



The NS Plus is an entry level electrospinning machine, designed to accommodate the maximum components required for an optimized and versatile Electrospinning Process. It's an ideal solution for lower-budget projects working on small-scale nanofibers research.

It has 3 Hybrid Nozzles, spinning on a rotating drum collector or plate collector, therefore enabling the production of both well-aligned and randomly collected nanofibers. The homogeneity system allows the user to produce a uniform and homogeneous nanofibers membranes.

NSPLUS

Description	Entry Level Multi Nozzle Electrospinning Unit
Spinning-Type	Side By Side Spinning

CONSTRUCTION

Chasis	Closed Chassis For Spinning Area (Included in NS 1 Plus)
Feeding Area Material	PE 1000 (High Density, Chemical resistant)
Collector Material	7000 Series Aluminum Alloy, Stainless Steel
LED Illumination	
Exhaust Fan	
Total Weight	Approx. 60 kgs
Dimensions	W: 740 mm L: 645 mm H: 770 mm

HIGH VOLTAGE POWER SUPPLY

Voltage Range	0- 30 kV
Voltage Precision	0,1 kV
Max. Current	0.170 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	3
Feeding Pipe Material	Aluminium
Nozzle Material	Electrically Conductive Stainless Steel
Nozzle Inner Diameter	0.8 mm
Compatible with Standard Syringe Nozzles	
Minimum Required Solution for Single Nozzle Feeding	2 ml

ROTATING COLLECTOR

Drum Collector	
Material	Aluminum
Dimensions of Drum (D x L)	100mm 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
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	30 mm-230 mm
Distance Adjustment	Manual Control

STATIONARY PLATE COLLECTOR

Material	Stainless Steel
Distance Adjustment Precision	275mm x 150mm

UNIQUE USER INTERFACE

4,3” 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

Emergency Button & Safety Relay
HV Warning Light
Electrical Isolated & Grounded Cabinet
Over Current Protection