

ND-SP Ultrasonic Spray Coater

Ultrasonic spray coating



Nadotech ND-SP Ultrasonic Spray Coater is a completely automatized equipment for thin film deposition via ultrasonic spray coating, where uniformity and very small drop sizes are required. Its design and programmable software allows to control and automatize every deposition parameter with high precision and reproducibility. ND-SP Ultrasonic Spray Coater can be used to obtain nanometric coatings with one or multiple layers.

High
precision
control

Ultrasonic
spray coating

Windows®
user friendly
software



1 year
Warranty

Technical specifications

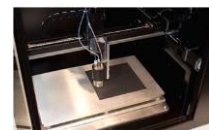
Maximum sample size
Nozzle distance
Minimum speed
Maximum speed
Flow rate
Dimensions (L·W·H)

ND-SP Ultrasonic 11/3 Vertical



250 x 250 mm
60 mm
20 mm/min
2000 mm/min
Depends on application
900x650x880

ND-SP Ultrasonic 11/3 Horizontal



250 x 250 mm
60 mm
20 mm/min
2000 mm/min
Depends on application
900x650x880

Nadotech ND-SP Ultrasonic Spray Coater is designed to produce layers by spray coating technique in situations where very small droplet sizes are required. Thanks to the ultrasonic spray nozzle, the system is able to produce droplets with an average diameter of 15 micrometers and a very uniform drop size distribution. This technique reduces the quantity of coating material needed up to 80%. Its compact and robust design makes ND-SP Ultrasonic Spray Coater the best equipment for lab scale requirements and R&D ultrasonic spray coating applications. Multiple configurations can be programmed to achieve particular needs, depending on its applications in electronics, health, energy, advanced materials and other smart coatings. ND-SP Ultrasonic Spray Coater can be configured in vertical or horizontal positions.

The user friendly Windows® based software permits to control all the spray coating process parameters with high accuracy. The user has a full automatized control of the spraying frequency, flow rate, nozzle speed and distance, sample positions, temperature and air pressure. Nadotech's software also allows to store all these parameters for further usage, which guarantees a high reproducibility of the coatings.

Software requirements

Operative system

Windows XP; Windows Vista; Windows 7; Windows 8; Windows 10

Processor

Pentium 400 MHz or equivalent (Minimum) | Pentium 1 GHz or equivalent

RAM

96 MB (Minimum) | 256 MB (Recommended)

Hard Disk

The Installation requires 500 MB of free disk space

Monitor

800x600, 256 colors (Minimum) | 1024x768 high color, 32-bit (Recommended)



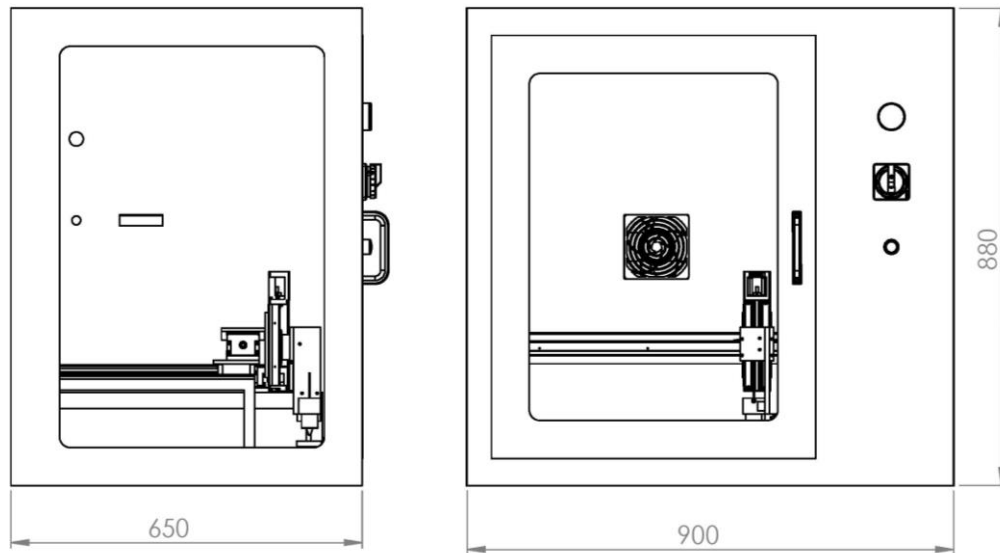
<https://youtu.be/9BaU89bJzFY>



info@nadotech.com

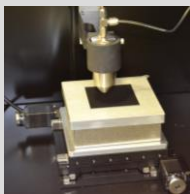
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Dimensions



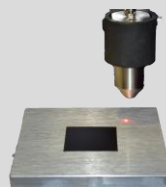
Accessories

ND-SP Hotplate



Hotplate max. temperature
100°C and 200°C

ND-SP Laser Pointer



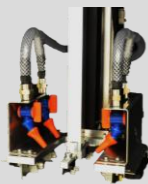
Laser spray cone focus

ND-SP Air Compressor



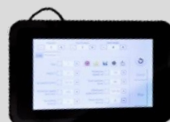
Air pressure for the ultrasonic nozzle

ND-SP Sample Dryer



Hot air jet to dry the sample
Cycle time reducing

ND-SP Touchscreen



7" Touchscreen
Intuitive software

ND Supplies



Tubing
Syringes...