NSPLUS

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

CYLINDER COLLECTOR

FLAT COLLECTOR

UP TO 3 NOZZLES +3

SINGLE NOZZLE

ISO 9001 QUALITY ASSURANCE — CE CERTIFIED — SCALE UP

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

The NS Plus is the most recent model of Inovenso, 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.

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	Flow Rate: 0.01 - 4464 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-400 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