PRODUCT DATASHEET

Lab Melt Spinning Machine

Thermoplastic fibres at lab scale





DETAIL – EXTRUDER AND SPIN PACK

OVERVIEW

The Tech Inc. Lab Melt Spinning Machine spins fibres from thermoplastic polymers such as PP, PET, PA and PLA. Pellets are melted in the extruder, metered through a spin pack, cooled in a quench chimney and drawn on godets before winding.

MODELS AND CONFIGURATIONS

- **Monofilament machine** – single-hole spinneret.
- **Multifilament machine** – multi-hole spin pack.
- **Bicomponent option** – sheath-core fibres.

TYPICAL DESIGN DATA

Extruder	Up to 300 °C, several zones
Output	About 0.5 to 3 kg/h
Take-up speed	Up to about 1000 m/min
Polymers	PP, PET, PA, PLA and others

APPLICATIONS

Polymer and fibre research, biodegradable fibres, masterbatch trials and teaching.

KEY ADVANTAGES

- **Production-like** – same steps as industrial lines
- **Small batches** – a few kilograms per run
- **Flexible** – mono, multi and bicomponent

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

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