

# ND-SP Precision Spray Coater

## Precision spray coating



Nadetch ND-SP Precision Spray Coater is a completely automatized equipment for thin film deposition via spray coating, where uniformity and 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 Precision Spray Coater is used to obtain homogeneous coatings with one or multiple layers.

High  
precision  
control

Spray coating

Windows®  
user friendly  
software



## Technical specifications

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

### ND-SP Precision 11/4 Vertical



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

### ND-SP Precision 11/4 Horizontal



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

Nadetch ND-SP Spray Coater is designed to obtain coatings via spray coating techniques, such as layer-by-layer self-assembly, where small droplet sizes are required. Its precision spray nozzle is able to spray drops with a minimum diameter of 10 micrometers. This spray coating technique also permits to spray high viscosity fluids. Multiple configurations can be programmed to achieve particular needs, depending on the application. Spray coating has a wide range of applications in electronics, sensors, biomedical coatings, solar cells, fuel cells, advanced materials and other types of smart coatings. ND-SP Spray Coater can be configured to spray 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 flow rate, nozzle speed and distance, sample positions, temperature and air pressure. Nadetch®'s software also allows to store all these spray coating 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)



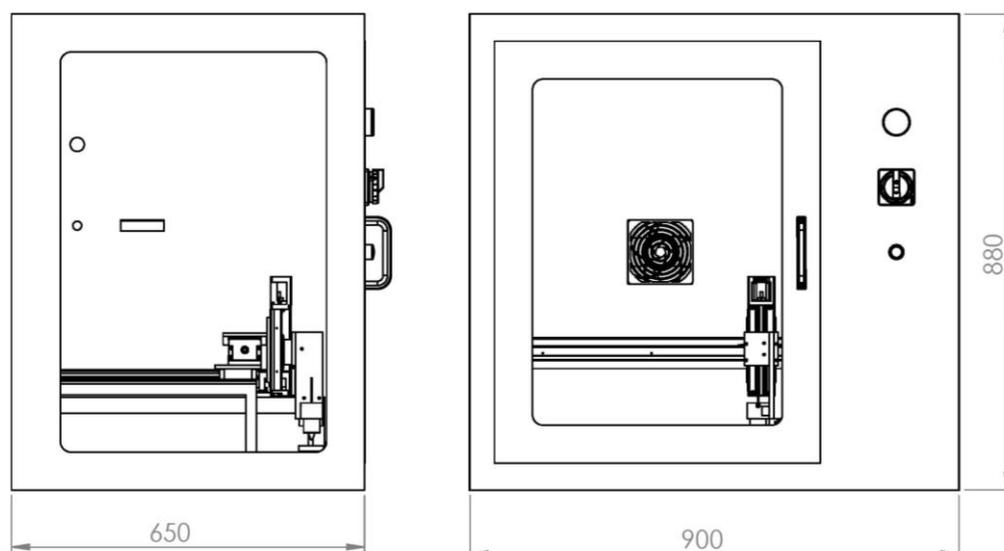
[https://youtu.be/GonQY\\_apbuk](https://youtu.be/GonQY_apbuk)



[info@nadetch.com](mailto:info@nadetch.com)

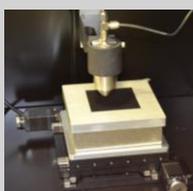
[www.nadetch.com](http://www.nadetch.com) | +34 948 065 567

## Dimensions



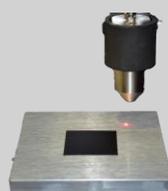
## Accessories

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 spray nozzle

ND-SP Sample Dryer



Hot air jet to dry the sample  
Cycle time reducing

ND-SP Multisyringe



Spray multiple fluids at the same time

ND-SP Touchscreen



7" Touchscreen  
Intuitive software