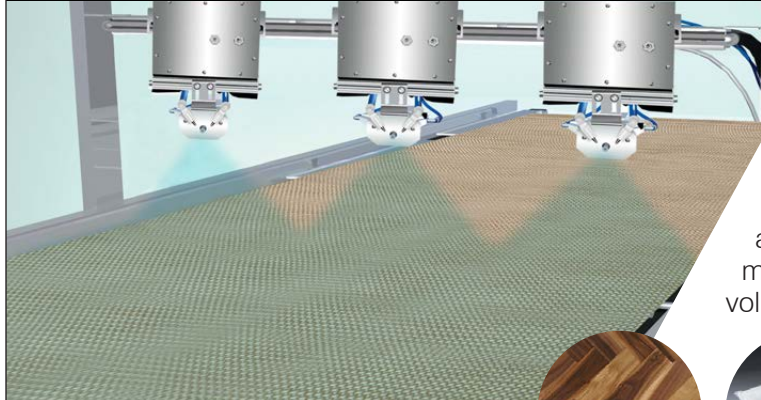


WIDETRACK

Wide Area Coating System

for Antimicrobial Coatings



Sono-Tek WideTrack ultrasonic spray systems are used for spraying Silver Silane, triclosan, and ammonium-based antimicrobial agents onto a wide variety of surfaces to prevent infection and/or inhibit the growth of mold, gram (+) and gram (-) bacteria and fungi. Ideal for flooring, medical textiles, and fabrics, WideTrack systems deposit uniform micron thick layers of antimicrobial solutions in high volume manufacturing processes.

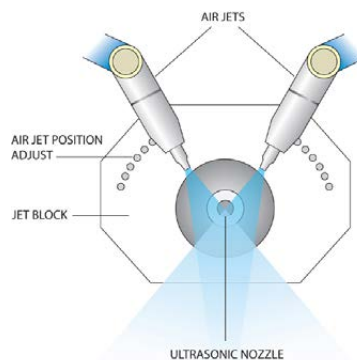


Dual Jet Spray Shaping Technology

The WideTrack ultrasonic spraying system produces a wide, fan-shaped spray pattern that is up to 12" (305 mm) or 24" (610 mm) wide (dual) and features a user friendly LCD backlit display. Sono-Tek's non-clogging ultrasonic nozzles create highly uniform, repeatable spray patterns using low velocity air shaping technology.

The soft, ultrasonically produced spray is shaped and directed toward the substrate by precisely timed alternating jets of air. Spray pattern width is adjusted by changing the position and angle of the jets for precise coverage of desired areas with very little overspray.

The WideTrack spray system offers significant advantages over conventional pressure nozzles in a range of applications. Titanium construction makes it compatible with almost any liquid, reducing waste and improving spray performance.



Ultrasonic spray benefits:

- Self-cleaning ultrasonic nozzle prevents clogging
- Highly effective atomized spray with minimal use of material (far less than soaking or other application methods)
- Flexible width control for various width substrates
- Can be configured for one side or dual side application
- Spray up or spray down capability
- Precise coating ensures maximum effectiveness with uniform release of antimicrobial compound
- Low flow rate capability



VersiCoat

Standalone conveyORIZED coating systems are also available for coating lower volumes or thinner width materials. The VersiCoat is ideal for R&D and mid volume coatings.



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WIDETRACK

Antimicrobial Coating System



System Components

Nozzle Control & Liquid Delivery

Rotary air valve controls precise timing of the air jets for uniform deposition.

The nozzle driver electronics supplies energy at the proper frequency and power to excite the ultrasonic nozzle.

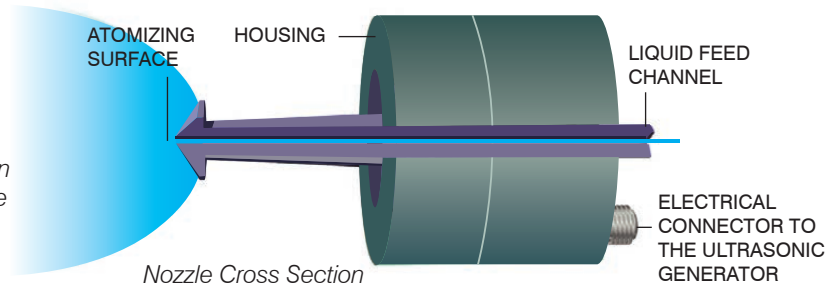
One of Sono-Tek's precision pumping systems (gear pump, MicroFlow, or Syringe Pump TI) is fully integrated, delivering liquid at a precisely controlled rate to the ultrasonic nozzle.

The electronics enclosure houses the following:

- Nozzle driver subsystem
- Liquid delivery system
- Sensor electronics and power supply assemblies
- Jets control assembly
- Rotary air dispersion valve

Liquid Atomization

Ultrasonic nozzles operate by converting a high-frequency electrical signal into mechanical expansion and contraction of two piezoelectric transducers. This causes vibrations to be sent down the nozzle's titanium horn. Liquid emerging onto the atomizing surface is broken into a fine spray by the ultrasonic energy concentrated there.



Nozzle Cross Section

WIDETRACK WIDE AREA COATING SYSTEM SPECIFICATIONS

General Specifications

Coating System	Stationary ultrasonic nozzle with air-operated spray dispersion assembly
Construction	Stainless steel, titanium, Teflon®, polypropylene, Delrin®, Ryton® (wetted materials)
Controller	8-bit micro-processor
Analog Channels	Up to 8 with 12-bit resolution
Display	Backlit LCD (4x40)
Width Range	2-24" (50-600mm) Custom widths available
Flow Rate Range	<i>Gear Pump:</i> 10 - 200 ml/min <i>MicroFlow Pump:</i> 0.01 - 25ml/min <i>Syringe Pump TI:</i> 0.01 - 50 ml/min
Deposition Uniformity	±10%
Deposition Repeatability	± 2%

Service Requirements

Line Power	110/120 VAC, 50/60 Hz or 220/240 VAC, 50/60 Hz Single phase, 750 VA max
Compressed Air	Clean, dry and oil-free
Supply Pressure	70 - 150 psi
Capacity	3 cfm / 24"
Exhaust	Application dependent

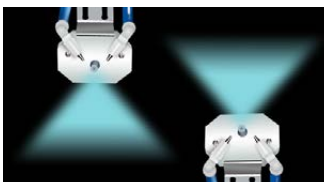
System Enhancements and Options

Enhancements

Programmable operation with RS232 communications and 250 recipe storage
Standalone enclosure
Chain/tab conveyor

Options

Titanium spray assembly
Stainless steel reservoir with filter and level sensor
Three position light tower
Calibration kit



WideTrack systems can be mounted in spray up or spray down configurations.

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leadership through innovation since 1975

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