



**NANOLAB INSTRUMENTS SDN BHD**

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## About Us

Nanolab Instruments is a company that provides an innovative, stable and reliable platform for electrospinning and electrospraying under the brand NLI. The range of products includes the Basic Electrospinning Series, Lab Electrospinning Unit, Pilot Production Unit and Industrial Electrospinning Line. DIY components and other accessories are also available and fully supported.

We have years of experience working with researchers and industry involved in electrospinning and electrospraying production of nanofibers. Combining knowledge from field experiences with innovations, NLI products are of high quality, stable, safe and easy to use in research laboratories or industrial production facilities.



[www.nanolab-i.com](http://www.nanolab-i.com)



## Affordable, Reliable Automated Electrospinning

The LS 901 offers an affordable, reliable and automated electrospinning experience.

The unit comes with a syringe pump, a high voltage power supply and an interchangeable rotary collector (drum, mandrel or wire) in a neatly designed chamber. The syringe pump features double-syringe spinneret, ideal for single needle or coaxial setup for electrospinning and electro spraying.

The touchscreen LCD allows fast, easy setup and control of electrospinning parameters. Safety features such as voltage cut-off and emergency stop button ensure safe electrospinning experience throughout.

### Key Highlights

- Touchscreen LCD
- Double-syringe Spinneret
- Spinneret scanning system to produce nanofiber mat
- Safety features:
  - Voltage cut-off when door is opened or Target volume is reached
  - Emergency stop button
  - Overvoltage & overcurrent protection
  - Anti-static design
  - Safety indicator lights
  - User notification (sound & display alert)
- Easily interchangeable Collectors
- User-friendly and user serviceable

### General Information

Input power	100-240VAC/50-60 Hz
Weight	≈ 105 Kg
Dimensions (LxWxH)	78.5 x 71.3 x 96.0 cm
Max. output voltage	35 kV
Ventilation	Motorized fan to remove solvent from the chamber.
Heating System	Room temperature up to 45°C
Collector Type (Stainless steel)	Rotary drum and easily attachable plate collector
Collector rotation speed	0-3000 rpm
Collector Size	Drum: 8(∅) x 30(L) cm Plate: 29(H) x 31(W) cm
Optional collectors	Wire collector and Mandrel collector
Collector Distance	5 - 20 cm
Attachable needles	1 or 2
Syringe pump scanning range	0 - 27 cm
Syringe pump	0.01 ml/h to 60 ml/h
Usable syringe size	1 - 25 mm (ID)
Operation mode	Constant flow rate and maximum volume disperse
Accessories (optional)	Co-axial nozzle with tubing
Safety features	Voltage cut-off when door opened, target volume reached.