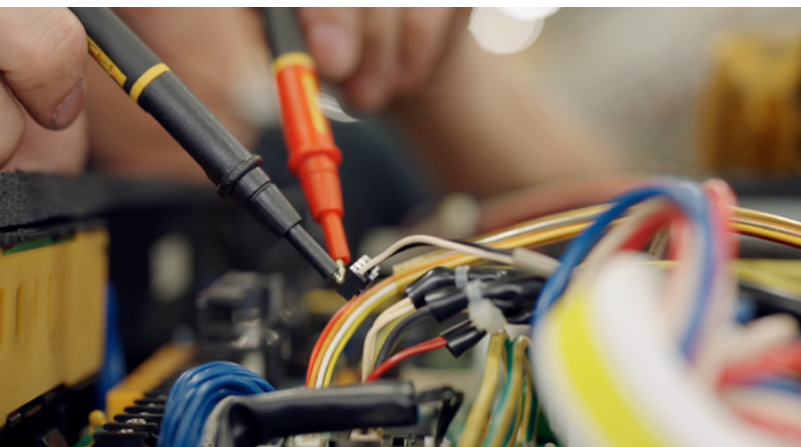


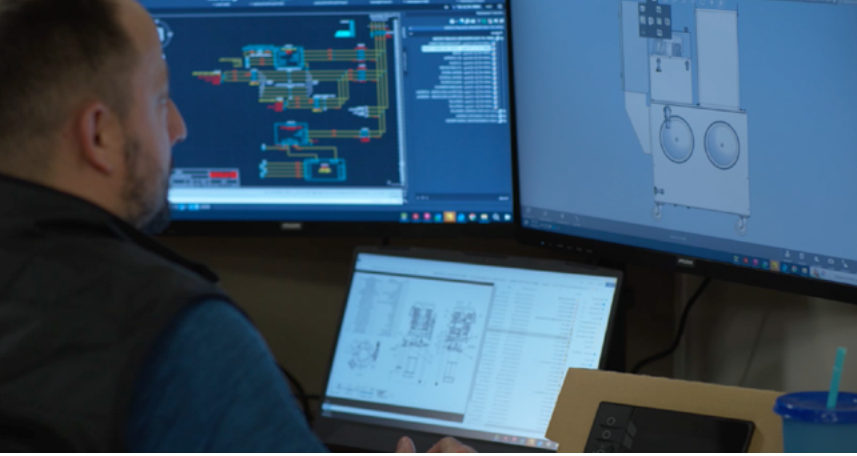
Built with IoT capabilities and multiple connectivity options, including Ethernet TCP/IP, Ethernet/IP, Modbus TCP, OPC UA, and CANopen, the controls seamlessly integrate into existing machines and facilitate remote system monitoring.

Access an array of user-accessible features through the intuitive human machine interface (HMI). View real-time diagnostics, access instruction manuals, and monitor the entire system's status.

The control package ensures optimal operation by monitoring coolant temperature, pressure, and levels, which helps in preventing overflow of the coolant tank. It also detects any filter blockages and automatically initiates a back flush.

Thanks to vendor partnerships, the SpindleSHOT is more cost effective than conventional CTS units offered by competitors.





# CUSTOMER SUPPORT

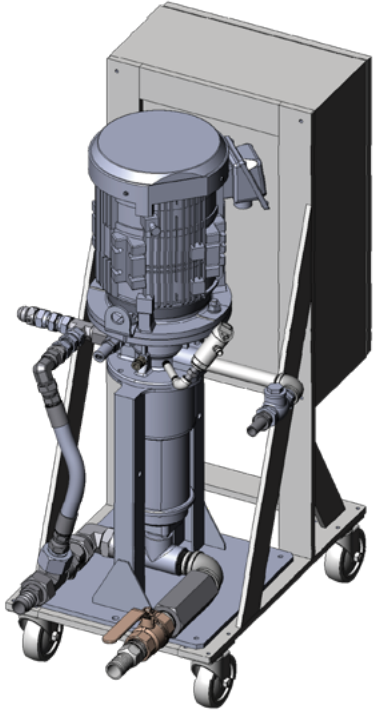
**01** Quotes are typically completed within one week, and we stock all items for fast delivery.

**02** All quotes come with a concept schematic for a visual representation.

**03** All standardized parts are in inventory. The typical lead time for unit delivery is 3-4 weeks.



# TANK VS TANKLESS

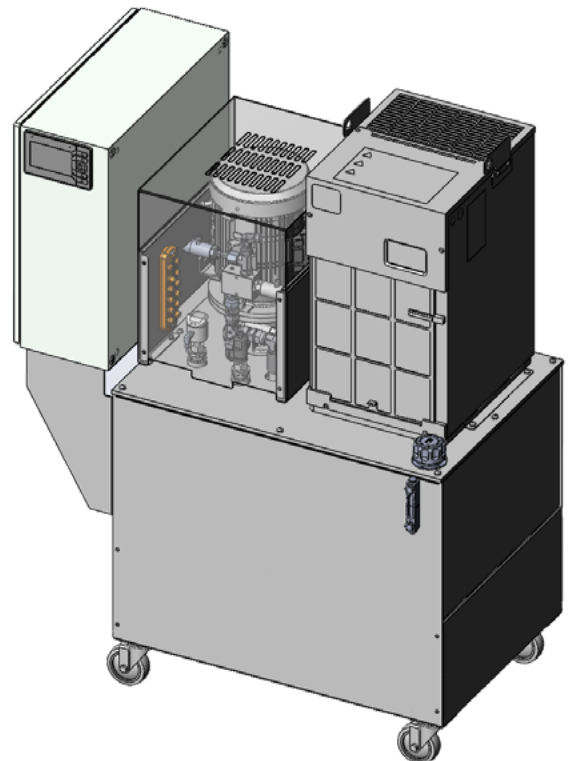


## SpindleSHOT®

A basic tankless unit with filtration and pumping capabilities is available in an economy version for intermittent use. Optional accessories include wheel kit and HMI.

## SpindleSHOT+®

Designed for regular use, the SpindleSHOT+ system includes a tank for higher volumes. Optional accessories include wheel kit, HMI, chiller, Royal Filtermist, Variaxe Oil Skimmer, stepped pressure control, and even multiple pump configurations.

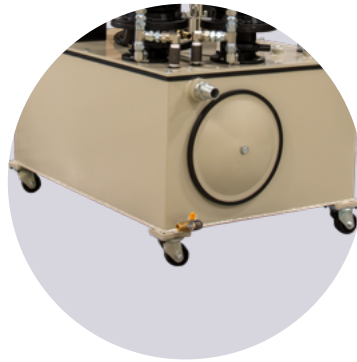




# OPTIONAL ACCESSORIES

## WHEEL KIT

Options for mobility for placement near different applications and easy serviceability.



## SMART CONTROL

Using an IoT-ready HMI/PLC operator control and smart sensors connected to an IoT-ready hub, the system can self-monitor and perform tasks like motor reversal for filter cleaning when not in use. If high-pressure coolant is needed during purging, it will pause cleaning to provide coolant and resume cleaning afterward. Being IoT-ready, it can integrate with factory monitoring systems for real-time sensor tracking.



## CHILLER

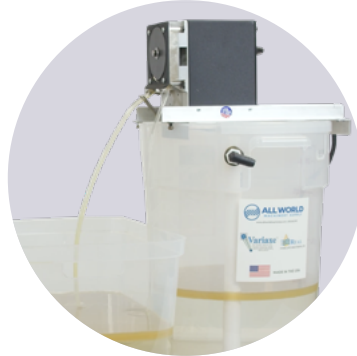
Available with three chiller options

- AKJ189 (1.8 kW capacity)
- AKJ359 (3.5 kW capacity)
- AKJ459 (4.5 kW)



## ROYAL FILTERMIST COLLECTOR

Located in the spindle work area where parts are cut, it removes oil mist and smoke from CNC lathes, mills, and grinders.



## VARIAXE OIL SKIMMER

Effectively removes oils and chips, delivering clean coolant back to your machine. Deposits oil into a pail for easy removal, with a gravity return line to prevent overflow.



## STEPPED PRESSURE CONTROL

The valve block allows for pressure adjustment to four adjustable preset settings.



## MULTI PUMP SYSTEMS

Based on the application, additional pumps can be added to provide multiple port capabilities.



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