



QUANTUM™

Advanced Integrated Lubrication

Take the leap

The Quantum™ is a leap forward in Minimum Quantity Lubrication (MQL) technology. This state-of-the-art system interfaces directly to machines, giving you total control over your MQL application.

Quantum control

The Quantum™ is designed for complex operations and gives you reliable, digital control of the MQL. When used with a Unist Spindle Kit, you get the full benefits of dual-channel, through-spindle MQL. Since the Quantum™ supports up to 6 independent outputs, it's the perfect choice when adding external spray nozzles or an air blow-off to your through-spindle application.

The Quantum™ can be controlled through discrete signals, but the real benefit comes when controlling it through the RS-232 interface. This provides a nearly unlimited number of MQL rates. You can specify the exact amount of lubricant and air required when you need it in your CNC program. The Quantum™ allows you to specify the fluid output down to a fraction of a drop to fine-tune machining processes, accurately measure and control usage, and share settings between multiple machines.



Patents pending



(optional spindle kit)



Quantify your lubrication with digitally-controlled output



Control the Quantum™ directly from your CNC program



Use both dual-channel through-spindle and external nozzles in complex cutting operations



Optimum through-spindle MQL delivery when used with a Unist Spindle Kit



Active monitoring with alerts informs operators when critical issues arise



For best results, use Unist Coolube® in your Quantum™ system. Coolube® lubricants are 100% natural, biodegradable, and derived from renewable vegetable products. They are specifically formulated for superior MQL performance and contain no VOC's, chlorine, or silicone. Coolube® lubricants will not irritate machinists' skin or stain parts, and will never oxidize or leave a sticky residue.

Keeping you machining with intelligent, precision application technology

With the Quantum™, you electronically control air and fluid flow, air blow-off, and 6 independent outputs. Through-spindle MQL can eliminate the need for external nozzles which can get in the way and require positioning. With proper design, fluid passages can be placed to deliver the MQL output precisely where it is needed for each specific tool, eliminating the need for operator adjustments. Active monitoring of flow, pressure and fluid level ensures you know when critical situations arise, allowing you to react before you destroy valuable tools or ruin your work piece.



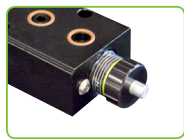
Easy setup & adjustment

The Quantum™ features an intuitive user interface for quick and easy menu navigation



Highly configurable

The Quantum™ can easily adapt for any application from simple to complex



Proven technology

Unist positive-displacement pumps have years of field-proven performance and deliver accurate, reliable output



Process monitoring

Sensors to measure fluid flow, air pressure, and fluid levels ensure performance for critical applications



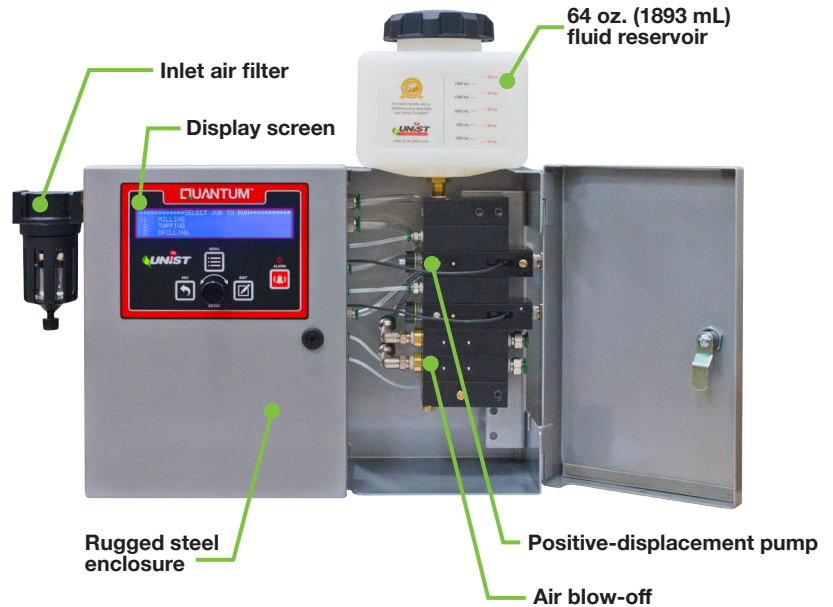
Automatic refilling

The Quantum's™ optional automatic reservoir refill feature keeps you machining without having to stop and fill a reservoir



Easy access

Optional remote user interface allows for alternate control positioning



System specifications

MQL outputs:	6
Unist Spindle Kit available:	yes
Fluid delivery approach:	intermittent positive-displacement pump
Air pressure sensor:	yes
Programmable MQL rates:	nearly unlimited

Reservoir size:	64 oz. (1893 mL)
Pump output:	6 - 400 mL/hr. per pump
Low fluid level sensor:	yes
Fluid flow sensor:	flow/no-flow sensing
Dimensions:	H - 18.30 - 25.30" (465 - 643 mm) W- 21.12" (536 mm) D - 6.56" (167 mm)



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(800) 991-4225

www.ahbinc.com

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customerservice@ahbinc.com