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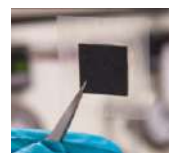
intelligent ultrasonic solutions



UAC4000S

Ultrasonic Coating Machine

- Ideal for R&D or low-volume production
- Compact desktop design that is easy to move
- The material usage ratio > 95%
- Reliable, repeatable and consistent coating, uniformity of $\pm 2\%$
- Maximum spray area: 150 x 150 mm



The programmable bench top design ultrasonic spray coating machine UAM4000S is ideal for producing various uniform and durable coatings in R&D process. The UAM4000S integrated with different ultrasonic nozzles spraying width from 1 mm to 60 mm is widely designed for spraying PEM, GDL, Electrode and electrolyte membranes, by depositing solutions, suspensions as well as carbon black ink suspension, PTFE binder, ceramic slurry, platinum, platinum and other expensive metal catalysts. The operating system with multiple spraying methods is stable and easy to operate.



ES France - Département Bio-tests & Industries
127 rue de Buzenval BP 26 - 92380 Garches

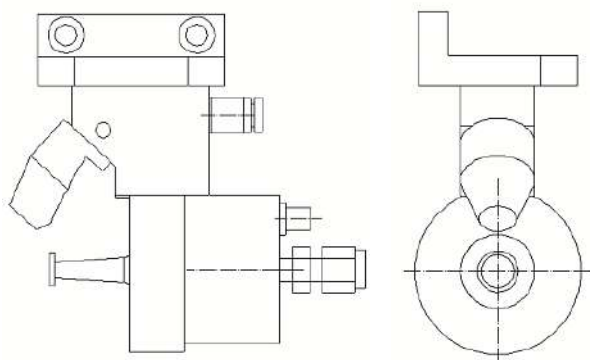


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UAC4000S Ultrasonic Coating Machine



Soft, low-velocity spray to avoid overspray

Reduced coating material up to 80%

Reduce air pollution

Self-cleaning ultrasonic nozzle prevents clogging

Reduced the maintenance and downtime

Ultra-low flow rate continuous or intermittent precision spraying

Corrosion-resistant stainless steel and titanium construction

Motion System

3-axis precision coating system

Head speed

- X axis up to 300 mm/sec
- Y axis up to 300 mm/sec
- Z axis up to 50 r/sec

Repeatability: ± 0.02 mm

Laser pointer

Ultrasonic System

1 x Generator

- Control accuracy 0.01W

1 x UCW123 (Wide type)

- Middle particle size 18 μ m
- Spraying width 10-80 mm
- Thickness of film after spray 10 nm-100 μ m
- Flow rate range 0.5-20 ml/min

Control System

7" touch screen

User friendly interface

3 user log in levels

- Operator, Supervisor and Technician

Storage programs up to 10000 sets

Liquid Delivery System

1 x Precision syringe pump

1 x Precision syringe (10 ml)

1 x Magnetic stirring syringes (50 ml)

Cargo System

Combined vacuum/heat plate

- Heating temp range: 0-100 $^{\circ}$ C
- Heating temp range: 0-150 $^{\circ}$ C (without vacuum function)
- Temp. control accuracy: ± 1 $^{\circ}$ C
- Temp. uniformity: ± 2 $^{\circ}$ C

Alarm System

Three-color light tower

Lighting System

LED

Vision System

Camera(Optional)

Exhaust System

Turbine type (connected to the exhaust interface of the laboratory or cleaning room)

Power

220-240V AC 50/60Hz, 16A

Air

Pure/dry air or nitrogen (0.05Mp)

Dimensions

1040 W x 750 D x 950 H (mm)



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