

UCS2000 is an ultrasonic spraying equipment used for drug balloon and stent. The equipment uses high-frequency ultrasonic nozzles and an integrated precision injection pump, which can achieve smaller drug atomization particle size and improve the uniformity and consistency of stents. UCS2000 is equipped with precise spindle that runs smoothly and holding chuck with three internal needle fingers suitable for stents of various sizes and materials. In addition, UCS2000 adopts a special catheter looping mounting system allowing any catheter length, any luer or no luer at all of drug balloon catheters, fundamentally solving the problem of holding ultra long catheters.

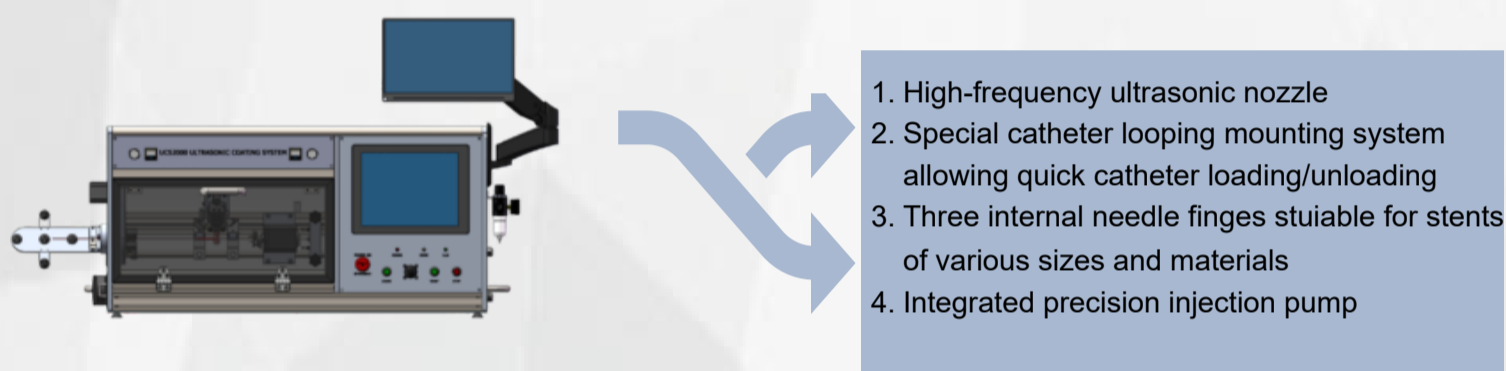


Figure 1 UCS2000 Ultrasonic Coating System

## TECHNICAL PARAMETER

Ultrasonic atomization system	Ultrasonic nozzle frequency	130KHz
	Ultrasonic power	0-5W
	Ultrasonic power control accuracy	0.1W
	Spray flow	0.01-2ml/min
	Diversion pressure	0-15psi
	Can spray balloon length	0-300mm
Injection pump system	Syringe size	10μl-60ml Optional
	Flow range	0.01μl/min-43.35ml/min
Motor system	Accuracy of linear motion	0.01mm
	Linear maximum velocity	30mm/s
	Maximum rotational speed	300r/min

## PERFORMANCE CHARACTERISTICS

### Ultrasonic Nozzle and Syringe Pump

- Ultrasound nozzle with 130 KHz frequencies
- Ultrasound power 0-5W with accuracy 0.1W
- Flow rate 0.5-2mm
- Ultrasound syringe pump for suspension solutions

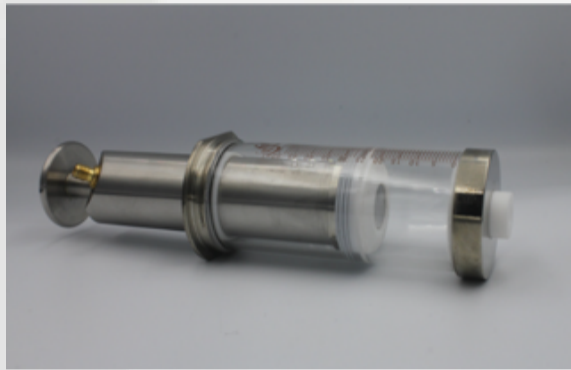


Figure 2 Ultrasound syringe

### Ventilation System

- High volume ventilation system allowing excessive fume to be expelled
- Removable ventilation filter allowing quick cleaning
- External high pressure fan, easy to clean and replace



Figure 3 Ventilation system

### Catheter holding fixture

- Special catheter looping mounting system, allowing any catheter length, any luer or no luer at all
- Spindle speed 0-300 Rpm
- Hollow shaft spindle with large opening and guiding clamp for quick catheter loading/unloading

### Control System

- 12" Touch screen controller, Support English and Chinese language
- Allow 1000 recipes stored in HMI
- Real time display of machine status and parameter values

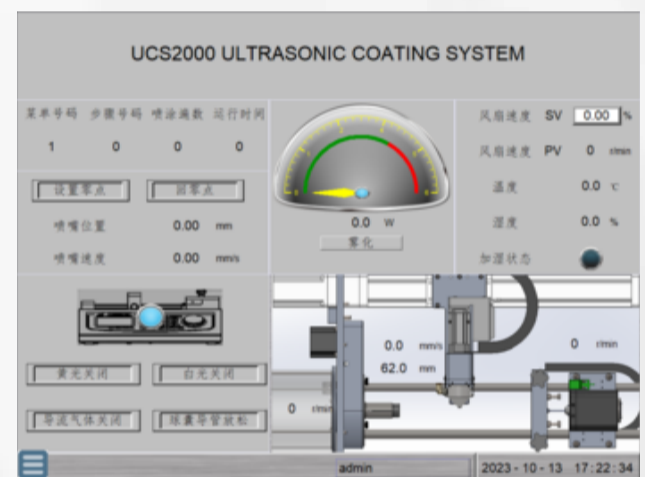


Figure 4 Control system interface

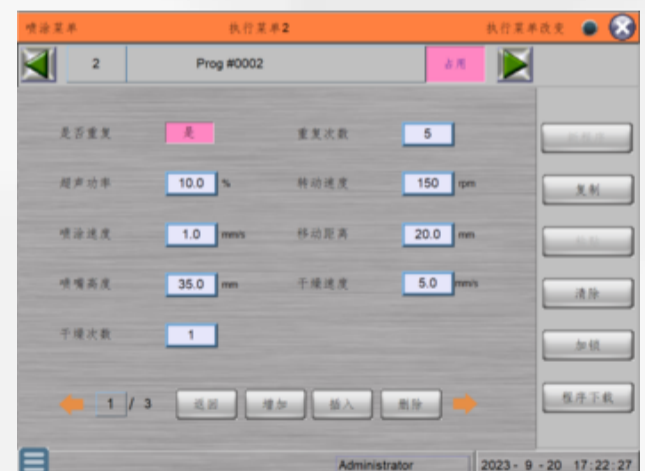


Figure 5 Coating process interface

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