

CHEERSÖNIC

intelligent ultrasonic solutions



UAM1000

Ultrasonic Thin Film Coating Machine

APPLICATION

- Biomedicine: microfluidic chips, biosensors, etc.
- Microelectronics and semiconductors: PCB flux, conductive ink, photoresist, ink, etc.
- Energy: fuel cell membrane electrode, thin film solar cell, perovskite
- Glass: AR, AG AF, hydrophilic and hydrophobic, transparent conductive layer, carbon tube material
- Textiles and non-woven fabrics: super hydrophobic, antibacterial, dustproof, etc.
- Food processing: food additives

UAM1000 ultrasonic thin film spraying equipment combined with new spray and control technology can achieve a more uniform and controllable film coating. This equipment can be applied to a full range of ultrasonic nozzles, integrating multiple systems such as ultrasonic spray system, cargo system and exhaust system etc. It is suitable for the preparation of small or medium-area thin films. This equipment is widely used in the field of precision coating preparation, such as fuel cell proton exchange membrane spraying, thin film solar energy, perovskite, photoresist wafer, nano new materials, glass coating, etc.



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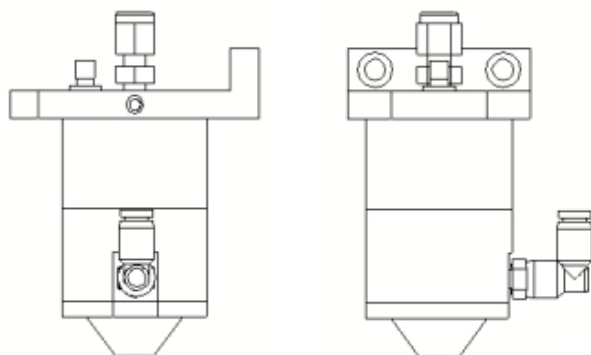


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FEATURES & BENEFITS

- Ultrasonic nozzle (multiple series nozzles can be equipped)
- The nozzle is not easy to be clogged
- Uniform and controllable spray coating
- Desktop design is easy to move
- Effective spraying area 200*200 mm
- Liquid utilization rate>95%
- High temperature heating system
- Constant flow syringe pump system
- Ultrasonic dispersion liquid supply to prevent suspension deposition
- Vacuum adsorption board, can adsorb flexible substrate

Ultrasonic Spraying System	•Multiple series of ultrasonic nozzles •Max spraying width: 60mm •Particle content: <20% •Particle size: 10-40um •Flow rate: 0.1-40ml/min	Liquid Delivery	Ultrasonic dispersing syringe, Keep the suspension evenly dispersed during the spraying process
Liquid Utilization Rate	95%	Environment Temperature	0-40℃
Spray Uniformity	5%	Control System	Self-developed 6-axis control system, 7-inch full-color touch LCD screen, remote control mode
Work Area	200*200 mm (7.87" x 7.87")	Exercise System	XYZ three-axis system
Viscosity	<30cps	Exhaust System	No
Solid Content	<20%	Motors	Digital AC servo motor drive
Speed	XY: 200mm Z: 50mm	Certification	CE
Nozzle Alignment	Laser assisted alignment	Power Requirements	220V, +/-10%, 50-60Hz, single phase
Vacuum Adsorption	Flexible substrate	Dimensions	650L*600W*870H mm
Heating Substrate	Maximum temperature: 150℃	Weight	150kg

