

NIDETRACK

Wide Area Coating System

Highly-controllable uniform spray for float glass processes

Ideal for inline anti-stain protective coatings to protect against corrosion during transport and storage.

- Virtually no overspray and no mess
- Target deposition precisely controlled, adjusting automatically to ribbon speed changes
- Drastic reduction or elimination of exhaust and scrubber requirements
- Low maintenance ultrasonic nozzles will not clog
- Drip-free spray



SONO•**TEK** Corporation

ISO CERTIFIED www.sono-tek.com

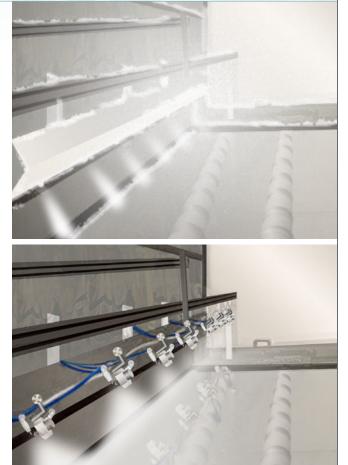
WIDETRACK^{DUAL JET}

Sono-Tek's experience and understanding of the unique demands of continuous float glass production have contributed to making the WideTrack spray system superior for the needs of the industry. It's proven reliability and low maintenance design make it excellent for 24/7 glass manufacturing processes.

Highly controllable spray

The illustrations on the right depict glass manufacturing using conventional pressure spray (top) versus Sono-Tek's WideTrack system (bottom). The difference is dramatic. The amount of waste is greatly reduced, saving liquid usage and minimizing the release of material into the atmosphere, which promotes better environmental conditions as well as lowering risks to employees' health. The resulting benefits of Sono-Tek's low-velocity ultrasonic technology saves cost in materials, maintenance, exhaust requirements, and is beneficial in attaining and retaining ISO 14001 compliance.





Precise deposition of all levels and combinations of acid solutions, including:

- Highly visible Adipic/Maleic/Malic acid mixture
- Slightly visible "Stain Retard 101" mixture
- Barely visible "Irristop" mixture

Total Customer Support

Sono-Tek has developed a wide range of quality spray systems based on our patented ultrasonic liquid spray technology for more than 30 years. Each WideTrack System is configured and factory tested specifically for each application. Installation at your facility is performed by our experienced field service staff who will work with you to set up your process and train your production and service personnel. After installation, we offer full support for service, process setup, or system operation with factory trained service technicians.



A typical WideTrack Dual Jet installation 🕨 🕨

Non-clogging ultrasonic technology

WideTrack's control center and state-of-the-art pumping system are designed for flexibility, easy access and operation

- Robust pump with high precision and repeatability of <0.5% STDEV from nozzle to nozzle
- Wetted path pump system is compatible with interleaving acids
- Pump features 100 micron dual filter filtration with "swap on the fly" capability
- No heat build-up despite the high temperatures of float glass production
- Integrated air conditioning system keeps electronics cabinet cooled
- Real time monitoring of all system functions with extensive data logging
- Intelligent control tower with full PLC control using 19" touch screen HMI
- Line speed encoder for continuous monitoring of process and dynamic deposition control, adjusting to ribbon speed changes without operator intervention.

Liquid Density % Solids	1	gmini	Skie moogaa Referenciaaj				
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Ught Deposition Density	7	mgʻsq tt mgʻsq tt mgʻsq tt	4	5	6	Treat	
Medium Deposition Density Heavy Deposition Density	9						
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19" touch screen HMI

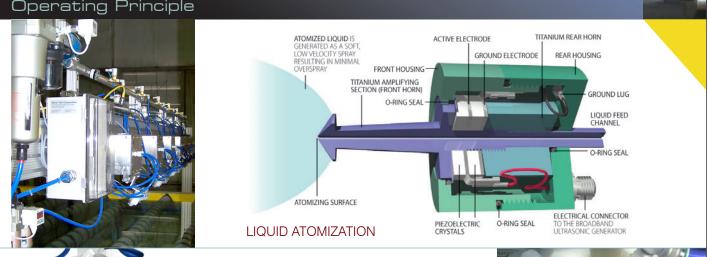




Operating Principle

Air Jets

Ultrasonic Nozzle



Each spray assembly contains a pair of air jets which alternately pulse to drive the spray downward. The timing and force of the pulses produces a spray pattern that oscillates back and forth across the substrate.



WIDETRACK DUAL JET COATING SYSTEM SPECIFICATIONS

General Specifications

Coating System	Stationary ultrasonic nozzles with air-operated spray dispersion assemblies					
Construction	Stainless steel, Titanium, Teflon [®] , Polypropylene, Kynar [®] , Ryton [®]					
Width Range	Up to 156" (4 m) - standard configuration for 8 spray assemblies					
	Custom widths available					
Flow Rate Range	3 - 100 ml/min					
Deposition Uniformity	±10%					
Deposition Repeatability	± 2%					

Ultrasonic sensors detect the presence of float glass. Spray heads turn on and off automatically as required for different width glass. Flow rates and ultrasonic nozzle power are configured to automatically adjust for changing line speed.

Control Center Specifications

Supply Pressure

Windows® based imbedded industrial controller (modern PLC) with 19" touch screen HMI Output Control for 1 - 8 spray assemblies NEMA 12 cabinet Cabinet cooled by integrated AC Liquid distribution manifold Relays 1 input: Remote PLC or PC control through an On/Off input relay suspends spraying when glass is present but coating is not required. 2 outputs: Alarm output relay provides remote notification of alarm conditions. 24V input opto-coupler for reading line speed: 24 VDC square wave pulses Encoder package senses line speed changes. **SONO**•TEK Corporation ISO CERTIFIED Service Requirements Corporate Headquarters: 220 VAC, 20 A, L, L, NG 50/60 Hz Line Power 2012 Rte. 9W, Milton, NY 12547 USA Cabinet accepts 5/8" cable (nominal) Phone: 845.795.2020 Fax: 845.795.2720 Compressed Air Clean, dry and oil-free

90 - 150 psi @ 750 CPM minimum

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