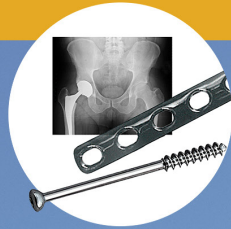


# Ultrasonic Medical Device Coating Systems

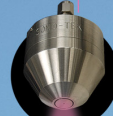
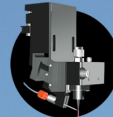
## Turn key coating solutions

System features include:

- Coordinated motion in all 3 axes
- Wide range of flow rate capabilities
- Spray patterns from 0.08 - 6" wide (2-153 mm)
- Numerous options for customizing to a specific application
- Windows-based programming software



*ExactaCoatMD and FlexiCoatMD are fully-enclosed programmable 3-axis precision ultrasonic coating systems designed for spraying uniform thin films onto medical devices and implantables. Fully integrated with Sono-Tek ultrasonic nozzles, spray pattern widths can be easily shaped to accommodate various size substrates, including those with complex geometries.*

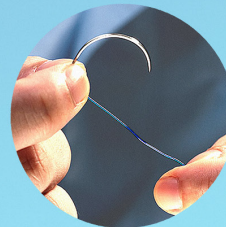
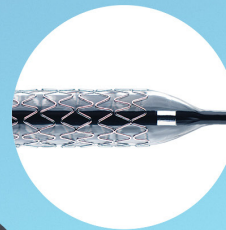


Tabletop programmable coating system  
400x400x100 mm range of motion

## FlexiCoatMD



Standalone inline programmable coating system  
500x500x100 mm range of motion



Sono-Tek ultrasonic nozzles feature:

- Up to 80% reduction in coating material
- Reduced wasteful overspray
- Non-clogging design results in minimal servicing and downtime
- Highly controllable spray produces reliable, repeatable, consistent results
- Corrosion-resistant titanium and stainless steel construction
- No moving parts to wear out



# XYZ Programmable Coating System Specifications

## Work Area

**ExactaCoat:** 400 x 400 x 100 mm\*  
(15.75 x 15.75 x 3.94 in)

**FlexiCoat:** 500 x 500 x 100 mm\*

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

## Repeatability

**ExactaCoat:** ± .025mm (0.001 in)

**FlexiCoat:** ± .04mm (0.0016 in)

## Resolution

**ExactaCoat:** ± .015mm (0.0006 in)

**FlexiCoat:** ± .005mm (0.0002 in)

**Motor:** Brushless DC servo

**Drive Mechanism:** Ball screw drive

**Work Payload:** 11.4 kg (25 lbs.)

**Inputs/Outputs:** 52

**Software Control:** Windows®-based (PC included)

**Power:** 120V, 220V, +/- 10%, 50-60Hz

**Air:** 80 PSI dry unlubricated air

**Certification:** CE certified

## Options

Heat plate temp - Up to 150°C

Vacuum plate  
4 zones, user controlled

Camera  
Adjustable (Passive Vision)  
viewing area

Laser Pointer

4th Axis - rotational

Low oxygen atmosphere with monitoring

MicroFlow recirculation pump  
for precise dispense of suspensions  
at very low flow rates

## Dimensions

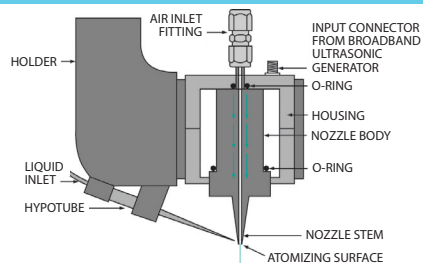
**ExactaCoat:** 944 mm W x 831 mm H  
x 794 mm D  
(37.2" W x 31.2" H x 32.7" D)

**FlexiCoat:** 1219 mm W x 1505 mm H x  
942 mm D (48" W x 59.3" H x 37.1" D)

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

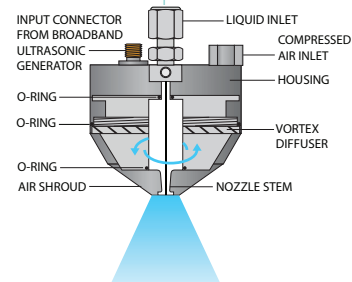
**The MicroMist™ nozzle creates a very narrow, cylindrical spray pattern.**

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



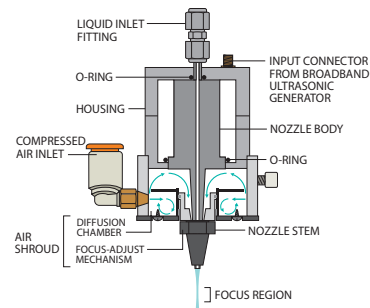
**The Vortex nozzle produces a wide, conical spray pattern.**

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



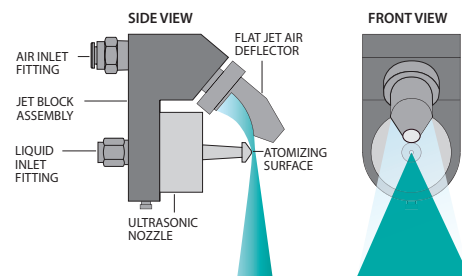
**The AccuMist™ nozzle creates a narrow, slightly bow-shaped spray pattern.**

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).



All four nozzles shown create precise, repeatable, controllable, low-volume atomized spray patterns and can be easily integrated with the ExactaCoat MD and FlexiCoat MD Programmable Coating Systems. Most commonly used with a Sono-Tek syringe pump for precision, low-flow applications.

**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 our customers' needs.



**SONO•TEK Corporation**  
leadership through innovation since 1975

Corporate Headquarters:  
2012 Rte. 9W, Milton, NY 12547 USA  
Phone: 845•795•2020  
Fax: 845•795•2720

E-mail: info@sono-tek.com ISO CERTIFIED  
Web: www.sono-tek.com  
Printed in USA  
©2011 Sono•Tek Corporation. All rights reserved  
XYZMD11R2