

# ACS Material Equipment Series

# Microfluidic Spinning Equipment

1 –	Product	Overview

 $2-Product\ Features$ 

- 3 Product Composition
- 4 Product Specifications
- 5-Applications

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#### 1. Product Overview

ACS Material microfluidic spinning equipment brings you microfluidic spinning technology, which is the newest preparation method for spinning orderly oriented fibers. Compared with electrospinning equipment, microfluidic spinning equipment is safer, since it can avoid high voltage electrostatic fields. This equipment can precisely control the receiving position and the scope of a single fiber and it is recommended for spinning one dimensional structural materials, etc.

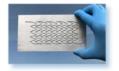


Photo of Microfluidic Spinning Equipment

#### 2. Product Features

- Spins a variety of materials
- Orderly arrangement of fiber array
- Fiber diameter range: nm~µm
- Produces organic-inorganic mixed fibers
- Precise control
- Easy to operate
- High security
- No need for special conditions such as high temperature and high pressure



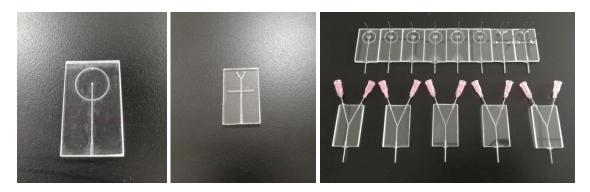


## **3. Product Composition**

- 1) Syringe pump
- 2) Microfluidic nozzle



3) Microfluidic chip



- 4) Spinning Receiver
- 5) Electronic control moving system



6) Temperature curing system

### 4. Product Specifications

Symin og Dynne	Volume	10 or 20 ml (contact us for availability)	
Syringe Pump	Feeding Speed	0.0003 mL/min-681.73 mL/min	
Sainaine Deseiver	Effective Stroke	360 mm	
Spinning Receiver	Rotating Speed	1-1440 rad/min (Adjustable)	
Translational Speed of Electronic Control Moving Device	0-1000 mm/min (Adjustable)		
Temperature Control Range	Room temperature ~80°C		
Temperature Control Accuracy	±1°C		
Humidity Accuracy	±3% RH		
Power Source	AC: 220V±10%, 50Hz		
Conditions of usage	Atmospheric pressure and room temperature		
Power of Temperature Curing System	200 W		
Rated Power of Microfluidic Spinning Equipment	600 W		
Size	950*550*600 mm		
Weight	55 kg		

### 5. Applications

- One-dimensional ordered fluorescent microfibers
- One-dimensional bamboo- structured fluorescent hybrid microfibers
- One-dimensional Janus hybrid microfibers
- One-dimensional microarrays and microreactors
- Three-dimensional Janus microspheres
- Uniformly sized and orderly arranged three-dimensional microbeads and hybrid microbeads, micro-structure reactors and sensors
- Experimental equipment for textile and microchemical engineering

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