



INDUSTRIAL SCALE MODULAR ELECTROSPINNING



Model:

ES800H4

Construction:

Chassis: Electrostatically painted metal sheets

Chamber: Polymethyl methacrylate isolated sheets

High Voltage Power Supply

- Positive 0-80 kV spinneret
- Negative 0-(-40) collector
- Precision 0.1 kV
- Power 270w
- Over current protection

Feeder

Modular two Spinneret constructions:

TURBO & Nozzle-based

TURBO Spinnerets:

Needleless rod system, 4 pcs 800mm electrode

Nozzle-based Spinnerets:

4 pcs 800mm Pipe
Each pipe can take up to 40 Needle
(convergent-divergent Nozzle also provided)

Feeding pump

Continuous feeding (no pulsation)
Four units of peristaltic pumps
0-100 ml/min
Precision 0.01 ml/min
100-liter reservoir

Atmosphere Controller

2-unit 1800w heater up to 40-degree
chamber heating
2.2 kg/h dehumidifier up 30% relative humidity
480 m3/hr. exhaust fan
480 m3/hr. cycle air fan
Sealed cabinet

Collector

800 mm width roll-to-roll (Can be customized to up to 1600 mm)
Substrate winding speed 0.1-25 m/min 600 mm roll diameter
Additional slot for lamination/scrim layer

Safety

Safety door turning off the voltage automatically
Emergency stop
Warning lamp
Grounded chasis
Spark detection

Spinning distance

50-300 mm
Precision 1mm

Interface System

12" User friend Human-machine interface
screen saves and recalls all parameters.

Weight & Dimensions

Approx.

1500kg

Dimensions:

W: 1700 mm L: 1850 mm H: 1800 mm
6 Kw power (1.5 Kw machine 2.5 Kw heater
2 Kw Dehumidifier)