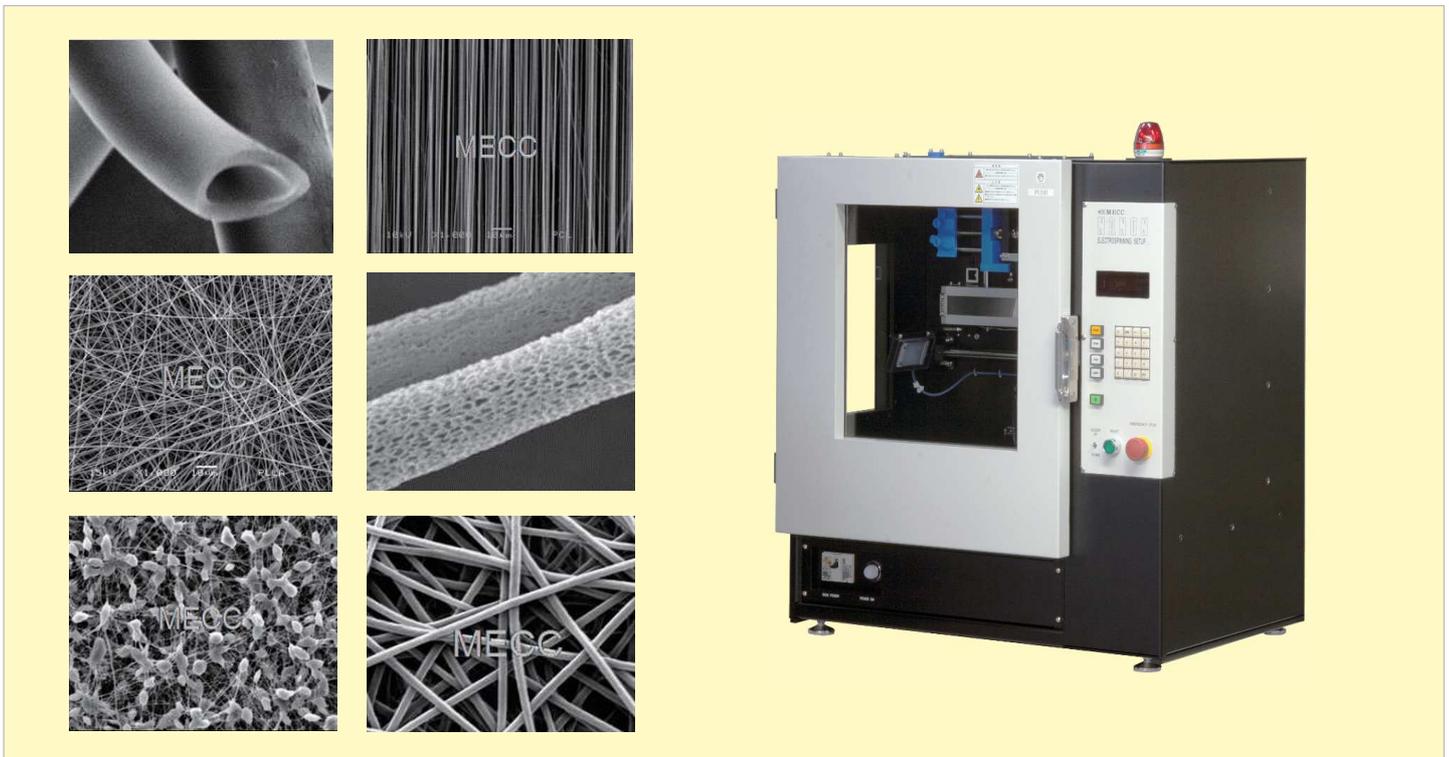


Develop future applications by combining system parts and spinning conditions.



The model NANON-01A is a nanofiber electrospinning system for R & D purpose. A variety of materials can be spun by programming spinning conditions and combining system parts such as spinnerets and collectors.

■ Spinning high uniformity and quality nanofiber sheets

MECC's unique technology creates stable electronic fields, enabling spin of nanofibers of uniform fiber diameter and with very few droplets.

■ Quick and easy programming with a 10-key controller

With a 10-key controller makes quick and easy programming of parameters such as: High voltage, Solution volume, Feed rate, Diameters of syringes, Rotation speed of collectors, Width of spinnerets, Traversing speed, and Frequency and intervals of cleaning

■ Easy replacement of system parts

Both spinnerets and collectors can be replaced quickly and easily.

■ Spinning aligned membranes of super low orientation

Membranes of super low orientation at 5 degree or less can be spun. (patented)

■ Integrating cleaning mechanism

The system has a cleaning mechanism for syringe needles, and the cleaning frequencies and intervals are preprogrammable.

■ Safety measures for operators

The system is equipped with safety devices for operators such as a door interlock, emergency stop switches, a signal tower, strengthened glass and instant shutoff of high voltage output.

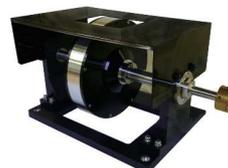
Purpose of Use	Research and development
Typical Objects	Nonwovens, Aligned (oriented) membranes Coaxial fibers, Hollow fibers
Standard parts	Plate collector, Clip spinneret
Optional parts	Collector Drum (φ100 W200, φ200 W200, φ100, w30) Disk, Mandrel, Roll-to-roll 200mm Spinneret Tubeless 75mm, Coaxial 75mm, Ultra-thin coaxial 75mm, Multiple jet 4-holes Syringe pump (externally installed)
High Voltage Supply	Voltage 0.5kV to 30kV (program resolution: 0.5kV) Current 50 to 150mm
Traverse Speed	0 to 300mm/s
Collector Rotation Speed	Drum 150 to 3000rpm Mandrel 50 to 500rpm
Distance between Needle and Collector	50 to 150mm
Programmable Parameter	High voltage output Pump discharge volume Collector rotation speed Vertical moving distance of slider Frequency and inreval of cleaning Moving distance and speed of spinneret
Fan Exhaust Volume	12m ³ /hr or more
Pump Discharge	0.1 to 60ml/hr
Syringe Volume	2.5, 5.0, 10.0 (ml)
Safety Device	High voltage interlock, Door lock (option) Emergency Stop button, High voltage lamp Strengthened glass, Purification filter for exhaust gas
General Specifications	
Operational temperature	20 to 30 degree C
Operational humidity	30 to 70% (without dews)
Rated voltage	85 to 125VAC / 170 to 250VAC 50Hz / 60Hz
Power consumption	1kW or less
External dimensions	830 W x 630 D x 880 H (mm)
Internal dimensions	550 W x 400 D x 580 H (mm)
Weight	140kg or less



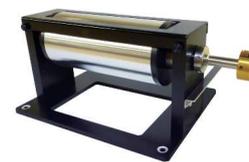
Plate Collector



Drum Collector
φ200 W200



Drum Collector
φ200 W30



Drum Collector
φ200 W100



Disk Collector



Roll-to-Roll Collector



Mandrel Collector



Y-axis Slide Collector



Clip Spinneret



Coaxial Spinneret



Tubeless Spinneret



Ultra-thin Coaxial Spinneret



Multiple Jet Spinneret

MECC CO., LTD.

196-1 Fukudo, Ogori-shi, Fukuoka 838-0137
JAPAN
Phone: +81-942-41-2900 Fax: +81-942-41-2205
E-mail: askmecc@mecc.co.jp
URL: www.mecc.co.jp