



inovenso
Innovative Engineering Solutions

2021

SPARE PARTS CATALOG

HYBRID ELEC



Stainless Steel Co-axial Nozzle

Product Name	Product ID	Min Order Quantity	Price
Stainless Steel Co-axial Nozzle	BCN-0802	1 pcs	USD 580/pcs
Attachable Models	ALL MODELS		



Two special designed coaxial nozzles: Shell Nozzle (ID : 0.337 mm, OD: 3.3 mm) Core nozzle (ID: 0.6414 mm, OD: 1 mm) and an extra syringe pump to obtain core-shell, hollow and bicomponent nanofibers.

Stainless Steel Electrospinning Nozzle

Product Name	Product ID	Min Order Quantity	Price
Electrospinning Nozzle	STN-0800	10 pcs	USD 15/pcs
Attachable Models	ALL MODELS		



Special designed stainless steel nozzle for solution based electrospinning solutions Diameter of tip: 0,8 mm

Solution Distribution Pipe Set

The polymer solution is transferred by pumps to Aluminium pipes through hoses. Electrospinning jet formation occurs by the nozzles on the Aluminium pipes.



Machine Models	Diameter of Pipe	Length of Pipe	Number of Nozzles on One Pipe	Number of Pipes in One Set	Production ID	Price
NS 416	14 mm	1100 mm	33	4	ALP-N416	USD 2780/set
PE 550 - PE 3550	14 mm	710 mm	14	4	ALP-P550	USD 1640/set
PE 300	14 mm	460 mm	9	2	ALP-P300	USD 670/set
NS24	5,5 mm	320 mm	6	2	ALP-LS24	USD 580/set
NE300	5,5 mm	320 mm	4	2	ALP-LS300	USD 520/set

Needle/Nozzle Holder Block



This design is made for working with single nozzle. But it is possible to work with multinozzle by individual solution feeding.

Machine Models	Number of Holes On The Block	Length Of Holding Block	Production ID	Price
NS 416	21	1100 mm	HSN-N416	USD 695/set
PE 550 - PE 3550	11	710 mm	HSN-P550	USD 410/set
PE 300	7	460 mm	HSN-P300	USD 335/set
NS24	5	320 mm	HSN-LS24	USD 290/set
NE300	5	320 mm	HSN-LS300	USD 290/set
NE200	5	320 mm	HSN-LS200	USD 290/set
NE100	5	320 mm	HSN-LS100	USD 290/set
NS1/NS1+	3	140 mm	HSN-LS1	USD 210/set

Fitting For Single Nozzle Holder Block

Product Name	Product ID	Min Order Quantity	Price
Fitting For Single Nozzle Holder	FHB-0101	3 pcs	USD 52/pcs
Attachable Models	ALL MODELS		



This fitting is attached into the holes of needle/nozzle holder block and connects nozzle and solution distribution tubing.

Thread To Tube Straight Connector

Product Name	Product ID	Min Order Quantity	Price
Thread To Tube Straight Connector	ELT-0303	5 pcs	USD 14/pcs
Attachable Models	ALL MODELS		



- 4mm x M6 Straight push fit
- Leak Free

Push To Connect Tee Union Fitting

Product Name	Product ID	Min Order Quantity	Price
Push To Connect Tee Union Fitting	PNT-0302	10 pcs	USD 12/pcs
Attachable Models	PE550, PE300, NS24, NE300		



Connection Tube Diameter: 4mm to 4 mm Suitable for tubes with appropriate outer diameter.

Connectors are produced to be used only used for industrial applications and they must not be applied for medical field.

Push To Connect Cross Union Fitting

Product Name	Product ID	Min Order Quantity	Price
Push To Connect Cross Union Fitting	PNC-0301	10 pcs	USD 16/pcs
Attachable Models	PE550, PE300, NS24, NE300		



Connection Tube Diameter: 4mm to 4 mm Suitable for tubes with appropriate outer diameter.

Connectors are produced to be used only used for industrial applications and they must not be applied for medical field.

Luer Slip Syringe To Tube Connector

Product Name	Product ID	Min Order Quantity	Price
Luer Slip Syringe To Tube Connector	PTT-0401	2 pcs	USD 48/pcs
Attachable Models	ALL MODELS		



Connection between syringe and tube.

Polyethylene Tubing

Product Name	Product ID	Min Order Quantity	Price
Polyethylene tubing	PE-0204	20 meters /pack	USD 160/pack
Attachable Models	PE550, PE300, NS24, NE300, NE200, NE100		



Length: 20m/pack

Material:PE

ID of tube:2 mm

OD of tube: 4 mm

PTFE Tubing

Product Name	Product ID	Min Order Quantity	Price
PTFE (Teflon)	PTFE-0204	20 meters /pack	USD 370/pack
Attachable Models	PE550, PE300, NS24, NE300, NE200, NE100		



One package contains 20 m of tubes

Material:PTFE

ID of tube: 2 mm

OD of tube: 4 mm

Silicon Tube

Product Name	Product ID	Min Order Quantity	Price
Silicon Tube for peristaltic pump	RBR-0204	50 meters /pack	USD 380/pack
Attachable Models	NS416		



One package contains 50 m of tubes

ID of tube: 4 mm

OD of tube: 8 mm

1 to 2 flow distributor tube connection

Product Name	Product ID	Min Order Quantity	Price
1 to 2 flow distributor tube connection for Industrial Machine	FDT-0200	2 pcs	USD 120/pcs
Attachable Models	NS416		



1 to 4 flow distributor tube connection

Product Name	Product ID	Min Order Quantity	Price
1 to 4 flow distributor tube connection for Industrial Machine	FDT-0201	2 pcs	USD 120/pcs
Attachable Models	NS416		



Silicon Pipe Holder

Product Name	Product ID	Min Order Quantity	Price
Silicon Pipe Holder for Silicon Tube	RBR-0205	2 pcs	USD 120/pcs
Attachable Models	NS416		



1lt Polymer Solution Bottle with Cap

Product Name	Product ID	Min Order Quantity	Price
1lt Polymer Solution Bottle with Cap	GLS-0200	10 pcs	USD 70/pcs
Attachable Models	NS416, PE3550		



Fitting For Syringe Needle to Distribution Pipes

Product Name	Product ID	Min Order Quantity	Price
Fitting For Syringe Needle to Distribution Pipes	FHB-0103	3	USD 56/pcs
Attachable Models	NS416, PE550, PE300, NS24, NE300		



This fitting is designed for working with standard syringe needles over Aluminium distribution pipes.

Fitting For Syringe Needle to Holder Block

Product Name	Product ID	Min Order Quantity	Price
Fitting For Syringe Needle to Holder Block	FHB-0102	3	USD 56/pcs
Attachable Models	ALL MODELS		



Designed to work with standard blunt syringe needles. It is used with needle holder block. It makes connection between solution hose and needle.

Solvent Vapour Exhaust Hose

Product Name	Product ID	Min Order Quantity	Price
Solvent Vapour Exhaust Hose	HS-150	5 meters /pack	USD 350/pcs
Attachable Models	ALL MODELS		



Exhaust Hose for solvent evacuation.

Blunt Syringe Needles in with different Gauges

Product Name	Product ID	Min Order Quantity	Price
Blunt Syringe Needles in with different Gauges	FTC-1218	12 pcs	USD 2300/set
Attachable Models	ALL MODELS		



One set includes 12 pieces of **23G, 21G, 19G, 17G, 15G**

stainless steel blunt needles suitable for all kind of syringes and standard luer-lock connectors.

Total length: 1-1/2"(37mm)

Tip length: 1"(25mm)

Electrospinning Jet Visualization Camera

Product Name	Product ID	Min Order Quantity	Price
Taylor Cone Visualization Camera	CMR01	1 pcs	USD 2800/pcs
Attachable Models	ALL MODELS		



Taylor Cone Visualization Camera

External Grounding Equipment

Product Name	Product ID	Min Order Quantity	Price
External Grounding Line	ETL-0130	1 pcs	USD 800/pcs
Attachable Models	ALL MODELS		



External Grounding Line Rod +30 meters copper cable

Spare Parts Pack

Product Name	Product ID	Min Order Quantity	Price
Spare Parts Pack	00003	1 set	USD 2244/set
Attachable Models	ALL MODELS		



Includes: 1 Polyethylene Tubing, 1 Aluminum 5 Hole Single Nozzle Holder, 5 Aluminum pipe sets, 6 T –Shape Pneumatic Connectors, 6 Cross Shape Pneumatic Connectors, 5 Stainless Steel Electrospinning Nozzles, 5 Stainless Steel Single Nozzle Connectors, 5 Pipe head easy lock tube connectors



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