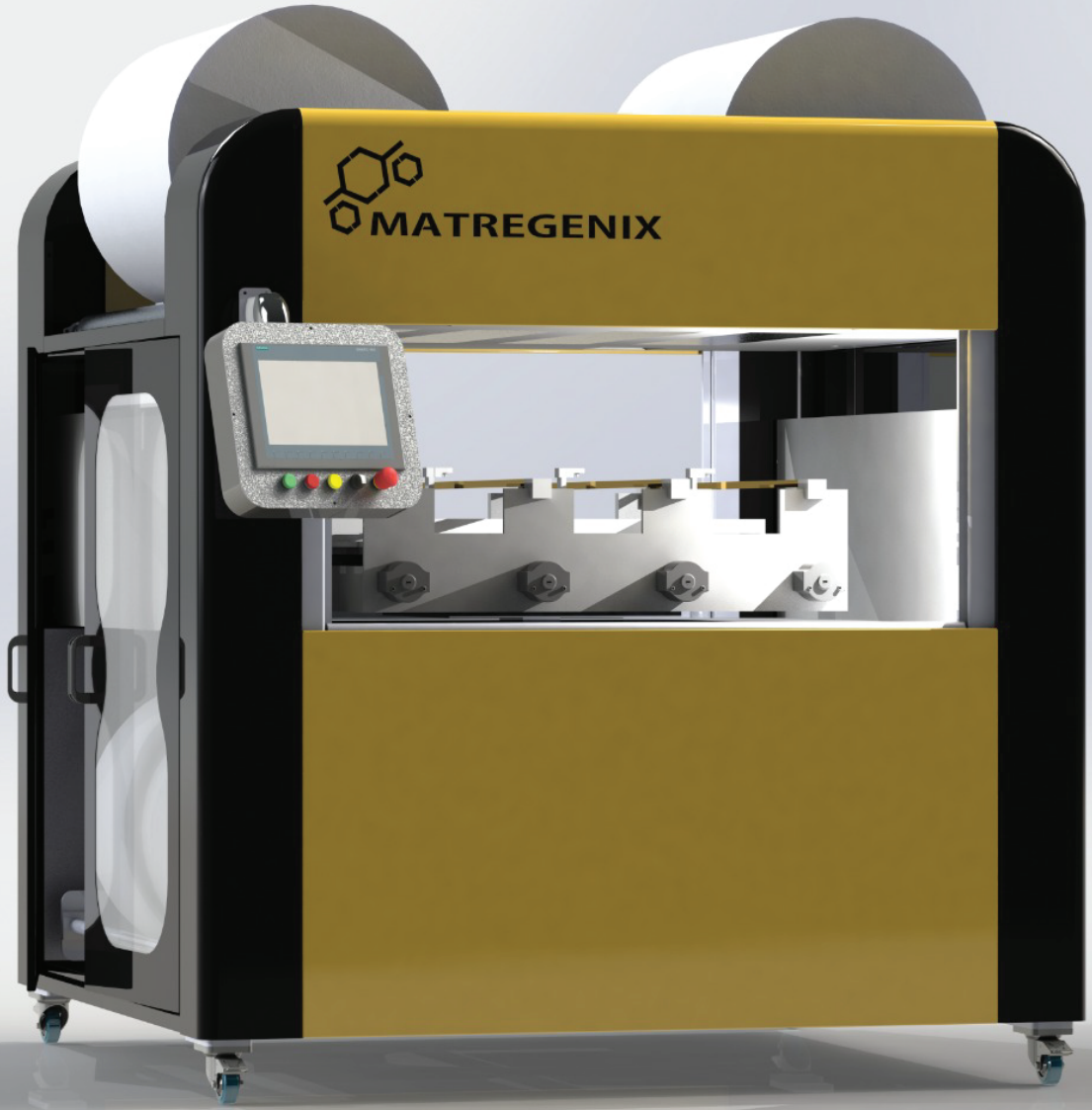
MATREGENIX

UNLOCKING NANOFIBERS POTENTIAL

INDUSTRIAL SCALE MODULAR ELECTROSPINNING



TURBO SPINNING TECHNOLOGY

MATREGENIX
UNLOCKING NANOFIBERS POTENTIAL

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

Up to 1600 mm width roll-to-roll
Substrate winding speed 0.1-25 m/min
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)