



The NE300 Electrospinning Machine, is a compact, flexible lab-scale Electrospinning system. Very similar to the NS 24 but with less emitters (8 nozzles), also has the capacity of single-nozzle production.

This model has a homogeneity system that enables uniform coating of the nanofibers membrane. The NE 300 has an Electrically insulated cabinet with high density PE parts inert to chemical solutions, which enables working with many polymers. Many optional features can be added to the system, such as Co-axial System for core-shell, hollow and bi-component nanofibers.

NE300

Description	Advanced Level Multi Nozzle Electrospinning Unit
Spinning-Type	Bottom-Up Spinning

CONSTRUCTION

Chasis	Electrostatically Painted Steel
Feeding Area Material	PE 1000 (High Density, Chemical resistant)
Collector Material	7000 Series Aluminum Alloy, Stainless Steel
LED Illumination	
Exhaust Fan	
Atmosphere Control (Optional)	
Total Weight	Approx. 150 kgs
Dimensions	W: 770 mm L: 675 mm H: 1040 mm

HIGH VOLTAGE POWER SUPPLY

Voltage Range	0- 40 kV
Voltage Precision	0,1 kV
Max. Current	0.125 mA

HIGH PRECISION MICRO PUMP

Flow Rate	0.35 - 7123 ml/h (BD 60 ml syringe)
Flow Rate Precision	0.01 ml/h
Available Syringes	All types are available

FEEDING AREA

Number of Nozzles on Each Feeding Pipe Set	4 pcs
Number of Feeding Pipe Sets	Up to 2 Sets
Number of Nozzles	Up to 8 Nozzles (Also possible to use with single nozzle)
Single Nozzle Production	Available
Feeding Pipe Material	Aluminium
Nozzle Material	Electrically Conductive Stainless Steel
Nozzle Inner Diameter	0.8 mm
Minimum Required Solution for Single Nozzle Feeding	1 ml
Minimum Required Solution for Each Feeding Pipe Set	8,5 ml
Minimum Required Solution for Full Loading	16 ml

ROTATING COLLECTOR

Drum Collector	
Material	Aluminum
Dimensions of Drum (D x L)	100 mm x 220 mm
Fiber Deposition Area	314 mm x 220 mm
Drum Rotating Speed	100-500 RPM (Able to produce aligned nanofibers.)
Surface Speed (cm/s)	52,3 cm/s - 261,6 cm/s
Coating Homogeneity System	X-axis repetitive motion
Stroke of Coating Homogeneity System	Adjustable Between 30 mm and 80 mm
Speed of Coating Homogeneity System	Adjustable Between 2 mm and 20 mm/sec

SPINNING DISTANCE

Distance Between Nozzle and Collector	31 mm-231 mm
Distance Adjustment Precision	1 mm

STATIONARY PLATE COLLECTOR

Material	Stainless Steel
Distance Adjustment Precision	370mm x 130mm

REMOTE MONITORING and CONTROL SYSTEM

Wi-Fi Connectivity
Comprehensive Monitoring
Full Control
BatchID Management
Extended Storage
Graphical Data Display
User Authentication
Activity Logs
Log Monitoring
Fault and Alarm Management

UNIQUE USER INTERFACE

9” Touch screen control panel with well designed user friendly interface
Fully able to control all parameters
Saving & recalling all parameters via recipe & recall function

SAFETY FUNCTION

Safe Door
Emergency Button & Safety Relay
HV Warning Light
Electrical Isolated & Grounded Cabinet
Over Current Protection
Fully Sealed Cabinet