# Rosand RH2000

# Bench top capillary rheometer for research to QC testing.

Compact system capable of meeting most test requirements encountered in capillary rheometry. Combining many advanced features associated with larger floor-standing models, the Rosand RH2000 system can be configured for research measurements through to Quality Control applications.

## Features and benefits

The Rosand RH2000 bench top capillary rheometer provides highly flexible measurement capabilities and configuration options for a wide variety of applications - from polymer melts to pharmaceutical processing, and from foodstuffs to inks and coatings.

* Single and twin bore barrel options for cost effective routine measurement capability through to dual measurements for simultaneous assessment of absolute shear viscosity and extensional (elongational) viscosities.
* Maximum drive force (up to 20kN) and maximum speed (up to 1200mm/min) capabilities enable a wide range of shear rates, and correlation with many real material processing conditions.
* Rigid one-piece cantilever frame design providing extreme mechanical strength and stiffness for a compact bench top unit.
* Unique swivel head design gives easy access to the rheometer barrel for sample loading and instrument cleaning.
* Range of optional barrel sizes and barrel materials to permit measurement of thermally-sensitive, chemically-aggressive or aqueous-based samples.
* Wide range of high precision tungsten carbide dies as standard to cover all materials and test types.
* Easily interchangeable melt pressure transducers to cover all test requirements – configured with low noise, triple-stage amplifiers for optimized measurement sensitivity at the die entrance.
* Proprietary bi-modal speed control algorithms to optimize shear rate measurement range for a particular die.
* Precise sample temperature control using three independent zone heaters, with 10 times DIN accuracy platinum resistance thermometers. High temperature (500°C maximum) and cooling coil options also available.
* Nitrogen purge option available to minimize sample degradation.
* Accessories for die swell measurement for evaluation of elastic samples.
* Easy to use Flowmaster software with full range of tests and analyses for shear and extensional viscosity, as well as determining sample stability, wall slip and melt fracture.