

Electrospinning Nano Fiber Machine:

An electrospinning fiber machine is a device that uses an electrostatic field to produce ultra-fine fibers from a polymer solution or melt. These fibers are typically in the nano to micro-scale range and are used in a variety of applications, such as filtration, medical textiles, wound dressings, and tissue engineering.

Spinning Arrangement:

- Horizontal spinning
- Adjacent distance between spinneret and collector: Up to 250 mm
- Temperature and Humidity display
- High Speed exhaust blower for protection from hazardous solvent fume
- UV Light sterilization: 10 watts

Infusion:

- Syringe Pump Single Channel
- Infusion function, Needle Material: Stainless steel or conductive
- Needle Diameter: 0.1-1 mm
- Volume, Time and Flow control
- Acceptable syringe volume: 5 μ l-20ml
- Flow rate: 1 μ l/min-3 ml/min ($\pm 0.05\%$)

Power supply:

- High voltage
- Output voltage: 0 to 30 KV $\pm 0.05\%$
- Voltage adjustment: 0.1 KV
- Output current: 0 to 400 μ A
- Digital voltage and current monitoring display
- Overload trip- unit shut down if current exceeds 20% of the maximum output current
- Auto cut high voltage protection when door is opened

Collectors:

- Plate: Width=220 mm Length=150 mm
- Thickness= 10 mm
- Drum: Diameter =85 mm, Length =165 mm
- RPM: 200-3500