

TECHNICAL DATA SHEET

Extrova™ Fiber Drawing Machine

Lab-scale micro spinning platform · Precision spinning · High-speed winding · Flexible control



ACS Material Extrova™ Fiber Drawing Machine

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SECTION I

Product Overview

The Extrova™ Fiber Drawing Machine is a lab-scale micro spinning platform for polymer R&D and novel fiber preparation, combining precision spinning, high-speed winding, and flexible control in a compact bench-top format.

Applicable materials include PE, PP, TPE, PC, and PVC.

SECTION II

Core Advantages

- **High-speed winding** — uniform take-up at winding speeds of up to 200 m/min
- **Fine fibers** — fiber diameters down to 15 µm
- **Servo drive** — precise, independently controlled winding speed
- **Touch control** — 7-inch PLC touch screen interface

SECTION III

Specifications

Extrova™ Fiber Drawing Machine	
Godet diameter	75 mm
Winding width	10–160 mm
Traverse pitch	0.1–4 mm
Max winding speed	200 m/min
Fiber diameter	Down to 15 µm
Control interface	7-inch PLC touch screen
Power supply	220 V, 50 Hz
Dimensions	720 × 430 × 500 mm

SECTION IV

Fiber Sample Process

A typical fiber sampling run proceeds through four stages:

- **01 Precision extrusion**
- **02 Godet haul-off**
- **03 Fiber forming**
- **04 Uniform winding**

SECTION V

Applications

Typical applications for the Extrova™ Fiber Drawing Machine include:

- **Functional fiber formulation R&D** — develop and refine functional fiber formulations
- **New material validation** — validate new polymers in fiber form at lab scale
- **Small-batch pilot production** — produce small pilot batches for downstream testing

Product value: lower R&D sampling cost, better winding consistency, adjustable fiber diameter, and shorter formulation validation cycles.

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