The NE200, is the ultimate combination of advanced features in a budget-friendly model. Ideal for scientists who want to initiate their electrospinning electrospraying researches in a versatile system. The machine comes with a flat collector and a rotating drum collector to obtain well-aligned nanofibers, but can also optionally accommodate other types of collectors such as the Rotating rod collectors with different sizes to obtain tubular structure of nanofibers known as tube-like nanofibers membranes which can be used as artificial blood vessels.

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	780 × 680 × 1050 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	1
Feeding Pipe Material	Aluminium
Nozzle Material	Electrically Conductive Stainless Steel
Nozzle Inner Diameter	1 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 mm-233 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