

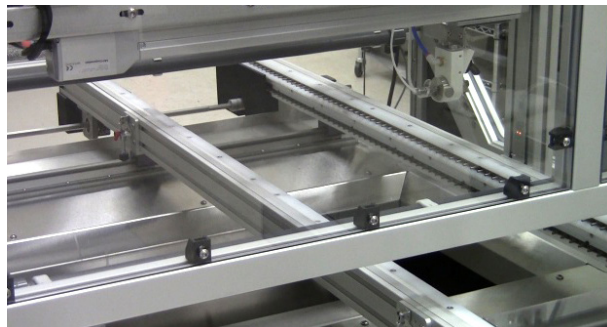
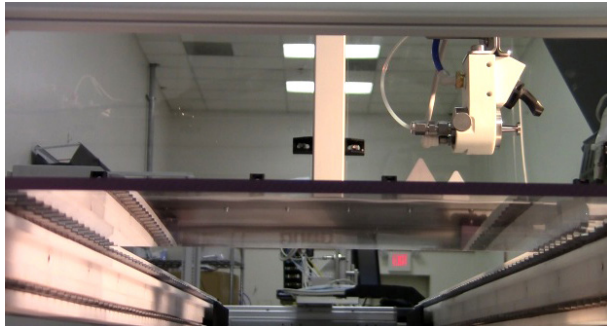


VersiCoat^{RC} Production Volume Coating System



A dependable, versatile, low maintenance coating system for production volume ultrasonic coatings, VersiCoat features:

- Easy access to control modules & spray area
- Programmable recipe driven coating system
- Spray Width: 50-610mm (2-24inches)
- Conveyorized systems with max conveyor speed: 11m/min (36 ft/min)
- Floor space required:
1829mm W x 1295mm D x 1655mm H
(72in W x 51in D x 65in H)



VersiCoat^{RC} uses one Impact reciprocating ultrasonic nozzle on a precision reciprocating platform.

A separate electronics drawer houses the nozzle driver subsystem, liquid delivery system, conveyor speed control, and power supply, as well as the air jet control system.

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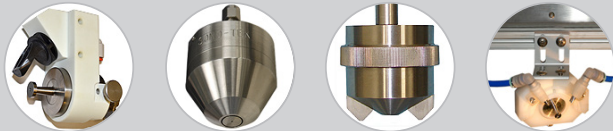
Operating Principle

Liquid Atomization: Ultrasonic nozzles operate by converting a high-frequency electrical signal into mechanical expansion and contraction of two piezo-electric transducers. This causes vibrations to be sent down the nozzle's titanium horn. These vibrations create capillary waves in liquid passing through the nozzle, resulting in a spray of fine droplets at the nozzle's atomizing tip.

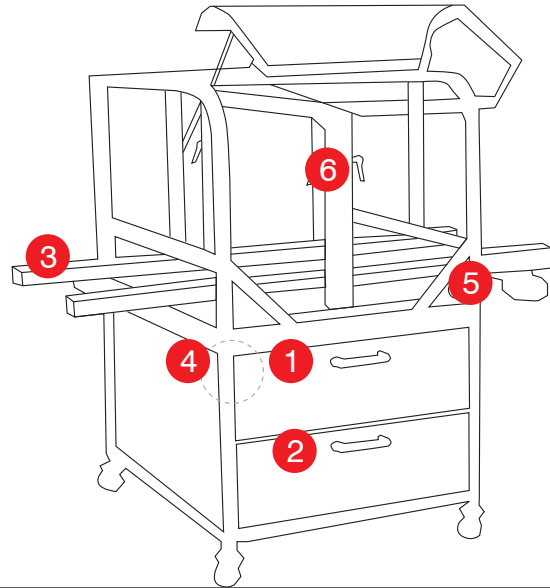
Liquid Delivery: The following liquid delivery systems can be configured with the VersiCoat system:

1. Gear Pump (standard or low flow)
2. Syringe Pump TI with precision touch interface
3. MicroFlow high accuracy positive displacement pump
4. SonoFlow Fusion continuous syringe pump with ultrasonic dispersion for suspensions with easily agglomerated particles.

VersiCoat is also available as a stationary system, **VersiCoat WT**, incorporating one or more nozzles, with either Impact, WideTrack Dual Jet, Vortex, or Propel air shaping systems. Sono-Tek's Application Engineering team will evaluate and recommend an air shaping system based upon spray requirements.



System Overview



1. Slide out drawer for cleaning the exhaust
2. Slide out drawer for E-Boxes
3. Conveyor
4. Main exhaust port (in rear)
5. E-Stop
6. Adjustable spray height

SYSTEM SPECIFICATIONS

General Specifications

Coating System	Enclosed programmable conveyORIZED spray system with 1 Impact reciprocating ultrasonic spray head
Conveyor Width	Adjustable from 5-60cm (2-24")
Conveyor Speed	0-3 m/min or .5-11 m/min (3.3 ft/min or 1.6-36 ft/min)
Flow Rate Range	
<i>Gear Pump</i>	2-20 or 10-70 ml/min
<i>Syringe Pump TI</i>	.01-50 ml/min
<i>MicroFlow</i>	.01-25 ml.min
<i>SonoFlow</i>	.5-20 ml/min
Deposition Uniformity	±5-15%, depending upon configuration
Deposition Repeatability	±2%

Total Customer Support Sono-Tek has been developing and manufacturing a wide range of quality products based on our patented ultrasonic spray technology for more than 25 years. Each ultrasonic system is configured and factory tested specifically for each application.

Installation at your facility will be performed by our experienced field service staff who will work with you to set up your process and train your production and service personnel.

Control

Compact notebook with Windows®-based software

Service Requirements

Power	120, 220 V ±10%, 50-60Hz
Compressed Air	Clean, dry and oil-free 552-689 kPa (80-100 psi) at 20-400LPM (0.7-14 CFM)
Exhaust	8500-16990 LPM (300-600 CFM)

Dimensions

Enclosure dimensions: 163cm H x 184cm W x 122cm D
(64" H x 72.5" W x 48" D)

Minimum floor space required: 198cm H x 184cm W x 213 cm D
(78" H x 72.5" W x 84" D)

Sono-Tek Corporation has been providing innovative precision spray solutions to manufacturers for over 30 years, with a global distribution network for superior worldwide service and support.

SONO•TEK Corporation
leadership through innovation

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