PRODUCT DATASHEET

Electrospray Deposition System

Thin, even coatings by electrospray





DETAIL – XY GANTRY AND NOZZLE

OVERVIEW

The Tech Inc. Electrospray Deposition System deposits thin, even coatings of catalysts, nanoparticles and polymers by electrospray. A programmable XY gantry moves the nozzle over a heated substrate, so layers build up evenly across electrodes, membranes and sensors.

MODELS AND CONFIGURATIONS

- **Single-nozzle system** – research coatings.
- **Multi-nozzle system** – larger areas.
- **With ultrasonic option** – fine droplets for catalyst inks.

TYPICAL DESIGN DATA

Coating area	Up to 200 × 200 mm standard
Substrate	Heated to 150 °C
Voltage	Up to 30 kV
Motion	Programmable XY raster

APPLICATIONS

Fuel cell and electrolyser catalyst layers, battery electrodes, membrane surface coatings, sensors and particle production.

KEY ADVANTAGES

- **Even layers** – programmed raster over a heated plate
- **Low waste** – fine droplets land on the target
- **Versatile** – inks, polymers and particles

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

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