

ND-ES Lab Electrospinning Unit

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The Nadetch Lab Electrospinning Unit is a system designed for the development of nanofibers.



ND-ES Lab Electrospinning Unit

ND-ES has been designed for the production and deposition of nanofibers on different substrates. For this purpose, the ND-ES systems has an emitter which is connected to a controllable high voltage source and offers the possibility of including a flat or cylindrical collector. Moreover, the system allows an accurate control of the distance between the emitter and the collector thanks to the software.

The dissolution is supplied through a syringe pump which offers high precision, versatility, inter-change and an easily to use system. In this sense, it is possible to carry out depositions with a wide range of flows and without volume limitation.

The ND-ES is controlled by user-friendly software based on Windows®, which allows programming different sequences adjusting parameters such as emitter position, voltage, deposition time, drum collector speed or flow rate. All these developed sequences can be stored in the PC for its subsequent recovery.

Nadetech Innovations offers the possibility to its clients to modify the dimensions and characteristics of the ND-ES Lab Electrospinning Unit in order to have equipment which satisfies their necessities.

High voltage control

Configurable sequences

Low flow rate capabilities

Lab Unit



Technical specifications

ND-ES Lab Electrospinning Unit

High voltage supply	0 - 30 kV
Electrodes distance	50 - 200 mm
Collector size	200 x 200 mm
Syringe volume	Up to 50 ml
Minimum Flow Rate	0.005 ml/h
Maximum Flow Rate	1000 ml/h
PC connection	USB

System requirements

Operative system

Windows Server 2003; Windows Server 2008; Windows XP; Windows Vista; Windows 7

Processor

Pentium 400 MHz or equivalent (Minimum) | Processor 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)

ND-ES Unit Accessories

The ND-ES Lab Electrospinning Units are complemented by a comprehensive range of accessories, all of which are designed to help you get the most from your electrospinning unit. This data sheet explains in more detail the makeup of key accessories and offers technical specifications where required.

- **ND-ES Rotating Collector**
- **ND-ES Coaxial Nozzle**
- **ND-ES Multinozzle Injector**
- **ND Disposals: Tubing, Syringes...**
- **ND Touchscreen**
- **ND-ES XY Motion Platform**
- **ND-ES Triaxial Nozzle**
- **ND Environmental Sensors**
- **ND Control PC**

Contact information

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