

# Flexi-Coat<sup>MAX</sup>

PROGRAMMABLE COATER



The FlexiCoat MAX System is a large area customized, programmable 3-axis platform that offers a variety of options, size configurations, automation options, and wide spray widths. Multiple nozzle configurations are often used for large area spray width and high volume coating applications.

FlexiCoat MAX is a line of large format XYZ coating systems with coating area from 800x800mm - 1400x1400mm. Benefits and features include:

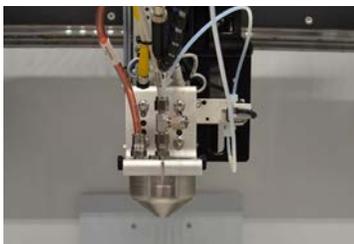
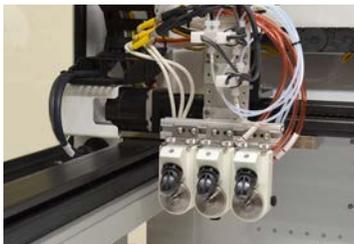
#### BENEFITS

- Up to 80% reduction in material consumption
- Reduced wasteful overspray and atmospheric contamination
- Minimal servicing and downtime
- Self-cleaning ultrasonic nozzle prevents clogging
- Highly controllable spray produces reliable, consistent results
- Low-velocity delivery will not harm or disturb components
- Controllable drop size enables customization of coating morphology

#### FEATURES

- Windows®-based programming software
- Teach pendant with trackball for easy axis motion and programming
- Offline programming capabilities
- Programmable three-axis coordinated motion via precision servo motors
- Wide range of delivery rates from .02 ml/min and up
- Ideal for flat or odd-shaped substrates
- Available with SMEMA conveyor for inline process
- Exhaust sensor

ULTRASONIC COATING SYSTEM



Single and multi-head configurations available



**SONO•TEK Corporation**

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## FlexiCoat™ Programmable Coating System Specifications

Work Area: Custom sizing, application dependent

Repeatability:  $\pm 0.04$  mm (0.0016 in)

Resolution:  $\pm 0.005$  mm (0.002 in)

Motor: Servo

Drive Mechanism: Ball screw drive

Software Control: Pathmaster®

Windows-based

Air: 80 PSI dry unlubricated air

Conveyor Capability: SMEMA

Certification: CE certified

Options:\*

Heat plate temp: Up to 250°C  
Vacuum plate: 4 zones, user controlled

Camera: Adjustable viewing area  
(Passive Vision or Active with fiducial recognition)

Laser pointer

4th Axis: Rotational

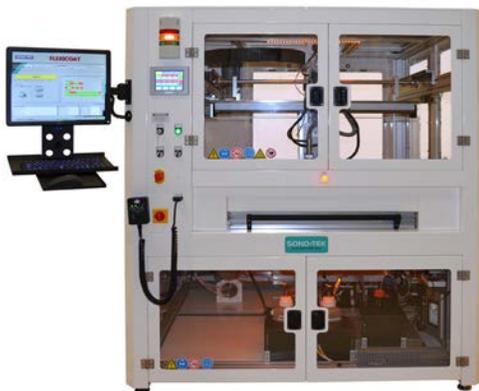
Custom load drawers and substrate fixturing

\*Many additional options are available based on application and process needs

## Sono-Tek Laboratory Services & Applications Engineering Team

Sono-Tek's in-house laboratory services offer the expertise of our engineering and technical staff in resolving process issues and tailoring our technology to meet the needs of our customers. Our applications engineering team includes 6 full time staff members to guide testing and machine specification.

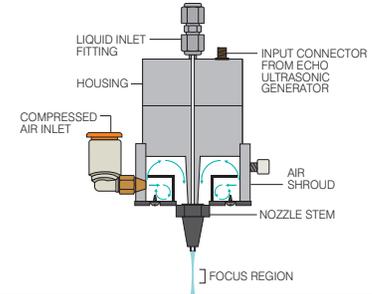
### Examples of FlexiCoat MAX configurations



## Sono-Tek ultrasonic nozzles can create a variety of precise spray patterns:

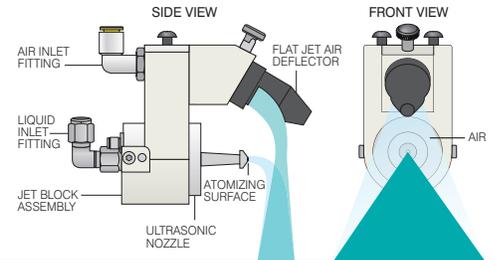
The AccuMist™ nozzle creates a narrow, slightly bow-shaped spray pattern.

Pattern width adjustable from 0.070 - 0.250" (1.778 - 6.35 mm).



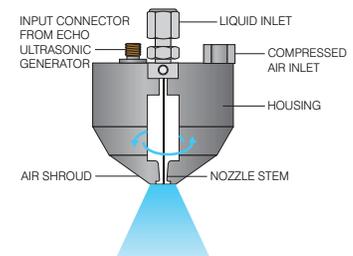
The Impact nozzle creates a wide, fan-shaped spray pattern.

Pattern width adjustable from 2 - 6" (50 - 150 mm).



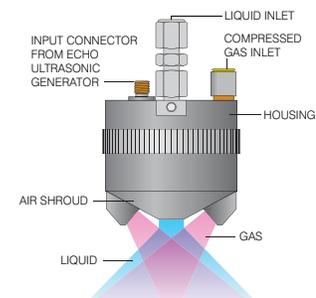
The Vortex nozzle produces a wide, conical spray pattern.

Pattern width adjustable from 2 - 4" (50 - 102 mm) in diameter.



The Propel nozzle produces a very wide, fan-shaped spray pattern.

Pattern width up to 9.8" (250 mm) in diameter.



**SONO•TEK Corporation**  
leadership through innovation

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