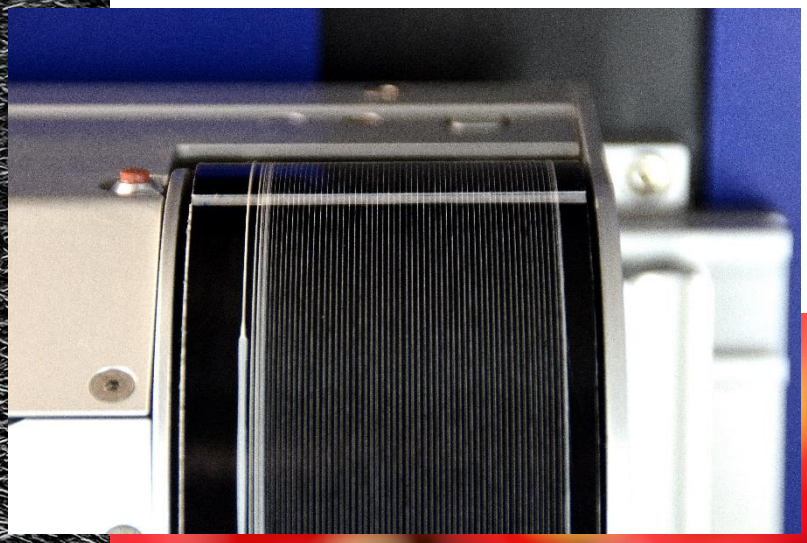
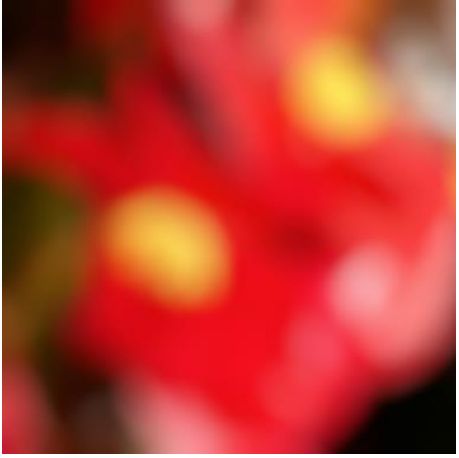
Textechno
textile testing technology



MICRO-BATCH SPINNER

Laboratory Melt-Spinning System for Minimal Sample Amounts

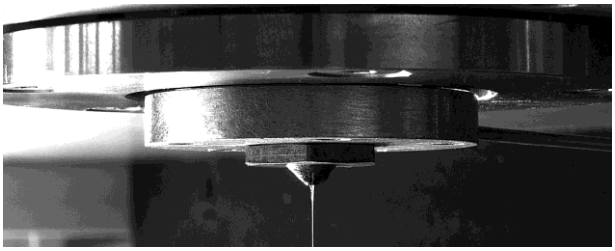


MICRO-BATCH SPINNER
Efficient filament spinning for R&D – from just a few milligrams of polymer

The MICRO-BATCH SPINNER is a compact melt-spinning instrument designed for the development and testing of polymer formulations and additives. It enables spinning trials using a little as 20 milligrams of polymer under spinning conditions that are meaningful in comparison to those of full-scale production machines.

The instrument is ideal for early-stage polymer and additive research helping to identify filament forming polymer candidates and measure their fibre characteristics.

Options include a vacuum system avoiding degradation of sensitive polymers under heat, quench air as well as an infrared heating system which can prevent the filament from cooling and crystallizing too fast.



Main Features

Sample size:	starting from 20 milligrams, fully automatic string up
Piston spinning:	spinning of single filament with freely adjustable spinneret temperature, e.g. 290 °C
Continuous spinning option:	using monofilament as starting material
Titer range:	≥ 0.5 dtex/filament
Adjustable melt draw ratio:	e.g. 300 (POY)
Adjustable draw-off speed:	up to 2000 m/min
Interchangeable capillaries:	L/D = 1–5
Integrated pressure sensor	for in-process viscosity estimation
Optional vacuum operation	to prevent oxidation of polymer while melting
Controlled cooling:	radiant heating + quench air

Results

Filaments spun with the MICRO-BATCH SPINNER show mechanical properties (tenacity, elongation, modulus) and crystallinity comparable to those from industrial pilot systems. The filament can perfectly be tested using Textechno's FAVIMAT+.

The MICRO-BATCH SPINNER brings production of industrial-level filaments to your lab – fast, flexible, and extremely material-efficient.

Technical Data

Mains supply:	230V, 50 (60) Hz
Lacquer finish:	RAL 9006 / 5002
Dimensions	
- height	1125 mm
- width	800 mm
- depth	660 mm
- weight	140 kg

THE TEXTECHNO GROUP

Your reliable partners for
quality improvement

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