PRODUCT DATASHEET

# Flat Sheet Membrane Film Applicator / Membrane Coating



## OVERVIEW

The Tech Inc. Automatic Flat Sheet Membrane Casting Machine (Model TI-FSMCM-AUTO) is a fully automatic, digitally controlled film applicator designed for the preparation of flat sheet membranes used in research and industrial applications including microfiltration, ultrafiltration, nanofiltration, reverse osmosis, forward osmosis, pervaporation, gas separation, fuel cell, and battery coating. The machine is constructed from corrosion-resistant SS304 and features an integrated heating platform, vacuum chuck, brushless motor drive, and a standalone electrical control panel with digital speed and temperature control.

## TYPICAL DESIGN DATA

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|---|---|
| **Model** | TI-FSMCM-AUTO |

## APPLICATIONS

Flat Sheet Membrane Fabrication; microfiltration (MF), Ultrafiltration (UF), Nanofiltration (NF) & Reverse Osmosis (RO) Membrane Development; Gas Separation & Pervaporation Membrane Research; Battery Electrode & Fuel Cell Coating.

## KEY ADVANTAGES

- Fully Automatic, Digitally Controlled Film Applicator
- Large Coating Area of 450 × 300 mm
- Variable Coating Speed from 10–300 mm/s
- Digitally Adjustable Film Thickness from 1–15,000 µm
- High-Precision 10 Micron Thickness Adjustment

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

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