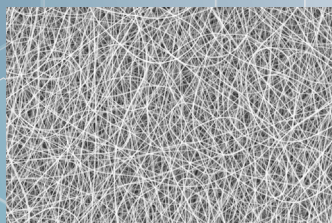
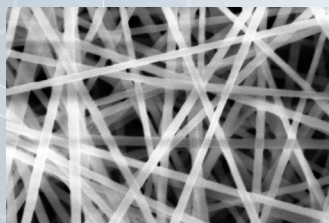


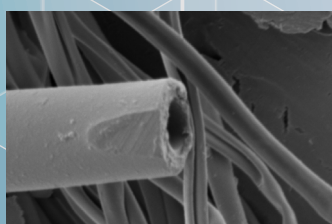
Develop future applications by combining system parts and spinning conditions



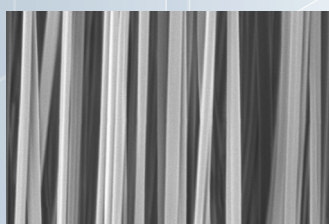
Nonwovens - ethylcellulose



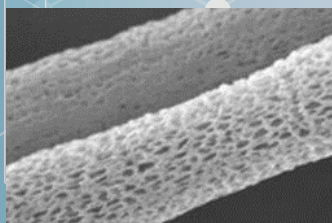
Nonwovens - Gelatine



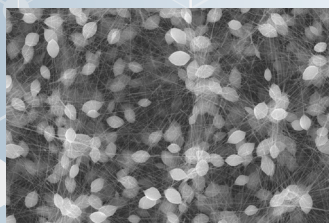
Core/shell structure nanofiber



Aligned sheet



Porous Fiber



Beaded nanofiber



NANON

The model NANON is a best-selling nanofiber electrospinning system for lab use. A variety of materials can be spun by programming spinning conditions and combining system parts such as spinnerets and collectors.

■ Spinning high quality nanofiber sheets

Unique technology of MECC creates stable electric fields, enabling spin of nanofibers of uniform fiber diameter with few droplets.

■ Quick and easy programming with 10-key controller

Programming of spinning parameters such as high voltage output, rotation speed of a collector and moving speed of a spinneret can be made quickly and easily with a 10-key controller.

■ Safety measures for operators

Thinking about operators' safety, the system is equipped with safety measures such as a door interlock, an emergency stop switch, immediate shutoff function of high voltage output and strengthened glass window.

■ Spinning of a variety of nanofiber products

The system can spin a variety of nanofiber sheets with different components;

- Aligned sheets with a drum collector
- Core/shell nanofiber with a coaxial spinneret
- Nanofiber tube with a mandrel collector

NANON Major performance and specifications

Purpose of use	Research and development
Typical nanofibers to spin	Nonwovens of double size of A4 (200mm×600mm) Aligned membrane Core/shell nanofiber Porous fiber
Standard spinneret	Clip
Optional spinneret	Vertical Clip Tubeless Coaxial Multiple jet; 4-holes
Standard collector	Plate
Optional collector	Drum φ200 w200 (up to 3000rpm) Drum φ100 w200 (up to 3000rpm) Drum φ200 w30 (up to 3000rpm) Disk (up to 3000rpm) Mandrel (up to 100rpm) Roll to roll 200mm Y-axis Slide
Pump	Syringe pump 2 sets (To mount 3 syringes each)
High voltage power supply	Voltage : 0.5 to 30.0kV Current : 0.0 to 50.0μA
Traversing speed	300mm/sec
Rotation speed of collectors	Drum; 100 to 3000rpm Disk; 100 to 3000rpm Mandrel; 50 to 100rpm
Spinning distance	50 to 150mm
Programmable parameter	• High voltage output • Feed rate of solutions from pump • Rotation speed of collector • Up/down moving distance of slider (semi-automatic) • Frequency and interval of cleaning • Traversing speed and distance
Inhaling and exhausting volume of fan	12 m ³ /hr or more
Feed rate	0.1 to 100ml/hr
Capacity of syringes	2.0 / 5.0 / 10.0 (ml)
Control	10-key
External dimensions (Except protrusions)	830W x 615D x 875H (mm)
Weight	110kg or less
Safety devices	• Safety interlock • Door lock • Emergency stop button • Signal tower • Exhaust purification filter • Immediate shutoff of high-voltage output after POWER OFF • Shutoff of high voltage output when over-current flows



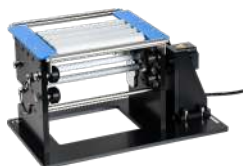
Plate collector
(Standard component)



Drum Collector



Disk collector



Roll to Roll Collector



Mandrel Collector



Y-axis Slide Collector



Clip Spinneret
(Standard component)



Vertical Clip Spinneret



Coaxial Spinneret



Multi-jet spinneret



Tubeless Spinneret



Syringe Pump



Click here to see nanofiber samples.