NE200

Description	Advanced Level Single 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

CYLINDER COLLECTOR

FLAT COLLECTOR

SINGLE NOZZLE

DRUM COLLECTOR
(D x L) 100 mm x 150 mm

ISO 9001 QUALITY ASSURANCE

CE CERTIFIED

SCALE UP

NE200 is a laboratory scale electrospinning unit with a single nozzle. The standard machines have a 500 rpm rotating drum collector and a flat collector. There are optional accessories upon request for functionality improvement.

Operation parameters like the needle-collector distance and high voltage value could be automatically adjusted from the user panel, with high precision. The system comes with an enclosed cabinet making it possible to add temperature and relative humidity control systems.

FEEDING AREA

Number of Nozzles	1
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)	100 mm x 150 mm
Fiber Deposition Area	314 mm x 150 mm
Drum Rotating Speed	100-500 RPM (Able to produce aligned nanofibers.)
Surface Speed (cm/s)	52,3 cm/s - 261,6 cm/s

SPINNING DISTANCE

Distance Between Nozzle and Collector	33,5 mm-233,5 mm
Distance Adjustment Precision	1 mm

STATIONARY PLATE COLLECTOR

Material	Stainless Steel
Distance Adjustment Precision	370mm x 130mm

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

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