

Flexi-Coat

PROGRAMMABLE COATER



The FlexiCoat System is an inline programmable 3-axis small footprint platform that is ideal for practically any spray coating application that requires precise deposition. This system employs robust ball screw slides driven by servo motors. Any Sono-Tek nozzle can be integrated. Spray patterns are easily shaped, ranging from 2 - 153 mm (0.01 - 6") wide. A variety of integrated liquid delivery options are available with a wide range of flow rate capabilities, depending on system configuration.

The FlexiCoat system has many benefits and integrated features:

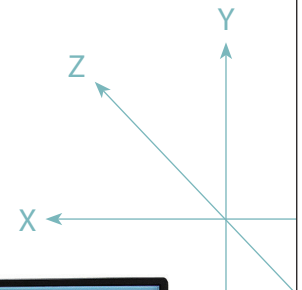
BENEFITS

- 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
- Small footprint platform minimizes floor space required
- 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
- 500 x 500 x 100 mm (19.69 x 19.69 x 3.94") range of motion
- Programmable three-axis coordinated motion via precision servo motors
- Non-volatile memory for storage of up to 30 programs
- Nozzles can be easily interchanged
- 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



Optional Equipment:

Contact Heat and/or Vacuum Plate

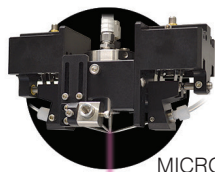
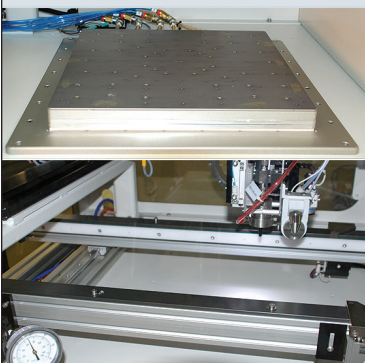
Ultrasonic Dispersion Pump - for keeping suspensions evenly dispersed during coating process

MicroFlow Recirculation Pump - for precise dispense of suspensions at very low flow rates

Camera - Passive or Active Vision (fiducial recognition)

Laser Pointer

Rotational 4th Axis - for coating rods/wires



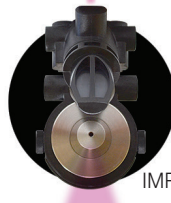
MICROMIST™



VORTEX



ACCUMIST™



IMPACT



SONO•TEK Corporation

ISO CERTIFIED

FlexiCoat™ Programmable Coating System Specifications

Work Area: 500 x 500 x 100 mm
(19.69 x 19.69 x 3.94 in)

*NOTE: Coating area may be reduced depending on nozzle configuration, options and accessories

Repeatability: ± 0.04 mm (0.0016 in)

Resolution: ± 0.005 mm (0.002 in)

Motor: Servo

Drive Mechanism: Ball screw drive

Work Payload: 11.4 kg (25 lbs.)

Inputs/Outputs: 52

Software Control: Pathmaster®

Windows-based

Power: 120V, 220V, ±10%, 50-60Hz

Air: 80 PSI dry unlubricated air

Exhaust: 150-200+ cfm (4248-5663+ lpm) - customer supplied

Conveyor Speed: Programmable up to 24.38 m / min (80 ft / min)

Conveyor Capability: SMEMA

Conveyor Process Flow: Programmable right to left or left to right

Conveyor Edge Clearance: SMEMA standard 0.185 in

Belt Conveyor Weight Limit: 11 kg (5 lbs.)

Chain Conveyor Weight Limit: 33 kg (15 lbs.)

Floor Space Required:

100" W x 100" H x 110" D

2540 mm W x 2540 mm H x 2794 mm D

Certification: CE certified

Options:

Heat plate temp: Up to 250°C

Vacuum plate: 4 zones, user controlled

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

Laser pointer

4th Axis: Rotational

Dimensions:

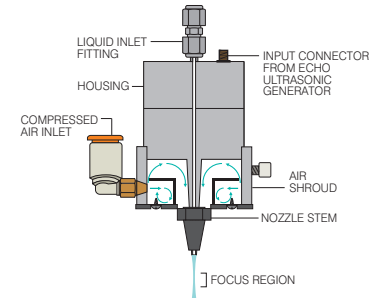
869 mm W x 1952 mm H x 1137 mm D

34.2" W x 76.9" H x 44.8" D

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

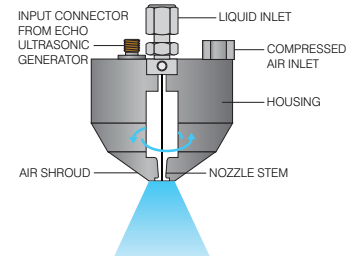
The AccuMist™ nozzle creates a narrow, slightly bow-shaped spray pattern.

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



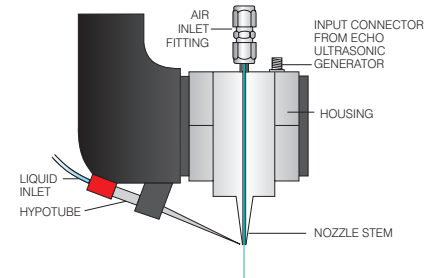
The Vortex nozzle produces a wide, conical spray pattern.

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



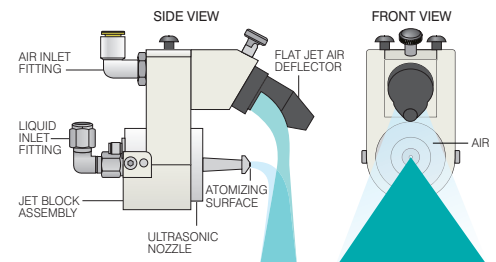
The MicroMist™ nozzle creates a very narrow, cylindrical spray pattern.

Pattern width adjustable from 0.010 - 0.030" (0.26 - 0.77 mm).

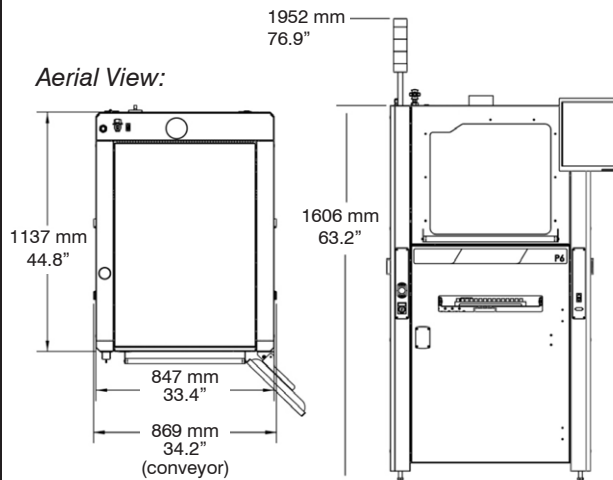


The Impact nozzle creates a wide, fan-shaped spray pattern.

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



Aerial View:



Sono-Tek Laboratory Services

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.

SONO•TEK Corporation
leadership through innovation

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