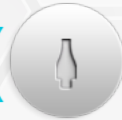


FLAT COLLECTOR



SINGLE NOZZLE



The stand-alone basic electrospinning system is designed for low-cost, small-scale nanofiber research, producing results from a single-nozzle configuration in a compact unit. Spinning distance, flow rate and applied voltage are all easily controlled in horizontal or vertical spinning mode.

-Optional Accessories for Basic System

- Changeable collectors
- Co-Axial nozzle system

# NS1

<b>Description</b>	Single-nozzle electrospinning unit
<b>Spinning-Type</b>	Bottom-up, top-down, side-by-side spinning

## CONSTRUCTION

<b>Chasis</b>	1.5mm Stainless Steel
<b>Feeding Area Material</b>	PE 1000 (High Density, Chemical Resistant)
<b>Collector Material</b>	Stainless Steel
<b>Total Weight</b>	<40kg
<b>Dimensions</b>	563mm x 460mm x 445mm

## HIGH VOLTAGE POWER SUPPLY

<b>Voltage Range</b>	0- 40 kV
<b>Voltage Precision</b>	0.1 kV
<b>Voltage Display</b>	By Touch Screen

## HIGH PRECISION MICRO PUMP

<b>Flow Rate</b>	0.01-1000 ml/h
<b>Flow Rate Precision</b>	0.01 ml/h
<b>Available Syringes</b>	Standard 1, 5, 10, 20, 50 and 60ml

## FEEDING AREA

Number of Nozzles on Each Feeding Pipe Set	No Pipe Set
Number of Feeding Pipe Sets	No Pipe Set
Number of Nozzles	1
Single Nozzle Production	Available
Feeding Pipe Material	No Feeding Pipe, Directly Feed Into Nozzle
Nozzle Material	Electrically Conductive Brass
Nozzle Inner Diameter	0.8mm
Compatible with Standard Syringe Nozzles	YES
Minimum Required Solution for Single Nozzle Feeding	1ml
Minimum Required Solution for Each Feeding Pipe Set	x
Minimum Required Solution for Full Loading	x

## COLLECTOR

Drum Collector:	Only for NS1 Plus
Material	Aluminum
Dimensions of Drum (D x L)	100mmx220mm
Fiber Deposition Area	314mmx220mm
Drum Rotating Speed	100-500RPM
Surface Speed (cm/s)	52,3cm/s - 261,6 cm/s
Coating Homogeneity System	x
Stroke of Coating Homogeneity System	x
Speed of Coating Homogeneity System	x

## SPINNING DISTANCE

Distance Between Nozzle and Collector	30mm-300mm
Distance Adjustment Precision	
Distance Adjustment Method	Manuel Distance Control

## STATIONARY PLATE COLLECTOR

Material	Stainless Steel
Distance Adjustment Precision	370mm x 130mm

## AUTOMATION

Touch Screen	4.3 inch
Data Saving and Recall	x
System Power Button	√
Emergency Stop Button	√
Safe Door Button	√
LED Illumination On/Of	√
Exhaust Fan On/Of	√
Cylinder Rotation On/Of	Only for NS1 Plus
Digital Cylinder Speed Indicator	Only for NS1 Plus
Coating Homogeneity System On/Of	x
Coating Homogeneity System Stroke Adjustment	x
Coating Homogeneity System Speed Adjustment	x
Spinning Distance Adjustment	√
Digital Spinning Distance Indicator	√
Pump On/Of	√

High Voltage Adjustment	√
Digital High Voltage Indicator	√
Digital Temperature Indicator	x
Digital Relative Humidity Indicator	x

## TECHNICAL REQUIREMENTS

Power	110-120VAC or 220-240 VAC @ Max 6A
Grounding	External Grounding Line
Area	Min. 1mx1m workbench able to carry min. 70kgs.-150lbs.

## EXPERIENCED POLYMERS

Polyurethane	Solved in DMF and THF
Polybenzimidazole	Solved in DMA with particle additives
Polycarbonate	Solved in DMF
Polyacrylonitrile	Solved in DMA and DMF
Polyvinyl Alcohol	Solved in Pure Water
Polylactic Acid	Solved in DMF
Polyethylene Oxide	Solved in HCl
Nylon 6.6, Polyamid 6.6	Solved in Formic Acid
PVC	Solved in THF
Poly Lactic co Glycolic Acid	Solved in DMF

