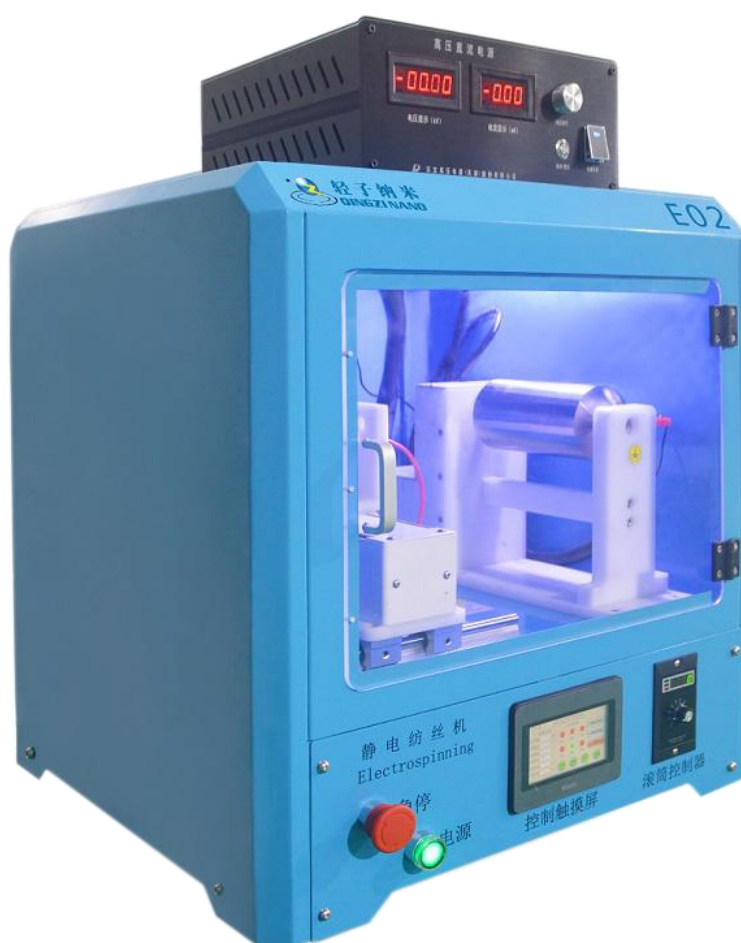




佛山轻子精密测控技术有限公司
Foshan Lepton Precision M&C Tech Co.,Ltd.

TECHNICAL PROPOSAL

FOR E03-001 LAB-SCALE ELECTROSPINNING MACHINE



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1. Technical Specifications

1.1 Product Name&Model: Lab Scale Electrospinning Machine E03-001

1.2 Equipment Parameters and Standard Configuration

E03-001 Standard Configuration Parameters				
No.	Item	Parameters and Configuration	Installation position	Qty.
1	High Voltage Power Supply	-Output voltage DC: 0—30KV, current<1mA, input voltage AC220±10%	Placed on top of machine casing	1 PCS
2	Numerical Control System	-4.3 inches human-machine interface numerical control system (Integrated with nozzle movement device, solution supply system, heating, exhausting, timing, lighting and other parts, and monitor running status)	Installed on the control panel.	1 Set
3	Solution Supply Pump System	-Supply model: Single syringe. -Max capacity:20ml. -Automatic solution supply speed range:0.01-30ml/h; -Manual solution supply speed range: 1-80 ml/min; -Applicable syringe size: 1, 10, 20ml;	Installed on the back side wall; can be installed on the motion platform	1 Set
4	Nanofibres Collection System	-Roller collection: effective length 150mm, dia Ø80mm; rotating speed: 0-1000r/min, adjustable;	Horizontally install on the right side	1 Set
		-Flat plate collection: L shape 180mm*220mm;		1 Set
5	Nozzle X-Y Axes Motion System	-X axis manual displacement stroke range: 50-200mm; -Y axis automatic motion platform: effective stroke 150mm; positional accuracy≤0.05mm;	Left side and horizontally installed	1 Set
6	Exhausting	-Exhaust speed: 0.5m ³ /min	Right back top side	1 Set



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7	Heating	-Indoor temp. to 45°C within 5mins.	Inside top position	1 Set
8	Nozzle System	1. Single needle nozzle, can freely change with 13~34G needle 2. Four-needle array nozzle, the size of the needle can be changed at will to improve the spinning efficiency.	On the motion platform	1 Set
9	Safety Guarantee System	Discharge short circuit protection; Operation indicator light; Security identification; Organic waste gas emission: avoid electric shock, fire, explosion and other accidents caused by charge accumulation, avoid leakage of organic waste gas and affect health.		1 Set
10	Machine Casing	-Overall size: < 60*60*80cm -Light blue color with visible window	Outer shell	1 Set
11	Power Line	-220v, three pole plug		2 PCS

1.3 Selected Special Configuration

Selected Special Configuration			
No.	Item	Parameters	Remarks
1	Three channel syringe pump	Maximum solution quantity: 20ml; Automatic liquid feeding speed range: 0.01 ~ 30ml/h; Manual liquid feeding speed range: 1 ~ 80 ml/min; Applicable syringe specifications: 1, 10, 20ml.	
2	Double coaxial nozzle	17 g / 22 g specifications	It must be used with the "Three channel syringe pump"



1.4 Consumables and Delivery Materials

Consumables and Delivery Materials				
No.	Materials	Specification	Qty.	Remarks
1	Solution Tube	Inner diameter 2mm,outer diameter 4mm	2 PCS	
2	Needle	22G needle	1 Box	
3	Syringe	10ml	5 PCS	
4	Test Spinning Material	10%PVA test spinning solution	20ml	
5	Use and Maintenance Manual	A4	1 Set	
6	Product Inspection Certificate	A4	1 Set	
7	Delivery list	A4	1 Set	

2. After-sale Service

2.1 Generally, the whole machine free warranty period is one year since debugging and acceptance is over, lifetime paid maintenance,consumables excluded.

2.2 The equipment installation adjustment test is completed, and it cannot be shipped due to customer reasons,thus the warranty period is one year from the date of contract delivery, and provide lifetime maintenance paid service.

2.3 For overseas service like assembly,installation,debugging or training service,etc.,if required and necessary,all the expenses would be absorbed by buyer.

2.4 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 shall pay for the repair cost.