ND-ES Lab Electrospinning

Lab electrospinning unit
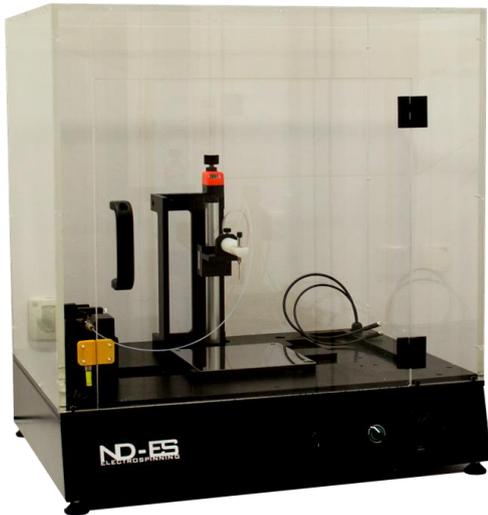
Nadetech ND-ES Lab Electrospinning Unit is a completely automatized equipment for fiber fabrication via electrospinning technique. Its design and programmable software allows to control and automatize every electrospinning parameter with high accuracy and reproducibility. ND-ES Lab Electrospinning Unit is used to obtain nanometric fibers for multiple applications such as biomedical coatings and all kind of smart coatings.

| High precision control	Electrospinning	Windows® user friendly software	1 year Warranty

Technical specifications

ND-ES Standard Unit

High voltage supply	0-30 kV
Electrode distance	50-200 mm
Collector dimensions	200x200 mm
Needle	Kit with multiple needle gauges
Syringe maximum volume	50 mL
Flow rate	0.005 ml/h – 1000 ml/h
Dimensions (L·W·H)	530x700x740
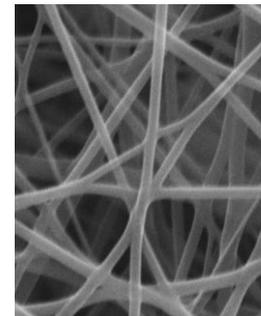
ND-ES Lab Electrospinning Unit has been designed for the production and deposition of nanofibers on different substrates. ND-ES Lab Electrospinning Unit consists on an emitter connected to a controllable high voltage source. The system allows an accurate control of the flow rate, voltage and distance between the emitter and the collector. The equipment is manufactured for both vertical and horizontal depositions, allowing simple layout changes. Rotatory and planar disc collectors are available to obtain specific electrospinning fiber patterns.

The user friendly Windows® based software permits to control all the electrospinning process parameters with high accuracy. The user has a full automatized control of the voltage, flow rate, needle distance and collector parameters. Nadetech®'s software also allows store all these settings 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/tmQHB7mZEJo

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Dimensions

700

530

740
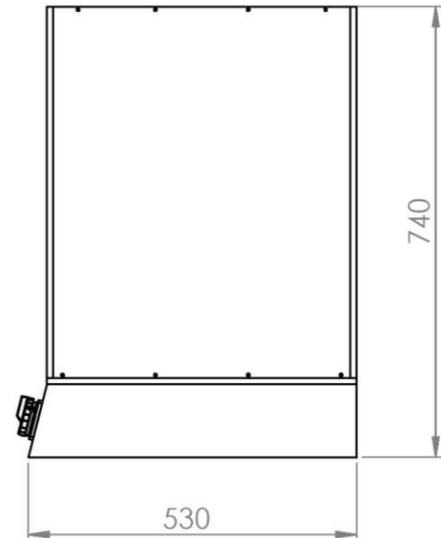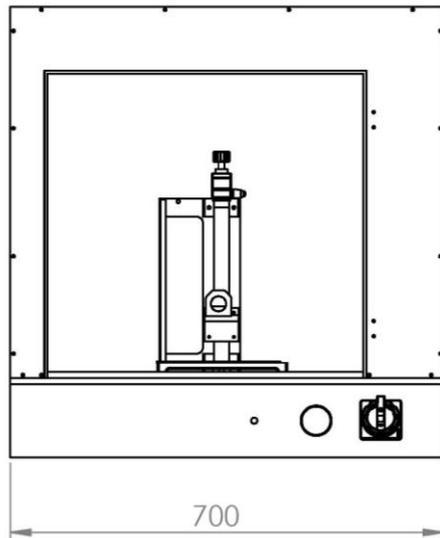
Accessories

ND-ES Collectors

Planar, rotating drum and disc collectors

ND-ES Spinnerets

Single, coaxial, triaxial and multi-nozzle spinnerets.
Automated linear movement

ND-ES Taylor Cone Camera

Digital camera module. Process registering and performance feedback

Dual voltage

Dual voltage
+30kV / -30kV

ND-ES Humidity & Temperature sensor

Precision humidity and temperature sensor
Dust and dirt protected
0-100% RH / -40 to 60ºC

ND-ES Touchscreen

7" Touchscreen
Intuitive software