

INE1000 FibSpinner



Industrial Scale Needle-less Electrospinning Unit

- ◆ High throughput production of nano fibers in a roll to roll system
- ◆ Software controlled flow rate and winding speed facilitates repeatable thickness
- ◆ Peristaltic pumps provide precise flow rates and homogenous deposition of the nanofiber
- ◆ Compatible with wide range of polymers with different levels of viscosity
- ◆ Easy to maintain needle-less technology



INE 1000

Model : INE1000 FibSpinner

Industrial Scale Needle-less Electrospinning Unit

Spinning Type : Bottom up Spinning

FEEDING AREA :

Needle-less Spinnerets : 3 thin-slit rods

Spinneret MOC : Stainless Steel

Solution Feeding System : Adjustable speed, feeding rate and waiting time.

Thin-Slit Electrode Dimensions :

Electrode Length : 1000 mm Slit

Slit Dimensions : 2 mm Depth, 4 mm Width

PUMP SYSTEM:

Three independent peristaltic pump units : Individually connected to each spinneret.

Tubing : Silicone tube of 2.4 mm ID, 5.6 mm OD

Flow Rate : 0.01- 40 ml/min

Flow Rate Precision : 0.01 ml/h Tank

Tank Capacity : 2 L

ROLL TO ROLL SYSTEM :

Maximum width of the substrate fabric : 1000 mm

Substrate Winding Speed : 0.1 m/min - 25.0 m/min

Effective Coating Width : 1000 mm

Max Roll Diameter : 600 mm

Air compressor included for tightening roll shaft

Electrospinning Unit

SPINNING DISTANCE:

Distance between Rods and Collector : 150 - 300 mm

Distance Adjustment Precision : 1 mm

HIGH VOLTAGE POWER SUPPLY :

Voltage Range :

Spinneret : 0 to 60 kV

Collector : 0 to -40 kV

Voltage Precision : 0.1 kV

Maximum Current : 2 mA

USER INTERFACE

12" Touch screen control panel

Easy to use GUI

Recipe save and load functions

Control of process parameters

SAFETY FUNCTION :

HV supply cut off on door open event

Emergency stop button

HV Warning Light

Electrically Isolated & Grounded

Over Current Protection

CONSTRUCTION

Chassis : Epoxy Painted Sheet Metal

POWER SUPPLY REQUIREMENTS :

Power : 230 VAC @ 18 A, 4200 W Max.



REGISTERED OFFICE

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