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

Multi-needle Nanofiber Electrospinning Production Line MF01-001



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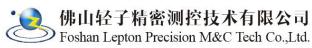
1.Technical Specifications

1. 1 Product Name, Model: <u>Multi-needle Nanofiber Electrospinning Production Line MF01-001</u>

1. 2 Param. Setting and Standard Configuration

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

_	_	P (8 × 7) Application 2 - John Strift Service (20 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×		
6	Unwindin g and Rewindin g Device	 A set of unwinding device, including tension control; A set of winding device, including tension control and automatic deviation correction device; The winding and unwinding speed can be adjusted within the range of 0~10m/min; Automatic deviation correction accuracy ±1mm; 	Horizontal ground installation	1 Set
7	Dryer	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 $^{\circ}$ C, deviation $\pm 3 ^{\circ}$ C; 3. Maximum power: 3kW	Horizontal ground installation	1 Set
8	Enclosure Structure	 The casing is made of aluminum alloy frame; The front and rear windows are made of tempered glass; Multi - point temperature and humidity collection and display; Air inlet: through the hot dry air, can quickly adjust the temperature and humidity inside the cabinet; Exhaust device: multi-channel exhaust, adjustable; 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)		



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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 mm², external diameter 10mm	4 PCS		
5	High Voltage Connection	Core 0.5 mm², 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	II IANI IMIAITVINA	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.