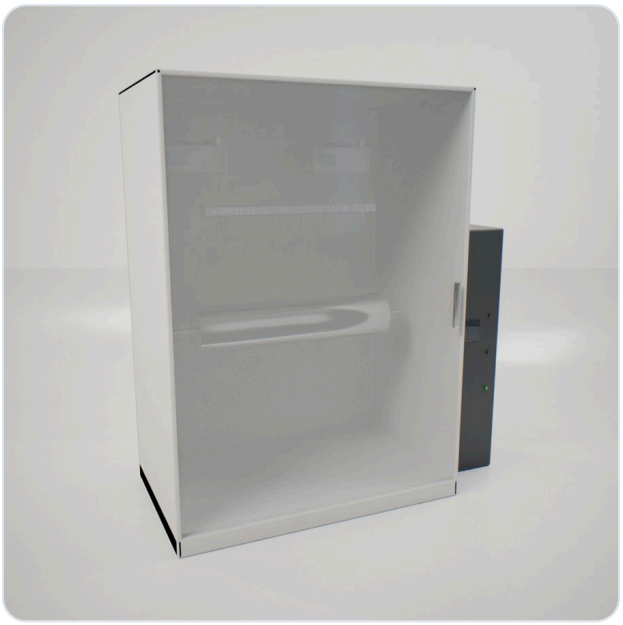
PRODUCT DATASHEET

Coaxial and Multi-Nozzle Electrospinning System

Core-shell fibres and higher output





DETAIL – MULTI-NOZZLE BAR

OVERVIEW

The Tech Inc. Coaxial and Multi-Nozzle Electrospinning System produces core-shell nanofibres through a coaxial spinneret and higher output through a multi-nozzle bar. Two syringe pumps feed core and shell solutions independently, and large drum or plate collectors give mats big enough for module and device work.

MODELS AND CONFIGURATIONS

- **Coaxial system** – core-shell and hollow fibres.
- **Multi-nozzle system** – higher output for larger mats.
- **Combined system** – both spinnerets in one chamber.

TYPICAL DESIGN DATA

Voltage	Up to 40 kV
Pumps	Two, independently controlled
Nozzles	Coaxial, or up to 8 in a bar
Collector	Drum to 1 m wide with traverse

APPLICATIONS

Drug delivery, tissue engineering, battery separators, filtration media and functional nanofibre membranes.

KEY ADVANTAGES

- **Two advanced methods** – coaxial and multi-nozzle in one platform
- **Larger mats** – wide collectors with traverse
- **Controlled** – independent pumps for core and shell

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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