

Foshan Lepton Precision M&C Tech Co.,Ltd Technical Proposal

Multi-needle Nanofiber Electrospinning Production Line MF01-001



Foshan Lepton Precision M&C Tech Co.,Ltd

Tel: 0757-89956077

Fax: 0757-86687012

E-mail: info@qingzitech.com

Web-site: www.qingzitech.net

**1. Technical Specifications****1. 1 Product Name, Model: Multi-needle Nanofiber Electrospinning Production Line MF01-001****1. 2 Param. Setting and Standard Configuration**

MF01-001 Standard Parameter Configuration				
No.	Item	Parameters and configuration	Way to Install	Qty.
1	High Voltage	Positive voltage DC: 0-50KV; Current \leq 2mA	The power supply is external to the control panel	4 Set
2	Liquid System	1 Precious metering pump with low noise and no pulsation; 2 Flow range: 0 ml/h~2700ml/h, continuously adjustable; 3 Special liquid supply system for electrospinning, insulation material packing;	Horizontal installation	4 Set
3	Spinning Jet System	1 Nozzle module: 16-needle array multi-nozzle, 256 needles; 2 Spinning flow: 100ml/h to 200ml/h;	Vertically downward to the collecting device	1 Set
4	Environment Control System	1 Temperature collection, display and control, temperature range: room temperature~50℃, temperature deviation: $\pm 3^{\circ}\text{C}$; 2 Humidity collection, display and control, humidity range: room humidity~30%, humidity deviation: $\pm 3\%\text{RH}$;	Temperature and humidity sensors are evenly distributed in the spinning chamber	1 Set
5	Collecting Device	1. The conveyor belt receiving device is used as the carrier of the fiber film substrate; 2. The receiving substrate width of spinning is 660mm; 3. The substrate transfer speed is adjustable within the range of 0~10m/min;	Horizontal installation	1 Set



6	Unwinding and Rewinding Device	<ol style="list-style-type: none">1. A set of unwinding device, including tension control;2. A set of winding device, including tension control and automatic deviation correction device;3. The winding and unwinding speed can be adjusted within the range of 0~10m/min;4. Automatic deviation correction accuracy $\pm 1\text{mm}$;	Horizontal ground installation	1 Set
7	Dryer	<ol style="list-style-type: none">1. Fiber film passes the dryer after spinning unit to accelerate volatilization of residual solvents, and roll into finished products;2. Baking temperature range: at room temperature to 80 °C, deviation $\pm 3\text{ °C}$;3. Maximum power: 3kW	Horizontal ground installation	1 Set
8	Enclosure Structure	<ol style="list-style-type: none">1. The casing is made of aluminum alloy frame;2. The front and rear windows are made of tempered glass;3. Multi - point temperature and humidity collection and display;4. Air inlet: through the hot dry air, can quickly adjust the temperature and humidity inside the cabinet;5. Exhaust device: multi-channel exhaust, adjustable;6. Floodlight: naked eye can observe the ejection and deposition process of nanofilament.		1 Set
9	Power Line	380v, three-phase four-wire		1PCS
10	Dimension Of Equipment	Standard spinning unit size: 2500mm (L) *1300mm (W) *2400mm (H) The whole line size: 8000mm (L) *1800mm (W) *2400mm (H)		



11	Equipment Power	8kW.		
----	--------------------	------	--	--

1. 3 Consumables and Material Distribution

Consumables and Material Distribution				
No.	Material	Specification	Quantity	Note
1	Drainage Tube	Inner diameter 2mm, external diameter 4mm, length 150mm	16 PCS	
2	Drainage Tube	Inner diameter 6mm, external diameter 8mm, length 1000mm	4 PCS	
3	Needle	22G needle	10 Boxes	
4	High Voltage Connection	Core 1 mm ² , external diameter 10mm	4 PCS	
5	High Voltage Connection	Core 0.5 mm ² , external diameter 4.3mm	12 PCS	
6	Usage & maintenance Manual		1 PCS	
7	Product Acceptance Confirmation		1 PCS	
8	After-sale Confirmation		1 PCS	
9	Product Qualification Inspection List		1 PCS	

1. 4 Optional Special Configuration

Optional Special Configuration			
No.	Item	Parameter	Remark
1	Enclosure Structure	Stainless steel shell or sheet metal coating shell	
2	Drying and Dehumidifying Equipment	Humidity control range: indoor temperature -30%RH, humidity deviation $\pm 3\%RH$	Humidity control

2. After-sale service

2.1 Generally, the warranty period of the machine for free is 1 year since testing is finished, then lifetime paid maintenance.

2.2 After testing, but the machine couldn't be delivered because of the customer, and the warranty period is 1 year since the contract delivery date, then lifetime paid maintenance.

2.3 If the users use the product incorrectly or refit the product, the unnatural damage isn't in the range of above free warranty, the users must pay for the repair cost.