

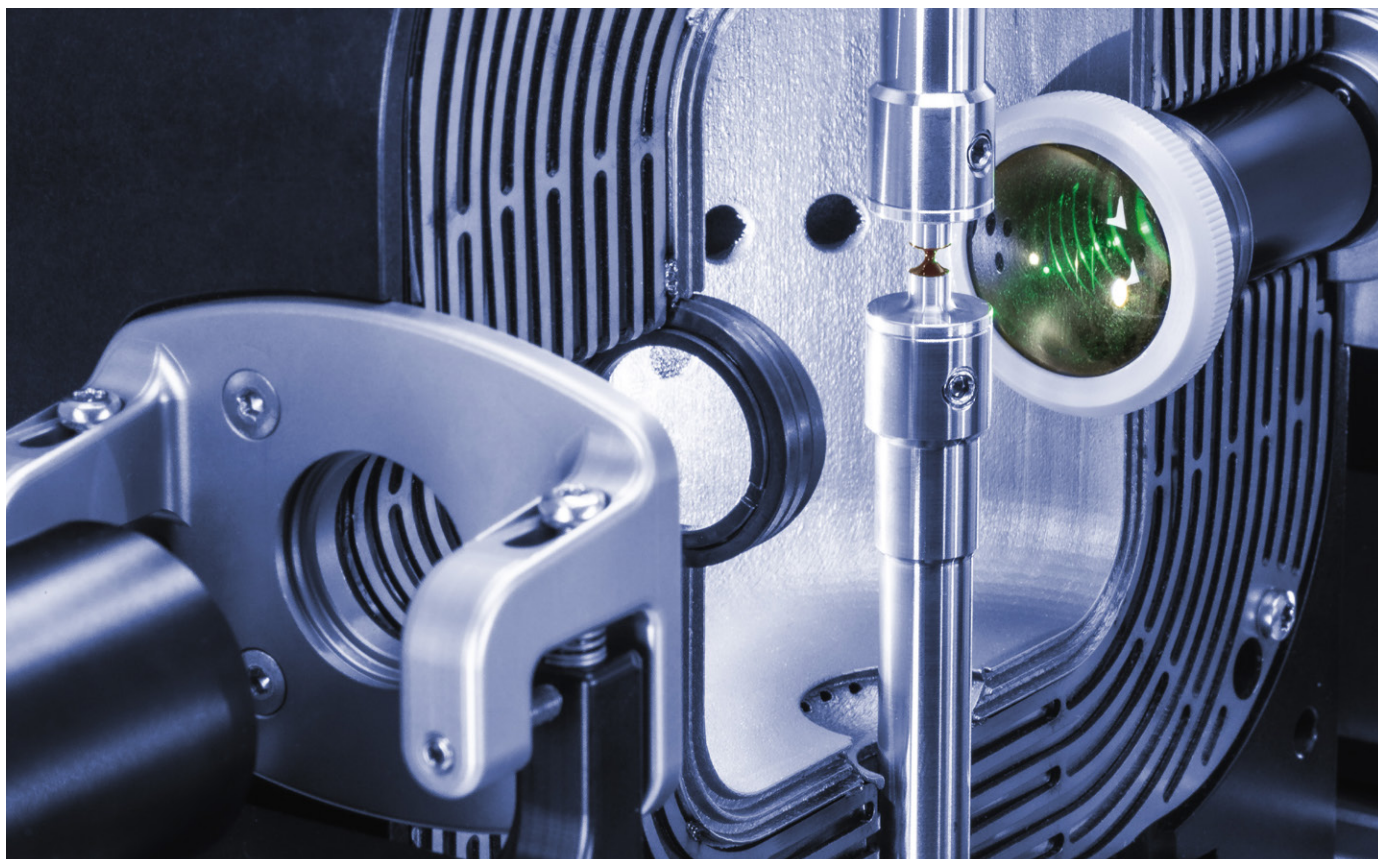
Shear to Extension, on a Single Platform

Setup for extensional capillary-breakup rheology

Analyze filament breakup
and extensional flow
behavior on your MCR
rheometer with a single
integrated solution.



Find out more



Advanced extensional capillary-breakup rheology on the MCR 703 MultiDrive

Our customized extensional capillary-breakup rheology solution for the MCR 703 MultiDrive enables detailed characterization of filament thinning and breakup behavior while combining shear and extensional rheology in a single integrated platform.

The solution delivers comprehensive material insight without the need for a separate standalone instrument. It supports advanced research, formulation development, and quality control across a broad range of industries and applications.

Key benefits

- Analysis of capillary breakup and determination of extensional relaxation times
- Combined shear and extensional rheology
- Optical analysis of filament evolution with camera system
- Optional extensional testing under temperature control with convection temperature device

Application advantages

- Analysis of material behavior in critical processing steps like spraying, jet printing, and coating
- Comprehensive analysis of material properties
- Reliable results for filament breakup and extensional relaxation time.
- Prediction of temperature effects on material properties

Designed for complex fluids

The system enables investigation of viscoelastic behavior in materials where extensional properties strongly influence processing and end-use performance. Analysis of filament evolution and breakup dynamics offers a better understanding of stringiness, spinnability, dispensing behavior, and process stability under realistic conditions.

With Anton Paar, it's a new era in rheometry: Advanced extensional capillary-breakup characterization is now integrated into the trusted MCR platform.