UAM4000L combines the latest spray and control technology in the world, results in a more uniform, thinner, more controllable film coating. UAM4000L integrates multiple systems such as program, carrier gas, heating station, vacuum adsorption, and exhaust gas exhaust, it can be applicable to a full range of ultrasonic nozzles for small or medium area coating production. This equipment is being widely used in the field of precision coating preparation.
**UAM4000L Ultrasonic Spraying System**

**FEATURES & BENEFITS**
- Including the ultrasonic spraying system, non-clogging nozzle
- Uniform and controllable coating
- Liquid utilization rate >95%
- Automatic nozzle cleaning system
- Desktop design is easy to move
- The maximum spraying area is 300*300mm
- XYZ three-axis coordination simultaneous operation
- Remote control
- The solution and suspension can be sprayed.
- Constant flow syringe pump system
- Vacuum adsorption plate for adsorbing soft film substrate
- High temperature heating system, can provide 400 °C high temperature
- Can be docked to the laboratory or the clean room exhaust system, or use its own exhaust fan

### Technical Specifications

**Ultrasonic spraying system**
- Frequency: 50khz, 60khz, 120khz
- Spraying width: 80mm
- Particle content: <10%
- Particle size: 10-40um

**Nozzle alignment**
- Laser assisted alignment

**Liquid utilization rate**
- 95%

**Spray uniformity**
- 5%

**Work area**
- 300 x 300 mm (11.81” x 11.81”)

**Speed**
- XY: 300mm/sec
- Z: 50mm/sec

**Syringe pump**
- Flow rate: 0.01-50ml/min
- One syringe: up to 100ml

**Control system**
- Self-developed 6-axis control system, 7-inch full-color touch LCD screen, can be set to automatic mode, jog debugging mode, with security system

**Motion accuracy**
- ±0.1mm

**Motors**
- Digital AC servo motor drive

**Liquid delivery (optional)**
- Ultrasonic dispersing syringe, keep the suspension evenly dispersed during the spraying process

**Material of liquid tube**
- PTFE

**Heating substrate (optional)**
- Maximum temperature: 400°C

**Temperature**
- 0-40°C

**Certification**
- CE

**Compressed air**
- 551.6 kPa (80 PSI) dry un lubricated air

**Power requirements**
- 220V, +/-10%, 50-60Hz, single phase

**Vacuum adsorption (optional)**
- 150C heat/vac
- Power of vacuum pump: <500w
- Pumping speed: ≥60L/min

**Dimensions**
- 1200L*950W*900H mm

**Weight**
- 300kg

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