

IMPACT

Controllable Ultrasonic Atomized Spray for Uniform Coatings

- Highly controllable ultrasonic spray produces reliable, consistent results
- Non-clogging ultrasonic nozzle
- Capable of spraying high-velocity moving webs
- Wide range of flow rate capabilities, intermittent or continuous
- Covers up to 6" (15 cm) with one nozzle or use multiple nozzles to cover any width substrate
- Uniform coating with high transfer efficiency
- High-velocity spray is easily controlled resulting in minimal bounceback and overspray
- No moving parts
- Reduced material consumption

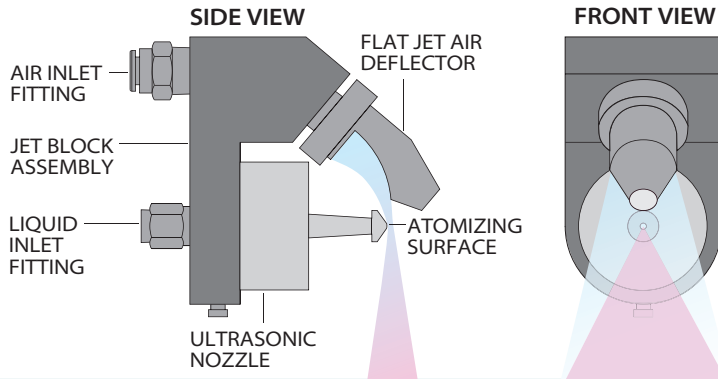
The Impact System offers significant advantages over conventional pressure-spray methods in a broad range of applications. Whether you are coating moving webs of non-woven fabrics, float glass, or odd-shaped industrial or consumer products, the Impact system maintains precise control of the coating at the flow rate you specify. Waste is greatly reduced, since the ultrasonic spray can be easily controlled with the high-velocity Impact air jet. Maintenance is kept to a minimum because ultrasonic nozzles will not clog. In addition, the titanium and 316 stainless steel construction of the Impact system makes it compatible with almost any liquid.

The Impact air jet assembly can be configured with any of Sono-Tek's various ultrasonic nozzles (frequencies from 25-120 kHz*), allowing complete control of drop size for specific applications.

* Shown with 60 kHz nozzle

Operating Principle

The Impact System combines Sono-Tek's unique ultrasonic atomizing nozzle with a controlled jet of air from the flat jet air deflector. The ultrasonically produced spray at the atomizing surface is immediately entrained in the air stream, creating a fan-shaped spray pattern. The velocity of the air stream is controllable, allowing low or high-impact of the atomized spray onto the product or substrate.



The Impact system can be configured with multiple nozzles for coating wide width substrates.

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 Impact 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.

We want you to be completely satisfied with the quality, performance, and reliability of your system. After installed, we are available for consultation on service, process setup, or system operation.

IMPACT 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)
Width Range	2-6" -single head (5-15 cm) (unlimited width-multiple heads)
Flow Rate Range	1-10, 10-70 or 20-99 ml/min
Deposition Uniformity	±10%
Deposition Repeatability	± 2%

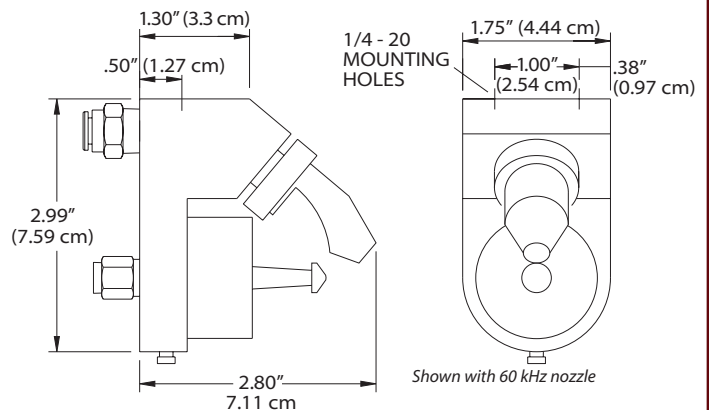
The Impact system can spray in any orientation - up, down or any angle using a single nozzle or multiple nozzles.



Service Requirements

Input 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	5-40 psi
Capacity	4-12 cfm per head
Exhaust	application dependent

Dimensions:



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Leadership through Innovation

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Global Solutions in Ultrasonic Spray Technology

Sono-Tek's corporate headquarters are located in Milton, NY USA, with additional offices in Hong Kong. Our extensive global support and distribution network provides factory trained personnel with local language support in dozens of countries worldwide.



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Comprehensive Solutions in Process Automation and Technology